Clemente Capasso

List of Publications by Year
in descending order

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1,384	87,075	460 134	1764 218
papers	citations	h-index	g-index

1407	1407	1407	31995
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phenols from Origanum dictamnus L. and Thymus vulgaris L. and their activity against Malassezia globosa carbonic anhydrase. Natural Product Research, 2022, 36, 1558-1564.	1.0	11
2	Biochemical and structural characterization of beta-carbonic anhydrase from the parasite Trichomonas vaginalis. Journal of Molecular Medicine, 2022, 100, 115-124.	1.7	4
3	Design and development of novel series of indoleâ€3â€sulfonamide ureido derivatives as selective carbonic anhydrase II inhibitors. Archiv Der Pharmazie, 2022, 355, e2100333.	2.1	6
4	Novel benzenesulfonamideâ€bearing pyrazoles and 1,2,4â€thiadiazoles as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2100241.	2.1	11
5	Natural inspired ligustrazine-based SLC-0111 analogues as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 228, 114008.	2.6	12
6	Application of the dual-tail approach for the design and synthesis of novel Thiopyrimidineâ€“Benzenesulfonamide hybrids as selective carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 228, 114004.	2.6	20
7	Synthesis, biological evaluation, and in silico studies of potential activators of apoptosis and carbonic anhydrase inhibitors on isatin-5-sulfonamide scaffold. European Journal of Medicinal Chemistry, 2022, 228, 113997.	2.6	16
8	Post-translational modifications in tumor-associated carbonic anhydrases. Amino Acids, 2022, 54, 543-558.	1.2	7
9	Discovery of 2,4-thiazolidinedione-tethered coumarins as novel selective inhibitors for carbonic anhydrase IX and XII isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 531-541.	2.5	15
10	Coumarins effectively inhibit bacterial Î±-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 333-338.	2.5	24
11	2-(2-Hydroxyethyl)piperazine derivatives as potent human carbonic anhydrase inhibitors: Synthesis, enzyme inhibition, computational studies and antiglaucoma activity. European Journal of Medicinal Chemistry, 2022, 228, 114026.	2.6	1
12	The Role of Selenium in Pathologies: An Updated Review. Antioxidants, 2022, 11, 251.	2.2	120
13	New Histamine-Related Five-Membered N-Heterocycle Derivatives as Carbonic Anhydrase I Activators. Molecules, 2022, 27, 545.	1.7	2
14	Chagas Disease: Drug Development and Parasite Targets. Topics in Medicinal Chemistry, 2022, , 1.	0.4	5
15	Discovery of new carbonic anhydrase IX inhibitors as anticancer agents by toning the hydrophobic and hydrophilic rims of the active site to encounter the dual-tail approach. European Journal of Medicinal Chemistry, 2022, 232, 114190.	2.6	26
16	Inhibition studies of bacterial Î±-carbonic anhydrases with phenols. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 666-671.	2.5	18
17	Coumarins inhibit Î²-class carbonic anhydrase from Plasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 680-685.	2.5	8
18	Acipimox inhibits human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 672-679.	2.5	5

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19	Repurposing FDA-approved sulphonamide carbonic anhydrase inhibitors for treatment of Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 51-61.	2.5	26
20	2-Aminobenzoxazole-appended coumarins as potent and selective inhibitors of tumour-associated carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 168-177.	2.5	11
21	Antiproliferative effects of sulphonamide carbonic anhydrase inhibitors C18, SLC-0111 and acetazolamide on bladder, glioblastoma and pancreatic cancer cell lines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 280-286.	2.5	26
22	Identification of Novel and Potent Indole-Based Benzenesulfonamides as Selective Human Carbonic Anhydrase II Inhibitors: Design, Synthesis, In Vitro, and In Silico Studies. International Journal of Molecular Sciences, 2022, 23, 2540.	1.8	9
23	Synthesis, molecular modelling and QSAR study of new N-phenylacetamide-2-oxoindole benzensulfonamide conjugates as carbonic anhydrase inhibitors with antiproliferative activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 701-717.	2.5	13
24	Isocoumarins: a new class of selective carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 743-748.	2.5	13
25	Carbonic Anhydrase Inhibitors Featuring a Porphyrin Scaffold: Synthesis, Optical and Biological Properties. European Journal of Organic Chemistry, 2022, 2022, .	1.2	3
26	Inhibition of Schistosoma mansoni carbonic anhydrase by the antiparasitic drug clorsulon: X-ray crystallographic and in vitro studies. Acta Crystallographica Section D: Structural Biology, 2022, 78, 321-327.	1.1	8
27	Diversely substituted sulfamides for fragment-based drug discovery of carbonic anhydrase inhibitors: synthesis and inhibitory profile. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 857-865.	2.5	0
28	Modulation of Carbonic Anhydrases Activity in the Hippocampus or Prefrontal Cortex Differentially Affects Social Recognition Memory in Rats. Neuroscience, 2022, 497, 184-195.	1.1	12
29	Biological investigation of N-methyl thiosemicarbazones as antimicrobial agents and bacterial carbonic anhydrases inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 986-993.	2.5	13
30	5-(Sulfamoyl)thien-2-yl 1,3-oxazole inhibitors of carbonic anhydrase II with hydrophilic periphery. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1005-1011.	2.5	2
31	Perspectives on the design and discovery of Î±-ketoamide inhibitors for the treatment of novel coronavirus: where do we stand and where do we go?. Expert Opinion on Drug Discovery, 2022, 17, 547-557.	2.5	5
32	The three-tails approach as a new strategy to improve selectivity of action of sulphonamide inhibitors against tumour-associated carbonic anhydrase IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 930-939.	2.5	19
33	Pyrazolo[4,3-c]pyridine Sulfonamides as Carbonic Anhydrase Inhibitors: Synthesis, Biological and In Silico Studies. Pharmaceuticals, 2022, 15, 316.	1.7	9
34	Perfusion-Based Bioreactor Culture and Isothermal Microcalorimetry for Preclinical Drug Testing with the Carbonic Anhydrase Inhibitor SLC-0111 in Patient-Derived Neuroblastoma. International Journal of Molecular Sciences, 2022, 23, 3128.	1.8	10
35	4-Anilinoquinazoline-based benzenesulfonamides as nanomolar inhibitors of carbonic anhydrase isoforms I, II, IX, and XII: design, synthesis, in-vitro, and in-silico biological studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 994-1004.	2.5	9
36	Exploration of 2-phenylquinoline-4-carboxamide linked benzene sulfonamide derivatives as isoform selective inhibitors of transmembrane human carbonic anhydrases. European Journal of Medicinal Chemistry, 2022, 234, 114247.	2.6	7

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37	Benzoselenoates: A novel class of carbonic anhydrase inhibitors. Bioorganic Chemistry, 2022, 122, 105751.	2.0	2
38	Tail-approach based design and synthesis of Arylthiazolylhydrazono-1,2,3-triazoles incorporating sulfanilamide and metanilamide as human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2022, 123, 105764.	2.0	11
39	Heterobimetallic complexes containing organometallic acylhydrazone ligands as potential inhibitors of human carbonic anhydrases. Journal of Inorganic Biochemistry, 2022, 232, 111814.	1.5	2
40	Aromatic Sulfonamides including a Sulfonic Acid Tail: New Membrane Impermeant Carbonic Anhydrase Inhibitors for Targeting Selectively the Cancer-Associated Isoforms. International Journal of Molecular Sciences, 2022, 23, 461.	1.8	12
41	Novel 1,3,5-Triazinyl Aminobenzenesulfonamides Incorporating Aminoalcohol, Aminochalcone and Aminostilbene Structural Motifs as Potent Anti-VRE Agents, and Carbonic Anhydrases I, II, VII, IX, and XII Inhibitors. International Journal of Molecular Sciences, 2022, 23, 231.	1.8	5
42	One-Pot Procedure for the Synthesis of Asymmetric Substituted Ureido Benzene Sulfonamides as Effective Inhibitors of Carbonic Anhydrase Enzymes. Journal of Medicinal Chemistry, 2022, 65, 824-837.	2.9	8
43	Dithiocarbamates effectively inhibit the Î±-carbonic anhydrase from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1-8.	2.5	13
44	Ureidosulfocoumarin Derivatives As Selective and Potent Carbonic Anhydrase IX and XII Inhibitors. ChemMedChem, 2022, 17, e202100725.	1.6	6
45	Heterologous expression and biochemical characterisation of the recombinant Î²-carbonic anhydrase (MpaCA) from the warm-blooded vertebrate pathogen malassezia pachydermatis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 62-68.	2.5	8
46	Calixarenes Incorporating Sulfonamide Moieties: Versatile Ligands for Carbonic Anhydrases Inhibition. Chemistry - A European Journal, 2022, 28, .	1.7	3
47	Novel 3-(6-methylpyridin-2-yl)coumarin-based chalcones as selective inhibitors of cancer-related carbonic anhydrases IX and XII endowed with anti-proliferative activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1043-1052.	2.5	13
48	New 1Hâ€indoleâ€2,3â€dione 3â€thiosemicarbazones with 3â€sulfamoylphenyl moiety as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2200023.	2.1	3
49	Immobilization of carbonic anhydrase for CO2 capture and utilization. Applied Microbiology and Biotechnology, 2022, 106, 3419-3430.	1.7	13
50	The inhibitory effect of boric acid on hypoxia-regulated tumour-associated carbonic anhydrase IX. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1340-1345.	2.5	5
51	The production and biochemical characterization of Î±-carbonic anhydrase from Lactobacillus rhamnosus GG. Applied Microbiology and Biotechnology, 2022, 106, 4065-4074.	1.7	3
52	4-(3-Alkyl/benzyl-guanidino)benzenesulfonamides as selective carbonic anhydrase VII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1568-1576.	2.5	15
53	Cloning, purification, kinetic and anion inhibition studies of a recombinant Î²-carbonic anhydrase from the Atlantic salmon parasite platyhelminth Gyrodactylus salaris. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1577-1586.	2.5	10
54	Selective inhibition of carbonic anhydrase IX by sulphonylated 1,2,3-triazole incorporated benzenesulphonamides capable of inducing apoptosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1454-1463.	2.5	8

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55	Development of Praziquantel sulphonamide derivatives as antischistosomal drugs. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1479-1494.	2.5	5
56	Anticancer carbonic anhydrase inhibitors: a patent and literature update 2018-2022. Expert Opinion on Therapeutic Patents, 2022, 32, 833-847.	2.4	19
57	A decade of tail-approach based design of selective as well as potent tumor associated carbonic anhydrase inhibitors. Bioorganic Chemistry, 2022, 126, 105920.	2.0	36
58	Insights into the effect of elaborating coumarin-based aryl enaminones with sulfonamide or carboxylic acid functionality on carbonic anhydrase inhibitory potency and selectivity. Bioorganic Chemistry, 2022, 126, 105888.	2.0	12
59	A comparative study of carbonic anhydrase activity in lymphocytes from colorectal cancer tissues and adjacent healthy counterparts. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1651-1655.	2.5	8
60	Click chemistryâ€based synthesis of new benzenesulfonamide derivatives bearing triazole ring as selective carbonic anhydrase II inhibitors. Drug Development Research, 2022, 83, 1281-1291.	1.4	7
61	Synthesis and biological evaluation of sulfonamideâ€based compounds as inhibitors of carbonic anhydrase from Vibrio cholerae. Archiv Der Pharmazie, 2022, 355, .	2.1	3
62	Investigation of carbonic anhydrase inhibitory effects and cytotoxicities of pyrazole-based hybrids carrying hydrazone and zinc-binding benzenesulfonamide pharmacophores. Bioorganic Chemistry, 2022, 127, 105969.	2.0	10
63	Structure-activity relationship studies for inhibitors for vancomycin-resistant Enterococcus and human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1838-1844.	2.5	21
64	Continued Structural Exploration of Sulfocoumarin as Selective Inhibitor of Tumor-Associated Human Carbonic Anhydrases IX and XII. Molecules, 2022, 27, 4076.	1.7	4
65	Cancer Therapeutic Targeting of Hypoxia Induced Carbonic Anhydrase IX: From Bench to Bedside. Cancers, 2022, 14, 3297.	1.7	45
66	Squaramide-Tethered Sulfonamides and Coumarins: Synthesis, Inhibition of Tumor-Associated CAs IX and XII and Docking Simulations. International Journal of Molecular Sciences, 2022, 23, 7685.	1.8	9
67	Novel 3-substituted coumarins as selective human carbonic anhydrase IX and XII inhibitors: Synthesis, biological and molecular dynamics analysis. European Journal of Medicinal Chemistry, 2021, 209, 112897.	2.6	38
68	Ninhydrins inhibit carbonic anhydrases directly binding to the metal ion. European Journal of Medicinal Chemistry, 2021, 209, 112875.	2.6	18
69	Radiotracers for positron emission tomography (PET) targeting tumour-associated carbonic anhydrase isoforms. European Journal of Medicinal Chemistry, 2021, 213, 113046.	2.6	12
70	Response to Perspectives on the Classical Enzyme Carbonic Anhydrase and the Search for Inhibitors. Biophysical Journal, 2021, 120, 178-181.	0.2	16
71	Protease inhibitors targeting the main protease and papain-like protease of coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 309-324.	2.4	25
72	Activation of carbonic anhydrases from human brain by amino alcohol oxime ethers: towards human carbonic anhydrase VII selective activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 48-57.	2.5	12

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73	Activation of the Î²-carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 758-763.	2.5	3
74	Anion inhibition studies of the Î±-carbonic anhydrases from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1061-1066.	2.5	17
75	PEG Linker Length Strongly Affects Tumor Cell Killing by PEGylated Carbonic Anhydrase Inhibitors in Hypoxic Carcinomas Expressing Carbonic Anhydrase IX. International Journal of Molecular Sciences, 2021, 22, 1120.	1.8	8
76	Anti-breast cancer action of carbonic anhydrase IX inhibitor 4-[4-(4-Benzo[1,3]dioxol-5-ylmethyl-piperazin-1-yl)-benzylidene-hydrazinocarbonyl]-benzenesulfonamide (BSM-0004): inÂvitro and inÂvivo studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 954-963.	2.5	11
77	Zeta-carbonic anhydrases show CS2 hydrolase activity: A new metabolic carbon acquisition pathway in diatoms?. Computational and Structural Biotechnology Journal, 2021, 19, 3427-3436.	1.9	10
78	Biochemical profiling of anti-HIV prodrug Elsulfavirine (Elpida^{Â®}) and its active form VM1500A against a panel of twelve human carbonic anhydrase isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1056-1060.	2.5	5
79	Anion inhibition studies of the Zn(II)-bound Î¹-carbonic anhydrase from the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 372-376.	2.5	19
80	A Story on Carbon Dioxide and Its Hydration. , 2021, , 115-131.		0
81	Effect of Sulfonamides and Their Structurally Related Derivatives on the Activity of Î¹-Carbonic Anhydrase from Burkholderia territorii. International Journal of Molecular Sciences, 2021, 22, 571.	1.8	18
82	Tetrahydroquinazole-based secondary sulphonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IV, and IX, and computational studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1874-1883.	2.5	4
83	Multitargeting approaches involving carbonic anhydrase inhibitors: hybrid drugs against a variety of disorders. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1702-1714.	2.5	32
84	Effect of amino acids and amines on the activity of the recombinant Î¹-carbonic anhydrase from the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1000-1006.	2.5	7
85	An anion and small molecule inhibition study of the Î²-carbonic anhydrase from Staphylococcus aureus. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1088-1092.	2.5	9
86	Is carbonic anhydrase inhibition useful as a complementary therapy of Covid-19 infection?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1230-1235.	2.5	21
87	Handling drug-target selectivity: A study on ureido containing Carbonic Anhydrase inhibitors. European Journal of Medicinal Chemistry, 2021, 212, 113035.	2.6	10
88	Design and synthesis of benzenesulfonamideâ€linked imidazo[2,1â€b][1,3,4]thiadiazole derivatives as carbonic anhydrase I and II inhibitors. Archiv Der Pharmazie, 2021, 354, e2100028.	2.1	7
89	Carbonic Anhydrases: New Perspectives on Protein Functional Role and Inhibition in Helicobacter pylori. Frontiers in Microbiology, 2021, 12, 629163.	1.5	42
90	Discovery of a novel series of indolylchalcone-benzenesulfonamide hybrids acting as selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2021, 108, 104647.	2.0	11

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91	Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. European Journal of Medicinal Chemistry, 2021, 214, 113260.	2.6	6
92	Structureâ€“Activity Relationship Studies of Acetazolamide-Based Carbonic Anhydrase Inhibitors with Activity against Neisseria gonorrhoeae. ACS Infectious Diseases, 2021, 7, 1969-1984.	1.8	48
93	Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. Journal of Medicinal Chemistry, 2021, 64, 3100-3114.	2.9	17
94	Coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 291-294.	2.4	7
95	Development of novel benzofuran-based SLC-0111 analogs as selective cancer-associated carbonic anhydrase isoform IX inhibitors. European Journal of Medicinal Chemistry, 2021, 216, 113283.	2.6	38
96	Benzyl alcohol inhibits carbonic anhydrases by anchoring to the zinc coordinated water molecule. Biochemical and Biophysical Research Communications, 2021, 548, 217-221.	1.0	5
97	Synthesis and Biological Evaluation of Coumarin-Linked 4-Anilinomethyl-1,2,3-Triazoles as Potent Inhibitors of Carbonic Anhydrases IX and XIII Involved in Tumorigenesis. Metabolites, 2021, 11, 225.	1.3	8
98	A Highlight on the Inhibition of Fungal Carbonic Anhydrases as Drug Targets for the Antifungal Armamentarium. International Journal of Molecular Sciences, 2021, 22, 4324.	1.8	26
99	Role of Carbonic Anhydrase in Cerebral Ischemia and Carbonic Anhydrase Inhibitors as Putative Protective Agents. International Journal of Molecular Sciences, 2021, 22, 5029.	1.8	10
100	The Glitazone Class of Drugs as Carbonic Anhydrase Inhibitorsâ€”A Spin-Off Discovery from Fragment Screening. Molecules, 2021, 26, 3010.	1.7	6
101	Advances in the discovery of novel agents for the treatment of glaucoma. Expert Opinion on Drug Discovery, 2021, 16, 1209-1225.	2.5	24
102	Emerging role of carbonic anhydrase inhibitors. Clinical Science, 2021, 135, 1233-1249.	1.8	117
103	Chromene-Containing Aromatic Sulfonamides with Carbonic Anhydrase Inhibitory Properties. International Journal of Molecular Sciences, 2021, 22, 5082.	1.8	6
104	Synthesis of Azasugarâ€“Sulfonamide conjugates and their Evaluation as Inhibitors of Carbonic Anhydrases: the Azasugar Approach to Selectivity. European Journal of Organic Chemistry, 2021, 2021, 2604-2614.	1.2	2
105	Small-molecule CD73 inhibitors for the immunotherapy of cancer: a patent and literature review (2017â€“present). Expert Opinion on Therapeutic Patents, 2021, 31, 867-876.	2.4	23
106	Comprehensive study on potent and selective carbonic anhydrase inhibitors: Synthesis, bioactivities and molecular modelling studies of 4-(3-(2-arylidenehydrazine-1-carbonyl)-5-(thiophen-2-yl)-1H-pyrazole-1-yl) benzenesulfonamides. European Journal of Medicinal Chemistry, 2021, 217, 113351.	2.6	30
107	Quinoline-sulfamoyl carbamates/sulfamide derivatives: Synthesis, cytotoxicity, carbonic anhydrase activity, and molecular modelling studies. Bioorganic Chemistry, 2021, 110, 104778.	2.0	6
108	Inhibition of Carbonic Anhydrase IX Promotes Apoptosis through Intracellular pH Level Alterations in Cervical Cancer Cells. International Journal of Molecular Sciences, 2021, 22, 6098.	1.8	24

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109	Identification of N-phenyl-2-(phenylsulfonyl)acetamides/propanamides as new SLC-0111 analogues: Synthesis and evaluation of the carbonic anhydrase inhibitory activities. European Journal of Medicinal Chemistry, 2021, 218, 113360.	2.6	24
110	Insertion of metal carbenes into the anilinic Nâ€“H bond of unprotected aminobenzenesulfonamides delivers low nanomolar inhibitors of human carbonic anhydrase IX and XII isoforms. European Journal of Medicinal Chemistry, 2021, 218, 113352.	2.6	6
111	Taurultams incorporating arylsulfonamide: First inÂvitro inhibition studies of Î±-, Î²- and Î³-class Carbonic Anhydrases from Vibrio cholerae and Burkholderia pseudomallei. European Journal of Medicinal Chemistry, 2021, 219, 113444.	2.6	4
112	Synthesis and Human Carbonic Anhydrase I, II, IX, and XII Inhibition Studies of Sulphonamides Incorporating Mono-, Bi- and Tricyclic Imide Moieties. Pharmaceuticals, 2021, 14, 693.	1.7	5
113	Data Analytics for Performance Modelling of Photovoltaic Systems in the Internet of Energy Scenario. , 2021, , .		2
114	Structural Insights into Schistosoma mansoni Carbonic Anhydrase (SmCA) Inhibition by Selenoureido-Substituted Benzenesulfonamides. Journal of Medicinal Chemistry, 2021, 64, 10418-10428.	2.9	12
115	Synthesis of new 7â€aminoâ€3,4â€dihydroquinolinâ€2(1H)â€oneâ€peptide derivatives and their carbonic anhydrase enzyme inhibition, antioxidant, and cytotoxic activities. Archiv Der Pharmazie, 2021, 354, e2100122.	2.1	7
116	Design, synthesis and biochemical evaluation of novel carbonic anhydrase inhibitors triggered by structural knowledge on hCA VII. Bioorganic and Medicinal Chemistry, 2021, 44, 116279.	1.4	2
117	Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. Angewandte Chemie - International Edition, 2021, 60, 23068-23082.	7.2	17
118	New Sulfanilamide Derivatives Incorporating Heterocyclic Carboxamide Moieties as Carbonic Anhydrase Inhibitors. Pharmaceuticals, 2021, 14, 828.	1.7	11
119	Genome-wide synthetic lethal screen unveils novel CAIX-NFS1/xCT axis as a targetable vulnerability in hypoxic solid tumors. Science Advances, 2021, 7, .	4.7	65
120	Quantum mechanical study on the activation mechanism of human carbonic anhydrase VII cluster model with bis-histamine schiff bases and bis-spinaceamine derivatives. Bioorganic and Medicinal Chemistry, 2021, 44, 116276.	1.4	5
121	Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. European Journal of Medicinal Chemistry, 2021, 226, 113875.	2.6	15
122	Determination of intracellular proteinâ€“ligand binding affinity by competition binding in-cell NMR. Acta Crystallographica Section D: Structural Biology, 2021, 77, 1270-1281.	1.1	14
123	4â€Sulfamoylphenylalkylamides as Inhibitors of Carbonic Anhydrases Expressed in Vibrio cholerae. ChemMedChem, 2021, 16, 3787-3794.	1.6	5
124	Synthesis, Crystal Structure, Inhibitory Activity and Molecular Docking of Coumarins/Sulfonamides Containing Triazolyl Pyridine Moiety as Potent Selective Carbonic Anhydrase IX and XII Inhibitors. Crystals, 2021, 11, 1076.	1.0	12
125	Novel triazole-sulfonamide bearing pyrimidine moieties with carbonic anhydrase inhibitory action: Design, synthesis, computational and enzyme inhibition studies. Bioorganic and Medicinal Chemistry Letters, 2021, 48, 128249.	1.0	20
126	Carbonic Anhydrase IV Selective Inhibitors Counteract the Development of Colitis-Associated Visceral Pain in Rats. Cells, 2021, 10, 2540.	1.8	3

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127	QM and QM/MM study on inhibition mechanism of polyphenolic compounds as non-classical inhibitors of Î±-human carbonic anhydrase (II). Theoretical Chemistry Accounts, 2021, 140, 1.	0.5	1
128	Deciphering the key heterocyclic scaffolds in targeting microtubules, kinases and carbonic anhydrases for cancer drug development. , 2021, 225, 107860.		36
129	Novel carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2021, 13, 1935-1937.	1.1	37
130	Novel benzenesulfonamides aryl and arylsulfone conjugates adopting tail/dual tail approaches: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. European Journal of Medicinal Chemistry, 2021, 221, 113486.	2.6	19
131	Bacterial carbonic anhydrases: underexploited antibacterial therapeutic targets. Future Medicinal Chemistry, 2021, 13, 1619-1622.	1.1	25
132	Investigation of 3-sulfamoyl coumarins against cancer-related IX and XII isoforms of human carbonic anhydrase as well as cancer cells leads to the discovery of 2-oxo-2H-benzo[h]chromene-3-sulfonamide â€“ A new caspase-activating proapoptotic agent. European Journal of Medicinal Chemistry, 2021, 222, 113589.	2.6	16
133	Exploring of tumor-associated carbonic anhydrase isoenzyme IX and XII inhibitory effects and cytotoxicities of the novel N-aryl-1-(4-sulfamoylphenyl)-5-(thiophen-2-yl)-1H-pyrazole-3-carboxamides. Bioorganic Chemistry, 2021, 115, 105194.	2.0	15
134	Natural inspired piperine-based sulfonamides and carboxylic acids as carbonic anhydrase inhibitors: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2021, 225, 113800.	2.6	18
135	Evaluating the efficiency of enzyme accelerated CO2 capture: chemical kinetics modelling for interpreting measurement results. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 394-401.	2.5	2
136	Selective inhibition of carbonic anhydrase IX and XII by coumarin and psoralen derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 685-692.	2.5	18
137	Inhibition of Î±-, Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae with aromatic sulphonamides and clinically licenced drugs â€“ a joint docking/molecular dynamics study. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 469-479.	2.5	14
138	Natural products in drug discovery: advances and opportunities. Nature Reviews Drug Discovery, 2021, 20, 200-216.	21.5	1,990
139	Activation of carbonic anhydrase isoforms involved in modulation of emotional memory and cognitive disorders with histamine agonists, antagonists and derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 719-726.	2.5	21
140	Protective effects of carbonic anhydrase inhibition in brain ischaemia in vitro and in vivo models. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 964-976.	2.5	10
141	An overview on the recently discovered iota-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1988-1995.	2.5	60
142	Reconsidering anion inhibitors in the general context of drug design studies of modulators of activity of the classical enzyme carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 561-580.	2.5	81
143	Inhibition of the Î²-carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 330-335.	2.5	4
144	Vanillin enones as selective inhibitors of the cancer associated carbonic anhydrase isoforms IX and XII. The out of the active site pocket for the design of selective inhibitors?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 2118-2127.	2.5	1

#	Article	IF	Citations
145	Development of Novel Quinoline-Based Sulfonamides as Selective Cancer-Associated Carbonic Anhydrase Isoform IX Inhibitors. International Journal of Molecular Sciences, 2021, 22, 11119.	1.8	14
146	Selective Inhibition of Helicobacter pylori Carbonic Anhydrases by Carvacrol and Thymol Could Impair Biofilm Production and the Release of Outer Membrane Vesicles. International Journal of Molecular Sciences, 2021, 22, 11583.	1.8	35
147	Carbonic Anhydrase Inhibition with Sulfonamides Incorporating Pyrazole- and Pyridazinecarboxamide Moieties Provides Examples of Isoform-Selective Inhibitors. Molecules, 2021, 26, 7023.	1.7	9
148	Inhibitory Effects of Sulfonamide Derivatives on the Î²-Carbonic Anhydrase (MpaCA) from Malassezia pachydermatis, a Commensal, Pathogenic Fungus Present in Domestic Animals. International Journal of Molecular Sciences, 2021, 22, 12601.	1.8	3
149	Glyco-Coated CdSe/ZnS Quantum Dots as Nanoprobes for Carbonic Anhydrase IX Imaging in Cancer Cells. ACS Applied Nano Materials, 2021, 4, 14153-14160.	2.4	11
150	Synthesis and Applications of Organic Selenols. Advanced Synthesis and Catalysis, 2021, 363, 5360-5385.	2.1	27
151	Microbiota, Bacterial Carbonic Anhydrases, and Modulators of Their Activity: Links to Human Diseases?. Mediators of Inflammation, 2021, 2021, 1-13.	1.4	15
152	Beta-Carbonic Anhydrase 1 from Trichomonas Vaginalis as New Antiprotozoan Drug Target. Topics in Medicinal Chemistry, 2021, , 1.	0.4	0
153	Î-Class Carbonic Anhydrases as Antiplasmodial Drug Targets: Current State of the Art and Hurdles to Develop New Antimalarials. Topics in Medicinal Chemistry, 2021, , 1.	0.4	0
154	Targeting Carbonic Anhydrases from Trypanosoma cruzi and Leishmania spp. as a Therapeutic Strategy to Obtain New Antiprotozoal Drugs. Topics in Medicinal Chemistry, 2021, , 1.	0.4	1
155	Amine- and Amino Acid-Based Compounds as Carbonic Anhydrase Activators. Molecules, 2021, 26, 7331.	1.7	9
156	Carbonic anhydrase inhibitors: an update on experimental agents for the treatment and imaging of hypoxic tumors. Expert Opinion on Investigational Drugs, 2021, 30, 1197-1208.	1.9	61
157	Challenges and Promises for Obtaining New Antiprotozoal Drugs: Whatâ€™s Going Wrong?. Topics in Medicinal Chemistry, 2021, , 321-329.	0.4	3
158	A structure-based approach towards the identification of novel antichagasic compounds: Trypanosoma cruzi carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 21-30.	2.5	13
159	Design, synthesis, inÂvitro inhibition and toxicological evaluation of human carbonic anhydrases I, II and IX inhibitors in 5-nitroimidazole series. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 109-117.	2.5	20
160	Phosphonamidates are the first phosphorus-based zinc binding motif to show inhibition of Î²-class carbonic anhydrases from bacteria, fungi, and protozoa. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 59-64.	2.5	11
161	Direct and straightforward access to substituted alkyl selenols as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111811.	2.6	28
162	Synthesis, biological and molecular dynamics investigations with a series of triazolopyrimidine/triazole-based benzenesulfonamides as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111843.	2.6	38

#	Article	IF	Citations
163	Bioisosteric Development of Multitarget Nonsteroidal Anti-Inflammatory Drugâ€“Carbonic Anhydrases Inhibitor Hybrids for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2020, 63, 2325-2342.	2.9	26
164	Why hasnâ€™t there been more progress in new Chagas disease drug discovery?. Expert Opinion on Drug Discovery, 2020, 15, 145-158.	2.5	44
165	Inhibition survey with phenolic compounds against the Î´- and Î¸-class carbonic anhydrases from the marine diatom thalassiosira weissflogii and protozoan Plasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 377-382.	2.5	8
166	Synthesis and human carbonic anhydrase I, II, VA, and XII inhibition with novel amino acidâ€“sulphonamide conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 489-497.	2.5	6
167	Synthesis and selective inhibitory effects of some 2-oxindole benzenesulfonamide conjugates on human carbonic anhydrase isoforms CA I, CA II, CA IX and CAXII. Bioorganic Chemistry, 2020, 95, 103514.	2.0	16
168	Benzimidazole derivatives as potent and isoform selective tumor-associated carbonic anhydrase IX/XII inhibitors. Bioorganic Chemistry, 2020, 95, 103544.	2.0	13
169	Pyrrolo and pyrrolopyrimidine sulfonamides act as cytotoxic agents in hypoxia via inhibition of transmembrane carbonic anhydrases. European Journal of Medicinal Chemistry, 2020, 188, 112021.	2.6	23
170	In vitro inhibition of Mycobacterium tuberculosis Î²-carbonic anhydrase 3 with Mono- and dithiocarbamates and evaluation of their toxicity using zebrafish developing embryos. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 65-71.	2.5	14
171	Carbonic anhydrase IX as a novel candidate in liquid biopsy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 255-260.	2.5	21
172	Novel benzofuran-based sulphonamides as selective carbonic anhydrases IX and XII inhibitors: synthesis and inÂvitro biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 298-305.	2.5	16
173	Design, synthesis and molecular modelling studies of some pyrazole derivatives as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 289-297.	2.5	38
174	Novel sulphonamides incorporating triazene moieties show powerful carbonic anhydrase I and II inhibitory properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 325-329.	2.5	24
175	Aryl derivatives of 3H-1,2-benzoxathiepine 2,2-dioxide as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 245-254.	2.5	15
176	Plasmatic exosomes from prostate cancer patients show increased carbonic anhydrase IX expression and activity and low pH. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 280-288.	2.5	47
177	Benzothiazole derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 265-279.	2.5	140
178	Sulfonamide/sulfamate switch with a series of piperazinylureido derivatives: Synthesis, kinetic and in silico evaluation as carbonic anhydrase isoforms I, II, IV, and IX inhibitors. European Journal of Medicinal Chemistry, 2020, 186, 111896.	2.6	15
179	Effects of New NSAID-CAI Hybrid Compounds in Inflammation and Lung Fibrosis. Biomolecules, 2020, 10, 1307.	1.8	11
180	Synthesis and biological evaluation of some coumarin hybrids as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2020, 104, 104272.	2.0	26

#	Article	IF	Citations
181	3-Methylthiazolo[3,2-a]benzimidazole-benzenesulfonamide conjugates as novel carbonic anhydrase inhibitors endowed with anticancer activity: Design, synthesis, biological and molecular modeling studies. European Journal of Medicinal Chemistry, 2020, 207, 112745.	2.6	45
182	Structural Basis of Nanomolar Inhibition of Tumor-Associated Carbonic Anhydrase IX: X-Ray Crystallographic and Inhibition Study of Lipophilic Inhibitors with Acetazolamide Backbone. Journal of Medicinal Chemistry, 2020, 63, 13064-13075.	2.9	26
183	Inhibition of the newly discovered Î²â€carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with inorganic anions and small molecules. Journal of Inorganic Biochemistry, 2020, 213, 111274.	1.5	10
184	Sulphonamide inhibition profile of Staphylococcus aureus Î²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1834-1839.	2.5	15
185	Novel insights on saccharin- and acesulfame-based carbonic anhydrase inhibitors: design, synthesis, modelling investigations and biological activity evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1891-1905.	2.5	14
186	Progress in the development of human carbonic anhydraseÂinhibitors and their pharmacological applications: Where are we today?. Medicinal Research Reviews, 2020, 40, 2485-2565.	5.0	154
187	Activation studies of the Î²-carbonic anhydrases from Escherichia coli with amino acids and amines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1379-1386.	2.5	10
188	Chagas Disease: Perspectives on the Past and Present and Challenges in Drug Discovery. Molecules, 2020, 25, 5483.	1.7	28
189	Nontargeted Identification of Plasma Proteins O-, N-, and S-Transmethylated by O-Methyl Organophosphates. Analytical Chemistry, 2020, 92, 15420-15428.	3.2	7
190	Inhibitory activity against carbonic anhydrase IX and XII as a candidate selection criterion in the development of new anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1555-1561.	2.5	25
191	Synthesis, Computational Studies and Assessment of in Vitro Activity of Squalene Derivatives as Carbonic Anhydrase Inhibitors. ChemMedChem, 2020, 15, 2052-2057.	1.6	4
192	Coumarin carbonic anhydrase inhibitors from natural sources. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1462-1470.	2.5	56
193	A measurement system for the evaluation of efficiency of enzyme accelerated CO2 capture systems based on modeling. , 2020, , .		1
194	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. Metabolites, 2020, 10, 412.	1.3	116
195	In Silico-Guided Identification of New Potent Inhibitors of Carbonic Anhydrases Expressed in Vibrio cholerae. ACS Medicinal Chemistry Letters, 2020, 11, 2294-2299.	1.3	8
196	Catechols: a new class of carbonic anhydrase inhibitors. Chemical Communications, 2020, 56, 13033-13036.	2.2	20
197	BenzylaminoethylureidoâEtailed Benzenesulfonamides Show Potent Inhibitory Activity against Bacterial Carbonic Anhydrases. ChemMedChem, 2020, 15, 2444-2447.	1.6	7
198	Toxicity evaluation of sulfamides and coumarins that efficiently inhibit human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1765-1772.	2.5	10

#	Article	IF	Citations
199	Escherichia coli Î³-carbonic anhydrase: characterisation and effects of simple aromatic/heterocyclic sulphonamide inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1545-1554.	2.5	25
200	Benzoxaboroles: New Potent Inhibitors of the Carbonic Anhydrases of the Pathogenic Bacterium Vibrio cholerae. ACS Medicinal Chemistry Letters, 2020, 11, 2277-2284.	1.3	25
201	Antibacterial carbonic anhydrase inhibitors: an update on the recent literature. Expert Opinion on Therapeutic Patents, 2020, 30, 963-982.	2.4	66
202	Carbonic Anhydrases: Versatile and Useful Biocatalysts in Chemistry and Biochemistry. Catalysts, 2020, 10, 1008.	1.6	38
203	Bacterial Î¹-carbonic anhydrase: a new active class of carbonic anhydrase identified in the genome of the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1060-1068.	2.5	76
204	Use of an immobilised thermostable Î±-CA (SspCA) for enhancing the metabolic efficiency of the freshwater green microalga Chlorella sorokiniana. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 913-920.	2.5	11
205	Novel Indole-Based Hydrazones as Potent Inhibitors of the Î±-class Carbonic Anhydrase from Pathogenic Bacterium Vibrio cholerae. International Journal of Molecular Sciences, 2020, 21, 3131.	1.8	3
206	The Carbonic Anhydrase IX inhibitor SLC-0111 as emerging agent against the mesenchymal stem cell-derived pro-survival effects on melanoma cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1185-1193.	2.5	23
207	Effect of Carbonic Anhydrase IX inhibitors on human endothelial cell survival. Pharmacological Research, 2020, 159, 104964.	3.1	9
208	Synthesis of calix[4]azacrown substituted sulphonamides with antioxidant, acetylcholinesterase, butyrylcholinesterase, tyrosinase and carbonic anhydrase inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1215-1223.	2.5	23
209	Development of oxathiino[6,5-b]pyridine 2,2-dioxide derivatives as selective inhibitors of tumor-related carbonic anhydrases IX and XII. European Journal of Medicinal Chemistry, 2020, 200, 112300.	2.6	18
210	Iodoquinazolinones bearing benzenesulfonamide as human carbonic anhydrase I, II, IX and XII inhibitors: Synthesis, biological evaluation and radiosensitizing activity. European Journal of Medicinal Chemistry, 2020, 200, 112449.	2.6	11
211	Synthesis and carbonic anhydrase activating properties of a series of 2-amino-imidazolines structurally related to clonidine¹. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1003-1010.	2.5	6
212	Carbonic anhydrase modulation of emotional memory. Implications for the treatment of cognitive disorders. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1206-1214.	2.5	46
213	Crystal Structure of a Tetrameric Type II Î²-Carbonic Anhydrase from the Pathogenic Bacterium Burkholderia pseudomallei. Molecules, 2020, 25, 2269.	1.7	10
214	Sulfonamide Inhibitors of Human Carbonic Anhydrases Designed through a Three-Tails Approach: Improving Ligand/Isoform Matching and Selectivity of Action. Journal of Medicinal Chemistry, 2020, 63, 7422-7444.	2.9	75
215	The Effect of Substituted Benzene-Sulfonamides and Clinically Licensed Drugs on the Catalytic Activity of CynT2, a Carbonic Anhydrase Crucial for Escherichia coli Life Cycle. International Journal of Molecular Sciences, 2020, 21, 4175.	1.8	18
216	The role of carbonic anhydrases in extinction of contextual fear memory. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16000-16008.	3.3	33

#	Article	IF	Citations
217	New coumarin/sulfocoumarin linked phenylacrylamides as selective transmembrane carbonic anhydrase inhibitors: Synthesis and in-vitro biological evaluation. Bioorganic and Medicinal Chemistry, 2020, 28, 115586.	1.4	14
218	Synthetic Strategies and Computational Inhibition Activity Study for Triazinyl-Substituted Benzenesulfonamide Conjugates with Polar and Hydrophobic Amino Acids as Inhibitors of Carbonic Anhydrases. International Journal of Molecular Sciences, 2020, 21, 3661.	1.8	8
219	Carbonic anhydrase from extremophiles and their potential use in biotechnological applications. , 2020, , 295-306.		1
220	Biochemical and structural characterisation of a protozoan beta-carbonic anhydrase from Trichomonas vaginalis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1292-1299.	2.5	19
221	An update on drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 297-307.	1.5	32
222	Appliance of the piperidinyl-hydrazidoureido linker to benzenesulfonamide compounds: Synthesis, in vitro and in silico evaluation of potent carbonic anhydrase II, IX and XII inhibitors. Bioorganic Chemistry, 2020, 98, 103728.	2.0	15
223	Activation Effects of Carnosine- and Histidine-Containing Dipeptides on Human Carbonic Anhydrases: A Comprehensive Study. International Journal of Molecular Sciences, 2020, 21, 1761.	1.8	15
224	Anion Inhibition Studies of the Î²-Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete Sordaria macrospora. Metabolites, 2020, 10, 93.	1.3	6
225	Tail approach synthesis of novel benzenesulfonamides incorporating 1,3,4-oxadiazole hybrids as potent inhibitor of carbonic anhydrase I, II, IX, and XII isoenzymes. European Journal of Medicinal Chemistry, 2020, 193, 112219.	2.6	26
226	Design, synthesis and biological evaluation of coumarin linked 1,2,4-oxadiazoles as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2020, 98, 103739.	2.0	21
227	Sulfonamide Inhibition Studies of an Î±-Carbonic Anhydrase from Schistosoma mansoni, a Platyhelminth Parasite Responsible for Schistosomiasis. International Journal of Molecular Sciences, 2020, 21, 1842.	1.8	21
228	Exploring the multiple binding modes of inhibitors to carbonic anhydrases for novel drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 671-686.	2.5	94
229	Tellurides Bearing Sulfonamides as Novel Inhibitors of Leishmanial Carbonic Anhydrase with Potent Antileishmanial Activity. Journal of Medicinal Chemistry, 2020, 63, 4306-4314.	2.9	28
230	Looking toward the Rim of the Active Site Cavity of Druggable Human Carbonic Anhydrase Isoforms. ACS Medicinal Chemistry Letters, 2020, 11, 1000-1005.	1.3	6
231	Anion Inhibition Studies of the Beta-Carbonic Anhydrase from Escherichia coli. Molecules, 2020, 25, 2564.	1.7	17
232	Synthesis, computational studies and assessment of inÂvitro inhibitory activity of umbelliferon-based compounds against tumour-associated carbonic anhydrase isoforms IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1442-1449.	2.5	6
233	A Phase 1 Study of SLC-0111, a Novel Inhibitor of Carbonic Anhydrase IX, in Patients With Advanced Solid Tumors. American Journal of Clinical Oncology: Cancer Clinical Trials, 2020, 43, 484-490.	0.6	141
234	Structural and biochemical characterization of novel carbonic anhydrases fromPhaeodactylum tricornutum. Acta Crystallographica Section D: Structural Biology, 2020, 76, 676-686.	1.1	10

#	Article	IF	Citations
235	Perfluoroalkyl Substances of Significant Environmental Concern Can Strongly Inhibit Human Carbonic Anhydrase Isozymes. Analytical Chemistry, 2020, 92, 4614-4622.	3.2	28
236	7-Acylamino-3H-1,2-benzoxathiepine 2,2-dioxides as new isoform-selective carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 650-656.	2.5	14
237	New Dihydrothiazole Benzensulfonamides: Looking for Selectivity toward Carbonic Anhydrase Isoforms I, II, IX, and XII. ACS Medicinal Chemistry Letters, 2020, 11, 852-856.	1.3	6
238	Sulfonamide Inhibition Studies of the Î²-Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete Sordaria macrospora. Molecules, 2020, 25, 1036.	1.7	4
239	Bioorganometallic derivatives of 4-hydrazino-benzenesulphonamide as carbonic anhydrase inhibitors: synthesis, characterisation and biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 622-628.	2.5	9
240	1,3-Dipolar Cycloaddition, HPLC Enantioseparation, and Docking Studies of Saccharin/Isoxazole and Saccharin/Isoxazoline Derivatives as Selective Carbonic Anhydrase IX and XII Inhibitors. Journal of Medicinal Chemistry, 2020, 63, 2470-2488.	2.9	42
241	A class of carbonic anhydrase IX/XII â€“ selective carboxylate inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 549-554.	2.5	7
242	Evaluation of Thio- and Seleno-Acetamides Bearing Benzenesulfonamide as Inhibitor of Carbonic Anhydrases from Different Pathogenic Bacteria. International Journal of Molecular Sciences, 2020, 21, 598.	1.8	15
243	Coumarins fromMagydaris pastinaceaas inhibitors of the tumour-associated carbonic anhydrases IX and XII: isolation, biological studies and in silico evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 539-548.	2.5	23
244	Synthesis of some N-aroyl-2-oxindole benzenesulfonamide conjugates with carbonic anhydrase inhibitory activity. Bioorganic Chemistry, 2020, 96, 103635.	2.0	15
245	New thiopyrimidine-benzenesulfonamide conjugates as selective carbonic anhydrase II inhibitors: synthesis, in vitro biological evaluation, and molecular docking studies. Bioorganic and Medicinal Chemistry, 2020, 28, 115329.	1.4	18
246	Sulfonamide Inhibition Profile of the Î²-Carbonic Anhydrase from Malassezia restricta, An Opportunistic Pathogen Triggering Scalp Conditions. Metabolites, 2020, 10, 39.	1.3	18
247	Pharmacological Inhibition of CA-IX Impairs Tumor Cell Proliferation, Migration and Invasiveness. International Journal of Molecular Sciences, 2020, 21, 2983.	1.8	25
248	Benzylaminoethyureido-Tailed Benzenesulfonamides: Design, Synthesis, Kinetic and X-ray Investigations on Human Carbonic Anhydrases. International Journal of Molecular Sciences, 2020, 21, 2560.	1.8	17
249	Synthesis and carbonic anhydrase inhibition studies of sulfonamide based indole-1,2,3-triazole chalcone hybrids. Bioorganic Chemistry, 2020, 99, 103839.	2.0	34
250	1,2,4-Triazole-based anticonvulsant agents with additional ROS scavenging activity are effective in a model of pharmacoresistant epilepsy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 993-1002.	2.5	33
251	Aryl-4,5-dihydro-1H-pyrazole-1-carboxamide Derivatives Bearing a Sulfonamide Moiety Show Single-digit Nanomolar-to-Subnanomolar Inhibition Constants against the Tumor-associated Human Carbonic Anhydrases IX and XII. International Journal of Molecular Sciences, 2020, 21, 2621.	1.8	5
252	Dual P-Glycoprotein and CA XII Inhibitors: A New Strategy to Reverse the P-gp Mediated Multidrug Resistance (MDR) in Cancer Cells. Molecules, 2020, 25, 1748.	1.7	30

#	Article	IF	Citations
253	Development of Thiazolidinones as Fungal Carbonic Anhydrase Inhibitors. International Journal of Molecular Sciences, 2020, 21, 2960.	1.8	15
254	A deadly spillover: SARS-CoV-2 outbreak. Expert Opinion on Therapeutic Patents, 2020, 30, 481-485.	2.4	29
255	Activation studies of the Î²-carbonic anhydrases from Malassezia restricta with amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 824-830.	2.5	4
256	Benzoxepinones: A new isoform-selective class of tumor associated carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2020, 28, 115496.	1.4	25
257	Synthesis, characterisation, biological evaluation andin silicostudies of sulphonamide Schiff bases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 950-962.	2.5	70
258	Preparation, carbonic anhydrase enzyme inhibition and antioxidant activity of novel 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives incorporating mono or dipeptide moiety. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1021-1026.	2.5	6
259	The antibiotic furagin and its derivatives are isoform-selective human carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1011-1020.	2.5	27
260	Antibacterial activity of ethoxzolamide against Helicobacter pylori strains SS1 and 26695. Gut Pathogens, 2020, 12, 20.	1.6	29
261	Synthesis and Biological Evaluation of Imidazo[2,1-b]Thiazole based Sulfonyl Piperazines as Novel Carbonic Anhydrase II Inhibitors. Metabolites, 2020, 10, 136.	1.3	14
262	Drug Screening in Human Cells by NMR Spectroscopy Allows the Early Assessment of Drug Potency. Angewandte Chemie, 2020, 132, 6597-6601.	1.6	6
263	Drug Screening in Human Cells by NMR Spectroscopy Allows the Early Assessment of Drug Potency. Angewandte Chemie - International Edition, 2020, 59, 6535-6539.	7.2	44
264	Expanding the anticancer potential of 1,2,3-triazoles via simultaneously targeting Cyclooxygenase-2, 15-lipoxygenase and tumor-associated carbonic anhydrases. European Journal of Medicinal Chemistry, 2020, 200, 112439.	2.6	40
265	Experimental Carbonic Anhydrase Inhibitors for the Treatment of Hypoxic Tumors . Journal of Experimental Pharmacology, 2020, Volume 12, 603-617.	1.5	74
266	Phosphorus versus Sulfur: Discovery of Benzenephosphonamidates as Versatile Sulfonamideâ€Mimic Chemotypes Acting as Carbonic Anhydrase Inhibitors. Chemistry - A European Journal, 2019, 25, 1188-1192.	1.7	59
267	Design, synthesis and biological activity of selective hCAs inhibitors based on 2-(benzylsulfinyl)benzoic acid scaffold. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1400-1413.	2.5	24
268	Synthesis and biological evaluation of novel 3-(quinolin-4-ylamino)benzenesulfonamides as carbonic anhydrase isoforms I and II inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1457-1464.	2.5	24
269	Advances in the structural annotation of human carbonic anhydrases and impact on future drug discovery. Expert Opinion on Drug Discovery, 2019, 14, 1175-1197.	2.5	123
270	Carbonic anhydrase inhibitors as diuretics. , 2019, , 287-309.		0

#	Article	IF	Citations
271	Carbonic anhydrases from pathogens. , 2019, , 387-417.		2
272	Carbonic anhydrase activators and their potential in the pharmaceutical field. , 2019, , 477-492.		0
273	Mechanism of action of carbonic anhydrase inhibitors. , 2019, , 245-255.		1
274	Biotechnologic applications of carbonic anhydrases from extremophiles. , 2019, , 495-514.		0
275	New anthranilic acid-incorporating N-benzenesulfonamidophthalimides as potent inhibitors of carbonic anhydrases I, II, IX, and XII: Synthesis, inÂvitro testing, and in silico assessment. European Journal of Medicinal Chemistry, 2019, 181, 111573.	2.6	14
276	Structure-activity relationship with pyrazoline-based aromatic sulfamates as carbonic anhydrase isoforms I, II, IX and XII inhibitors: Synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2019, 182, 111638.	2.6	24
277	Sulfonamides incorporating piperazine bioisosteres as potent human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2019, 91, 103130.	2.0	12
278	Bis-benzoxaboroles: Design, Synthesis, and Biological Evaluation as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 1205-1210.	1.3	19
279	Synthesis and Evaluation of Carbonic Anhydrase Inhibitors with Carbon Monoxide Releasing Properties for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2019, 62, 7233-7249.	2.9	39
280	Anion Inhibition Profile of the Î²-Carbonic Anhydrase from the Opportunist Pathogenic Fungus Malassezia Restricta Involved in Dandruff and Seborrheic Dermatitis. Metabolites, 2019, 9, 147.	1.3	11
281	The first activation study of the Î²-carbonic anhydrases from the pathogenic bacteriaBrucella suisandFrancisella tularensiswith amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1178-1185.	2.5	7
282	A computer-assisted discovery of novel potential anti-obesity compounds as selective carbonic anhydrase VA inhibitors. European Journal of Medicinal Chemistry, 2019, 181, 111565.	2.6	23
283	Carbonic anhydrase inhibitors for the treatment of neuropathic pain and arthritis. , 2019, , 367-386.		2
284	Regulation of pH by Carbonic Anhydrase 9 Mediates Survival of Pancreatic Cancer Cells With Activated KRAS in Response to Hypoxia. Gastroenterology, 2019, 157, 823-837.	0.6	153
285	Î´-Carbonic anhydrases. , 2019, , 107-129.		1
286	Human carbonic anhydrases. , 2019, , 151-185.		17
287	Synthesis, biological evaluation and in silico studies with 4-benzylidene-2-phenyl-5(4H)-imidazolone-based benzenesulfonamides as novel selective carbonic anhydrase IX inhibitors endowed with anticancer activity. Bioorganic Chemistry, 2019, 90, 103102.	2.0	21
288	Mycobacterium tuberculosis Î²-Carbonic Anhydrases: Novel Targets for Developing Antituberculosis Drugs. International Journal of Molecular Sciences, 2019, 20, 5153.	1.8	28

#	Article	IF	Citations
289	Pseudomonas aeruginosa Î²-carbonic anhydrase, psCA1, is required for calcium deposition and contributes to virulence. Cell Calcium, 2019, 84, 102080.	1.1	26
290	Extending the Inhibition Profiles of Coumarin-Based Compounds Against Human Carbonic Anhydrases: Synthesis, Biological, and In Silico Evaluation. Molecules, 2019, 24, 3580.	1.7	6
291	Carbonic anhydrase inhibition and the management of glaucoma: a literature and patent review 2013-2019. Expert Opinion on Therapeutic Patents, 2019, 29, 781-792.	2.4	60
292	Extending the Î³-class carbonic anhydrases inhibition profiles with phenolic compounds. Bioorganic Chemistry, 2019, 93, 103336.	2.0	13
293	Carbonic anhydrases. , 2019, , 3-16.		13
294	Multivalent Carbonic Anhydrases Inhibitors. International Journal of Molecular Sciences, 2019, 20, 5352.	1.8	21
295	Seeking new approach for therapeutic treatment of cholera disease via inhibition of bacterial carbonic anhydrases: experimental and theoretical studies for sixteen benzenesulfonamide derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1186-1192.	2.5	9
296	Exploration of the residues modulating the catalytic features of human carbonic anhydrase XIII by a site-specific mutagenesis approach. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1506-1510.	2.5	7
297	Novel method of treating macular degeneration: a patent evaluation (WO2018/107005). Expert Opinion on Therapeutic Patents, 2019, 29, 749-752.	2.4	4
298	Crystal structure and chemical inhibition of essential schistosome host-interactive virulence factor carbonic anhydrase SmCA. Communications Biology, 2019, 2, 333.	2.0	30
299	Anti-Helicobacter pylori activity of ethoxzolamide. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1660-1667.	2.5	41
300	Power architectures for the integration of photovoltaic generation systems in DC-microgrids. Energy Procedia, 2019, 159, 34-41.	1.8	6
301	Design of a Hybrid Propulsion Architecture for Midsize Boats. Energy Procedia, 2019, 158, 2954-2959.	1.8	15
302	Continued exploration and tail approach synthesis of benzenesulfonamides containing triazole and dual triazole moieties as carbonic anhydrase I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2019, 183, 111698.	2.6	38
303	Exploring new structural features of the 4-[(3-methyl-4-aryl-2,3-dihydro-1,3-thiazol-2-ylidene)amino]benzenesulphonamide scaffold for the inhibition of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1526-1533.	2.5	9
304	Synthesis and exploration of 2-morpholino-4-phenylthiazol-5-yl acrylamide derivatives for their effects against carbonic anhydrase I, II, IX and XII isoforms as a non-sulfonamide class of inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 115090.	1.4	13
305	Synthesis of coumarin-sulfonamide derivatives and determination of their cytotoxicity, carbonic anhydrase inhibitory and molecular docking studies. European Journal of Medicinal Chemistry, 2019, 183, 111702.	2.6	59
306	The management of glaucoma and macular degeneration. Expert Opinion on Therapeutic Patents, 2019, 29, 745-747.	2.4	31

#	Article	IF	Citations
307	A New Kid on the Block? Carbonic Anhydrases as Possible New Targets in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2019, 20, 4724.	1.8	61
308	Activation of Î±-, Î²-, Î³- Î´-, Î¶- and Î·- class of carbonic anhydrases with amines and amino acids: a review. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1652-1659.	2.5	43
309	Î±-Carbonic anhydrases are strongly activated by spinaceamine derivatives. Bioorganic and Medicinal Chemistry, 2019, 27, 800-804.	1.4	23
310	Inhibition of acetylcholinesterase and butyrylcholinesterase with uracil derivatives: kinetic and computational studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 429-437.	2.5	76
311	Phaeodactylum tricornutum as a model organism for testing the membrane penetrability of sulphonamide carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 510-518.	2.5	17
312	Click-tailed benzenesulfonamides as potent bacterial carbonic anhydrase inhibitors for targeting Mycobacterium tuberculosis and Vibrio cholerae. Bioorganic Chemistry, 2019, 86, 183-186.	2.0	15
313	Novel approaches for designing drugs that interfere with pH regulation. Expert Opinion on Drug Discovery, 2019, 14, 231-248.	2.5	35
314	Discovery of new organoselenium compounds as antileishmanial agents. Bioorganic Chemistry, 2019, 86, 339-345.	2.0	39
315	Design, synthesis and biological evaluation of coumarin-3-carboxamides as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2019, 86, 386-392.	2.0	29
316	Benzenesulfonamides incorporating nitrogenous bases show effective inhibition of β-carbonic anhydrases from the pathogenic fungi Cryptococcus neoformans, Candida glabrata and Malassezia globosa. Bioorganic Chemistry, 2019, 86, 39-43.	2.0	8
317	Selenols: a new class of carbonic anhydrase inhibitors. Chemical Communications, 2019, 55, 648-651.	2.2	56
318	Novel Diamide-Based Benzenesulfonamides as Selective Carbonic Anhydrase IX Inhibitors Endowed with Antitumor Activity: Synthesis, Biological Evaluation and In Silico Insights. International Journal of Molecular Sciences, 2019, 20, 2484.	1.8	21
319	Appraisal of anti-protozoan activity of nitroaromatic benzenesulfonamides inhibiting carbonic anhydrases fromTrypanosoma cruziandLeishmania donovani. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1164-1171.	2.5	18
320	Synthesis and biological evaluation of novel 8-substituted quinoline-2-carboxamides as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1172-1177.	2.5	17
321	Synthesis of a new series of 3-functionalised-1-phenyl-1,2,3-triazole sulfamoylbenzamides as carbonic anhydrase I, II, IV and IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1199-1209.	2.5	16
322	Ring opening reactions of heterocycles with selenium and tellurium nucleophiles. New Journal of Chemistry, 2019, 43, 11451-11468.	1.4	37
323	Activation of human α-carbonic anhydrase isoforms I, II, IV and VII with bis-histamine schiff bases and bis-spinaceamine substituted derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1193-1198.	2.5	22
324	New phenolic Mannich bases with piperazines and their bioactivities. Bioorganic Chemistry, 2019, 90, 103057.	2.0	45

#	Article	IF	Citations
325	Leishmania infantum arginase: biochemical characterization and inhibition by naturally occurring phenolic substances. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1100-1109.	2.5	28
326	Cloning, Purification, and Characterization of a Î²-Carbonic Anhydrase from Malassezia restricta, an Opportunistic Pathogen Involved in Dandruff and Seborrheic Dermatitis. International Journal of Molecular Sciences, 2019, 20, 2447.	1.8	22
327	Syntesis of thio- and seleno-acetamides bearing benzenesulfonamide as potent inhibitors of human carbonic anhydrase II and XII. Bioorganic Chemistry, 2019, 89, 102984.	2.0	14
328	Indole-Based Hydrazones Containing A Sulfonamide Moiety as Selective Inhibitors of Tumor-Associated Human Carbonic Anhydrase Isoforms IX and XII. International Journal of Molecular Sciences, 2019, 20, 2354.	1.8	22
329	A non-catalytic function of carbonic anhydrase IX contributes to the glycolytic phenotype and pH regulation in human breast cancer cells. Biochemical Journal, 2019, 476, 1497-1513.	1.7	26
330	Fibrate-basedN-acylsulphonamides targeting carbonic anhydrases: synthesis, biochemical evaluation, and docking studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1051-1061.	2.5	13
331	Pain Relieving Effect of-NSAIDs-CAIs Hybrid Molecules: Systemic and Intra-Articular Treatments against Rheumatoid Arthritis. International Journal of Molecular Sciences, 2019, 20, 1923.	1.8	25
332	Extrinsic acidosis suppresses glycolysis and migration while increasing network formation in pulmonary microvascular endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L188-L201.	1.3	15
333	Thermostability enhancement of the Î±-carbonic anhydrase fromSulfurihydrogenibium yellowstonenseby using the anchoring-and-self-labelling-protein-tagsystem (ASL^{tag}). Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 946-954.	2.5	10
334	Direct biocatalysed synthesis of first sulfur-, selenium- and tellurium- containing <scp>l</scp>-ascorbyl hybrid derivatives with radical trapping and GPx-like properties. Chemical Communications, 2019, 55, 5705-5708.	2.2	47
335	Activation Studies of the Î³-Carbonic Anhydrases from the Antarctic Marine Bacteria Pseudoalteromonas haloplanktis and Colwellia psychrerythraea with Amino Acids and Amines. Marine Drugs, 2019, 17, 238.	2.2	9
336	Carbonic Anhydrase Inhibitorâ€"NO Donor Hybrids and Their Pharmacological Applications. , 2019, , 229-242.		6
337	Synthesis of benzensulfonamides linked to quinazoline scaffolds as novel carbonic anhydrase inhibitors. Bioorganic Chemistry, 2019, 87, 78-90.	2.0	36
338	Synthesis, biological activity and multiscale molecular modeling studies of bis-coumarins as selective carbonic anhydrase IX and XII inhibitors with effective cytotoxicity against hepatocellular carcinoma. Bioorganic Chemistry, 2019, 87, 838-850.	2.0	49
339	Comparison of the Sulfonamide Inhibition Profiles of the Î±-Carbonic Anhydrase Isoforms (SpiCA1,) Tj ETQq1 1 0.784314 rgBT /Overlock Drugs, 2019, 17, 146.	2.2	5
340	Novel 2-indolinones containing a sulfonamide moiety as selective inhibitors of candida Î²-carbonic anhydrase enzyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 528-531.	2.5	13
341	Novel 8-Substituted Coumarins That Selectively Inhibit Human Carbonic Anhydrase IX and XII. International Journal of Molecular Sciences, 2019, 20, 1208.	1.8	23
342	Selenoâ€Michael Reaction of Stable Functionalised Alkyl Selenols: A Versatile Tool for the Synthesis of Acyclic and Cyclic Unsymmetrical Alkyl and Vinyl Selenides. Advanced Synthesis and Catalysis, 2019, 361, 2337-2346.	2.1	32

#	Article	IF	Citations
343	Sulfur, selenium and tellurium containing amines act as effective carbonic anhydrase activators. Bioorganic Chemistry, 2019, 87, 516-522.	2.0	40
344	Novel synthesized SLC-0111 thiazole and thiadiazole analogues: Determination of their carbonic anhydrase inhibitory activity and molecular modeling studies. Bioorganic Chemistry, 2019, 87, 794-802.	2.0	46
345	Synthesis and biological evaluation of coumarin-1,3,4-oxadiazole hybrids as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2019, 87, 765-772.	2.0	38
346	The Possible Role of Helicobacter pylori in Gastric Cancer and Its Management. Frontiers in Oncology, 2019, 9, 75.	1.3	64
347	Activation Studies of the Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica with Amino Acids and Amines. Metabolites, 2019, 9, 26.	1.3	9
348	An AGT-based protein-tag system for the labelling and surface immobilization of enzymes on E. coli outer membrane. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 490-499.	2.5	14
349	Pyridazinone-substituted benzenesulfonamides display potent inhibition of membrane-bound human carbonic anhydrase IX and promising antiproliferative activity against cancer cell lines. European Journal of Medicinal Chemistry, 2019, 168, 301-314.	2.6	24
350	Discovery of new ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as carbonic anhydrase I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 1588-1594.	1.4	47
351	Inhibition of Î±-, Î²-, Î³-, Î´-, Î¶- and Î¸-class carbonic anhydrases from bacteria, fungi, algae, diatoms and protozoans with famotidine. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 644-650.	2.5	40
352	Continued exploration of 1,2,4-oxadiazole periphery for carbonic anhydrase-targeting primary arene sulfonamides: Discovery of subnanomolar inhibitors of membrane-bound hCA IX isoform that selectively kill cancer cells in hypoxic environment. European Journal of Medicinal Chemistry, 2019, 164, 92-105.	2.6	52
353	Inhibition of bacterial Î±-, Î²- and Î³-class carbonic anhydrases with selenazoles incorporating benzenesulfonamide moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 244-249.	2.5	17
354	Comparison of blood carbonic anhydrase activity of athletes performing interval and continuous running exercise at high altitude. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 218-223.	2.5	7
355	Synthesis carbonic anhydrase enzyme inhibition and antioxidant activity of novel benzothiazole derivatives incorporating glycine, methionine, alanine, and phenylalanine moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 343-349.	2.5	20
356	SLC-0111 enaminone analogs, 3/4-(3-aryl-3-oxopropenyl) aminobenzenesulfonamides, as novel selective subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform IX. Bioorganic Chemistry, 2019, 83, 549-558.	2.0	53
357	Synthesis and anti-inflammatory activity of sulfonamides and carboxylates incorporating trimellitimides: Dual cyclooxygenase/carbonic anhydrase inhibitory actions. Bioorganic Chemistry, 2019, 84, 260-268.	2.0	56
358	Identification and characterization of the Î±-CA in the outer membrane vesicles produced byHelicobacter pylori. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 189-195.	2.5	38
359	Synthesis of novel benzenesulfonamide bearing 1,2,3-triazole linked hydroxy-trifluoromethylpyrazolines and hydrazones as selective carbonic anhydrase isoforms IX and XII inhibitors. Bioorganic Chemistry, 2019, 85, 198-208.	2.0	36
360	Prostate cancer cells and exosomes in acidic condition show increased carbonic anhydrase IX expression and activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 272-278.	2.5	59

#	Article	IF	Citations
361	(Hetero)aryl substituted thiazol-2,4-yl scaffold as human carbonic anhydrase I, II, VII and XIV activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 224-229.	2.5	8
362	Nanoscale Ion Emitters in Native Mass Spectrometry for Measuring Ligandâ€"Protein Binding Affinities. ACS Central Science, 2019, 5, 308-318.	5.3	84
363	New sulfonamides containing organometallic-acylhydrazones: synthesis, characterisation and biological evaluation as inhibitors of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 451-458.	2.5	11
364	4-Substituted benzenesulfonamides featuring cyclic imides moieties exhibit potent and isoform-selective carbonic anhydrase II/IX inhibition. Bioorganic Chemistry, 2019, 83, 198-204.	2.0	23
365	The carbonic anhydrase IX inhibitor SLC-0111 sensitises cancer cells to conventional chemotherapy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 117-123.	2.5	74
366	Synthesis and carbonic anhydrase inhibitory properties of novel 4-(2-aminoethyl)benzenesulfonamide-dipeptide conjugates. Bioorganic Chemistry, 2019, 83, 414-423.	2.0	24
367	Enhancement of the tail hydrophobic interactions within the carbonic anhydrase IX active site via structural extension: Design and synthesis of novel N-substituted isatins-SLC-0111 hybrids as carbonic anhydrase inhibitors and antitumor agents. European Journal of Medicinal Chemistry, 2019, 162, 147-160.	2.6	81
368	Exploring structural properties of potent human carbonic anhydrase inhibitors bearing a 4-(cycloalkylamino-1-carbonyl)benzenesulfonamide moiety. European Journal of Medicinal Chemistry, 2019, 163, 443-452.	2.6	31
369	N-Nitrosulfonamides as Carbonic Anhydrase Inhibitors: A Promising Chemotype for Targeting Chagas Disease and Leishmaniasis. ACS Medicinal Chemistry Letters, 2019, 10, 413-418.	1.3	21
370	3-Aminobenzenesulfonamides incorporating acylthiourea moieties selectively inhibit the tumor-associated carbonic anhydrase isoform IX over the off-target isoforms I, II and IV. Bioorganic Chemistry, 2019, 82, 123-128.	2.0	8
371	1,2,4-Trisubstituted imidazolinones with dual carbonic anhydrase and p38 mitogen-activated protein kinase inhibitory activity. Bioorganic Chemistry, 2019, 82, 109-116.	2.0	13
372	Design, synthesis and biological evaluation of novel ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as potent carbonic anhydrase IX inhibitors. Bioorganic Chemistry, 2019, 82, 117-122.	2.0	44
373	Investigation of inhibitory properties of some hydrazone compounds on hCA I, hCA II and AChE enzymes. Bioorganic Chemistry, 2019, 86, 316-321.	2.0	117
374	Exploring benzoxaborole derivatives as carbonic anhydrase inhibitors: a structural and computational analysis reveals their conformational variability as a tool to increase enzyme selectivity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1498-1505.	2.5	7
375	Are Carbonic Anhydrases Suitable Targets to Fight Protozoan Parasitic Diseases?. Current Medicinal Chemistry, 2019, 25, 5266-5278.	1.2	25
376	State of the Art on Carbonic Anhydrase Modulators for Biomedical Purposes. Current Medicinal Chemistry, 2019, 26, 2558-2573.	1.2	14
377	Carbon- versus sulphur-based zinc binding groups for carbonic anhydrase inhibitors?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 485-495.	2.5	103
378	Carbonic anhydrase activators. Future Medicinal Chemistry, 2018, 10, 561-573.	1.1	127

#	Article	IF	Citations
379	Synthesis of Nâ€²-phenyl-N-hydroxyureas and investigation of their inhibitory activities on human carbonic anhydrases. Bioorganic Chemistry, 2018, 78, 1-6.	2.0	9
380	Synthesis and biological evaluation of novel pyrazoline-based aromatic sulfamates with potent carbonic anhydrase isoforms II, IV and IX inhibitory efficacy. Bioorganic Chemistry, 2018, 77, 633-639.	2.0	25
381	Activation studies of the Î±- and Î²-carbonic anhydrases from the pathogenic bacteriumVibrio choleraewith amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 227-233.	2.5	19
382	pH regulators to target the tumor immune microenvironment in human hepatocellular carcinoma. OncoImmunology, 2018, 7, e1445452.	2.1	54
383	Synthesis and Biological Evaluation of 4â€Sulfamoylphenyl/Sulfocoumarin Carboxamides as Selective Inhibitors of Carbonic Anhydrase Isoforms hCAâ€…II, IX, and XII. ChemMedChem, 2018, 13, 1165-1171.	1.6	14
384	Evaluation of 99mTc-sulfonamide and sulfocoumarin derivatives for imaging carbonic anhydrase IX expression. Journal of Inorganic Biochemistry, 2018, 185, 63-70.	1.5	21
385	Activation studies with amines and amino acids of the Î²-carbonic anhydrase from the pathogenic protozoan Leishmania donovani chagasi. Bioorganic Chemistry, 2018, 78, 406-410.	2.0	18
386	Deciphering the Mechanism of Human Carbonic Anhydrases Inhibition with Sulfocoumarins: Computational and Experimental Studies. Chemistry - A European Journal, 2018, 24, 7840-7844.	1.7	62
387	Natural Polyphenols Selectively Inhibit Î²â€Carbonic Anhydrase from the Dandruffâ€Producing Fungus Malassezia globosa: Activity and Modeling Studies. ChemMedChem, 2018, 13, 816-823.	1.6	32
388	2-Benzylpiperazine: A new scaffold for potent human carbonic anhydrase inhibitors. Synthesis, enzyme inhibition, enantioselectivity, computational and crystallographic studies and inÂvivo activity for a new class of intraocular pressure lowering agents. European Journal of Medicinal Chemistry, 2018, 151, 363-375.	2.6	29
389	Design, Synthesis, and X-ray of Selenides as New Class of Agents for Prevention of Diabetic Cerebrovascular Pathology. ACS Medicinal Chemistry Letters, 2018, 9, 462-467.	1.3	20
390	Inhibition of carbonic anhydrase IX targets primary tumors, metastases, and cancer stem cells: Three for the price of one. Medicinal Research Reviews, 2018, 38, 1799-1836.	5.0	207
391	Dual-tail arylsulfone-based benzenesulfonamides differently match the hydrophobic and hydrophilic halves of human carbonic anhydrases active sites: Selective inhibitors for the tumor-associated hCA IX isoform. European Journal of Medicinal Chemistry, 2018, 152, 1-9.	2.6	60
392	Design and synthesis of novel 1,3-diaryltriazene-substituted sulfonamides as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 542-547.	2.0	50
393	Anion inhibition studies of a beta carbonic anhydrase from the malaria mosquitoAnopheles gambiae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 359-363.	2.5	8
394	Discovery of thiazolin-4-one-based aromatic sulfamates as a new class of carbonic anhydrase isoforms I, II, IV, and IX inhibitors. Bioorganic Chemistry, 2018, 77, 293-299.	2.0	27
395	Synthesis, biological evaluation and computational studies of novel iminothiazolidinone benzenesulfonamides as potent carbonic anhydrase II and IX inhibitors. Bioorganic Chemistry, 2018, 77, 381-386.	2.0	27
396	A Remarkable Influence of a Trifluoromethyl Group on the Reactions of Î²â€Mercaptoalcohols with Fluorinated Î±â€Bromoenones. European Journal of Organic Chemistry, 2018, 2018, 3716-3723.	1.2	24

#	Article	IF	Citations
397	Sulfonamide inhibition studies of two Î²-carbonic anhydrases from the ascomycete fungusSordaria macrospora,CAS1 and CAS2. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 390-396.	2.5	10
398	New anticancer drug candidates sulfonamides as selective hCA IX or hCA XII inhibitors. Bioorganic Chemistry, 2018, 77, 411-419.	2.0	99
399	Synthesis and biological evaluation of novel N,Nâ€²-diaryl cyanoguanidines acting as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 245-251.	2.0	34
400	Crystal Structure of Carbonic Anhydrase II in Complex with an Activating Ligand: Implications in Neuronal Function. Molecular Neurobiology, 2018, 55, 7431-7437.	1.9	26
401	Protonography and anion inhibition profile of the Î±-carbonic anhydrase (CruCA4) identified in the Mediterranean red coral Corallium rubrum. Bioorganic Chemistry, 2018, 76, 281-287.	2.0	13
402	Investigation of piperazines as human carbonic anhydrase I, II, IV and VII activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 303-308.	2.5	7
403	Carbonic anhydrases fromTrypanosoma cruziandLeishmania donovani chagasiare inhibited by benzoxaboroles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 286-289.	2.5	50
404	Supercharging protein ions in native mass spectrometry using theta capillary nanoelectrospray ionization mass spectrometry and cyclic alkylcarbonates. Analytica Chimica Acta, 2018, 1003, 1-9.	2.6	20
405	Plasmatic carbonic anhydrase IX as a diagnostic marker for clear cell renal cell carcinoma. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 234-240.	2.5	17
406	Inhibition studies ofBrucella suisÎ²-carbonic anhydrases with a series of 4-substituted pyridine-3-sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 255-259.	2.5	9
407	Structural investigations on coumarins leading to chromeno[4,3-c]pyrazol-4-ones and pyrano[4,3-c]pyrazol-4-ones: New scaffolds for the design of the tumor-associated carbonic anhydrase isoforms IX and XII. European Journal of Medicinal Chemistry, 2018, 146, 47-59.	2.6	45
408	Activation studies with amines and amino acids of the Î²-carbonic anhydrase encoded by theRv3273gene from the pathogenic bacteriumMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 364-369.	2.5	16
409	The Î³-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae is potently activated by amines and amino acids. Bioorganic Chemistry, 2018, 77, 1-5.	2.0	19
410	The first activation study of a Î´-carbonic anhydrase: TweCAÎ´ from the diatomThalassiosira weissflogiiis effectively activated by amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 680-685.	2.5	18
411	Fluoroenesulphonamides:N-sulphonylurea isosteres showing nanomolar selective cancer-related transmembrane human carbonic anhydrase inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 804-808.	2.5	10
412	Benzoxaborole compounds for therapeutic uses: a patent review (2010- 2018). Expert Opinion on Therapeutic Patents, 2018, 28, 493-504.	2.4	86
413	Antileishmanial activity of sulphonamide nanoemulsions targeting theÎ²-carbonic anhydrase fromLeishmaniaspecies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 850-857.	2.5	38
414	Anticancer effects of new dibenzenesulfonamides by inducing apoptosis and autophagy pathways and their carbonic anhydrase inhibitory effects on hCA I, hCA II, hCA IX, hCA XII isoenzymes. Bioorganic Chemistry, 2018, 78, 290-297.	2.0	44

#	Article	IF	Citations
415	Inhibition studies on a panel of human carbonic anhydrases withN1-substituted secondary sulfonamides incorporating thiazolinone or imidazolone-indole tails. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 629-638.	2.5	37
416	Mono- and di-thiocarbamate inhibition studies of the Î´-carbonic anhydrase TweCAÎ´ from the marine diatomThalassiosira weissflogii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 707-713.	2.5	17
417	Discovery of Benzenesulfonamide Derivatives as Carbonic Anhydrase Inhibitors with Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Evaluation. Journal of Medicinal Chemistry, 2018, 61, 3151-3165.	2.9	27
418	Synthesis of novel 4-functionalized 1,5-diaryl-1,2,3-triazoles containing benzenesulfonamide moiety as carbonic anhydrase I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2018, 150, 678-686.	2.6	41
419	Sulfonamide carbonic anhydrase inhibitors: Zinc coordination and tail effects influence inhibitory efficacy and selectivity for different isoforms. Inorganica Chimica Acta, 2018, 470, 128-132.	1.2	11
420	Heterocyclic periphery in the design of carbonic anhydrase inhibitors: 1,2,4-Oxadiazol-5-yl benzenesulfonamides as potent and selective inhibitors of cytosolic hCA II and membrane-bound hCA IX isoforms. Bioorganic Chemistry, 2018, 76, 88-97.	2.0	44
421	Novel carbonic anhydrase IXâ€targeted therapy enhances the antiâ€tumour effects of cisplatin in small cell lung cancer. International Journal of Cancer, 2018, 142, 191-201.	2.3	28
422	Unprotected primary sulfonamide group facilitates ring-forming cascade en route to polycyclic [1,4]oxazepine-based carbonic anhydrase inhibitors. Bioorganic Chemistry, 2018, 76, 140-146.	2.0	17
423	Inhibitory effects and structural insights for a novel series of coumarin-based compounds that selectively target human CA IX and CA XII carbonic anhydrases. European Journal of Medicinal Chemistry, 2018, 143, 276-282.	2.6	58
424	Nanoemulsions of sulfonamide carbonic anhydrase inhibitors strongly inhibit the growth of Trypanosoma cruzi. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 139-146.	2.5	52
425	Crystal structure of the human carbonic anhydrase II adduct with 1-(4-sulfamoylphenyl-ethyl)-2,4,6-triphenylpyridinium perchlorate, a membrane-impermeant, isoform selective inhibitor. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 151-157.	2.5	26
426	First evaluation of organotellurium derivatives as carbonic anhydrase I, II, IV, VII and IX inhibitors. Bioorganic Chemistry, 2018, 76, 268-272.	2.0	41
427	Sulphonamide inhibition studies of the Î²-carbonic anhydrase from the bacterial pathogenClostridium perfringens. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 31-36.	2.5	17
428	Exponential Activation of Carbonic Anhydrase by Encapsulation in Dynameric Host Matrices with Chiral Discrimination. Chemistry - A European Journal, 2018, 24, 715-720.	1.7	13
429	Comparison of the amine/amino acid activation profiles of the Î²- and Î³-carbonic anhydrases from the pathogenic bacteriumBurkholderia pseudomallei. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 25-30.	2.5	15
430	Characterization of technical grade carbonic anhydrase as biocatalyst for CO₂ capture in potassium carbonate solutions. , 2018, 8, 279-291.		14
431	Improving the carbonic anhydrase inhibition profile of the sulfamoylphenyl pharmacophore by attachment of carbohydrate moieties. Bioorganic Chemistry, 2018, 76, 61-66.	2.0	10
432	Bioactive isoflavones from Pueraria lobata root and starch: Different extraction techniques and carbonic anhydrase inhibition. Food and Chemical Toxicology, 2018, 112, 441-447.	1.8	50

#	Article	IF	Citations
433	Sulfonamide Inhibition Studies of a New Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica. International Journal of Molecular Sciences, 2018, 19, 3946.	1.8	9
434	Carbonic Anhydrase Inhibitors as Novel Drugs against Mycobacterial Î²-Carbonic Anhydrases: An Update on In Vitro and In Vivo Studies. Molecules, 2018, 23, 2911.	1.7	20
435	Selective inhibition of carbonic anhydrase IX over carbonic anhydrase XII in breast cancer cells using benzene sulfonamides: Disconnect between activity and growth inhibition. PLoS ONE, 2018, 13, e0207417.	1.1	32
436	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. Expert Opinion on Investigational Drugs, 2018, 27, 963-970.	1.9	195
437	4-Hydroxy-3-nitro-5-ureido-benzenesulfonamides Selectively Target the Tumor-Associated Carbonic Anhydrase Isoforms IX and XII Showing Hypoxia-Enhanced Antiproliferative Profiles. Journal of Medicinal Chemistry, 2018, 61, 10860-10874.	2.9	48
438	Cloning, Characterization and Anion Inhibition Studies of a Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica. Molecules, 2018, 23, 3112.	1.7	9
439	Carbonic anhydrase inhibition with a series of novel benzenesulfonamide-triazole conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1565-1574.	2.5	27
440	Discovering a new class of antifungal agents that selectively inhibits microbial carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1537-1544.	2.5	15
441	Novel thiazolidinone-containing compounds, without the well-known sulphonamide zinc-binding group acting as human carbonic anhydrase IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1299-1308.	2.5	19
442	Synthesis of different thio-scaffolds bearing sulfonamide with subnanomolar carbonic anhydrase II and IX inhibitory properties and X-ray investigations for their inhibitory mechanism. Bioorganic Chemistry, 2018, 81, 642-648.	2.0	35
443	Steroids interfere with human carbonic anhydrase activity by using alternative binding mechanisms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1453-1459.	2.5	69
444	Immobilization of carbonic anhydrase for enhancement of CO2 reactive absorption. New Biotechnology, 2018, 44, S44.	2.4	1
445	Discovery of novel 1,3-diaryltriazene sulfonamides as carbonic anhydrase I, II, VII, and IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1575-1580.	2.5	41
446	Performance evaluation of an all-electric waterbus supplied by hybrid energy storage systems. , 2018, , .		4
447	Rethinking the Combination of Proton Exchanger Inhibitors in Cancer Therapy. Metabolites, 2018, 8, 2.	1.3	51
448	Blocking HIF signaling via novel inhibitors of CA9 and APE1/Ref-1 dramatically affects pancreatic cancer cell survival. Scientific Reports, 2018, 8, 13759.	1.6	37
449	Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. Expert Opinion on Therapeutic Patents, 2018, 28, 709-712.	2.4	138
450	Famotidine, an Antiulcer Agent, Strongly Inhibits Helicobacter pylori and Human Carbonic Anhydrases. ACS Medicinal Chemistry Letters, 2018, 9, 1035-1038.	1.3	44

#	Article	IF	Citations
451	Tumor-associated carbonic anhydrase isoform IX and XII inhibitory properties of certain isatin-bearing sulfonamides endowed with in vitro antitumor activity towards colon cancer. Bioorganic Chemistry, 2018, 81, 425-432.	2.0	56
452	New azafluorenones with cytotoxic and carbonic anhydrase inhibitory properties: 2-Aryl-4-(4-hydroxyphenyl)-5H-indeno[1,2-b]pyridin-5-ones. Bioorganic Chemistry, 2018, 81, 433-439.	2.0	58
453	Applications of carbonic anhydrases inhibitors in renal and central nervous system diseases. Expert Opinion on Therapeutic Patents, 2018, 28, 713-721.	2.4	97
454	Tuning the Dual Inhibition of Carbonic Anhydrase and Cyclooxygenase by Dihydrothiazole Benzensulfonamides. ACS Medicinal Chemistry Letters, 2018, 9, 1045-1050.	1.3	18
455	Discovery of new 2, 5-disubstituted 1,3-selenazoles as selective human carbonic anhydrase IX inhibitors with potent anti-tumor activity. European Journal of Medicinal Chemistry, 2018, 157, 1214-1222.	2.6	32
456	A case study of a DC-microgrid for the smart integration of renewable sources with the urban electric mobility. , 2018, , .		9
457	Heterocoumarins Are Selective Carbonic Anhydrase IX and XII Inhibitors with Cytotoxic Effects against Cancer Cells Lines. ACS Medicinal Chemistry Letters, 2018, 9, 947-951.	1.3	39
458	Dioxygen, an unexpected carbonic anhydrase ligand. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 999-1005.	2.5	13
459	Evaluation of sulphonamide derivatives acting as inhibitors of human carbonic anhydrase isoforms I, II andMycobacterium tuberculosisÎ²-class enzyme Rv3273. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 962-971.	2.5	26
460	Selenides bearing benzenesulfonamide show potent inhibition activity against carbonic anhydrases from pathogenic bacteria Vibrio cholerae and Burkholderia pseudomallei. Bioorganic Chemistry, 2018, 79, 319-322.	2.0	19
461	Design, synthesis and X-ray crystallography of selenides bearing benzenesulfonamide moiety with neuropathic pain modulating effects. European Journal of Medicinal Chemistry, 2018, 154, 210-219.	2.6	39
462	Discovery of Î²-Adrenergic Receptors Blockerâ€“Carbonic Anhydrase Inhibitor Hybrids for Multitargeted Antiglaucoma Therapy. Journal of Medicinal Chemistry, 2018, 61, 5380-5394.	2.9	53
463	Activation of Î²- and Î³-carbonic anhydrases from pathogenic bacteria with tripeptides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 945-950.	2.5	30
464	The zinc â€“ but not cadmium â€“ containing Î¶-carbonic from the diatom Thalassiosira weissflogii is potently activated by amines and amino acids. Bioorganic Chemistry, 2018, 80, 261-265.	2.0	21
465	A Straightforward Access to Stable Î²â€Functionalized Alkyl Selenols. Advanced Synthesis and Catalysis, 2018, 360, 3367-3375.	2.1	40
466	The first activation studies of the Î·-carbonic anhydrase from the malaria parasite Plasmodium falciparum with amines and amino acids. Bioorganic Chemistry, 2018, 80, 94-98.	2.0	26
467	Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO2 capture. Biochemical Engineering Journal, 2018, 138, 1-11.	1.8	29
468			

#	Article	IF	Citations
469	Comparison of the Anion Inhibition Profiles of the Î±-CA Isoforms (SpiCA1, SpiCA2 and SpiCA3) from the Scleractinian Coral Stylophora pistillata. International Journal of Molecular Sciences, 2018, 19, 2128.	1.8	10
470	Carbonic anhydrase inhibitors as antitumor/antimetastatic agents: a patent review (2008â€“2018). Expert Opinion on Therapeutic Patents, 2018, 28, 729-740.	2.4	160
471	Inhibition of Î±-, Î²-, Î³-, and Î´-carbonic anhydrases from bacteria and diatoms withNâ€²-aryl-N-hydroxy-ureas. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1194-1198.	2.5	18
472	Novel hydrazido benzenesulfonamides-isatin conjugates: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. European Journal of Medicinal Chemistry, 2018, 157, 28-36.	2.6	51
473	Synthesis, X-ray structure, in silico calculation, and carbonic anhydrase inhibitory properties of benzylimidazole metal complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1150-1159.	2.5	6
474	Novel 6- and 7-Substituted Coumarins with Inhibitory Action against Lipoxygenase and Tumor-Associated Carbonic Anhydrase IX. Molecules, 2018, 23, 153.	1.7	27
475	Synthesis of novel isoindoline-1,3-dione-based oximes and benzenesulfonamide hydrazones as selective inhibitors of the tumor-associated carbonic anhydrase IX. Bioorganic Chemistry, 2018, 80, 706-713.	2.0	36
476	The Crystal Structure of a hCA VII Variant Provides Insights into the Molecular Determinants Responsible for Its Catalytic Behavior. International Journal of Molecular Sciences, 2018, 19, 1571.	1.8	23
477	Biomedical applications of prokaryotic carbonic anhydrases. Expert Opinion on Therapeutic Patents, 2018, 28, 745-754.	2.4	88
478	Development of a Fingerprint-Based Scoring Function for the Prediction of the Binding Mode of Carbonic Anhydrase II Inhibitors. International Journal of Molecular Sciences, 2018, 19, 1851.	1.8	12
479	Carbonic Anhydrases and Metabolism. Metabolites, 2018, 8, 25.	1.3	164
480	Amino Acids as Building Blocks for Carbonic Anhydrase Inhibitors. Metabolites, 2018, 8, 36.	1.3	22
481	Benzamide-4-Sulfonamides Are Effective Human Carbonic Anhydrase I, II, VII, and IX Inhibitors. Metabolites, 2018, 8, 37.	1.3	19
482	Activation studies with amines and amino acids of the Î±-carbonic anhydrase from the pathogenic protozoan Trypanosoma cruzi. Bioorganic and Medicinal Chemistry, 2018, 26, 4187-4190.	1.4	12
483	Discovery of potent anti-convulsant carbonic anhydrase inhibitors: Design, synthesis, inÂvitro and inÂvivo appraisal. European Journal of Medicinal Chemistry, 2018, 156, 430-443.	2.6	17
484	Synthesis of novel benzenesulfamide derivatives with inhibitory activity against human cytosolic carbonic anhydrase I and II andVibrio choleraeÎ±- and Î²-class enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1125-1136.	2.5	14
485	Discovery of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2018, 61, 4961-4977.	2.9	53
486	Activation Profile Analysis of CruCA4, an Î±-Carbonic Anhydrase Involved in Skeleton Formation of the Mediterranean Red Coral, Corallium rubrum. Molecules, 2018, 23, 66.	1.7	5

#	Article	IF	Citations
487	Synthesis of novel dipeptide sulfonamide conjugates with effective carbonic anhydrase I, II, IX, and XII inhibitory properties. Bioorganic Chemistry, 2018, 81, 311-318.	2.0	17
488	Inhibition of carbonic anhydrases by a substrate analog: benzyl carbamate directly coordinates the catalytic zinc ion mimicking bicarbonate binding. Chemical Communications, 2018, 54, 10312-10315.	2.2	19
489	Structural Mapping of Anion Inhibitors to Î²â€Carbonic Anhydrase psCA3 from Pseudomonas aeruginosa. ChemMedChem, 2018, 13, 2024-2029.	1.6	23
490	Design and synthesis of novel benzenesulfonamide containing 1,2,3-triazoles as potent human carbonic anhydrase isoforms I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2018, 155, 545-551.	2.6	46
491	Targeting Tumor Associated Carbonic Anhydrases IX and XII: Highly Isozyme Selective Coumarin and Psoralen Inhibitors. ACS Medicinal Chemistry Letters, 2018, 9, 725-729.	1.3	39
492	Nitroimidazole-based inhibitors DTP338 and DTP348 are safe for zebrafish embryos and efficiently inhibit the activity of human CA IX inXenopusoocytes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1064-1073.	2.5	14
493	Carbonic anhydrase inhibitory properties of some uracil derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 74-77.	2.5	36
494	Supported ionic liquid membranes immobilized with carbonic anhydrases for CO2 transport at high temperatures. Journal of Membrane Science, 2017, 528, 225-230.	4.1	64
495	Synthesis and biological evaluation of cyclic imides incorporating benzenesulfonamide moieties as carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 1666-1671.	1.4	33
496	Carbonic anhydrases from Trypanosoma and Leishmania as anti-protozoan drug targets. Bioorganic and Medicinal Chemistry, 2017, 25, 1543-1555.	1.4	52
497	Synthesis of isoxazole-containing sulfonamides with potent carbonic anhydrase II and VII inhibitory properties. Bioorganic and Medicinal Chemistry, 2017, 25, 1456-1464.	1.4	25
498	Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, inÂvitro biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies. European Journal of Medicinal Chemistry, 2017, 127, 521-530.	2.6	56
499	Design and Synthesis of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Treatment of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2017, 60, 1159-1170.	2.9	104
500	Investigating the antiplasmodial activity of primary sulfonamide compounds identified in open source malaria data. International Journal for Parasitology: Drugs and Drug Resistance, 2017, 7, 61-70.	1.4	13
501	Carbonic anhydrases activation with 3-amino-1H-1,2,4-triazole-1-carboxamides: Discovery of subnanomolar isoform II activators. Bioorganic and Medicinal Chemistry, 2017, 25, 1681-1686.	1.4	28
502	Synthesis of bulky-tailed sulfonamides incorporating pyrido[2,3- d][1,2,4]triazolo[4,3- a effects. Bioorganic and Medicinal Chemistry, 2017, 25, 2210-2217.	1.4	35
503	Evaluation of selenide, diselenide and selenoheterocycle derivatives as carbonic anhydrase I, II, IV, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 2518-2523.	1.4	44
504	Synthesis and human/bacterial carbonic anhydrase inhibition with a series of sulfonamides incorporating phthalimido moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 2524-2529.	1.4	25

#	Article	IF	Citations
505	Lead Development of Thiazolylsulfonamides with Carbonic Anhydrase Inhibitory Action. Journal of Medicinal Chemistry, 2017, 60, 3154-3164.	2.9	18
506	Carbonic anhydrase activation enhances object recognition memory in mice through phosphorylation of the extracellular signal-regulated kinase in the cortex and the hippocampus. Neuropharmacology, 2017, 118, 148-156.	2.0	77
507	Biochemical characterization of the native Î±-carbonic anhydrase purified from the mantle of the Mediterranean mussel,Mytilus galloprovincialis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 632-639.	2.5	28
508	Comparison of the anion inhibition profiles of the Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Burkholderia pseudomallei. Bioorganic and Medicinal Chemistry, 2017, 25, 2010-2015.	1.4	8
509	Discovery of Benzenesulfonamides with Potent Human Carbonic Anhydrase Inhibitory and Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Assessment. Journal of Medicinal Chemistry, 2017, 60, 2456-2469.	2.9	49
510	Design, synthesis and evaluation of¹⁸F-labeled cationic carbonic anhydrase IX inhibitors for PET imaging. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 722-730.	2.5	42
511	N -Substituted and ring opened saccharin derivatives selectively inhibit transmembrane, tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2017, 25, 3583-3589.	1.4	39
512	Novel sulfonamide-containing 2-indolinones that selectively inhibit tumor-associated alpha carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2017, 25, 3714-3718.	1.4	25
513	Synthesis of novel acyl selenoureido benzensulfonamides as carbonic anhydrase I, II, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 3567-3573.	1.4	42
514	Kinetic properties and affinities for sulfonamide inhibitors of an Î±-carbonic anhydrase (CruCA4) involved in coral biomineralization in the Mediterranean red coral Corallium rubrum. Bioorganic and Medicinal Chemistry, 2017, 25, 3525-3530.	1.4	14
515	Probing Molecular Interactions between Human Carbonic Anhydrases (hCAs) and a Novel Class of Benzenesulfonamides. Journal of Medicinal Chemistry, 2017, 60, 4316-4326.	2.9	40
516	Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. Bioorganic and Medicinal Chemistry, 2017, 25, 677-683.	1.4	36
517	Production and covalent immobilisation of the recombinant bacterial carbonic anhydrase (SspCA) onto magnetic nanoparticles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 759-766.	2.5	25
518	Î²-CA-specific inhibitor dithiocarbamate Fc14â€“584B: a novel antimycobacterial agent with potential to treat drug-resistant tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 832-840.	2.5	36
519	3H-1,2-benzoxathiepine 2,2-dioxides: a new class of isoform-selective carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 767-775.	2.5	41
520	Inhibition of the Î±-carbonic anhydrase fromVibrio choleraewith amides and sulfonamides incorporating imidazole moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 798-804.	2.5	35
521	Sulfonamide inhibition profiles of the Î²-carbonic anhydrase from the pathogenic bacterium Francisella tularensis responsible of the febrile illness tularemia. Bioorganic and Medicinal Chemistry, 2017, 25, 3555-3561.	1.4	20
522	Synthesis and biological evaluation of novel aromatic and heterocyclic bis-sulfonamide Schiff bases as carbonic anhydrase I, II, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 3093-3097.	1.4	53

#	Article	IF	Citations
523	Microwave-assisted synthesis and bioevaluation of new sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 369-374.	2.5	44
524	Synthesis of an acridine orange sulfonamide derivative with potent carbonic anhydrase IX inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 701-706.	2.5	11
525	Inhibition of Malassezia globosa carbonic anhydrase with phenols. Bioorganic and Medicinal Chemistry, 2017, 25, 2577-2582.	1.4	41
526	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. Bioorganic and Medicinal Chemistry, 2017, 25, 2569-2576.	1.4	79
527	Structure activity study of carbonic anhydrase IX: Selective inhibition with ureido-substituted benzenesulfonamides. European Journal of Medicinal Chemistry, 2017, 132, 184-191.	2.6	58
528	3D QSAR studies, pharmacophore modeling, and virtual screening of diarylpyrazoleâ€“benzenesulfonamide derivatives as a template to obtain new inhibitors, using human carbonic anhydrase II as a model protein. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 688-700.	2.5	16
529	Sulfonamide inhibition profile of the Î³-carbonic anhydrase identified in the genome of the pathogenic bacterium Burkholderia pseudomallei the etiological agent responsible of melioidosis. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 490-495.	1.0	25
530	Benzenesulfonamide bearing imidazothiadiazole and thiazolotriazole scaffolds as potent tumor associated human carbonic anhydrase IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 1286-1293.	1.4	36
531	Dithiocarbamates effectively inhibit the Î²-carbonic anhydrase from the dandruff-producing fungus Malassezia globosa. Bioorganic and Medicinal Chemistry, 2017, 25, 1260-1265.	1.4	45
532	Insights into the role of reactive sulfhydryl groups of Carbonic Anhydrase III and VII during oxidative damage. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 5-12.	2.5	35
533	Discovery of curcumin inspired sulfonamide derivatives as a new class of carbonic anhydrase isoforms I, II, IX, and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1274-1281.	2.5	28
534	Dual targeting of cancer-related human matrix metalloproteinases and carbonic anhydrases by chiral N-(biarylsulfonyl)-phosphonic acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1260-1264.	2.5	4
535	Psychoactive substances belonging to the amphetamine class potently activate brain carbonic anhydrase isoforms VA, VB, VII, and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1253-1259.	2.5	33
536	Carbonic anhydrase IX inhibition affects viability of cancer cells adapted to extracellular acidosis. Journal of Molecular Medicine, 2017, 95, 1341-1353.	1.7	76
537	Acyl selenoureido benzensulfonamides show potent inhibitory activity against carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic Chemistry, 2017, 75, 170-172.	2.0	21
538	Benzoxaboroles as Efficient Inhibitors of the Î²-Carbonic Anhydrases from Pathogenic Fungi: Activity and Modeling Study. ACS Medicinal Chemistry Letters, 2017, 8, 1194-1198.	1.3	47
539	Synthesis, biological activity and multiscale molecular modeling studies for coumaryl-carboxamide derivatives as selective carbonic anhydrase IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1042-1052.	2.5	28
540	The synthesis of novel sulfamides derived from Î²-benzylphenethylamines as acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase enzymes inhibitors. Bioorganic Chemistry, 2017, 74, 238-250.	2.0	64

#	Article	IF	Citations
541	Synthesis and biological evaluation of aminomethyl and alkoxymethyl derivatives as carbonic anhydrase, acetylcholinesterase and butyrylcholinesterase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1174-1182.	2.5	77
542	Synthesis and biological evaluation of benzenesulphonamide-bearing 1,4,5-trisubstituted-1,2,3-triazoles possessing human carbonic anhydrase I, II, IV, and IX inhibitory activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1187-1194.	2.5	42
543	Development of sulfonamides incorporating phenylacrylamido functionalities as carbonic anhydrase isoforms I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 5726-5732.	1.4	9
544	Sulfocoumarinâ€; Coumarinâ€; 4â€Sulfamoylphenylâ€Bearing Indazoleâ€3â€carboxamide Hybrids: Synthesis and Selective Inhibition of Tumorâ€Associated Carbonic Anhydrase Isozymes IX and XII. ChemMedChem, 2017, 12, 1578-1584.	1.6	36
545	Primary mono- and bis-sulfonamides obtained via regiospecific sulfochlorination of N-arylpyrazoles: inhibition profile against a panel of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 920-934.	2.5	18
546	Natural extracellular nanovesicles and photodynamic molecules: is there a future for drug delivery?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 908-916.	2.5	44
547	Synthesis and carbonic anhydrase inhibition of polycyclic imides incorporating N-benzenesulfonamide moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 5373-5379.	1.4	23
548	Cloning, expression and purification of the Î±-carbonic anhydrase from the mantle of the Mediterranean mussel, Mytilus galloprovincialis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1029-1035.	2.5	11
549	Novel 4/3-((4-oxo-5-(2-oxoindolin-3-ylidene)thiazolidin-2-ylidene)amino) benzenesulfonamides: Synthesis, carbonic anhydrase inhibitory activity, anticancer activity and molecular modelling studies. European Journal of Medicinal Chemistry, 2017, 139, 250-262.	2.6	110
550	Review on plug-in electric vehicle charging architectures integrated with distributed energy sources for sustainable mobility. Applied Energy, 2017, 207, 438-464.	5.1	162
551	Discovery of New Selenoureido Analogues of 4-(4-Fluorophenylureido)benzenesulfonamide as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 963-968.	1.3	62
552	Inhibition of the Î²-carbonic anhydrase from the dandruff-producing fungusMalassezia globosawith monothiocarbamates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1064-1070.	2.5	33
553	A one-step procedure for immobilising the thermostable carbonic anhydrase (SspCA) on the surface membrane of Escherichia coli. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1120-1128.	2.5	18
554	Anion inhibitors of the Î²-carbonic anhydrase from the pathogenic bacterium responsible of tularemia, Francisella tularensis. Bioorganic and Medicinal Chemistry, 2017, 25, 4800-4804.	1.4	13
555	Synthesis and carbonic anhydrase I, II, VII, and IX inhibition studies with a series of benzo[d]thiazole-5- and 6-sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1071-1078.	2.5	51
556	Dialkyl Dicyanofumarates as Oxidizing Reagents for the Conversion of Thiols into Disulfides and Selenols into Diselenides. European Journal of Organic Chemistry, 2017, 2017, 6831-6839.	1.2	22
557	Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases. ACS Medicinal Chemistry Letters, 2017, 8, 1314-1319.	1.3	61
558	Synthesis and biological evaluation of histamine Schiff bases as carbonic anhydrase I, II, IV, VII, and IX activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1305-1312.	2.5	52

#	Article	IF	Citations
559	Synthesis of Novel Selenides Bearing Benzenesulfonamide Moieties as Carbonic Anhydrase I, II, IV, VII, and IX Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 1213-1217.	1.3	44
560	Carbonic anhydrase I, II, IV and IX inhibition with a series of 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 885-892.	2.5	10
561	N-Acylbenzenesulfonamide Dihydro-1,3,4-oxadiazole Hybrids: Seeking Selectivity toward Carbonic Anhydrase Isoforms. ACS Medicinal Chemistry Letters, 2017, 8, 792-796.	1.3	27
562	Integration between Super-capacitors and ZEBRA Batteries as High Performance Hybrid Storage System for Electric Vehicles. Energy Procedia, 2017, 105, 2539-2544.	1.8	21
563	3-Hydroxy-1H-quinazoline-2,4-dione as a New Scaffold To Develop Potent and Selective Inhibitors of the Tumor-Associated Carbonic Anhydrases IX and XII. Journal of Medicinal Chemistry, 2017, 60, 6428-6439.	2.9	24
564	Advances in structure-based drug discovery of carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2017, 12, 61-88.	2.5	356
565	A class of carbonic anhydrase I â€“ selective activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 37-46.	2.5	34
566	Anion inhibition profiles of the Î³-carbonic anhydrase from the pathogenic bacterium Burkholderia pseudomallei responsible of melioidosis and highly drug resistant to common antibiotics. Bioorganic and Medicinal Chemistry, 2017, 25, 575-580.	1.4	16
567	Burkholderia pseudomallei Î³-carbonic anhydrase is strongly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 77-80.	1.0	26
568	Isatin: a privileged scaffold for the design of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 68-73.	2.5	49
569	Bortezomib inhibits mammalian carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2017, 25, 5064-5067.	1.4	9
570	Open saccharin-based secondary sulfonamides as potent and selective inhibitors of cancer-related carbonic anhydrase IX and XII isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 51-59.	2.5	46
571	Designing, synthesis and bioactivities of 4-[3-(4-hydroxyphenyl)-5-aryl-4,5-dihydro-pyrazol-1-yl]benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 169-175.	2.5	38
572	5-Substituted-benzylsulfanyl-thiophene-2-sulfonamides with effective carbonic anhydrase inhibitory activity: Solution and crystallographic investigations. Bioorganic and Medicinal Chemistry, 2017, 25, 857-863.	1.4	20
573	Structureâ€“Activity Relationships of Benzenesulfonamideâ€Based Inhibitors towards Carbonic Anhydrase Isoform Specificity. ChemBioChem, 2017, 18, 213-222.	1.3	38
574	Novel Sulfamide-Containing Compounds as Selective Carbonic Anhydrase I Inhibitors. Molecules, 2017, 22, 1049.	1.7	24
575	Targeting Malassezia species for Novel Synthetic and Natural Antidandruff Agents. Current Medicinal Chemistry, 2017, 24, 2392-2412.	1.2	29
576	Carbonic Anhydrase Inhibition and the Management of Hypoxic Tumors. Metabolites, 2017, 7, 48.	1.3	197

#	Article	IF	Citations
577	An Overview of the Bacterial Carbonic Anhydrases. Metabolites, 2017, 7, 56.	1.3	165
578	Comparison of the Sulfonamide Inhibition Profiles of the Î²- and Î³-Carbonic Anhydrases from the Pathogenic Bacterium Burkholderia pseudomallei. Molecules, 2017, 22, 421.	1.7	29
579	Five- and Six-Membered Nitrogen-Containing Compounds as Selective Carbonic Anhydrase Activators. Molecules, 2017, 22, 2178.	1.7	17
580	Carbonic Anhydrase from Porphyromonas Gingivalis as a Drug Target. Pathogens, 2017, 6, 30.	1.2	39
581	Bioactive Natural Product and Superacid Chemistry for Lead Compound Identification: A Case Study of Selective hCA III and L-Type Ca2+ Current Inhibitors for Hypotensive Agent Discovery. Molecules, 2017, 22, 915.	1.7	4
582	Sequence Analysis, Kinetic Constants, and Anion Inhibition Profile of the Nacrein-Like Protein (CgiNAP2X1) from the Pacific Oyster Magallana gigas (Ex-Crassostrea gigas). Marine Drugs, 2017, 15, 270.	2.2	3
583	Insights into the binding mode of sulphamates and sulphamides to hCA II: crystallographic studies and binding free energy calculations. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1002-1011.	2.5	26
584	Inhibition of Bacterial Carbonic Anhydrases as a Novel Approach to Escape Drug Resistance. Current Topics in Medicinal Chemistry, 2017, 17, 1237-1248.	1.0	48
585	The Warburg Effect and the Hallmarks of Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 164-170.	0.9	258
586	Non-Classical Inhibition of Carbonic Anhydrase. International Journal of Molecular Sciences, 2016, 17, 1150.	1.8	98
587	Phenols and Polyphenols as Carbonic Anhydrase Inhibitors. Molecules, 2016, 21, 1649.	1.7	68
588	Legionella pneumophila Carbonic Anhydrases: Underexplored Antibacterial Drug Targets. Pathogens, 2016, 5, 44.	1.2	41
589	Coral Carbonic Anhydrases: Regulation by Ocean Acidification. Marine Drugs, 2016, 14, 109.	2.2	39
590	Synthesis and carbonic anhydrase inhibitory effects of new N-glycosylsulfonamides incorporating the phenol moiety. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3892-3895.	1.0	8
591	Discovery of New Potential Antiâ€Infective Compounds Based on Carbonic Anhydrase Inhibitors by Rational Targetâ€Focused Repurposing Approaches. ChemMedChem, 2016, 11, 1904-1914.	1.6	49
592	New light on bacterial carbonic anhydrases phylogeny based on the analysis of signal peptide sequences. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1254-1260.	2.5	70
593	Inâ€…Vivo Evaluation of Selective Carbonic Anhydrase Inhibitors as Potential Anticonvulsant Agents. ChemMedChem, 2016, 11, 1812-1818.	1.6	36
594	9,10â€Dibromoâ€Nâ€arylâ€9,10â€dihydroâ€9,10â€[3,4]epipyrroloanthraceneâ€12,14â€diones: Synthesis and Investigation of Their Effects on Carbonic Anhydrase Isozymes I, II, IX, and XII. Archiv Der Pharmazie, 2016, 349, 466-474.	2.1	32

#	Article	IF	Citations
595	A Combined Crystallographic and Theoretical Study Explains the Capability of Carboxylic Acids to Adopt Multiple Binding Modes in the Active Site of Carbonic Anhydrases. Chemistry - A European Journal, 2016, 22, 97-100.	1.7	43
596	Synthesis of some tetrahydropyrimidine-5-carboxylates, determination of their metal chelating effects and inhibition profiles against acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1531-1539.	2.5	101
597	N-Nitrosulfonamides: A new chemotype for carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2016, 24, 3612-3617.	1.4	42
598	Carbonic anhydrase inhibition and the management of neuropathic pain. Expert Review of Neurotherapeutics, 2016, 16, 961-968.	1.4	124
599	Synthesis of two phloroglucinol derivatives with cinnamyl moieties as inhibitors of the carbonic anhydrase isozymes I and II: anin vitrostudy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 208-212.	2.5	9
600	A substituted sulfonamide and its Co (II), Cu (II), and Zn (II) complexes as potential antifungal agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 51-62.	2.5	43
601	Anion inhibition profiles of Î±-, Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2016, 24, 3413-3417.	1.4	49
602	Synthesis and bioactivity studies on new 4-(3-(4-Substitutedphenyl)-3a,4-dihydro-3H-indeno[1,2-c]pyrazol-2-yl) benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1619-1624.	2.5	113
603	The synthesis of some Î²-lactams and investigation of their metal-chelating activity, carbonic anhydrase and acetylcholinesterase inhibition profiles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 79-88.	2.5	92
604	Lansoprazole and carbonic anhydrase IX inhibitors sinergize against human melanoma cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 119-125.	2.5	54
605	The anticonvulsant sulfamide JNJ-26990990 and its S,S-dioxide analog strongly inhibit carbonic anhydrases: solution and X-ray crystallographic studies. Organic and Biomolecular Chemistry, 2016, 14, 4853-4858.	1.5	26
606	Novel sulfonamide bearing coumarin scaffolds as selective inhibitors of tumor associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 2882-2886.	1.4	44
607	Pyrazolylbenzo[d]imidazoles as new potent and selective inhibitors of carbonic anhydrase isoforms hCA IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 2907-2913.	1.4	34
608	PEGylated Bis-Sulfonamide Carbonic Anhydrase Inhibitors Can Efficiently Control the Growth of Several Carbonic Anhydrase IX-Expressing Carcinomas. Journal of Medicinal Chemistry, 2016, 59, 5077-5088.	2.9	53
609	Synthesis of 4-(thiazol-2-ylamino)-benzenesulfonamides with carbonic anhydrase I, II and IX inhibitory activity and cytotoxic effects against breast cancer cell lines. Bioorganic and Medicinal Chemistry, 2016, 24, 3043-3051.	1.4	53
610	An Unusual Natural Product Primary Sulfonamide: Synthesis, Carbonic Anhydrase Inhibition, and Protein X-ray Structures of Psammaplin C. Journal of Medicinal Chemistry, 2016, 59, 5462-5470.	2.9	40
611	Synthesis, cytotoxicity and carbonic anhydrase inhibitory activities of new pyrazolines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 20-24.	2.5	52
612	Synthesis and bioactivities of halogen bearing phenolic chalcones and their corresponding bis Mannich bases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 125-131.	2.5	51

#	Article	IF	Citations
613	Benzoxaborole as a new chemotype for carbonic anhydrase inhibition. Chemical Communications, 2016, 52, 11983-11986.	2.2	69
614	Experimental set-up of DC PEV charging station supported by open and interoperable communication technologies. , 2016, , .		7
615	Cloning, expression, purification and sulfonamide inhibition profile of the complete domain of the Î·-carbonic anhydrase from Plasmodium falciparum. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4184-4190.	1.0	37
616	Bortezomib inhibits bacterial and fungal Î²-carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2016, 24, 4406-4409.	1.4	29
617	Identification and inhibition of carbonic anhydrases from nematodes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 176-184.	2.5	23
618	CA IX stratification based on cancer treatment: a patent evaluation of US2016/0002350. Expert Opinion on Therapeutic Patents, 2016, 26, 1105-1109.	2.4	5
619	Microwave-assisted extraction, HPLC analysis, and inhibitory effects on carbonic anhydrase I, II, VA, and VII isoforms of 14 blueberry Italian cultivars. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-6.	2.5	51
620	Mycobacterial carbonic anhydrase inhibition with phenolic acids and esters: kinetic and computational investigations. Organic and Biomolecular Chemistry, 2016, 14, 8322-8330.	1.5	29
621	Anion inhibition profiles of the complete domain of the Î·-carbonic anhydrase from Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2016, 24, 4410-4414.	1.4	34
622	Cloning, expression and purification of the complete domain of theÎ·-carbonic anhydrase fromPlasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 54-59.	2.5	59
623	Overexpression of the transmembrane carbonic anhydrase isoforms IX and XII in the inflamed synovium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 60-63.	2.5	82
624	Regulation of HIF1Î± under Hypoxia by APE1/Ref-1 Impacts CA9 Expression: Dual Targeting in Patient-Derived 3D Pancreatic Cancer Models. Molecular Cancer Therapeutics, 2016, 15, 2722-2732.	1.9	91
625	Structureâ€“Activity Relationship for Sulfonamide Inhibition of Helicobacter pylori Î±-Carbonic Anhydrase. Journal of Medicinal Chemistry, 2016, 59, 11098-11109.	2.9	48
626	Protozoan Carbonic Anhydrases. Topics in Medicinal Chemistry, 2016, , 111-133.	0.4	1
627	Synthesis and carbonic anhydrase inhibitory activities of new thienyl-substituted pyrazoline benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-5.	2.5	46
628	Synthesis and bioactivity studies of 1-aryl-3-(2-hydroxyethylthio)-1-propanones. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 105-109.	2.5	12
629	Structure and function of carbonic anhydrases. Biochemical Journal, 2016, 473, 2023-2032.	1.7	688
630	Bacterial Carbonic Anhydrases. Topics in Medicinal Chemistry, 2016, , 135-152.	0.4	2

#	Article	IF	Citations
631	Synthesis and carbonic anhydrase inhibitory properties of novel chalcone substituted benzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5867-5870.	1.0	40
632	Benzenesulfonamides Incorporating Flexible Triazole Moieties Are Highly Effective Carbonic Anhydrase Inhibitors: Synthesis and Kinetic, Crystallographic, Computational, and Intraocular Pressure Lowering Investigations. Journal of Medicinal Chemistry, 2016, 59, 10692-10704.	2.9	93
633	Multicomponent chemistry in the synthesis of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 185-199.	2.5	14
634	A new hexapeptide from the leader peptide of rMnSOD enters cells through the oestrogen receptor to deliver therapeutic molecules. Scientific Reports, 2016, 6, 18691.	1.6	7
635	Systems engineering approach for eco-comparison among power-train configurations of hybrid bus. , 2016, , .		2
636	Active Components of Essential Oils as Anti-Obesity Potential Drugs Investigated by in Silico Techniques. Journal of Agricultural and Food Chemistry, 2016, 64, 5295-5300.	2.4	31
637	Monothiocarbamates Strongly Inhibit Carbonic Anhydrases in Vitro and Possess Intraocular Pressure Lowering Activity in an Animal Model of Glaucoma. Journal of Medicinal Chemistry, 2016, 59, 5857-5867.	2.9	54
638	Synthesis of 4,5-disubstituted-2-thioxo-1,2,3,4-tetrahydropyrimidines and investigation of their acetylcholinesterase, butyrylcholinesterase, carbonic anhydrase I/II inhibitory and antioxidant activities. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-9.	2.5	125
639	1,2-Benzisothiazole Derivatives Bearing 4-, 5-, or 6-Alkyl/arylcarboxamide Moieties Inhibit Carbonic Anhydrase Isoform IX (CAIX) and Cell Proliferation under Hypoxic Conditions. Journal of Medicinal Chemistry, 2016, 59, 6547-6552.	2.9	20
640	Design, synthesis and biological evaluation ofN-(5-methyl-isoxazol-3-yl/1,3,4-thiadiazol-2-yl)-4-(3-substitutedphenylureido) benzenesulfonamides as human carbonic anhydrase isoenzymes I, II, VII and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 174-179.	2.5	23
641	Microwave assisted synthesis of novel acridineâ€“acetazolamide conjugates and investigation of their inhibition effects on human carbonic anhydrase isoforms hCA I, II, IV and VII. Bioorganic and Medicinal Chemistry, 2016, 24, 3548-3555.	1.4	10
642	Synthesis of diaryl ethers with acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase inhibitory actions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 79-85.	2.5	125
643	Synthesis 4-[2-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-ethyl]-benzenesulfonamides with subnanomolar carbonic anhydrase II and XII inhibitory properties. Bioorganic and Medicinal Chemistry, 2016, 24, 4100-4107.	1.4	17
644	Synthesis of 4â€[2â€(3,4â€dimethoxybenzyl)cyclopentyl]â€1,2â€dimethoxybenzene Derivatives and Evaluations of Their Carbonic Anhydrase Isoenzymes Inhibitory Effects. Chemical Biology and Drug Design, 2016, 87, 594-607.	1.5	46
645	Dithiocarbamates with potent inhibitory activity against theSaccharomyces cerevisiaeÎ²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 132-136.	2.5	17
646	The human carbonic anhydrase isoenzymes I and II (hCA I and II) inhibition effects of trimethoxyindane derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 152-157.	2.5	90
647	Experimental evaluation of DC charging architecture for fully-electrified low-power two-wheeler. Applied Energy, 2016, 162, 1428-1438.	5.1	37
648	A novel library of saccharin and acesulfame derivatives as potent and selective inhibitors of carbonic anhydrase IX and XII isoforms. Bioorganic and Medicinal Chemistry, 2016, 24, 1095-1105.	1.4	55

#	Article	IF	Citations
649	Amido/ureidosubstituted benzenesulfonamides-isatin conjugates as low nanomolar/subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform XII. European Journal of Medicinal Chemistry, 2016, 110, 259-266.	2.6	77
650	Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrase from Malassezia globosa with amines and amino acids. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1381-1385.	1.0	28
651	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with secondary sulfonamides incorporating benzothiazole scaffolds. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1306-1311.	2.5	20
652	Sulfonamide inhibition studies of the Î±-carbonic anhydrase from the gammaproteobacterium Thiomicrospira crunogena XCL-2, TcruCA. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 401-405.	1.0	2
653	Cloning, characterization and anion inhibition studies of a Î³-carbonic anhydrase from the Antarctic bacterium Colwellia psychrerythraea. Bioorganic and Medicinal Chemistry, 2016, 24, 835-840.	1.4	44
654	Synthesis of 4-sulfamoylphenyl-benzylamine derivatives with inhibitory activity against human carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 982-988.	1.4	33
655	4-Arylbenzenesulfonamides as Human Carbonic Anhydrase Inhibitors (hCAIs): Synthesis by Pd Nanocatalyst-Mediated Suzukiâ€“Miyaura Reaction, Enzyme Inhibition, and X-ray Crystallographic Studies. Journal of Medicinal Chemistry, 2016, 59, 721-732.	2.9	33
656	The inhibitory effects of phenolic Mannich bases on carbonic anhydrase I and II isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1678-1681.	2.5	36
657	Synthesis, characterization and carbonic anhydrase inhibitory activity of novel benzothiazole derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1221-1225.	2.5	12
658	A new procedure for the cloning, expression and purification of the Î²-carbonic anhydrase from the pathogenic yeastMalassezia globosa, an anti-dandruff drug target. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1156-1161.	2.5	30
659	How many carbonic anhydrase inhibition mechanisms exist?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 345-360.	2.5	588
660	Synthesis and inhibitory properties of some carbamates on carbonic anhydrase and acetylcholine esterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1484-1491.	2.5	39
661	Inhibitory effects of benzimidazole containing new phenolic Mannich bases on human carbonic anhydrase isoforms hCA I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1540-1544.	2.5	14
662	Drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2016, 12, 423-431.	1.5	86
663	Rosmarinic acid inhibits some metabolic enzymes including glutathioneS-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1698-1702.	2.5	173
664	Development of 3-(4-aminosulphonyl)-phenyl-2-mercapto-3H-quinazolin-4-ones as inhibitors of carbonic anhydrase isoforms involved in tumorigenesis and glaucoma. Bioorganic and Medicinal Chemistry, 2016, 24, 1402-1407.	1.4	11
665	Dynamic encapsulation and activation of carbonic anhydrase in multivalent dynameric host matrices. Chemical Communications, 2016, 52, 4053-4055.	2.2	25
666	Carbonic anhydrase inhibition and cytotoxicity studies of Mannich base derivatives of thymol. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1375-1380.	2.5	38

#	Article	IF	Citations
667	Sulfonamide inhibition studies of the Î²-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2016, 24, 1115-1120.	1.4	57
668	Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic bacterium Colwellia psychrerythraea. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1253-1259.	1.0	13
669	Anion inhibition studies of the Î²-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1406-1410.	1.0	39
670	Synthesis of N-alkyl (aril)-tetra pyrimidine thiones and investigation of their human carbonic anhydrase I and II inhibitory effects. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1192-1197.	2.5	20
671	Inhibition of carbonic anhydrase from Trypanosoma cruzi for the management of Chagas disease: an underexplored therapeutic opportunity. Future Medicinal Chemistry, 2016, 8, 311-324.	1.1	34
672	Synthesis and carbonic anhydrase I, II, IV and XII inhibitory properties of N-protected amino acid â€“ sulfonamide conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1476-1483.	2.5	18
673	Isatin analogs as novel inhibitors of Candida spp. Î²-carbonic anhydrase enzymes. Bioorganic and Medicinal Chemistry, 2016, 24, 1648-1652.	1.4	23
674	Sulfonamide inhibition studies of the Î²-carbonic anhydrase from the newly discovered bacterium Enterobacter sp. B13. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1821-1826.	1.0	8
675	Inhibitory effects of isatin Mannich bases on carbonic anhydrases, acetylcholinesterase, and butyrylcholinesterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1498-1501.	2.5	125
676	Comparison of the sulfonamide inhibition profiles of the Î±-, Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1941-1946.	1.0	50
677	Recombinant thermoactive phosphoenolpyruvate carboxylase (PEPC) from Thermosynechococcus elongatus and its coupling with mesophilic/thermophilic bacterial carbonic anhydrases (CAs) for the conversion of CO2 to oxaloacetate. Bioorganic and Medicinal Chemistry, 2016, 24, 220-225.	1.4	18
678	Sulfonamides incorporating heteropolycyclic scaffolds show potent inhibitory action against carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 921-927.	1.4	18
679	Kinetic and X-ray crystallographic investigations on carbonic anhydrase isoforms I, II, IX and XII of a thioureido analog of SLC-0111. Bioorganic and Medicinal Chemistry, 2016, 24, 976-981.	1.4	63
680	Development of certain new 2-substituted-quinazolin-4-yl-aminobenzenesulfonamide as potential antitumor agents. European Journal of Medicinal Chemistry, 2016, 109, 247-253.	2.6	41
681	The human carbonic anhydrase isoenzymes I and II inhibitory effects of some hydroperoxides, alcohols, and acetates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1248-1253.	2.5	15
682	Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. Journal of Medicinal Chemistry, 2016, 59, 462-473.	2.9	75
683	Fluorescent sulfonamide carbonic anhydrase inhibitors incorporating 1,2,3-triazole moieties: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2016, 24, 104-112.	1.4	20
684	Sulfamide derivatives with selective carbonic anhydrase VII inhibitory action. Bioorganic and Medicinal Chemistry, 2016, 24, 894-901.	1.4	22

#	Article	IF	Citations
685	Carbonic anhydrase inhibition for the management of cerebral ischemia:in vivoevaluation of sulfonamide and coumarin inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 894-899.	2.5	88
686	Inhibition of carbonic anhydrase isoforms I, II, IV, VII and XII with carboxylates and sulfonamides incorporating phthalimide/phthalic anhydride scaffolds. Bioorganic and Medicinal Chemistry, 2016, 24, 20-25.	1.4	35
687	Synthesis and carbonic anhydrase inhibitory properties of amino acid â€“ coumarin/quinolinone conjugates incorporating glycine, alanine and phenylalanine moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1198-1202.	2.5	26
688	Cloning, expression and biochemical characterization of aÎ²-carbonic anhydrase from the soil bacteriumEnterobactersp. B13. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1111-1118.	2.5	8
689	Interaction of anions with a newly characterized alpha carbonic anhydrase fromHalomonassp. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1119-1123.	2.5	13
690	The synthesis of (Z)-4-oxo-4-(arylamino)but-2-enoic acids derivatives and determination of their inhibition properties against human carbonic anhydrase I and II isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 939-945.	2.5	18
691	Hydroxamic acid derivatives: a promising scaffold for rational compound optimization in Chagas disease. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 964-973.	2.5	23
692	The effect of caffeic acid phenethyl ester (CAPE) on metabolic enzymes including acetylcholinesterase, butyrylcholinesterase, glutathione S-transferase, lactoperoxidase, and carbonic anhydrase isoenzymes I, II, IX, and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1095-1101.	2.5	142
693	Expression and characterization of a recombinant psychrophilic Î³-carbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus Nostoc. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 810-817.	2.5	7
694	The history and rationale of using carbonic anhydrase inhibitors in the treatment of peptic ulcers. In memoriam Ioan PuÅŸcaÅŸ (1932â€“2015). Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 527-533.	2.5	65
695	The effects of some bromophenols on human carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 603-607.	2.5	90
696	The effects of some avermectins on bovine carbonic anhydrase enzyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 773-778.	2.5	47
697	A magnificent enzyme superfamily: carbonic anhydrases, their purification and characterization. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 689-694.	2.5	128
698	Synthesis and inhibition potency of novel ureido benzenesulfonamides incorporating GABA as tumor-associated carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 205-211.	2.5	15
699	An Update on Natural Products with Carbonic Anhydrase Inhibitory Activity. Current Pharmaceutical Design, 2016, 22, 1570-1591.	0.9	19
700	An Overview of the Carbonic Anhydrases from Two Pathogens of the Oral Cavity: Streptococcus mutans and Porphyromonas gingivalis. Current Topics in Medicinal Chemistry, 2016, 16, 2359-2368.	1.0	70
701	Crystal structure and kinetic studies of a tetrameric type II Î²-carbonic anhydrase from the pathogenic bacteriumVibrio cholerae. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2449-2456.	2.5	94
702	Exploration of anionic inhibition of the Î±-carbonic anhydrase from Thiomicrospira crunogena XCL-2 gammaproteobacterium: A potential bio-catalytic agent for industrial CO2 removal. Chemical Engineering Science, 2015, 138, 575-580.	1.9	11

#	Article	IF	Citations
703	Carbonic Anhydrase II as Target for Drug Design. , 2015, , 51-90.		2
704	Human Carbonic Anhydrases: Catalytic Properties, Structural Features, and Tissue Distribution. , 2015, , 17-30.		9
705	Nitric Oxide Donors and Selective Carbonic Anhydrase Inhibitors: A Dual Pharmacological Approach for the Treatment of Glaucoma, Cancer and Osteoporosis. Molecules, 2015, 20, 5667-5679.	1.7	35
706	Carbonic Anhydrase Protects Fatty Liver Grafts against Ischemic Reperfusion Damage. PLoS ONE, 2015, 10, e0134499.	1.1	8
707	Hydroxylamine-O-sulfonamide is a versatile lead compound for the development of carbonic anhydrase inhibitors. Chemical Communications, 2015, 51, 11519-11522.	2.2	10
708	In silicomodeling ofÎ²-carbonic anhydrase inhibitors from the fungusMalassezia globosaas antidandruff agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 31, 1-8.	2.5	8
709	Experimental study of a DC charging station for full electric and plug in hybrid vehicles. Applied Energy, 2015, 152, 131-142.	5.1	85
710	Design and synthesis of benzothiazole-6-sulfonamides acting as highly potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 4989-4999.	1.4	35
711	Protonography, a powerful tool for analyzing the activity and the oligomeric state of the Î³-carbonic anhydrase identified in the genome of Porphyromonas gingivalis. Bioorganic and Medicinal Chemistry, 2015, 23, 3747-3750.	1.4	41
712	New pyrazolo[4,3-e][1,2,4]triazine sulfonamides as carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2015, 23, 3674-3680.	1.4	36
713	Cloning, characterization and anion inhibition study of a Î²-class carbonic anhydrase from the caries producing pathogen Streptococcus mutans. Bioorganic and Medicinal Chemistry, 2015, 23, 2995-3001.	1.4	27
714	The zinc coordination pattern in the Î·-carbonic anhydrase from Plasmodium falciparum is different from all other carbonic anhydrase genetic families. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1385-1389.	1.0	108
715	Crystal structure of the most catalytically effective carbonic anhydrase enzyme known, SazCA from the thermophilic bacterium Sulfurihydrogenibium azorense. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2002-2006.	1.0	72
716	Cloning, characterization and anion inhibition studies of a Î³-carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4970-4975.	1.0	13
717	Nanoparticles for controlled release of anti-biofilm agents WO2014130994 (A1): a patent evaluation. Expert Opinion on Therapeutic Patents, 2015, 25, 945-948.	2.4	1
718	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with Schiffâ€™s bases incorporating iminoureido moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 901-907.	2.5	13
719	N-glycosyl-N-hydroxysulfamides as potent inhibitors of Brucella suis carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 1010-1012.	2.5	6
720	Laboratory Bench to Test ZEBRA Battery Plus Super-Capacitor Based Propulsion Systems for Urban Electric Transportation. Energy Procedia, 2015, 75, 1956-1961.	1.8	15

#	Article	IF	Citations
721	Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. Bioorganic and Medicinal Chemistry, 2015, 23, 7751-7764.	1.4	17
722	A new class of quinazoline-sulfonamides acting as efficient inhibitors against the Î±-carbonic anhydrase fromTrypanosoma cruzi. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 581-585.	2.5	26
723	Inhibition of Î²-carbonic anhydrases from Brucella suis with C-cinnamoyl glycosides incorporating the phenol moiety. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 1017-1020.	2.5	13
724	Î±-Carbonic Anhydrases Possess Thioesterase Activity. ACS Medicinal Chemistry Letters, 2015, 6, 292-295.	1.3	36
725	Computational investigation of the selectivity of salen and tetrahydrosalen compounds towards the tumor-associated hCA XII isozyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 114-118.	2.5	40
726	Carbonic Anhydrase Inhibitors with Dual-Tail Moieties To Match the Hydrophobic and Hydrophilic Halves of the Carbonic Anhydrase Active Site. Journal of Medicinal Chemistry, 2015, 58, 1494-1501.	2.9	83
727	The Î-class carbonic anhydrases as drug targets for antimalarial agents. Expert Opinion on Therapeutic Targets, 2015, 19, 551-563.	1.5	146
728	The impact of hydroquinone on acetylcholine esterase and certain human carbonic anhydrase isoenzymes (hCA I, II, IX, and XII). Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 941-946.	2.5	96
729	Protonography, a technique applicable for the analysis ofÎ·-carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 920-924.	2.5	48
730	Exploring QSARs of some benzenesulfonamides incorporating cyanoacrylamide moieties as a carbonic anhydrase inhibitors (specifically against tumor-associated isoforms IX and XII). Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 519-523.	2.5	8
731	A failed tentative to design a super carbonic anhydrase having the biochemical properties of the most thermostable CA (SspCA) and the fastest (SazCA) enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 989-994.	2.5	13
732	Plasmonic Particles that Hit Hypoxic Cells. Advanced Functional Materials, 2015, 25, 316-323.	7.8	38
733	Dipotassium-trioxohydroxytetrafluorotriborate, K₂[B₃O₃F₄OH], is a potent inhibitor of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 341-344.	2.5	29
734	Investigation of arenesulfonyl-2-imidazolidinones as potent carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 81-84.	2.5	40
735	Synthesis of pro-apoptotic indapamide derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 967-980.	2.5	6
736	Synthesis of 6-aryl-substituted sulfocoumarins and investigation of their carbonic anhydrase inhibitory action. Bioorganic and Medicinal Chemistry, 2015, 23, 1430-1436.	1.4	43
737	Biochemical characterization of recombinant Î²-carbonic anhydrase (PgiCAb) identified in the genome of the oral pathogenic bacteriumPorphyromonas gingivalis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 366-370.	2.5	66
738	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. Bioorganic and Medicinal Chemistry, 2015, 23, 1828-1840.	1.4	126

#	Article	IF	Citations
739	Synthesis of a novel affinity gel for the purification of carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 240-244.	2.5	24
740	Synthesis of 3,4-dihydroxypyrrolidine-2,5-dione and 3,5-dihydroxybenzoic acid derivatives and evaluation of the carbonic anhydrase I and II inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 896-900.	2.5	21
741	Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic bacterium Pseudoalteromonas haloplanktis. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3550-3555.	1.0	28
742	Acatalytic Carbonic Anhydrases (CAs VIII, X, XI). , 2015, , 239-245.		4
743	Bacterial Carbonic Anhydrases as Drug Targets. , 2015, , 275-288.		2
744	Synthesis and carbonic anhydrase I, II, IX and XII inhibitory activity of sulfamates incorporating piperazinyl-ureido moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 5619-5625.	1.4	15
745	Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3850-3853.	1.0	25
746	Bacterial, fungal and protozoan carbonic anhydrases as drug targets. Expert Opinion on Therapeutic Targets, 2015, 19, 1689-1704.	1.5	174
747	Carbonic anhydrase inhibitors: Design, synthesis and structural characterization of new heteroaryl-N-carbonylbenzenesulfonamides targeting druggable human carbonic anhydrase isoforms. European Journal of Medicinal Chemistry, 2015, 102, 223-232.	2.6	24
748	Mapping Selective Inhibition of the Cancer-Related Carbonic Anhydrase IX Using Structureâ€“Activity Relationships of Glucosyl-Based Sulfamates. Journal of Medicinal Chemistry, 2015, 58, 6630-6638.	2.9	25
749	Hit Recycling: Discovery of a Potent Carbonic Anhydrase Inhibitor by in Silico Target Fishing. ACS Chemical Biology, 2015, 10, 1964-1969.	1.6	19
750	Sulfonamide inhibition study of the Î²-class carbonic anhydrase from the caries producing pathogen Streptococcus mutans. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2291-2297.	1.0	31
751	Cloning, characterization and anion inhibition studies of a new Î³-carbonic anhydrase from the Antarctic bacterium Pseudoalteromonas haloplanktis. Bioorganic and Medicinal Chemistry, 2015, 23, 4405-4409.	1.4	26
752	Inhibition studies of bacterial, fungal and protozoan Î²-class carbonic anhydrases with Schiff bases incorporating sulfonamide moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 4181-4187.	1.4	29
753	Acetazolamide for the treatment of idiopathic intracranial hypertension. Expert Review of Neurotherapeutics, 2015, 15, 851-856.	1.4	128
754	Structure and inhibition studies of a type II beta-carbonic anhydrase psCA3 from Pseudomonas aeruginosa. Bioorganic and Medicinal Chemistry, 2015, 23, 4831-4838.	1.4	56
755	Exploring carbonic anhydrase inhibition with multimeric coumarins displayed on a fullerene scaffold. Organic and Biomolecular Chemistry, 2015, 13, 7445-7451.	1.5	37
756	New 4-[(3-cyclohexyl-4-aryl-2,3-dihydro-1,3-thiazol-2-ylidene)amino]benzene-1-sulfonamides, synthesis and inhibitory activity toward carbonic anhydrase I, II, IX, XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3281-3284.	1.0	19

#	Article	IF	Citations
757	Sulfonamide bearing pyrazolylpyrazolines as potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3208-3212.	1.0	43
758	Carbonic Anhydrases From Extremophiles and Their Biotechnological Applications. , 2015, , 311-324.		0
759	Probing the â€˜bipolarâ€™ nature of the carbonic anhydrase active site: Aromatic sulfonamides containing 1,3-oxazol-5-yl moiety as picomolar inhibitors of cytosolic CA I and CA II isoforms. European Journal of Medicinal Chemistry, 2015, 101, 334-347.	2.6	48
760	Fluorinated pyrrolidines and piperidines incorporating tertiary benzenesulfonamide moieties are selective carbonic anhydrase II inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 737-745.	2.5	31
761	Discovery of potent carbonic anhydrase and acetylcholine esterase inhibitors: Novel sulfamoylcarbamates and sulfamides derived from acetophenones. Bioorganic and Medicinal Chemistry, 2015, 23, 3592-3602.	1.4	137
762	The Î²-carbonic anhydrase from the malaria mosquito Anopheles gambiae is highly inhibited by sulfonamides. Bioorganic and Medicinal Chemistry, 2015, 23, 2303-2309.	1.4	23
763	Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. Bioorganic and Medicinal Chemistry, 2015, 23, 2368-2376.	1.4	40
764	Designing carbonic anhydrase inhibitors for the treatment of breast cancer. Expert Opinion on Drug Discovery, 2015, 10, 591-597.	2.5	43
765	6-Substituted Sulfocoumarins Are Selective Carbonic Anhdydrase IX and XII Inhibitors with Significant Cytotoxicity against Colorectal Cancer Cells. Journal of Medicinal Chemistry, 2015, 58, 3975-3983.	2.9	87
766	Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII. Organic and Biomolecular Chemistry, 2015, 13, 6493-6499.	1.5	55
767	New amide derivatives of Probenecid as selective inhibitors of carbonic anhydrase IX and XII: Biological evaluation and molecular modelling studies. Bioorganic and Medicinal Chemistry, 2015, 23, 2975-2981.	1.4	32
768	7-Amino-3,4-dihydro-1H-quinolin-2-one, a compound similar to the substituted coumarins, inhibitsÎ±-carbonic anhydrases without hydrolysis of the lactam ring. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 773-777.	2.5	25
769	Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. Bioorganic and Medicinal Chemistry, 2015, 23, 1728-1734.	1.4	33
770	Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms Iâ€“XIV. Organic and Biomolecular Chemistry, 2015, 13, 6453-6457.	1.5	13
771	C-glycosides incorporating the 6-methoxy-2-naphthyl moiety are selective inhibitors of fungal and bacterial carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 857-861.	2.5	23
772	Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2377-2381.	1.0	37
773	N-Acylsulfonamides strongly inhibit human carbonic anhydrase isoenzymes I and II. Bioorganic and Medicinal Chemistry, 2015, 23, 2598-2605.	1.4	142
774	Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. Journal of Medicinal Chemistry, 2015, 58, 4039-4045.	2.9	31

#	Article	IF	Citations
775	Synthesis of novel acridine bis-sulfonamides with effective inhibitory activity against the carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 6573-6580.	1.4	27
776	Spirobisnaphthalenes effectively inhibit carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 31, 1-5.	2.5	24
777	Carbonic anhydrase IX inhibition is an effective strategy for osteosarcoma treatment. Expert Opinion on Therapeutic Targets, 2015, 19, 1593-1605.	1.5	28
778	Anion inhibition studies of the dandruff-producing fungus Malassezia globosa Î²-carbonic anhydrase MgCA. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5194-5198.	1.0	27
779	Inhibition of mammalian carbonic anhydrase isoforms Iâ€“XIV with a series of phenolic acid esters. Bioorganic and Medicinal Chemistry, 2015, 23, 7181-7188.	1.4	26
780	Discovery of 1,1â€²-Biphenyl-4-sulfonamides as a New Class of Potent and Selective Carbonic Anhydrase XIV Inhibitors. Journal of Medicinal Chemistry, 2015, 58, 8564-8572.	2.9	40
781	New natural product carbonic anhydrase inhibitors incorporating phenol moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 7219-7225.	1.4	43
782	Exploring new Probenecid-based carbonic anhydrase inhibitors: Synthesis, biological evaluation and docking studies. Bioorganic and Medicinal Chemistry, 2015, 23, 5311-5318.	1.4	45
783	Click-tailed coumarins with potent and selective inhibitory action against the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 6955-6966.	1.4	71
784	Ascaris lumbricoides Î² carbonic anhydrase: a potential target enzyme for treatment of ascariasis. Parasites and Vectors, 2015, 8, 479.	1.0	26
785	Carbonic anhydrase IX inhibitors in cancer therapy: an update. Future Medicinal Chemistry, 2015, 7, 1407-1414.	1.1	135
786	Phosphate Chemical Probes Designed for Location Specific Inhibition of Intracellular Carbonic Anhydrases. Journal of Medicinal Chemistry, 2015, 58, 7580-7590.	2.9	12
787	Isatin-pyrazole benzenesulfonamide hybrids potently inhibit tumor-associated carbonic anhydrase isoforms IX and XII. European Journal of Medicinal Chemistry, 2015, 103, 583-593.	2.6	92
788	Acetazolamide Protects Steatotic Liver Grafts against Cold Ischemia Reperfusion Injury. Journal of Pharmacology and Experimental Therapeutics, 2015, 355, 191-198.	1.3	16
789	Anion and sulfonamide inhibition studies of an Î±-carbonic anhydrase from the Antarctic hemoglobinless fish Chionodraco hamatus. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5485-5489.	1.0	2
790	Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against Î±-, Î²-, Î³- and Î·-class enzymes. Bioorganic and Medicinal Chemistry, 2015, 23, 6794-6798.	1.4	29
791	Efficient Expression and Crystallization System of Cancer-Associated Carbonic Anhydrase Isoform IX. Journal of Medicinal Chemistry, 2015, 58, 9004-9009.	2.9	141
792	Carbonic anhydrase and acetylcholinesterase inhibitory effects of carbamates and sulfamoylcarbamates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 316-320.	2.5	116

#	Article	IF	Citations
793	Sulfonamide inhibition studies of the Î-class carbonic anhydrase from the malaria pathogen Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2015, 23, 526-531.	1.4	52
794	Synthesis and Carbonic Anhydrase Isoenzymes I, II, IX, and XII Inhibitory Effects of Dimethoxybromophenol Derivatives Incorporating Cyclopropane Moieties. Journal of Medicinal Chemistry, 2015, 58, 640-650.	2.9	187
795	Carbonic anhydrase inhibitors: guaiacol and catechol derivatives effectively inhibit certain human carbonic anhydrase isoenzymes (hCA I, II, IX and XII). Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 586-591.	2.5	121
796	Inhibition studies of quinazoline-sulfonamide derivatives against the Î³-CA (PgiCA) from the pathogenic bacterium,Porphyromonas gingivalis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 592-596.	2.5	45
797	Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 689-721.	2.5	93
798	Inhibition of human carbonic anhydrase isozymes I, II, IX and XII with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 52-56.	2.5	40
799	Out of the active site binding pocket for carbonic anhydrase inhibitors. Chemical Communications, 2015, 51, 302-305.	2.2	111
800	6-Substituted 1,2-benzoxathiine-2,2-dioxides are isoform-selective inhibitors of human carbonic anhydrases IX, XII and VA. Organic and Biomolecular Chemistry, 2015, 13, 77-80.	1.5	39
801	Drosophila melanogaster: a model organism for controllingDipteranvectors and pests. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 505-513.	2.5	40
802	New series of sulfonamides containing amino acid moiety act as effective and selective inhibitors of tumor-associated carbonic anhydrase XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 430-434.	2.5	32
803	A new affinity gel for the purification ofÎ±-carbonic anhdrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 224-228.	2.5	19
804	Protonography, a new technique for the analysis of carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 277-282.	2.5	81
805	Synthesis and biological activity of novel thiourea derivatives as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 75-80.	2.5	69
806	An overview of the alpha-, beta- and gamma-carbonic anhydrases fromBacteria: can bacterial carbonic anhydrases shed new light on evolution of bacteria?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 325-332.	2.5	328
807	Recent advances in the discovery of zinc-binding motifs for the development of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 321-324.	2.5	74
808	Carbonic Anhydrases: An Overview. , 2015, , 3-13.		22
809	Structural Basis for the Inhibition of Helicobacter pylori Î±-Carbonic Anhydrase by Sulfonamides. PLoS ONE, 2015, 10, e0127149.	1.1	45
810	An Overview of the Selectivity and Efficiency of the Bacterial Carbonic Anhydrase Inhibitors. Current Medicinal Chemistry, 2015, 22, 2130-2139.	1.2	93

#	Article	IF	Citations
811	Dual Cyclooxygenase and Carbonic Anhydrase Inhibition by Nonsteroidal Anti-Inflammatory Drugs for the Treatment of Cancer. Current Medicinal Chemistry, 2015, 22, 2812-2818.	1.2	42
812	Biochemical characterization of the Î´-carbonic anhydrase from the marine diatomThalassiosira weissflogii, TweCA. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 906-911.	2.5	64
813	Sulfonamides and their isosters as carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2014, 6, 1149-1165.	1.1	172
814	Synthesis and evaluation of ¹⁸F-labeled carbonic anhydrase IX inhibitors for imaging with positron emission tomography. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 249-255.	2.5	63
815	Biomimetic CO₂ capture using a highly thermostable bacterial Î±-carbonic anhydrase immobilized on a polyurethane foam. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 146-150.	2.5	131
816	Carbonic anhydrase inhibitors. Phenols incorporating 2- or 3-pyridyl-ethenylcarbonyl and tertiary amine moieties strongly inhibitSaccharomyces cerevisiaeÎ²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 495-499.	2.5	48
817	Biochemical characterization of the Î³-carbonic anhydrase from the oral pathogen Porphyromonas gingivalis, PgiCA. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 532-537.	2.5	64
818	Monoclonal antibodies raised against 167â€“180 aa sequence of human carbonic anhydrase XII inhibit its enzymatic activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 804-810.	2.5	15
819	Natural Product Polyamines That Inhibit Human Carbonic Anhydrases. BioMed Research International, 2014, 2014, 1-6.	0.9	20
820	Hydrophobic Substituents of the Phenylmethylsulfamide Moiety Can Be Used for the Development of New Selective Carbonic Anhydrase Inhibitors. BioMed Research International, 2014, 2014, 1-11.	0.9	14
821	A Class of 4-Sulfamoylphenyl-ï‰-aminoalkyl Ethers with Effective Carbonic Anhydrase Inhibitory Action and Antiglaucoma Effects. Journal of Medicinal Chemistry, 2014, 57, 9673-9686.	2.9	46
822	Structural Insights on Carbonic Anhydrase Inhibitory Action, Isoform Selectivity, and Potency of Sulfonamides and Coumarins Incorporating Arylsulfonylureido Groups. Journal of Medicinal Chemistry, 2014, 57, 9152-9167.	2.9	55
823	Inhibition studies of new ureido-substituted sulfonamides incorporating a GABA moiety against human carbonic anhydrase isoforms Iâ€“XIV. Bioorganic and Medicinal Chemistry, 2014, 22, 6768-6775.	1.4	23
824	4-Functionalized 1,3-diarylpyrazoles bearing 6-aminosulfonylbenzothiazole moiety as potent inhibitors of carbonic anhydrase isoforms hCA I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 6945-6952.	1.4	21
825	The structural comparison between membraneâ€associated human carbonic anhydrases provides insights into drug design of selective inhibitors. Biopolymers, 2014, 101, 769-778.	1.2	44
826	Carbonic anhydrase inhibitory properties of novel sulfonamide derivatives of aminoindanes and aminotetralins. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 35-42.	2.5	110
827	Carbonic Anhydrase Inhibitors Drug Design. Sub-Cellular Biochemistry, 2014, 75, 291-323.	1.0	96
828	Carbonic anhydrase inhibitors: Synthesis and inhibition of the human carbonic anhydrase isoforms I, II, IX and XII with benzene sulfonamides incorporating 4- and 3-nitrophthalimide moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 1586-1595.	1.4	37

#	Article	IF	Citations
829	Carbonic anhydrase inhibitors: Synthesis, molecular docking, cytotoxic and inhibition of the human carbonic anhydrase isoforms I, II, IX, XII with novel benzenesulfonamides incorporating pyrrole, pyrrolopyrimidine and fused pyrrolopyrimidine moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 3684-3695.	1.4	54
830	Sulfonamide inhibition studies of the Î² carbonic anhydrase from Drosophila melanogaster. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2797-2801.	1.0	12
831	3D-QSAR CoMFA studies on sulfonamide inhibitors of the Rv3588c Î²-carbonic anhydrase from Mycobacterium tuberculosis and design of not yet synthesized new molecules. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 449-455.	2.5	43
832	Inhibition of mammalian carbonic anhydrases I-XIV with grayanotoxin III: solution and in silico studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 469-475.	2.5	33
833	Benzenesulfonamide bearing 1,2,4-triazole scaffolds as potent inhibitors of tumor associated carbonic anhydrase isoforms hCA IX and hCA XII. Bioorganic and Medicinal Chemistry, 2014, 22, 1873-1882.	1.4	44
834	Anion inhibition study of the Î²-carbonic anhydrase (CahB1) from the cyanobacterium Coleofasciculus chthonoplastes (ex-Microcoleus chthonoplastes). Bioorganic and Medicinal Chemistry, 2014, 22, 1667-1671.	1.4	25
835	6-Triazolyl-substituted sulfocoumarins are potent, selective inhibitors of the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1256-1260.	1.0	61
836	A Smallâ€Molecule Drug Conjugate for the Treatment of Carbonic Anhydrase IX Expressing Tumors. Angewandte Chemie - International Edition, 2014, 53, 4231-4235.	7.2	242
837	Carbonic anhydrase inhibitors. Inhibition of human cytosolic isoforms I and II with (reduced) Schiffâ€™s bases incorporating sulfonamide, carboxylate and carboxymethyl moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 2867-2874.	1.4	22
838	Experimental analysis on the performance of lithium based batteries for road full electric and hybrid vehicles. Applied Energy, 2014, 136, 921-930.	5.1	131
839	Structure-based screening for the discovery of new carbonic anhydrase VII inhibitors. European Journal of Medicinal Chemistry, 2014, 71, 105-111.	2.6	50
840	Combining the tail and the ring approaches for obtaining potent and isoform-selective carbonic anhydrase inhibitors: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2014, 22, 334-340.	1.4	104
841	Sulfonamide inhibition studies of two Î²-carbonic anhydrases from the bacterial pathogen Legionella pneumophila. Bioorganic and Medicinal Chemistry, 2014, 22, 2939-2946.	1.4	43
842	Dual carbonic anhydrase/matrix metalloproteinase inhibitors incorporating bisphosphonic acid moieties targeting bone tumors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2617-2620.	1.0	23
843	4-Functionalized 1,3-diarylpyrazoles bearing benzenesulfonamide moiety as selective potent inhibitors of the tumor associated carbonic anhydrase isoforms IX and XII. European Journal of Medicinal Chemistry, 2014, 76, 284-290.	2.6	48
844	Inhibition of carbonic anhydrases from the extremophilic bacteria Sulfurihydrogenibium yellostonense (SspCA) and S. azorense (SazCA) with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 141-147.	1.4	42
845	Sulfonamide inhibition studies of the Î´-carbonic anhydrase from the diatom Thalassiosira weissflogii. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 275-279.	1.0	49
846	Cloning, characterization and anion inhibition study of the Î´-class carbonic anhydrase (TweCA) from the marine diatom Thalassiosira weissflogii. Bioorganic and Medicinal Chemistry, 2014, 22, 531-537.	1.4	64

#	Article	IF	Citations
847	Structural Insights into Carbonic Anhydrase IX Isoform Specificity of Carbohydrate-Based Sulfamates. Journal of Medicinal Chemistry, 2014, 57, 8635-8645.	2.9	50
848	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with novel Schiff bases: Identification of selective inhibitors for the tumor-associated isoforms over the cytosolic ones. Bioorganic and Medicinal Chemistry, 2014, 22, 5883-5890.	1.4	13
849	Carbonic anhydrase inhibitory activity of sulfonamides and carboxylic acids incorporating cyclic imide scaffolds. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5185-5189.	1.0	47
850	Shading the TRF2 Recruiting Function: A New Horizon in Drug Development. Journal of the American Chemical Society, 2014, 136, 16708-16711.	6.6	23
851	Quinazolineâ€“sulfonamides with potent inhibitory activity against the Î±-carbonic anhydrase from Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2014, 22, 5133-5140.	1.4	41
852	Mono- and di-halogenated histamine, histidine and carnosine derivatives are potent carbonic anhydrase I, II, VII, XII and XIV activators. Bioorganic and Medicinal Chemistry, 2014, 22, 4752-4758.	1.4	20
853	Discovery of a new family of carbonic anhydrases in the malaria pathogen Plasmodium falciparum â€”The Î-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4389-4396.	1.0	297
854	Immobilization of carbonic anhydrase for biomimetic CO2 capture in slurry absorber. New Biotechnology, 2014, 31, S20-S21.	2.4	2
855	Cyclic tertiary sulfamates: Selective inhibition of the tumor-associated carbonic anhydrases IX and XII by N- and O-substituted acesulfame derivatives. European Journal of Medicinal Chemistry, 2014, 84, 240-246.	2.6	40
856	Synthesis of a new series of N4-substituted 4-(2-aminoethyl)benzenesulfonamides and their inhibitory effect on human carbonic anhydrase cytosolic isozymes I and II and transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2014, 84, 59-67.	2.6	17
857	Ethylene bis-imidazoles are highly potent and selective activators for isozymes VA and VII of carbonic anhydrase, with a potential nootropic effect. Chemical Communications, 2014, 50, 5980-5983.	2.2	48
858	Crystal structures of two tetrameric Î²â€carbonic anhydrases from the filamentous ascomycete SordariaÂmacrospora. FEBS Journal, 2014, 281, 1759-1772.	2.2	40
859	Furazan and furoxan sulfonamides are strong Î±-carbonic anhydrase inhibitors and potential antiglaucoma agents. Bioorganic and Medicinal Chemistry, 2014, 22, 3913-3921.	1.4	32
860	Synthesis of sulfonamides with effective inhibitory action against Porphyromonas gingivalis Î³-carbonic anhydrase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4006-4010.	1.0	21
861	Attachment of carbohydrates to methoxyaryl moieties leads to highly selective inhibitors of the cancer associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 5308-5314.	1.4	28
862	Anion inhibition study of the Î²-class carbonic anhydrase (PgiCAb) from the oral pathogen Porphyromonas gingivalis. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4402-4406.	1.0	28
863	Sulfonamides with Potent Inhibitory Action and Selectivity against the Î±-Carbonic Anhydrase from Vibrio cholerae. ACS Medicinal Chemistry Letters, 2014, 5, 826-830.	1.3	23
864	Synthesis of 6-tetrazolyl-substituted sulfocoumarins acting as highly potent and selective inhibitors of the tumor-associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 1522-1528.	1.4	50

#	Article	IF	Citations
865	Chemometric modeling of breast cancer associated carbonic anhydrase IX inhibitors belonging to the ureido-substituted benzene sulfonamide class. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 877-883.	2.5	8
866	Sulfonamides incorporating fluorine and 1,3,5-triazine moieties are effective inhibitors of threeÎ²-class carbonic anhydrases fromMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 686-689.	2.5	44
867	Selective inhibition of human carbonic anhydrases by novel amide derivatives of probenecid: Synthesis, biological evaluation and molecular modelling studies. Bioorganic and Medicinal Chemistry, 2014, 22, 3982-3988.	1.4	38
868	Sulfonamide inhibition study of the carbonic anhydrases from the bacterial pathogen Porphyromonas gingivalis: The Î²-class (PgiCAb) versus the Î³-class (PgiCA) enzymes. Bioorganic and Medicinal Chemistry, 2014, 22, 4537-4543.	1.4	34
869	Substituted benzene sulfonamides incorporating 1,3,5-triazinyl moieties potently inhibit human carbonic anhydrases II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1310-1314.	1.0	20
870	Anion inhibition studies of two new Î²-carbonic anhydrases from the bacterial pathogen Legionella pneumophila. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1127-1132.	1.0	49
871	Arylamino bisphosphonates: Potent and selective inhibitors of the tumor-associated carbonic anhydrase XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1941-1943.	1.0	12
872	Synthesis and carbonic anhydrase I, II, IX and XII inhibition studies of 4-N,N-disubstituted sulfanilamides incorporating 4,4,4-trifluoro-3-oxo-but-1-enyl, phenacylthiourea and imidazol-2(3H)-one/thione moieties. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1776-1779.	1.0	24
873	Carbonic anhydrase inhibitors. Synthesis of a novel series of 5-substituted 2,4-dichlorobenzenesulfonamides and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2014, 82, 47-55.	2.6	18
874	Carbonic anhydrase inhibitors. Synthesis, and molecular structure of novel series N-substituted Nâ€²-(2-arylmethylthio-4-chloro-5-methylbenzenesulfonyl)guanidines and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2014, 71, 135-147.	2.6	61
875	Anion inhibition studies of two Î±-carbonic anhydrases from Lotus japonicus, LjCAA1 and LjCAA2. Journal of Inorganic Biochemistry, 2014, 136, 67-72.	1.5	18
876	Oxidation of cyanobenzocycloheptatrienes: Synthesis, photooxygenation reaction and carbonic anhydrase isoenzymes inhibition properties of some new benzotropone derivatives. Bioorganic and Medicinal Chemistry, 2014, 22, 3537-3543.	1.4	110
877	Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the oral pathogen Porphyromonas gingivalis. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 240-244.	1.0	50
878	Design, Synthesis, and Evaluation of Hydroxamic Acid Derivatives as Promising Agents for the Management of Chagas Disease. Journal of Medicinal Chemistry, 2014, 57, 298-308.	2.9	69
879	Dominant behaviours in the expression of human carbonic anhydrase hCA I activity. Chemical Communications, 2014, 50, 8043-8046.	2.2	16
880	Carbonic Anhydrase Inhibition with Benzenesulfonamides and Tetrafluorobenzenesulfonamides Obtained via Click Chemistry. ACS Medicinal Chemistry Letters, 2014, 5, 927-930.	1.3	48
881	Biochemical characterization of the chloroplastic Î²-carbonic anhydrase from Flaveria bidentis (L.) â€œKuntzeâ€• Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 500-504.	2.5	19
882	Sulfa and trimethoprim-like drugs â€“ antimetabolites acting as carbonic anhydrase, dihydropteroate synthase and dihydrofolate reductase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 379-387.	2.5	255

#	Article	IF	Citations
883	Biochemical properties of a newÎ±-carbonic anhydrase from the human pathogenic bacterium,Vibrio cholerae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 23-27.	2.5	90
884	Novel coumarins and benzocoumarins acting as isoform-selective inhibitors against the tumor-associated carbonic anhydrase IX. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 292-296.	2.5	84
885	Targeting Carbonic Anhydrases. , 2014, , .		9
886	Experimental Analysis of a Zebra Battery Based Propulsion System for Urban Bus under Dynamic Conditions. Energy Procedia, 2014, 61, 1138-1141.	1.8	7
887	Glaucoma and the Applications of Carbonic Anhydrase Inhibitors. Sub-Cellular Biochemistry, 2014, 75, 349-359.	1.0	114
888	The role of carbonic anhydrase IX in hypoxia control in OSCC. Journal of Oral Pathology and Medicine, 2013, 42, 1-8.	1.4	18
889	Secondary/tertiary benzenesulfonamides with inhibitory action against the cytosolic human carbonic anhydrase isoforms I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 294-298.	2.5	76
890	Targeting carbonic anhydrase IX by nitroimidazole based sulfamides enhances the therapeutic effect of tumor irradiation: A new concept of dual targeting drugs. Radiotherapy and Oncology, 2013, 108, 523-528.	0.3	80
891	Hypoxia induced CA9 inhibitory targeting by two different sulfonamide derivatives including Acetazolamide in human Glioblastoma. Bioorganic and Medicinal Chemistry, 2013, 21, 3949-3957.	1.4	51
892	Carbonic anhydrase inhibitors. Benzenesulfonamides incorporating cyanoacrylamide moieties strongly inhibit Saccharomyces cerevisiae Î²-carbonic anhydrase. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3570-3575.	1.0	18
893	5-Substituted-(1,2,3-triazol-4-yl)thiophene-2-sulfonamides strongly inhibit human carbonic anhydrases I, II, IX and XII: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2013, 21, 5130-5138.	1.4	31
894	A Class of Sulfonamides with Strong Inhibitory Action against the Î±-Carbonic Anhydrase from Trypanosoma cruzi. Journal of Medicinal Chemistry, 2013, 56, 5773-5781.	2.9	56
895	Effect of a recombinant manganese superoxide dismutase on prevention of contrast-induced acute kidney injury. Clinical and Experimental Nephrology, 2013, 18, 424-31.	0.7	46
896	Synthesis of novel acridine and bis acridine sulfonamides with effective inhibitory activity against the cytosolic carbonic anhydrase isoforms II and VII. Bioorganic and Medicinal Chemistry, 2013, 21, 5799-5805.	1.4	33
897	Analysis of saponins and phenolic compounds as inhibitors of Î±-carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 412-417.	2.5	51
898	Carbonic anhydrase inhibitors: Synthesis and inhibition of the human carbonic anhydrase isoforms I, II, VII, IX and XII with benzene sulfonamides incorporating 4,5,6,7-tetrabromophthalimide moiety. Bioorganic and Medicinal Chemistry, 2013, 21, 5973-5982.	1.4	25
899	Inhibition of the Î²-carbonic anhydrases from Mycobacterium tuberculosis with C-cinnamoyl glycosides: Identification of the first inhibitor with anti-mycobacterial activity. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 740-743.	1.0	50
900	Anion inhibition studies of a Î²-carbonic anhydrase from Clostridium perfringens. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6706-6710.	1.0	46

#	Article	IF	Citations
901	QSAR studies of sulfamate and sulfamide inhibitors targeting human carbonic anhydrase isozymes I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1404-1409.	1.4	9
902	Structural study of interaction between brinzolamide and dorzolamide inhibition of human carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 7210-7215.	1.4	98
903	Salen and tetrahydrosalen derivatives act as effective inhibitors of the tumor-associated carbonic anhydrase XIIâ€"A new scaffold for designing isoform-selective inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6759-6763.	1.0	41
904	Carbonic anhydrase inhibitors. Synthesis of heterocyclic 4-substituted pyridine-3-sulfonamide derivatives and their inhibition of the human cytosolic isozymes I and II and transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2013, 69, 701-710.	2.6	37
905	Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2013, 8, 793-810.	2.5	229
906	Effect of incorporating a thiophene tail in the scaffold of acetazolamide on the inhibition of human carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5646-5649.	1.0	23
907	Restoring catalytic activity to the human carbonic anhydrase (CA) related proteins VIII, X and XI affords isoforms with high catalytic efficiency and susceptibility to anion inhibition. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 256-260.	1.0	42
908	Carbonic anhydrase inhibitors: Synthesis and inhibition of the cytosolic mammalian carbonic anhydrase isoforms I, II and VII with benzene sulfonamides incorporating 4,5,6,7-tetrachlorophthalimide moiety. Bioorganic and Medicinal Chemistry, 2013, 21, 5168-5174.	1.4	18
909	Carbonic anhydrase regulation and CO2 sensing in the fungal pathogen Candida glabrata involves a novel Rca1p ortholog. Bioorganic and Medicinal Chemistry, 2013, 21, 1549-1554.	1.4	44
910	Inhibition of the alpha- and beta-carbonic anhydrases from the gastric pathogenHelycobacter pyloriwith anions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 388-391.	2.5	88
911	Glycosidic carbonic anhydrase IX inhibitors: A sweet approach against cancer. Bioorganic and Medicinal Chemistry, 2013, 21, 1419-1426.	1.4	58
912	Sulfocoumarins (1,2-Benzoxathiine-2,2-dioxides): A Class of Potent and Isoform-Selective Inhibitors of Tumor-Associated Carbonic Anhydrases. Journal of Medicinal Chemistry, 2013, 56, 293-300.	2.9	199
913	Kinetic and in silico analysis of thiazolidin-based inhibitors of Î±-carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 370-374.	2.5	14
914	Carbonic anhydrases in anthozoan coralsâ€"A review. Bioorganic and Medicinal Chemistry, 2013, 21, 1437-1450.	1.4	174
915	Heavy metal ion inhibition studies of human, sheep and fish Î±-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 278-282.	2.5	38
916	Effect of sulfonamides as carbonic anhydrase VA and VB inhibitors on mitochondrial metabolic energy conversion. Bioorganic and Medicinal Chemistry, 2013, 21, 1544-1548.	1.4	97
917	Pharmacological inhibition of carbonic anhydrase XII interferes with cell proliferation and induces cell apoptosis in T-cell lymphomas. Cancer Letters, 2013, 333, 76-88.	3.2	47
918	Structural study of the location of the phenyl tail of benzene sulfonamides and the effect on human carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2013, 21, 6674-6680.	1.4	12

#	Article	IF	Citations
919	An Î±-carbonic anhydrase from the thermophilic bacterium Sulphurihydrogenibium azorense is the fastest enzyme known for the CO2 hydration reaction. Bioorganic and Medicinal Chemistry, 2013, 21, 1465-1469.	1.4	121
920	The extremo-Î±-carbonic anhydrase (CA) from Sulfurihydrogenibium azorense, the fastest CA known, is highly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1087-1090.	1.0	55
921	o-Benzenedisulfonimidoâ€“sulfonamides are potent inhibitors of the tumor-associated carbonic anhydrase isoforms CA IX and CA XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1386-1391.	1.4	20
922	Characterization of Carbonic Anhydrase IX Interactome Reveals Proteins Assisting Its Nuclear Localization in Hypoxic Cells. Journal of Proteome Research, 2013, 12, 282-292.	1.8	43
923	Antiobesity carbonic anhydrase inhibitors: a literature and patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 725-735.	2.4	246
924	Inhibition of human carbonic anhydrase isoforms Iâ€“XIV with sulfonamides incorporating fluorine and 1,3,5-triazine moieties. Bioorganic and Medicinal Chemistry, 2013, 21, 6929-6936.	1.4	18
925	Kinetic and anion inhibition studies of a Î²-carbonic anhydrase (FbiCA 1) from the C4 plant Flaveria bidentis. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1626-1630.	1.0	38
926	Carbonic anhydrase inhibitors: Inhibition of the Î²-class enzyme from the pathogenic yeast Candida glabrata with sulfonamides, sulfamates and sulfamides. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2647-2652.	1.0	43
927	Inhibition of tumor-associated human carbonic anhydrase isozymes IX and XII by a new class of substituted-phenylacetamido aromatic sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 5228-5232.	1.4	20
928	A highly catalytically active Î³-carbonic anhydrase from the pathogenic anaerobe Porphyromonas gingivalis and its inhibition profile with anions and small molecules. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4067-4071.	1.0	62
929	The extremo-Î±-carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium azorense is highly inhibited by sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 4521-4525.	1.4	68
930	Cloning, Characterization, and Sulfonamide and Thiol Inhibition Studies of an Î±-Carbonic Anhydrase fromTrypanosoma cruzi, the Causative Agent of Chagas Disease. Journal of Medicinal Chemistry, 2013, 56, 1761-1771.	2.9	89
931	Anti-infective carbonic anhydrase inhibitors: a patent and literature review. Expert Opinion on Therapeutic Patents, 2013, 23, 693-704.	2.4	203
932	Diuretics with carbonic anhydrase inhibitory action: a patent and literature review (2005 â€“ 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 681-691.	2.4	252
933	Structural effect of phenyl ring compared to thiadiazole based adamantyl-sulfonamides on carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2013, 21, 2314-2318.	1.4	20
934	Carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 1377-1378.	1.4	92
935	Characterization, bioinformatic analysis and dithiocarbamate inhibition studies of two new Î±-carbonic anhydrases, CAH1 and CAH2, from the fruit fly Drosophila melanogaster. Bioorganic and Medicinal Chemistry, 2013, 21, 1516-1521.	1.4	19
936	Metalloenzyme inhibitors for the treatment of Gram-negative bacterial infections: a patent review (2009 â€“ 2012). Expert Opinion on Therapeutic Patents, 2013, 23, 777-788.	2.4	31

#	Article	IF	Citations
937	The alpha-carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium yellowstonense YO3AOP1 is highly susceptible to inhibition by sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 1534-1538.	1.4	54
938	Carbonic anhydrase inhibitors: Benzenesulfonamides incorporating cyanoacrylamide moieties are low nanomolar/subnanomolar inhibitors of the tumor-associated isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1396-1403.	1.4	48
939	Secondary and tertiary sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2013, 23, 203-213.	2.4	79
940	Natural product coumarins that inhibit human carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 1539-1543.	1.4	97
941	Novel small molecule protein arginine deiminase 4 (PAD4) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 715-719.	1.0	32
942	Nothepsin. , 2013, , 63-69.		0
943	Dihalogenated sulfanilamides and benzolamides are effective inhibitors of the three Î²-class carbonic anhydrases from Mycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 384-387.	2.5	73
944	Dithiocarbamates strongly inhibit the Î²-class carbonic anhydrases fromMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 407-411.	2.5	125
945	Inhibition of the Î²-class carbonic anhydrases fromMycobacterium tuberculosiswith carboxylic acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 392-396.	2.5	73
946	Synthesis and carbonic anhydrase inhibitory properties of sulfamides structurally related to dopamine. Bioorganic and Medicinal Chemistry, 2013, 21, 2925-2931.	1.4	120
947	Anion inhibition studies of the Î±-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1636-1638.	1.0	54
948	Sperm from Sneaker Male Squids Exhibit Chemotactic Swarming to CO2. Current Biology, 2013, 23, 775-781.	1.8	50
949	Antiglaucoma carbonic anhydrase inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 705-716.	2.4	273
950	Root Effect Hemoglobin May Have Evolved to Enhance General Tissue Oxygen Delivery. Science, 2013, 340, 1327-1329.	6.0	130
951	Natural product hybrid and its superacid synthesized analogues: Dodoneine and its derivatives show selective inhibition of carbonic anhydrase isoforms I, III, XIII and XIV. Bioorganic and Medicinal Chemistry, 2013, 21, 3790-3794.	1.4	18
952	Xanthates and Trithiocarbonates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Effects in Vivo. Journal of Medicinal Chemistry, 2013, 56, 4691-4700.	2.9	91
953	7-Substituted-sulfocoumarins are isoform-selective, potent carbonic anhydrase II inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 4502-4510.	1.4	70
954	Anticancer carbonic anhydrase inhibitors: a patent review (2008 â€“ 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 737-749.	2.4	226

#	Article	IF	Citations
955	Mono-/dihydroxybenzoic acid esters and phenol pyridinium derivatives as inhibitors of the mammalian carbonic anhydrase isoforms I, II, VII, IX, XII and XIV. Bioorganic and Medicinal Chemistry, 2013, 21, 1564-1569.	1.4	50
956	Anion inhibition studies of the Î±-carbonic anhydrase from the protozoan pathogen Trypanosoma cruzi, the causative agent of Chagas disease. Bioorganic and Medicinal Chemistry, 2013, 21, 4472-4476.	1.4	49
957	Kinetic study of a novel thermo-stable Î±-carbonic anhydrase for biomimetic CO2 capture. Enzyme and Microbial Technology, 2013, 53, 271-277.	1.6	35
958	New strategies for targeting the hypoxic tumour microenvironment in breast cancer. Cancer Treatment Reviews, 2013, 39, 171-179.	3.4	167
959	Hypoxia-Targeting Carbonic Anhydrase IX Inhibitors by a New Series of Nitroimidazole-Sulfonamides/Sulfamides/Sulfamates. Journal of Medicinal Chemistry, 2013, 56, 8512-8520.	2.9	76
960	Carbonic anhydrases: from biomedical applications of the inhibitors and activators to biotechnological use for CO2 capture. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 229-230.	2.5	278
961	Carbonic anhydrase inhibitors:in vitroinhibition of Î± isoforms (hCA I, hCA II, bCA III, hCA IV) by flavonoids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 283-288.	2.5	102
962	Cloning, Characterization, and Inhibition Studies of a Î²-Carbonic Anhydrase from Leishmania donovani chagasi, the Protozoan Parasite Responsible for Leishmaniasis. Journal of Medicinal Chemistry, 2013, 56, 7372-7381.	2.9	87
963	Carbonic anhydrase III: A neglected isozyme is stepping into the limelight. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 231-239.	2.5	78
964	A new recombinant MnSOD prevents the Cyclosporine A-induced renal impairment. Nephrology Dialysis Transplantation, 2013, 28, 2066-2072.	0.4	31
965	Human carbonic anhydrase VII protects cells from oxidative damage. Biological Chemistry, 2013, 394, 1343-1348.	1.2	30
966	Metronidazole-coumarin conjugates and 3-cyano-7-hydroxy-coumarin act as isoform-selective carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 397-401.	2.5	90
967	X-ray structure of the first `extremo-Î±-carbonic anhydrase', a dimeric enzyme from the thermophilic bacteriumSulfurihydrogenibium yellowstonenseYO3AOP1. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1150-1159.	2.5	100
968	Novel antibody to a carbonic anhydrase: patent evaluation of WO2011138279A1. Expert Opinion on Therapeutic Patents, 2013, 23, 757-760.	2.4	6
969	Synthesis of aminocyanopyrazoles via a multi-component reaction and anti-carbonic anhydrase inhibitory activity of their sulfamide derivatives against cytosolic and transmembrane isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 343-349.	2.5	24
970	Carbonic anhydrase inhibitors: an editorial. Expert Opinion on Therapeutic Patents, 2013, 23, 677-679.	2.4	125
971	Amide derivatives of benzene-sulfonanilide, pharmaceutical composition thereof and method for cancer treatment using the same (US20120095092). Expert Opinion on Therapeutic Patents, 2012, 22, 1251-1255.	2.4	4
972	A new approach to antiglaucoma drugs: carbonic anhydrase inhibitors with or without NO donating moieties. Mechanism of action and preliminary pharmacology. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 138-147.	2.5	150

#	Article	IF	Citations
973	Microbial Enzyme: Applications in Industry and in Bioremediation. Enzyme Research, 2012, 2012, 1-2.	1.8	15
974	Inhibition of V-ATPase and Carbonic Anhydrases as Interference Strategy with Tumor Acidification Processes. Current Pharmaceutical Design, 2012, 18, 1407-1413.	0.9	16
975	Tricyclic Sulfonamides Incorporating Benzothiopyrano[4,3-c]pyrazole and Pyridothiopyrano[4,3-c]pyrazole Effectively Inhibit Î±- and Î²-Carbonic Anhydrase: X-ray Crystallography and Solution Investigations on 15 Isoforms. Journal of Medicinal Chemistry, 2012, 55, 9619-9629.	2.9	35
976	Antimetastatic Effect of Sulfamate Carbonic Anhydrase IX Inhibitors in Breast Carcinoma Xenografts. Journal of Medicinal Chemistry, 2012, 55, 5591-5600.	2.9	149
977	DNA Cloning, Characterization, and Inhibition Studies of an Î±-Carbonic Anhydrase from the Pathogenic Bacterium Vibrio cholerae. Journal of Medicinal Chemistry, 2012, 55, 10742-10748.	2.9	103
978	Carbonic Anhydrases inhibitory effects of new benzenesulfonamides synthesized by using superacid chemistry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 886-891.	2.5	71
979	Anion inhibition studies of the fastest carbonic anhydrase (CA) known, the extremo-CA from the bacterium Sulfurihydrogenibium azorense. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 7142-7145.	1.0	69
980	Chromone containing sulfonamides as potent carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 744-747.	2.5	42
981	Inhibition of Î±-class cytosolic human carbonic anhydrases I, II, IX and XII, and Î²-class fungal enzymes by carboxylic acids and their derivatives: New isoform-I selective nanomolar inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5801-5806.	1.0	35
982	The first activation study of a bacterial carbonic anhydrase (CA). The thermostable Î±-CA from Sulfurihydrogenibium yellowstonense YO3AOP1 is highly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6324-6327.	1.0	73
983	Upcoming conferences of interest. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 166-166.	2.5	0
984	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. Chemical Communications, 2012, 48, 1868.	2.2	157
985	Synthesis, Structureâ€“Activity Relationship Studies, and X-ray Crystallographic Analysis of Arylsulfonamides as Potent Carbonic Anhydrase Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 3891-3899.	2.9	24
986	Î±-Carbonic anhydrases are sulfatases with cyclic diol monosulfate esters. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 148-154.	2.5	68
987	Polypharmacology of sulfonamides: pazopanib, a multitargeted receptor tyrosine kinase inhibitor in clinical use, potently inhibits several mammalian carbonic anhydrases. Chemical Communications, 2012, 48, 8177.	2.2	66
988	Serendipitous fragment-based drug discovery: ketogenic diet metabolites and statins effectively inhibit several carbonic anhydrases. Chemical Communications, 2012, 48, 3551.	2.2	22
989	Effects of dopaminergic compounds on carbonic anhydrase isozymes I, II, and VI. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 365-369.	2.5	33
990	QSARs on human carbonic anhydrase VA and VB inhibitors of some new not yet synthesized, substituted aromatic/heterocyclic sulphonamides as anti-obesity agent. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 666-672.	2.5	24

#	Article	IF	Citations
991	Biochemical properties of a novel and highly thermostable bacterial Î±-carbonic anhydrase fromSulfurihydrogenibium yellowstonense YO3AOP1. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 892-897.	2.5	111
992	Molecular Cloning, Characterization, and Inhibition Studies of a Î²-Carbonic Anhydrase from Malassezia globosa, a Potential Antidandruff Target. Journal of Medicinal Chemistry, 2012, 55, 3513-3520.	2.9	52
993	CO₂permeability of cell membranes is regulated by membrane cholesterol and protein gas channels. FASEB Journal, 2012, 26, 5182-5191.	0.2	88
994	(In)organic anions as carbonic anhydrase inhibitors. Journal of Inorganic Biochemistry, 2012, 111, 117-129.	1.5	186
995	Structural and inhibition insights into carbonic anhydrase CDCA1 from the marine diatom Thalassiosira weissflogii. Biochimie, 2012, 94, 1232-1241.	1.3	100
996	Ureido-substituted sulfamates show potent carbonic anhydrase IX inhibitory and antiproliferative activities against breast cancer cell lines. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4681-4685.	1.0	57
997	Anion inhibition studies of an Î±-carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium yellowstonense YO3AOP1. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5630-5634.	1.0	77
998	Rational drug repositioning guided by an integrated pharmacological network of protein, disease and drug. BMC Systems Biology, 2012, 6, 80.	3.0	75
999	Development of Potent Carbonic Anhydrase Inhibitors Incorporating Both Sulfonamide and Sulfamide Groups. Journal of Medicinal Chemistry, 2012, 55, 6776-6783.	2.9	52
1000	Dual Inhibitors for Aspartic Proteases HIV-1 PR and Renin: Advancements in AIDSâ€“Hypertensionâ€“Diabetes Linkage via Molecular Dynamics, Inhibition Assays, and Binding Free Energy Calculations. Journal of Medicinal Chemistry, 2012, 55, 5784-5796.	2.9	37
1001	Dithiocarbamates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Action in Vivo. Journal of Medicinal Chemistry, 2012, 55, 1721-1730.	2.9	211
1002	Toxicity, Accumulation, and Removal of Heavy Metals by Three Aquatic Macrophytes. International Journal of Phytoremediation, 2012, 14, 374-387.	1.7	94
1003	Structure-based drug discovery of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 759-772.	2.5	554
1004	Simple methanesulfonates are hydrolyzed by the sulfatase carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 880-885.	2.5	54
1005	Sulfapyridine-like benzenesulfonamide derivatives as inhibitors of carbonic anhydrase isoenzymes I, II and VI. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 818-824.	2.5	51
1006	Carbonic anhydrase inhibitors: inhibition of human and bovine isoenzymes by benzenesulphonamides, cyclitols and phenolic compounds. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 845-848.	2.5	72
1007	Inhibition of carbonic anhydrase IX as a novel anticancer mechanism. World Journal of Clinical Oncology, 2012, 3, 98.	0.9	79
1008	Novel therapies for glaucoma: a patent review 2007 â€“ 2011. Expert Opinion on Therapeutic Patents, 2012, 22, 79-88.	2.4	121

#	Article	IF	Citations
1009	Proteinâ€“Protein Interactions: Inhibition of Mammalian Carbonic Anhydrases Iâ€“XV by the Murine Inhibitor of Carbonic Anhydrase and Other Members of the Transferrin Family. Journal of Medicinal Chemistry, 2012, 55, 5529-5535.	2.9	27
1010	Multiple Binding Modes of Inhibitors to Carbonic Anhydrases: How to Design Specific Drugs Targeting 15 Different Isoforms?. Chemical Reviews, 2012, 112, 4421-4468.	23.0	1,056
1011	Synthesis, characterization and biological studies of sulfonamide Schiffâ€™s bases and some of their metal derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 58-68.	2.5	52
1012	Hydroxamate represents a versatile zinc binding group for the development of new carbonic anhydrase inhibitors. Chemical Communications, 2012, 48, 8838.	2.2	63
1013	Inhibition of carbonic anhydrase isozymes I and II with natural products extracted from plants, mushrooms and honey. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 395-402.	2.5	37
1014	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. Expert Opinion on Emerging Drugs, 2012, 17, 11-15.	1.0	75
1015	Sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2012, 22, 747-758.	2.4	201
1016	Cloning, characterization and sulfonamide inhibition studies of an Î±-carbonic anhydrase from the living fossil sponge Astrosclera willeyana. Bioorganic and Medicinal Chemistry, 2012, 20, 1403-1410.	1.4	8
1017	Novel coumarins and 2-thioxo-coumarins as inhibitors of the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2012, 20, 2266-2273.	1.4	109
1018	Synthesis and evaluation of near-infrared fluorescent sulfonamide derivatives for imaging of hypoxia-induced carbonic anhydrase IX expression in tumors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 653-657.	1.0	48
1019	5- and 6-Membered (thio)lactones are prodrug type carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 267-270.	1.0	61
1020	Dithiocarbamates are strong inhibitors of the beta-class fungal carbonic anhydrases from Cryptococcus neoformans, Candida albicans and Candida glabrata. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 859-862.	1.0	97
1021	Anion inhibition studies of an Î±-carbonic anhydrase from the living fossil Astrosclera willeyana. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1314-1316.	1.0	6
1022	Carbonic anhydrase VII is S-glutathionylated without loss of catalytic activity and affinity for sulfonamide inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1560-1564.	1.0	53
1023	New chemotypes acting as isozyme-selective carbonic anhydrase inhibitors with low affinity for the offtarget cytosolic isoform II. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2182-2185.	1.0	49
1024	A Molecular Carrier to Transport and Deliver Cisplatin into Endometrial Cancer Cells. Chemical Biology and Drug Design, 2012, 80, 9-16.	1.5	5
1025	Inhibition of beta-carbonic anhydrases from the bacterial pathogen Brucella suis with inorganic anions. Journal of Inorganic Biochemistry, 2012, 110, 36-39.	1.5	29
1026	Recent Developments in Targeting Carbonic Anhydrase IX for Cancer Therapeutics. Oncotarget, 2012, 3, 84-97.	0.8	365

#	Article	IF	Citations
1027	Characterization and inhibition studies of an Î±-carbonic anhydrase from the endangered sturgeon speciesAcipenser gueldenstaedti. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 895-900.	2.5	51
1028	Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of N-substituted benzenesulfonamides to human isoform II. Chemical Communications, 2011, 47, 11636.	2.2	50
1029	Interfering with pH regulation in tumours as a therapeutic strategy. Nature Reviews Drug Discovery, 2011, 10, 767-777.	21.5	1,340
1030	Natural Product-Based Phenols as Novel Probes for Mycobacterial and Fungal Carbonic Anhydrases. Journal of Medicinal Chemistry, 2011, 54, 1682-1692.	2.9	95
1031	Anticonvulsant 4-Aminobenzenesulfonamide Derivatives with Branched-Alkylamide Moieties: X-ray Crystallography and Inhibition Studies of Human Carbonic Anhydrase Isoforms I, II, VII, and XIV. Journal of Medicinal Chemistry, 2011, 54, 3977-3981.	2.9	69
1032	Glycosyl Coumarin Carbonic Anhydrase IX and XII Inhibitors Strongly Attenuate the Growth of Primary Breast Tumors. Journal of Medicinal Chemistry, 2011, 54, 8271-8277.	2.9	228
1033	Structural Basis for the Interaction Between Carbonic Anhydrase and 1,2,3,4-tetrahydroisoquinolin-2-ylsulfonamides. Journal of Medicinal Chemistry, 2011, 54, 2522-2526.	2.9	36
1034	Selection of Carbonic Anhydrase IX Inhibitors from One Million DNA-Encoded Compounds. ACS Chemical Biology, 2011, 6, 336-344.	1.6	129
1035	Targeting Tumor Hypoxia: Suppression of Breast Tumor Growth and Metastasis by Novel Carbonic Anhydrase IX Inhibitors. Cancer Research, 2011, 71, 3364-3376.	0.4	662
1036	Carbonic anhydrase inhibitors: purification and inhibition studies of pigeon (Columba) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 749-753.	2.5	24
1037	Ureido-Substituted Benzenesulfonamides Potently Inhibit Carbonic Anhydrase IX and Show Antimetastatic Activity in a Model of Breast Cancer Metastasis. Journal of Medicinal Chemistry, 2011, 54, 1896-1902.	2.9	443
1038	Pyridinium derivatives of histamine are potent activators of cytosolic carbonic anhydrase isoforms I, II and VII. Organic and Biomolecular Chemistry, 2011, 9, 2790.	1.5	29
1039	Carbonic Anhydrase Activators: Gold Nanoparticles Coated with Derivatized Histamine, Histidine, and Carnosine Show Enhanced Activatory Effects on Several Mammalian Isoforms. Journal of Medicinal Chemistry, 2011, 54, 1170-1177.	2.9	54
1040	Specific inhibition of carbonic anhydrase IX activity enhances the in vivo therapeutic effect of tumor irradiation. Radiotherapy and Oncology, 2011, 99, 424-431.	0.3	156
1041	Associations of selenium status with cardiometabolic risk factors: An 8-year follow-up analysis of the Olivetti Heart Study. Atherosclerosis, 2011, 217, 274-278.	0.4	81
1042	Bacterial Carbonic Anhydrases as Drug Targets: Toward Novel Antibiotics?. Frontiers in Pharmacology, 2011, 2, 34.	1.6	229
1043	In Vitro Inhibition of Human Carbonic Anhydrase I and II Isozymes with Natural Phenolic Compounds. Chemical Biology and Drug Design, 2011, 77, 494-499.	1.5	170
1044	Synthesis and biological profile of new 1,2,3,4-tetrahydroisoquinolines as selective carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 7003-7007.	1.4	18

#	Article	IF	Citations
1045	Carbonic anhydrase I and II activation with mono- and dihalogenated histamine derivatives. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4884-4887.	1.0	23
1046	Synthesis of rhodamine Bâ€“benzenesulfonamide conjugates and their inhibitory activity against human Î±- and bacterial/fungal Î²-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5210-5213.	1.0	12
1047	Promiscuity of Carbonic Anhydrase II. Unexpected Ester Hydrolysis of Carbohydrate-Based Sulfamate Inhibitors. Journal of the American Chemical Society, 2011, 133, 18452-18462.	6.6	38
1048	Carbonic anhydrase inhibition with natural products: novel chemotypes and inhibition mechanisms. Molecular Diversity, 2011, 15, 305-316.	2.1	64
1049	Gene expression profiling of phytoplasma-infected Madagascar periwinkle leaves using differential display. Molecular Biology Reports, 2011, 38, 2993-3000.	1.0	23
1050	A New Coral Carbonic Anhydrase in Stylophora pistillata. Marine Biotechnology, 2011, 13, 992-1002.	1.1	83
1051	A new Î²-carbonic anhydrase from Brucella suis, its cloning, characterization, and inhibition with sulfonamides and sulfamates, leading to impaired pathogen growth. Bioorganic and Medicinal Chemistry, 2011, 19, 1172-1178.	1.4	79
1052	Conformational variability of different sulfonamide inhibitors with thienyl-acetamido moieties attributes to differential binding in the active site of cytosolic human carbonic anhydrase isoforms. Bioorganic and Medicinal Chemistry, 2011, 19, 3732-3738.	1.4	47
1053	The leader peptide of a human rec. MnSOD as molecular carrier which delivers high amounts of Cisplatin into tumor cells inducing a fast apoptosis in vitro. International Journal of Cancer, 2011, 128, 453-459.	2.3	15
1054	Inhibition of the Î²-carbonic anhydrase from Streptococcus pneumoniae by inorganic anions and small molecules: Toward innovative drug design of antiinfectives?. Bioorganic and Medicinal Chemistry, 2011, 19, 243-248.	1.4	76
1055	Characterization and anions inhibition studies of an Î±-carbonic anhydrase from the teleost fish Dicentrarchus labrax. Bioorganic and Medicinal Chemistry, 2011, 19, 744-748.	1.4	63
1056	Kinetic and docking studies of phenol-based inhibitors of carbonic anhydrase isoforms I, II, IX and XII evidence a new binding mode within the enzyme active site. Bioorganic and Medicinal Chemistry, 2011, 19, 1381-1389.	1.4	97
1057	Purification and inhibition studies with anions and sulfonamides of an Î±-carbonic anhydrase from the Antarctic seal Leptonychotes weddellii. Bioorganic and Medicinal Chemistry, 2011, 19, 1847-1851.	1.4	9
1058	Inhibition studies of the Î²-carbonic anhydrases from the bacterial pathogen Salmonella enterica serovar Typhimurium with sulfonamides and sulfamates. Bioorganic and Medicinal Chemistry, 2011, 19, 5023-5030.	1.4	56
1059	An inhibitor-like binding mode of a carbonic anhydrase activator within the active site of isoform II. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2764-2768.	1.0	31
1060	Inhibition of Î²-carbonic anhydrases with ureido-substituted benzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 102-105.	1.0	26
1061	Carbonic anhydrase inhibitors. Inhibition studies with anions and sulfonamides of a new cytosolic enzyme from the scleractinian coral Stylophora pistillata. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 710-714.	1.0	28
1062	Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzymes from the fungal pathogens Candida albicans and Cryptococcus neoformans with branched aliphatic/aromatic carboxylates and their derivatives. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2521-2526.	1.0	33

#	Article	IF	Citations
1063	Synthesis and crystallographic analysis of new sulfonamides incorporating NO-donating moieties with potent antiglaucoma action. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3216-3221.	1.0	44
1064	Inhibition studies with anions and small molecules of two novel Î²-carbonic anhydrases from the bacterial pathogen Salmonella enterica serovar Typhimurium. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3591-3595.	1.0	70
1065	In vitro inhibition of Î±-carbonic anhydrase isozymes by some phenolic compounds. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4259-4262.	1.0	170
1066	Sulfonamides incorporating 1,3,5-triazine moieties selectively and potently inhibit carbonic anhydrase transmembrane isoforms IX, XII and XIV over cytosolic isoforms I and II: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2011, 19, 3105-3119.	1.4	90
1067	Therapeutic compounds: patent evaluation of WO2011011652A1. Expert Opinion on Therapeutic Patents, 2011, 21, 1491-1495.	2.4	2
1068	Acetaldehyde-derived modifications on cytosolic human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 862-870.	2.5	22
1069	Carbonic anhydrase inhibitors and activators for novel therapeutic applications. Future Medicinal Chemistry, 2011, 3, 1165-1180.	1.1	260
1070	Enzyme Inhibition and moreâ˜ A Tribute to John Smith. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 301-302.	2.5	8
1071	The β-Carbonic Anhydrases from Mycobacterium tuberculosis as Drug Targets. Current Pharmaceutical Design, 2010, 16, 3300-3309.	0.9	85
1072	Editorial [Hot Topic: Carbonic Anhydrases: Again, and Again, and Again (Executive Editor: Claudiu T.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	9
1073	3-Phenyl-1H-Indole-5-Sulfonamides: Structure-Based Drug Design of a Promising Class of Carbonic Anhydrase Inhibitors. Current Pharmaceutical Design, 2010, 16, 3317-3326.	0.9	18
1074	Recent Advances in Structural Studies of the Carbonic Anhydrase Family: The Crystal Structure of Human CA IX and CA XIII. Current Pharmaceutical Design, 2010, 16, 3246-3254.	0.9	32
1075	Brucella Carbonic Anhydrases: New Targets for Designing Anti-Infective Agents. Current Pharmaceutical Design, 2010, 16, 3310-3316.	0.9	47
1076	Saccharomyces cerevisiae β-Carbonic Anhydrase: Inhibition and Activation Studies. Current Pharmaceutical Design, 2010, 16, 3327-3336.	0.9	20
1077	Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrases from the pathogenic fungi Candida albicans and Cryptococcus neoformans with amines and amino acids. Bioorganic and Medicinal Chemistry, 2010, 18, 1034-1037.	1.4	19
1078	Carbonic anhydrase activators. The first activation study of a coral secretory isoform with amino acids and amines. Bioorganic and Medicinal Chemistry, 2010, 18, 2300-2303.	1.4	28
1079	Nanoscale enzyme inhibitors: Fullerenes inhibit carbonic anhydrase by occluding the active site entrance. Bioorganic and Medicinal Chemistry, 2010, 18, 2822-2828.	1.4	66
1080	Coumarinyl-substituted sulfonamides strongly inhibit several human carbonic anhydrase isoforms: solution and crystallographic investigations. Bioorganic and Medicinal Chemistry, 2010, 18, 4873-4878.	1.4	63

#	Article	IF	Citations
1081	Identification of Potent and Selective Human Carbonic Anhydraseâ€...VII (hCAâ€...VII) Inhibitors. ChemMedChem, 2010, 5, 823-826.	1.6	25
1082	Bidentate Zinc Chelators for Î±â€Carbonic Anhydrases that Produce a Trigonal Bipyramidal Coordination Geometry. ChemMedChem, 2010, 5, 1609-1615.	1.6	27
1083	Inhibition studies of a Î²-carbonic anhydrase from Brucella suis with a series of water soluble glycosyl sulfanilamides. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2178-2182.	1.0	51
1084	Carbonic anhydrase inhibitors. The Î²-carbonic anhydrases from the fungal pathogens Cryptococcus neoformans and Candida albicans are strongly inhibited by substituted-phenyl-1H-indole-5-sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2508-2511.	1.0	27
1085	Carbonic anhydrase IX: Biochemical and crystallographic characterization of a novel antitumor target. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 404-409.	1.1	166
1086	Carbonic anhydrase inhibitors. Identification of selective inhibitors of the human mitochondrial isozymes VA and VB over the cytosolic isozymes I and II from a natural product-based phenolic library. Bioorganic and Medicinal Chemistry, 2010, 18, 14-18.	1.4	70
1087	Carbonic anhydrase inhibitors. Inhibition of mammalian isoforms Iâ€“XIV with a series of natural product polyphenols and phenolic acids. Bioorganic and Medicinal Chemistry, 2010, 18, 2159-2164.	1.4	204
1088	Carbonic anhydrase inhibitors. X-ray crystal studies of the carbonic anhydrase IIâ€“trithiocarbonate adductâ€”An inhibitor mimicking the sulfonamide and urea binding to the enzyme. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 474-478.	1.0	76
1089	Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrase from the pathogenic yeast Candida glabrata with amines and amino acids. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1701-1704.	1.0	19
1090	Carbonic anhydrase inhibitors. Inhibition of transmembrane isoforms IX, XII, and XIV with less investigated anions including trithiocarbonate and dithiocarbamate. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1548-1550.	1.0	48
1091	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3467-3474.	1.0	579
1092	Coumarins incorporating hydroxy- and chloro-moieties selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic ones I and II. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4511-4514.	1.0	135
1093	Carbonic anhydrase inhibitors. The X-ray crystal structure of human isoform II in adduct with an adamantyl analogue of acetazolamide resides in a less utilized binding pocket than most hydrophobic inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4376-4381.	1.0	70
1094	Inhibition of the R1 fragment of the cadmium-containing Î¶-class carbonic anhydrase from the diatom Thalassiosira weissflogii with anions. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4745-4748.	1.0	38
1095	Carbonic anhydrase inhibitors. Antioxidant polyphenols effectively inhibit mammalian isoforms Iâ€“XV. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5050-5053.	1.0	151
1096	Crystal structure of the C183S/C217S mutant of human CA VII in complex with acetazolamide. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5023-5026.	1.0	81
1097	Paraoxon, 4-nitrophenyl phosphate and acetate are substrates of Î±- but not of Î²-, Î³- and Î¶-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6208-6212.	1.0	49
1098	7,8-Disubstituted- but not 6,7-disubstituted coumarins selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic ones I and II in the low nanomolar/subnanomolar range. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7255-7258.	1.0	152

#	Article	IF	Citations
1099	Characterization of the first beta-class carbonic anhydrase from an arthropod (Drosophila) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Biochemistry, 2010, 11, 28.	4.4	72
1100	Carbonic Anhydrase Inhibitors: Inhibition of Human Erythrocyte Isozymes I and II with a Series of Phenolic Acids. Chemical Biology and Drug Design, 2010, 75, 515-520.	1.5	134
1101	Selective Inhibition of Carbonic Anhydrase IX Decreases Cell Proliferation and Induces Ceramide-Mediated Apoptosis in Human Cancer Cells. Journal of Pharmacology and Experimental Therapeutics, 2010, 334, 710-719.	1.3	96
1102	Inhibition and binding studies of carbonic anhydrase isozymes I, II and IX with benzimidazo[1,2-c][1,2,3]thiadiazole-7-sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2010, 25, 863-870.	2.5	66
1103	Carbonic Anhydrase Inhibition/Activation: Trip of a Scientist Around the World in the Search of Novel Chemotypes and Drug Targets. Current Pharmaceutical Design, 2010, 16, 3233-3245.	0.9	117
1104	The Coumarin-Binding Site in Carbonic Anhydrase Accommodates Structurally Diverse Inhibitors: The Antiepileptic Lacosamide As an Example and Lead Molecule for Novel Classes of Carbonic Anhydrase Inhibitors. Journal of Medicinal Chemistry, 2010, 53, 850-854.	2.9	123
1105	Deciphering the Mechanism of Carbonic Anhydrase Inhibition with Coumarins and Thiocoumarins. Journal of Medicinal Chemistry, 2010, 53, 335-344.	2.9	363
1106	Cloning, Characterization, and Inhibition Studies of a Î²-Carbonic Anhydrase from Brucella suis. Journal of Medicinal Chemistry, 2010, 53, 2277-2285.	2.9	104
1107	Identification of 3,4-Dihydroisoquinoline-2(1H)-sulfonamides as Potent Carbonic Anhydrase Inhibitors: Synthesis, Biological Evaluation, and Enzymeâ"Ligand X-ray Studies. Journal of Medicinal Chemistry, 2010, 53, 2401-2408.	2.9	53
1108	The molecular characterization of a novel GH38 Î±-mannosidase from the crenarchaeon Sulfolobus solfataricus revealed its ability in de-mannosylating glycoproteins. Biochimie, 2010, 92, 1895-1907.	1.3	25
1109	Synthesis and biological evaluation of a 99mTc-labelled sulfonamide conjugate for in vivo visualization of carbonic anhydrase IX expression in tumor hypoxia. Nuclear Medicine and Biology, 2010, 37, 557-564.	0.3	82
1110	The first example of a significant active site conformational rearrangement in a carbonic anhydrase-inhibitor adduct: the carbonic anhydrase Iâ€"topiramate complex. Organic and Biomolecular Chemistry, 2010, 8, 3528.	1.5	40
1111	Dietary sodium intake in a sample of adult male population in southern Italy: results of the Olivetti Heart Study. European Journal of Clinical Nutrition, 2010, 64, 518-524.	1.3	36
1112	Selective hydrophobic pocket binding observed within the carbonic anhydrase II active site accommodate different 4-substituted-ureido-benzenesulfonamides and correlate to inhibitor potency. Chemical Communications, 2010, 46, 8371.	2.2	200
1113	Polyamines Inhibit Carbonic Anhydrases by Anchoring to the Zinc-Coordinated Water Molecule. Journal of Medicinal Chemistry, 2010, 53, 5511-5522.	2.9	205
1114	Crystal structure of the catalytic domain of the tumor-associated human carbonic anhydrase IX. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16233-16238.	3.3	451
1115	The Role of Carbonic Anhydrase 9 in Regulating Extracellular and Intracellular pH in Three-dimensional Tumor Cell Growths. Journal of Biological Chemistry, 2009, 284, 20299-20310.	1.6	249
1116	Therapeutic applications of glycosidic carbonic anhydrase inhibitors. Medicinal Research Reviews, 2009, 29, 419-435.	5.0	104

#	Article	IF	Citations
1117	Novel organometallic cationic ruthenium(II) pentamethylcyclopentadienyl benzenesulfonamide complexes targeted to inhibit carbonic anhydrase. Journal of Biological Inorganic Chemistry, 2009, 14, 935-945.	1.1	33
1118	Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. Proteins: Structure, Function and Bioinformatics, 2009, 74, 164-175.	1.5	97
1119	Which Carbonic Anhydrases are Targeted by the Antiepileptic Sulfonamides and Sulfamates?. Chemical Biology and Drug Design, 2009, 74, 317-321.	1.5	72
1120	Carbonic anhydrase inhibitors: Inhibition studies of a coral secretory isoform with inorganic anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 650-653.	1.0	31
1121	Carbonic anhydrase activators. Activation of the membrane-associated isoform XV with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3430-3433.	1.0	11
1122	Carbonic anhydrase inhibitors. Characterization and inhibition studies of the most active Î²-carbonic anhydrase from Mycobacterium tuberculosis, Rv3588c. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6649-6654.	1.0	101
1123	Nitric oxide-donating carbonic anhydrase inhibitors for the treatment of open-angle glaucoma. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6565-6570.	1.0	61
1124	Carbonic anhydrase inhibitors. Comparison of chlorthalidone, indapamide, trichloromethiazide, and furosemide X-ray crystal structures in adducts with isozyme II, when several water molecules make the difference. Bioorganic and Medicinal Chemistry, 2009, 17, 1214-1221.	1.4	61
1125	Carbonic anhydrase inhibitors: Inhibition of the Î²-class enzyme from the yeast Saccharomyces cerevisiae with sulfonamides and sulfamates. Bioorganic and Medicinal Chemistry, 2009, 17, 1158-1163.	1.4	86
1126	Carbonic anhydrase inhibitors. The nematode Î±-carbonic anhydrase of Caenorhabditis elegans CAH-4b is highly inhibited by 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 3212-3215.	1.4	16
1127	Carbonic anhydrase inhibitors. Inhibition of human erythrocyte isozymes I and II with a series of antioxidant phenols. Bioorganic and Medicinal Chemistry, 2009, 17, 3207-3211.	1.4	207
1128	Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzymes from the fungal pathogens Candida albicans and Cryptococcus neoformans with aliphatic and aromatic carboxylates. Bioorganic and Medicinal Chemistry, 2009, 17, 2654-2657.	1.4	69
1129	Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isoforms I and II and transmembrane, tumor-associated isoforms IX and XII with boronic acids. Bioorganic and Medicinal Chemistry, 2009, 17, 3649-3652.	1.4	29
1130	Synthesis and evaluation of pharmacological profile of 1-aryl-6,7-dimethoxy-3,4-dihydroisoquinoline-2(1H)-sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 3659-3664.	1.4	32
1131	Carbonic anhydrase inhibitors. Inhibition and homology modeling studies of the fungal Î²-carbonic anhydrase from Candida albicans with sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 4503-4509.	1.4	56
1132	Carbonic anhydrase inhibitors. Inhibition studies of a coral secretory isoform by sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 5054-5058.	1.4	30
1133	Carbonic anhydrase inhibitors. Aromatic/heterocyclic sulfonamides incorporating phenacetyl, pyridylacetyl and thienylacetyl tails act as potent inhibitors of human mitochondrial isoforms VA and VB. Bioorganic and Medicinal Chemistry, 2009, 17, 4894-4899.	1.4	39
1134	Carbonic anhydrase inhibitors: The membrane-associated isoform XV is highly inhibited by inorganic anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1155-1158.	1.0	15

#	Article	IF	Citations
1135	A thiabendazole sulfonamide shows potent inhibitory activity against mammalian and nematode Î±-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1371-1375.	1.0	18
1136	Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrase Nce103 from the yeast Saccharomyces cerevisiae with amines and amino acids. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1662-1665.	1.0	21
1137	Carbonic anhydrase inhibitors. Inhibition of cytosolic isoforms I, II, III, VII and XIII with less investigated inorganic anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1855-1857.	1.0	35
1138	Carbonic anhydrase activators: Activation of human isozymes I, II and IX with phenylsulfonylhydrazido l-histidine derivatives. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2440-2443.	1.0	23
1139	Carbonic anhydrase inhibitors. Inhibition of the fungal Î²-carbonic anhydrases from Candida albicans and Cryptococcus neoformans with boronic acids. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2642-2645.	1.0	47
1140	Carbonic anhydrase inhibitors. Phenacetyl-, pyridylacetyl- and thienylacetyl-substituted aromatic sulfonamides act as potent and selective isoform VII inhibitors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3170-3173.	1.0	34
1141	The protein tyrosine kinase inhibitors imatinib and nilotinib strongly inhibit several mammalian Î±-carbonic anhydrase isoforms. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4102-4106.	1.0	67
1142	Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzyme from the pathogenic yeast Candida glabrata with anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4802-4805.	1.0	45
1143	Carbonic anhydrase inhibitors. Inhibition of the Rv1284 and Rv3273 Î²-carbonic anhydrases from Mycobacterium tuberculosis with diazenylbenzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4929-4932.	1.0	29
1144	The proteoglycan region of the tumor-associated carbonic anhydrase isoform IX acts as anintrinsic buffer optimizing CO2 hydration at acidic pH values characteristic of solid tumors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5825-5828.	1.0	79
1145	Carbonic Anhydrase Inhibitors. Comparison of Chlorthalidone and Indapamide X-ray Crystal Structures in Adducts with Isozyme II: When Three Water Molecules and the Ketoâ^'Enol Tautomerism Make the Difference. Journal of Medicinal Chemistry, 2009, 52, 322-328.	2.9	56
1146	Structure and Inhibition of the CO2-Sensing Carbonic Anhydrase Can2 from the Pathogenic Fungus Cryptococcus neoformans. Journal of Molecular Biology, 2009, 385, 1207-1220.	2.0	193
1147	Aspartic proteinases in Antarctic fish. Marine Genomics, 2009, 2, 1-10.	0.4	16
1148	Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 1-39.	2.5	167
1149	Carbonic Anhydrase Inhibitors. Cloning, Characterization, and Inhibition Studies of a New Î²-Carbonic Anhydrase from Mycobacterium tuberculosis. Journal of Medicinal Chemistry, 2009, 52, 3116-3120.	2.9	107
1150	Molecular Cloning, Characterization, and Inhibition Studies of the Rv1284 Î²-Carbonic Anhydrase from Mycobacterium tuberculosis with Sulfonamides and a Sulfamate. Journal of Medicinal Chemistry, 2009, 52, 2226-2232.	2.9	94
1151	Discovery of Low Nanomolar and Subnanomolar Inhibitors of the Mycobacterial Î²-Carbonic Anhydrases Rv1284 and Rv3273. Journal of Medicinal Chemistry, 2009, 52, 4063-4067.	2.9	82
1152	Non-Zinc Mediated Inhibition of Carbonic Anhydrases: Coumarins Are a New Class of Suicide Inhibitors. Journal of the American Chemical Society, 2009, 131, 3057-3062.	6.6	457

#	Article	IF	Citations
1153	Carbonic anhydrase inhibitors. Cloning, characterization and inhibition studies of the cytosolic isozyme III with anions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 70-76.	2.5	36
1154	Imaging of CA IX with fluorescent labelled sulfonamides distinguishes hypoxic and (re)-oxygenated cells in a xenograft tumour model. Radiotherapy and Oncology, 2009, 92, 423-428.	0.3	185
1155	Carbonic Anhydrase Inhibitors. Comparison of Aliphatic Sulfamate/Bis-sulfamate Adducts with Isozymes II and IX as a Platform for Designing Tight-Binding, More Isoform-Selective Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 5990-5998.	2.9	21
1156	Cloning, polymorphism, and inhibition of Î²-carbonic anhydrase of Helicobacter pylori. Journal of Gastroenterology, 2008, 43, 849-857.	2.3	48
1157	Carbonic Anhydrase Inhibitors: Binding of Indanesulfonamides to the Human Isoformâ€…II. ChemMedChem, 2008, 3, 473-477.	1.6	11
1158	Carbonic anhydrase inhibitors: Inhibition of human cytosolic isozymes I and II and tumor-associated isozymes IX and XII with S-substituted 4-chloro-2-mercapto-5-methyl-benzenesulfonamides. Bioorganic and Medicinal Chemistry, 2008, 16, 3933-3940.	1.4	29
1159	Carbonic anhydrase activators: Activation of the human tumor-associated isozymes IX and XII with amino acids and amines. Bioorganic and Medicinal Chemistry, 2008, 16, 3530-3536.	1.4	45
1160	Carbonic anhydrase inhibitors: Inhibition of mammalian isoforms Iâ€“XIV with a series of substituted phenols including paracetamol and salicylic acid. Bioorganic and Medicinal Chemistry, 2008, 16, 7424-7428.	1.4	120
1161	Carbonic anhydrase activators: Kinetic and X-ray crystallographic study for the interaction of d- and l-tryptophan with the mammalian isoforms Iâ€“XIV. Bioorganic and Medicinal Chemistry, 2008, 16, 8373-8378.	1.4	65
1162	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. Bioorganic and Medicinal Chemistry, 2008, 16, 9101-9105.	1.4	160
1163	Carbonic anhydrase inhibitors. Interaction of 2-(hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide with 12 mammalian isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 152-158.	1.0	49
1164	Carbonic anhydrase inhibitors. Interaction of 2-N,N-dimethylamino-1,3,4-thiadiazole-5-methanesulfonamide with 12 mammalian isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 999-1005.	1.0	22
1165	Carbonic anhydrase inhibitors: Interactions of phenols with the 12 catalytically active mammalian isoforms (CA Iâ€“XIV). Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1583-1587.	1.0	186
1166	Carbonic anhydrase inhibitors. Interaction of indapamide and related diuretics with 12 mammalian isozymes and X-ray crystallographic studies for the indapamideâ€“isozyme II adduct. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2567-2573.	1.0	67
1167	Carbonic anhydrase activators: Activation of the human cytosolic isozyme III and membrane-associated isoform IV with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4303-4307.	1.0	30
1168	Carbonic anhydrase inhibitors: Inhibition of the Î²-class enzymes from the fungal pathogens Candida albicans and Cryptococcus neoformans with simple anions. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5066-5070.	1.0	98
1169	Carbonic anhydrase inhibitors: Inhibition of Plasmodium falciparum carbonic anhydrase with aromatic/heterocyclic sulfonamidesâ€”in vitro and in vivo studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5466-5471.	1.0	70
1170	Carbonic anhydrase activators: Activation of the archaeal Î²-class (Cab) and Î³-class (Cam) carbonic anhydrases with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6194-6198.	1.0	36

#	Article	IF	Citations
1171	Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzyme from the yeast Saccharomyces cerevisiae with anions. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6327-6331.	1.0	47
1172	Investigations of the esterase, phosphatase, and sulfatase activities of the cytosolic mammalian carbonic anhydrase isoforms I, II, and XIII with 4-nitrophenyl esters as substrates. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2267-2271.	1.0	104
1173	Carbonic anhydrase inhibitors: The X-ray crystal structure of ethoxzolamide complexed to human isoform II reveals the importance of thr200 and gln92 for obtaining tight-binding inhibitors. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2669-2674.	1.0	35
1174	Carbonic anhydrase inhibitors: Inhibition of the new membrane-associated isoform XV with phenols. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3593-3596.	1.0	63
1175	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. Expert Opinion on Emerging Drugs, 2008, 13, 383-392.	1.0	165
1176	Carbonic anhydrases: novel therapeutic applications for inhibitors and activators. Nature Reviews Drug Discovery, 2008, 7, 168-181.	21.5	2,702
1177	Development of small molecule carbonic anhydrase IX inhibitors. BJU International, 2008, 101, 39-40.	1.3	38
1178	External pH influences the transcriptional profile of the carbonic anhydrase, CAH-4b in Caenorhabditis elegans. Molecular and Biochemical Parasitology, 2008, 161, 140-149.	0.5	33
1179	Carbonic anhydrase inhibitors. Sulfonamide diuretics revisitedâ€"old leads for new applications?. Organic and Biomolecular Chemistry, 2008, 6, 2499.	1.5	88
1180	Biochemical Characterization of CA IX, One of the Most Active Carbonic Anhydrase Isozymes. Journal of Biological Chemistry, 2008, 283, 27799-27809.	1.6	258
1181	Carbonic Anhydrase Inhibitor Coated Gold Nanoparticles Selectively Inhibit the Tumor-Associated Isoform IX over the Cytosolic Isozymes I and II. Journal of the American Chemical Society, 2008, 130, 16130-16131.	6.6	102
1182	Tumor-associated Carbonic Anhydrase 9 Spatially Coordinates Intracellular pH in Three-dimensional Multicellular Growths. Journal of Biological Chemistry, 2008, 283, 20473-20483.	1.6	185
1183	Carbonic Anhydrase in the Scleractinian Coral Stylophora pistillata. Journal of Biological Chemistry, 2008, 283, 25475-25484.	1.6	221
1184	Carbonic Anhydrases An Overview. Current Pharmaceutical Design, 2008, 14, 603-614.	0.9	476
1185	The α and β Classes Carbonic Anhydrases from Helicobacter pylori as Novel Drug Targets. Current Pharmaceutical Design, 2008, 14, 622-630.	0.9	188
1186	Diuretics: From Classical Carbonic Anhydrase Inhibitors to Novel Applications of the Sulfonamides. Current Pharmaceutical Design, 2008, 14, 641-648.	0.9	219
1187	Carbonic Anhydrase Activation and the Drug Design. Current Pharmaceutical Design, 2008, 14, 708-715.	0.9	81
1188	Design of Zinc Binding Functions for Carbonic Anhydrase Inhibitors. Current Pharmaceutical Design, 2008, 14, 615-621.	0.9	75

#	Article	IF	Citations
1189	The Alpha-Carbonic Anhydrase from the Malaria Parasite and its Inhibition. Current Pharmaceutical Design, 2008, 14, 631-640.	0.9	74
1190	Are Carbonic Anhydrase Inhibitors Suitable for Obtaining Antiobesity Drugs ?. Current Pharmaceutical Design, 2008, 14, 655-660.	0.9	150
1191	Editorial [Carbonic Anhydrases as Drug Targets Executive Editor: Claudiu T. Supuran]. Current Pharmaceutical Design, 2008, 14, 601-602.	0.9	39
1192	Anticonvulsant Sulfonamides/Sulfamates/Sulfamides with Carbonic Anhydrase Inhibitory Activity: Drug Design and Mechanism of Action. Current Pharmaceutical Design, 2008, 14, 661-671.	0.9	129
1193	Malarial Parasite Carbonic Anhydrase and Its Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 909-917.	1.0	41
1194	Inhibitors of HIV-1 Protease: Current State of the Art 10 Years After their Introduction. From Antiretroviral Drugs to Antifungal, Antibacterial and Antitumor Agents Based on Aspartic Protease Inhibitors. Current Medicinal Chemistry, 2007, 14, 2734-2748.	1.2	132
1195	The Development of Topically Acting Carbonic Anhydrase Inhibitors as Antiglaucoma Agents. Current Topics in Medicinal Chemistry, 2007, 7, 849-854.	1.0	61
1196	Carbonic Anhydrases as Drug Targets - An Overview. Current Topics in Medicinal Chemistry, 2007, 7, 825-833.	1.0	195
1197	Inhibition of the Archaeal β-Class (Cab) and γ-Class (Cam) Carbonic Anhydrases. Current Topics in Medicinal Chemistry, 2007, 7, 901-908.	1.0	126
1198	Carbonic Anhydrase Inhibitors as Anticonvulsant Agents. Current Topics in Medicinal Chemistry, 2007, 7, 855-864.	1.0	209
1199	Antiobesity Carbonic Anhydrase Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 879-884.	1.0	95
1200	Therapeutic applications of the carbonic anhydrase inhibitors. Therapy: Open Access in Clinical Medicine, 2007, 4, 355-378.	0.2	29
1201	Imaging the hypoxia surrogate marker CA IX requires expression and catalytic activity for binding fluorescent sulfonamide inhibitors. Radiotherapy and Oncology, 2007, 83, 367-373.	0.3	157
1202	Synthesis and antimalarial activity of novel chiral and achiral benzenesulfonamides bearing 1, 3, 4-oxadiazole moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2007, 22, 301-308.	2.5	52
1203	Carbonic Anhydrase Inhibitors. DNA Cloning, Characterization, and Inhibition Studies of the Human Secretory Isoform VI, a New Target for Sulfonamide and Sulfamate Inhibitors. Journal of Medicinal Chemistry, 2007, 50, 381-388.	2.9	88
1204	Carbonic Anhydrase Inhibitors:Â Inhibition of Isozymes I, II, and IX with Triazole-LinkedO-Glycosides of Benzene Sulfonamides. Journal of Medicinal Chemistry, 2007, 50, 1651-1657.	2.9	179
1205	Saccharin Inhibits Carbonic Anhydrases: Possible Explanation for its Unpleasant Metallic Aftertaste. Angewandte Chemie - International Edition, 2007, 46, 7697-7699.	7.2	168
1206	Carbonic anhydrase activators: The first activation study of the human secretory isoform VI with amino acids and amines. Bioorganic and Medicinal Chemistry, 2007, 15, 5351-5357.	1.4	52

#	Article	IF	Citations
1207	Molecular modeling study for the binding of zonisamide and topiramate to the human mitochondrial carbonic anhydrase isoform VA. Bioorganic and Medicinal Chemistry, 2007, 15, 4152-4158.	1.4	37
1208	Carbonic anhydrases as targets for medicinal chemistry. Bioorganic and Medicinal Chemistry, 2007, 15, 4336-4350.	1.4	521
1209	Design, synthesis, and docking studies of new 1,3,4-thiadiazole-2-thione derivatives with carbonic anhydrase inhibitory activity. Bioorganic and Medicinal Chemistry, 2007, 15, 6975-6984.	1.4	78
1210	Carbonic anhydrase inhibitors: The inhibition profiles of the human mitochondrial isoforms VA and VB with anions are very different. Bioorganic and Medicinal Chemistry, 2007, 15, 6742-6747.	1.4	17
1211	Carbonic anhydrase inhibitors: Cloning, characterization, and inhibition studies of the cytosolic isozyme III with sulfonamides. Bioorganic and Medicinal Chemistry, 2007, 15, 7229-7236.	1.4	100
1212	Carbonic anhydrase activators: An activation study of the human mitochondrial isoforms VA and VB with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1336-1340.	1.0	44
1213	Carbonic anhydrase inhibitors: Binding of an antiglaucoma glycosyl-sulfanilamide derivative to human isoform II and its consequences for the drug design of enzyme inhibitors incorporating sugar moieties. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1726-1731.	1.0	38
1214	Carbonic anhydrase inhibitors. Inhibition of transmembrane isozymes XII (cancer-associated) and XIV with anions. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1532-1537.	1.0	35
1215	Carbonic anhydrase inhibitors: The Î²-carbonic anhydrase from Helicobacter pylori is a new target for sulfonamide and sulfamate inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3585-3594.	1.0	157
1216	Carbonic anhydrase activators: Activation of the human isoforms VII (cytosolic) and XIV (transmembrane) with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4107-4112.	1.0	48
1217	Carbonic anhydrase inhibitors. Interaction of the antiepileptic drug sulthiame with twelve mammalian isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4866-4872.	1.0	37
1218	Phosph(on)ate as a zinc-binding group in metalloenzyme inhibitors: X-ray crystal structure of the antiviral drug foscarnet complexed to human carbonic anhydrase I. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2210-2215.	1.0	48
1219	Carbonic anhydrase inhibitors: Inhibition of human, bacterial, and archaeal isozymes with benzene-1,3-disulfonamidesâ€"Solution and crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4201-4207.	1.0	47
1220	Purification and characterization of pepsinsâ€ƒA1 and A2 from the Antarctic rock cod Trematomus bernacchii. FEBS Journal, 2007, 274, 6152-6166.	2.2	42
1221	Differential display analysis of gene expression in Etrog citron leaves infected by Citrus viroid III. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2007, 1769, 228-235.	2.4	36
1222	Carbonic anhydrase activators: l-Adrenaline plugs the active site entrance of isozyme II, activating better isoforms I, IV, VA, VII, and XIV. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 628-635.	1.0	93
1223	Carbonic anhydrase inhibitors. Inhibition studies of the human secretory isoform VI with anions. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1037-1042.	1.0	33
1224	Carbonic Anhydrase Activators. Activation of Isoforms I, II, IV, VA, VII, and XIV with l- and d-Phenylalanine and Crystallographic Analysis of Their Adducts with Isozyme II:â€‰ Stereospecific Recognition within the Active Site of an Enzyme and Its Consequences for the Drug Design. Journal of Medicinal Chemistry, 2006, 49, 3019-3027.	2.9	128

#	Article	IF	Citations
1225	2-Substituted Estradiol Bis-sulfamates, Multitargeted Antitumor Agents:Â Synthesis, In Vitro SAR, Protein Crystallography, and In Vivo Activityâ€. Journal of Medicinal Chemistry, 2006, 49, 7683-7696.	2.9	98
1226	A Novel Class of Carbonic Anhydrase Inhibitors:â€‰ Glycoconjugate Benzene Sulfonamides Prepared by â€œClick-Tailingâ€• Journal of Medicinal Chemistry, 2006, 49, 6539-6548.	2.9	168
1227	Indanesulfonamides as Carbonic Anhydrase Inhibitors. Toward Structure-Based Design of Selective Inhibitors of the Tumor-Associated Isozyme CA IX. Journal of Medicinal Chemistry, 2006, 49, 2743-2749.	2.9	58
1228	Carbonic Anhydrase Inhibitors:Â Hypoxia-Activatable Sulfonamides Incorporating Disulfide Bonds that Target the Tumor-Associated Isoform IXâ€. Journal of Medicinal Chemistry, 2006, 49, 5544-5551.	2.9	100
1229	Oxovanadium(IV) complexes of hydrazides: Potential antifungal agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2006, 21, 37-42.	2.5	37
1230	Carbonic Anhydrase Inhibitors:â€‰ Clash with Ala65 as a Means for Designing Inhibitors with Low Affinity for the Ubiquitous Isozyme II, Exemplified by the Crystal Structure of the Topiramate Sulfamide Analogue. Journal of Medicinal Chemistry, 2006, 49, 7024-7031.	2.9	147
1231	Carbonic Anhydrase Inhibitors:â€‰ X-ray and Molecular Modeling Study for the Interaction of a Fluorescent Antitumor Sulfonamide with Isozyme II and IX. Journal of the American Chemical Society, 2006, 128, 8329-8335.	6.6	200
1232	Carbonic Anhydrase Inhibitors:â€‰ DNA Cloning and Inhibition Studies of the Î±-Carbonic Anhydrase from Helicobacter pylori, A New Target for Developing Sulfonamide and Sulfamate Gastric Drugs. Journal of Medicinal Chemistry, 2006, 49, 2117-2126.	2.9	154
1233	Carbonic anhydrase inhibitors and activators and their use in therapy. Expert Opinion on Therapeutic Patents, 2006, 16, 1627-1664.	2.4	158
1234	Targeting tumor-associated carbonic anhydrase IX in cancer therapy. Trends in Pharmacological Sciences, 2006, 27, 566-573.	4.0	362
1235	Metal-Based Antibacterial and Antifungal Agents: Synthesis, Characterization, and In Vitro Biological Evaluation of Co(II), Cu(II), Ni(II), and Zn(II) Complexes with Amino Acid-Derived Compounds. Bioinorganic Chemistry and Applications, 2006, 2006, 1-13.	1.8	154
1236	Carbonic anhydrase inhibitors: Cloning and sulfonamide inhibition studies of a carboxyterminal truncated Î±-carbonic anhydrase from Helicobacter pylori. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2182-2188.	1.0	42
1237	Carbonic anhydrase activators: The first X-ray crystallographic study of an adduct of isoform I. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5152-5156.	1.0	81
1238	Metal detoxification and homeostasis in Antarctic Notothenioids. A comparative survey on evolution, expression and functional properties of fish and mammal metallothioneins. Reviews in Environmental Science and Biotechnology, 2006, 5, 253-267.	3.9	4
1239	Carbonic anhydrase inhibitors: Valdecoxib binds to a different active site region of the human isoform II as compared to the structurally related cyclooxygenase II â€˜selectiveâ€™ inhibitor celecoxib. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 437-442.	1.0	93
1240	Carbonic anhydrase inhibitors: Inhibition of the cytosolic human isozyme VII with anions. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3139-3143.	1.0	26
1241	Carbonic anhydrase activators: Activation of isozyme XIII with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3955-3959.	1.0	47
1242	Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of 5-amino-1,3,4-thiadiazole-2-sulfonamide and 5-(4-amino-3-chloro-5-fluorophenylsulfonamido)-1,3,4-thiadiazole-2-sulfonamide to human isoform II. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 6204-6208.	1.0	32

#	Article	IF	Citations
1243	Carbonic Anhydrase Activators. Activation of Isozymes I, II, IV, VA, VII, and XIV withL- andD-Histidine and Crystallographic Analysis of Their Adducts with Isoform II: Engineering Proton-Transfer Processes within the Active Site of an Enzyme. Chemistry - A European Journal, 2006, 12, 7057-7066.	1.7	131
1244	Therapeutic potential of sulfamides as enzyme inhibitors. Medicinal Research Reviews, 2006, 26, 767-792.	5.0	173
1245	Inhibitors of HIV-1 protease: 10 years after. Expert Opinion on Therapeutic Patents, 2006, 16, 1067-1091.	2.4	20
1246	Metal detoxification and homeostasis in Antarctic Notothenioids. A comparative survey on evolution, expression and functional properties of fish and mammal metallothioneins. , 2006, , 369-383.		0
1247	Structural and functional studies of vertebrate metallothioneins: cross-talk between domains in the absence of physical contact. Biochemical Journal, 2005, 391, 95-103.	1.7	14
1248	Carbonic anhydrase inhibitors. Inhibition of Plasmodium falciparum carbonic anhydrase with aromatic sulfonamides: towards antimalarials with a novel mechanism of action?. Bioorganic and Medicinal Chemistry, 2005, 13, 483-489.	1.4	81
1249	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with bis-sulfamates. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 579-584.	1.0	43
1250	Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 971-976.	1.0	145
1251	Carbonic anhydrase inhibitors: X-ray crystal structure of a benzenesulfonamide strong CA II and CA IX inhibitor bearing a pentafluorophenylaminothioureido tail in complex with isozyme II. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1937-1942.	1.0	40
1252	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with N-hydroxysulfamidesâ€"a new zinc-binding function in the design of inhibitors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2353-2358.	1.0	46
1253	Carbonic anhydrase inhibitors. Zonisamide is an effective inhibitor of the cytosolic isozyme II and mitochondrial isozyme V: solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2315-2320.	1.0	176
1254	Carbonic anhydrase inhibitors. Inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with Schiffâ€™s bases incorporating chromone and aromatic sulfonamide moieties, and their zinc complexes. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3096-3101.	1.0	115
1255	Carbonic anhydrase activators: X-ray crystal structure of the adduct of human isozyme II with l-histidine as a platform for the design of stronger activators. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5136-5141.	1.0	99
1256	Sulfamates and their therapeutic potential. Medicinal Research Reviews, 2005, 25, 186-228.	5.0	191
1257	Carbonic anhydrase inhibitors. Inhibition of the transmembrane isozyme XII with sulfonamidesâ€"a new target for the design of antitumor and antiglaucoma drugs?. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 963-969.	1.0	212
1258	Carbonic anhydrase inhibitors: Novel sulfonamides incorporating 1,3,5-triazine moieties as inhibitors of the cytosolic and tumour-associated carbonic anhydrase isozymes I, II and IX. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3102-3108.	1.0	137
1259	Carbonic anhydrase inhibitors: Design of thioureido sulfonamides with potent isozyme II and XII inhibitory properties and intraocular pressure lowering activity in a rabbit model of glaucoma. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3821-3827.	1.0	28
1260	Carbonic anhydrase inhibitors: Inhibition of the transmembrane isozyme XIV with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3828-3833.	1.0	138

#	Article	IF	Citations
1261	Highly Active Antiretroviral Therapy: Current State of the Art, New Agents and Their Pharmacological Interactions Useful for Improving Therapeutic Outcome. Current Pharmaceutical Design, 2005, 11, 1805-1843.	0.9	222
1262	Carbonic Anhydrase Inhibitors. Design of Fluorescent Sulfonamides as Probes of Tumor-Associated Carbonic Anhydrase IX That Inhibit Isozyme IX-Mediated Acidification of Hypoxic Tumorsâ€. Journal of Medicinal Chemistry, 2005, 48, 4834-4841.	2.9	205
1263	Carbonic Anhydrase Inhibitors:Â Stacking with Phe131 Determines Active Site Binding Region of Inhibitors As Exemplified by the X-ray Crystal Structure of a Membrane-Impermeant Antitumor Sulfonamide Complexed with Isozyme II. Journal of Medicinal Chemistry, 2005, 48, 5721-5727.	2.9	157
1264	In-vitro antibacterial, antifungal and cytotoxic activities of some coumarins and their metal complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 333-340.	2.5	126
1265	Effect of cadmium on gene expression in the liverwort Lunularia cruciata. Gene, 2005, 356, 153-159.	1.0	18
1266	Carbonic Anhydrase Inhibitors. The Mitochondrial Isozyme VB as a New Target for Sulfonamide and Sulfamate Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 7860-7866.	2.9	179
1267	Carbonic Anhydrase Inhibitors:Â Synthesis and Inhibition of Cytosolic/Membrane-Associated Carbonic Anhydrase Isozymes I, II, and IX with Sulfonamides Incorporating Hydrazino Moieties. Journal of Medicinal Chemistry, 2005, 48, 2121-2125.	2.9	70
1268	Metal binding and antibacterial activity of ciprofloxacin complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 303-307.	2.5	147
1269	Characterization of CA XIII, a Novel Member of the Carbonic Anhydrase Isozyme Family. Journal of Biological Chemistry, 2004, 279, 2719-2727.	1.6	210
1270	COX-2 Selective Inhibitors, Carbonic Anhydrase Inhibition and Anticancer Properties of Sulfonamides Belonging to This Class of Pharmacological Agents. Mini-Reviews in Medicinal Chemistry, 2004, 4, 625-632.	1.1	130
1271	Protein tyrosine kinase inhibitors as anticancer agents. Expert Opinion on Therapeutic Patents, 2004, 14, 35-53.	2.4	33
1272	Review Article. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 199-229.	2.5	595
1273	Accumulation, localisation, and toxic effects of cadmium in the liverwort Lunularia cruciata. Protoplasma, 2004, 223, 53-61.	1.0	63
1274	Carbonic anhydrase inhibitors: E7070, a sulfonamide anticancer agent, potently inhibits cytosolic isozymes I and II, and transmembrane, tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 217-223.	1.0	251
1275	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with EMATE, a dual inhibitor of carbonic anhydrases and steroid sulfatase. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 231-234.	1.0	147
1276	Carbonic anhydrase inhibitors. Inhibition of the newly isolated murine isozyme XIII with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5435-5439.	1.0	43
1277	Carbonic anhydrase inhibitors. Inhibition of the prokariotic beta and gamma-class enzymes from Archaea with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 6001-6006.	1.0	83
1278	Carbonic anhydrase inhibitors: aromatic and heterocyclic sulfonamides incorporating adamantyl moieties with strong anticonvulsant activity. Bioorganic and Medicinal Chemistry, 2004, 12, 2717-2726.	1.4	90

#	Article	IF	Citations
1279	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating 1,2,4-triazine moieties. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5427-5433.	1.0	98
1280	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with the antipsychotic drug sulpiride. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 337-341.	1.0	69
1281	Carbonic anhydrase inhibitors: The first selective, membrane-impermeant inhibitors targeting the tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 869-873.	1.0	150
1282	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a topically acting antiglaucoma sulfonamide. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 2357-2361.	1.0	49
1283	Carbonic anhydrase inhibitors. Inhibition of the zinc and cobalt Î³-class enzyme from the archaeon Methanosarcina thermophila with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3327-3331.	1.0	28
1284	Carbonic anhydrase inhibitors. Inhibition of the beta-class enzyme from the methanoarchaeon Methanobacterium thermoautotrophicum (Cab) with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 4563-4567.	1.0	49
1285	Carbonic anhydrase inhibitors: inhibition of the membrane-bound human isozyme IV with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5769-5773.	1.0	26
1286	Benzolamide is not a Membrane-impermeant Carbonic Anhydrase Inhibitor. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 269-273.	2.5	36
1287	Carbonic Anhydrase Inhibitors. Design of Selective, Membrane-Impermeant Inhibitors Targeting the Human Tumor-Associated Isozyme IX. Journal of Medicinal Chemistry, 2004, 47, 2337-2347.	2.9	149
1288	Carbonic anhydrase inhibitors. Inhibition of the zinc and cobalt $gamma;-class enzyme from the archaeon Methanosarcina thermophila with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3327-3331.	1.0	58
1289	Unexpected Nanomolar Inhibition of Carbonic Anhydrase by COX-2-Selective Celecoxib:Â New Pharmacological Opportunities Due to Related Binding Site Recognition. Journal of Medicinal Chemistry, 2004, 47, 550-557.	2.9	426
1290	Modulation of carbonic anhydrase activity and its applications in therapy. Expert Opinion on Therapeutic Patents, 2004, 14, 667-702.	2.4	159
1291	Carbonic Anhydrase Inhibitors:Â The First On-Resin Screening of a 4-Sulfamoylphenylthiourea Library. Journal of Medicinal Chemistry, 2004, 47, 5224-5229.	2.9	48
1292	Adaptive evolution and functional divergence of pepsin gene family. Gene, 2004, 333, 81-90.	1.0	38
1293	Identification of genes expressed in response to phytoplasma infection in leaves of Prunus armeniaca by messenger RNA differential display. Gene, 2004, 332, 29-34.	1.0	51
1294	Gene amplification and cold adaptation of pepsin in Antarctic fish. A possible strategy for food digestion at low temperature. Gene, 2004, 336, 195-205.	1.0	33
1295	Hypoxia activates the capacity of tumor-associated carbonic anhydrase IX to acidify extracellular pH. FEBS Letters, 2004, 577, 439-445.	1.3	620
1296	Quantum Theoretic QSAR of Benzene Derivatives: Some Enzyme Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 237-248.	2.5	22

#	Article	IF	Citations
1297	New Advances in HIV Entry Inhibitors Development. Current Drug Targets Infectious Disorders, 2004, 4, 339-355.	2.1	35
1298	Designing of Novel Carbonic Anhydrase Inhibitors and Activators. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2004, 2, 51-70.	1.7	2
1299	Designing of novel carbonic anhydrase inhibitors and activators. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2004, 2, 49-68.	1.7	27
1300	Phylogenetic Divergence of Fish and Mammalian Metallothionein: Relationships with Structural Diversification and Organismal Temperature. Journal of Molecular Evolution, 2003, 57, S250-S257.	0.8	24
1301	Solution Structure of MT_nc, a Novel Metallothionein from the Antarctic Fish Notothenia coriiceps. Structure, 2003, 11, 435-443.	1.6	52
1302	Carbonic anhydrase inhibitors. Medicinal Research Reviews, 2003, 23, 146-189.	5.0	1,126
1303	Protease inhibitors of the sulfonamide type: Anticancer, antiinflammatory, and antiviral agents. Medicinal Research Reviews, 2003, 23, 535-558.	5.0	385
1304	Carbonic anhydrase inhibitors: SAR and X-ray crystallographic study for the interaction of sugar sulfamates/sulfamides with isozymes I, II and IV. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 841-845.	1.0	221
1305	Hydroxyurea is a carbonic anhydrase inhibitor. Bioorganic and Medicinal Chemistry, 2003, 11, 2241-2246.	1.4	38
1306	Carbonic Anhydrase Inhibitors. Inhibition of Tumor-Associated Isozyme IX by Halogenosulfanilamide and Halogenophenylaminobenzolamide Derivativesâ€. Journal of Medicinal Chemistry, 2003, 46, 2187-2196.	2.9	141
1307	Zinc Complexes of Benzothiazole-derived Schiff Bases with Antibacterial Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 259-263.	2.5	146
1308	Direct Extracellular Interaction between Carbonic Anhydrase IV and the Human NBC1 Sodium/Bicarbonate Co-Transporterâ€. Biochemistry, 2003, 42, 12321-12329.	1.2	151
1309	Indisulam: an anticancer sulfonamide in clinical development. Expert Opinion on Investigational Drugs, 2003, 12, 283-287.	1.9	166
1310	Carbonic Anhydrase Inhibitors. Inhibition of Cytosolic Isozymes I and II and Transmembrane, Cancer-associated Isozyme IX with Anions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 403-406.	2.5	53
1311	Carbonic anhydrase inhibitors in the treatment and prophylaxis of obesity. Expert Opinion on Therapeutic Patents, 2003, 13, 1545-1550.	2.4	139
1312	Anticancer and Antiviral Sulfonamides. Current Medicinal Chemistry, 2003, 10, 925-953.	1.2	646
1313	Sulfonamide derivatives with protease inhibitory action as anticancer, anti-inflammatory and antiviral agents. Expert Opinion on Therapeutic Patents, 2002, 12, 1307-1327.	2.4	53
1314	Nonaromatic Sulfonamide Group as an Ideal Anchor for Potent Human Carbonic Anhydrase Inhibitors:â€‰ Role of Hydrogen-Bonding Networks in Ligand Binding and Drug Design. Journal of Medicinal Chemistry, 2002, 45, 3583-3587.	2.9	154

#	Article	IF	Citations
1315	Unsymmetrical 1,1â€²-disubstituted Ferrocenes: Synthesis of Co(ii), Cu(ii), Ni(ii) and Zn(ii) Chelates of Ferrocenyl -1-thiadiazolo-1â€²-tetrazole, -1-thiadiazolo-1â€²-triazole and -1-tetrazolo-1â€²-triazole with Antimicrobial Properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 261-266.	2.5	124
1316	Applications of carbonic anhydrase inhibitors and activators in therapy. Expert Opinion on Therapeutic Patents, 2002, 12, 217-242.	2.4	243
1317	Carbonic Anhydrase Activators:â€‰ Design of High Affinity Isozymes I, II, and IV Activators, Incorporating Tri-/Tetrasubstituted-pyridinium-azole Moieties. Journal of Medicinal Chemistry, 2002, 45, 504-510.	2.9	74
1318	Carbonic Anhydrase Activators:â€‰ High Affinity Isozymes I, II, and IV Activators, Incorporating a Î²-Alanyl-histidine Scaffold. Journal of Medicinal Chemistry, 2002, 45, 284-291.	2.9	63
1319	Carbonic Anhydrase Inhibitors. A General Approach for the Preparation of Water-Soluble Sulfonamides Incorporating Polyaminoâ^'Polycarboxylate Tails and of Their Metal Complexes Possessing Long-Lasting, Topical Intraocular Pressure-Lowering Properties. Journal of Medicinal Chemistry, 2002, 45, 1466-1476.	2.9	138
1320	Identification of cadmium-sensitive genes in the Antarctic fish Chionodraco hamatus by messenger RNA differential display. Gene, 2002, 299, 117-124.	1.0	35
1321	Bacterial protease inhibitors. Medicinal Research Reviews, 2002, 22, 329-372.	5.0	147
1322	Carbonic anhydrase activators: Human isozyme II is strongly activated by oligopeptides incorporating the carboxyterminal sequence of the bicarbonate anion exchanger AE1. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1177-1180.	1.0	68
1323	Stability and conformational dynamics of metallothioneins from the antarctic fishNotothenia coriiceps and mouse. Proteins: Structure, Function and Bioinformatics, 2002, 46, 259-267.	1.5	27
1324	Carbonic Anhydrase Inhibitors:â€‰ Anticonvulsant Sulfonamides Incorporating Valproyl and Other Lipophilic Moieties. Journal of Medicinal Chemistry, 2002, 45, 312-320.	2.9	141
1325	Structural and functional analysis of metal regulatory elements in the promoter region of genes encoding metallothionein isoforms in the Antarctic fish Chionodraco hamatus (icefish). Gene, 2001, 274, 199-208.	1.0	38
1326	Bacterial proteases: current therapeutic use and future prospects for the development of new antibiotics. Expert Opinion on Therapeutic Patents, 2001, 11, 221-259.	2.4	107
1327	Transition Metal Ion Complexes of Schiff-bases. Synthesis, Characterization and Antibacterial Properties. Metal-Based Drugs, 2001, 8, 137-143.	3.8	93
1328	Structural characterization and thermal stability of Notothenia coriiceps metallothionein. Biochemical Journal, 2001, 354, 291.	1.7	19
1329	Structural characterization and thermal stability of Notothenia coriiceps metallothionein. Biochemical Journal, 2001, 354, 291-299.	1.7	24
1330	Carbonic anhydrase inhibitors: synthesis of sulfonamides incorporating dtpa tails and of their zinc complexes with powerful topical antiglaucoma properties. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 575-582.	1.0	112
1331	Protease Inhibitors:Â Synthesis of a Series of Bacterial Collagenase Inhibitors of the Sulfonyl Amino Acyl Hydroxamate Type. Journal of Medicinal Chemistry, 2001, 44, 2253-2258.	2.9	36
1332	Arylsulfonyl-N,N-dialkyl-dithiocarbamates as Tumor Cell Growth Inhibitors: Novel Agents Targeting Î²-Tubulin?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 55-63.	0.5	11

#	Article	IF	Citations
1333	Arylsulfonyl-N,N-diethyl-dithiocarbamates: a novel class of antitumor agents. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1887-1891.	1.0	76
1334	Carbonic anhydrase inhibitors: sulfonamides incorporating furan-, thiophene- and pyrrole-carboxamido groups possess strong topical intraocular pressure lowering properties as aqueous suspensions. Bioorganic and Medicinal Chemistry, 2000, 8, 2145-2155.	1.4	67
1335	Mechanism of Cyanamide Hydration Catalyzed by Carbonic Anhydrase II Suggested by Cryogenic X-ray Diffraction. Biochemistry, 2000, 39, 12391-12397.	1.2	44
1336	Tissue-specific regulation of metallothionein and metallothionein mRNA accumulation in the Antarctic notothenioid, Notothenia coriiceps. Polar Biology, 2000, 23, 17-23.	0.5	17
1337	Susceptibility to Heavy Metals and Cadmium Accumulation in Aerobic and Anaerobic Thermophilic Microorganisms Isolated from Deep-Sea Hydrothermal Vents. Current Microbiology, 2000, 41, 201-205.	1.0	33
1338	Antifungal Activity of Ag(I) and Zn(II) Complexes of Sulfacetamide Derivatives. Metal-Based Drugs, 2000, 7, 49-54.	3.8	25
1339	Metallothionein in Antarctic notothenioids: Genetic polymorphism and differential gene expression. Italian Journal of Zoology, 2000, 67, 13-20.	0.6	1
1340	Protease Inhibitors:Â Synthesis of Potent Bacterial Collagenase and Matrix Metalloproteinase Inhibitors IncorporatingN-4-Nitrobenzylsulfonylglycine Hydroxamate Moieties. Journal of Medicinal Chemistry, 2000, 43, 1858-1865.	2.9	66
1341	Carbonic Anhydrase Activators: Synthesis of High Affinity Isozymes I, II and IV Activators, Derivatives of 4-(4-Tosylureido-Amino Acyl)Ethyl-1H-Imidazole (Histamine Derivatives). Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 139-161.	0.5	30
1342	Aspartic proteinases from Antarctic fish. A biochemical and molecular approach. Italian Journal of Zoology, 2000, 67, 21-26.	0.6	0
1343	Carbonic Anhydrase Inhibitors: Inhibition of Isozymes I, II and IV by Sulfamide and Sulfamic Acid Derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 443-453.	0.5	32
1344	Carbonic Anhydrase Inhibitors:Â Water-Soluble 4-Sulfamoylphenylthioureas as Topical Intraocular Pressure-Lowering Agents with Long-Lasting Effects. Journal of Medicinal Chemistry, 2000, 43, 4884-4892.	2.9	143
1345	Carbonic Anhydrase Inhibitors:â€‰ Perfluoroalkyl/Aryl-Substituted Derivatives of Aromatic/Heterocyclic Sulfonamides as Topical Intraocular Pressure-Lowering Agents with Prolonged Duration of Action. Journal of Medicinal Chemistry, 2000, 43, 4542-4551.	2.9	139
1346	Novel carbonic anhydrase isozymes I, II and IV activators incorporating sulfonyl-histamino moieties. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 2043-2048.	1.0	35
1347	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 1999, 7, 2397-2406.	1.4	808
1348	Carbonic anhydrase activators: amino acyl/dipeptidyl histamine derivatives bind with high affinity to isozymes I, II and IV and act as efficient activators. Bioorganic and Medicinal Chemistry, 1999, 7, 2915-2923.	1.4	28
1349	Carbonic anhydrase inhibitors â€“ Part 57: Quantum chemical QSAR of a group of 1,3,4-thiadiazole- and 1,3,4-thiadiazoline disulfonamides with carbonic anhydrase inhibitory properties. European Journal of Medicinal Chemistry, 1999, 34, 41-50.	2.6	122
1350	Carbonic anhydrase inhibitors. Part 61. Quantum chemical QSAR of a group of benzenedisulfonamides. European Journal of Medicinal Chemistry, 1999, 34, 463-474.	2.6	79

#	Article	IF	Citations
1351	Carbonic Anhydrase Inhibitors. Synthesis of Water-Soluble, Topically Effective, Intraocular Pressure-Lowering Aromatic/Heterocyclic Sulfonamides Containing Cationic or Anionic Moieties:â€‰ Is the Tail More Important than the Ring?. Journal of Medicinal Chemistry, 1999, 42, 2641-2650.	2.9	278
1352	Carbonic anhydrase catalyzes cyanamide hydration to urea: is it mimicking the physiological reaction?. Journal of Biological Inorganic Chemistry, 1999, 4, 528-536.	1.1	57
1353	Cathepsin D from the liver of the Antarctic icefish Chionodraco hamatus exhibits unusual activity and stability at high temperatures. BBA - Proteins and Proteomics, 1999, 1431, 64-73.	2.1	33
1354	Carbonic Anhydrase Inhibitors:Â Synthesis of Water-Soluble, Aminoacyl/Dipeptidyl Sulfonamides Possessing Long-Lasting Intraocular Pressure-Lowering Properties via the Topical Route1. Journal of Medicinal Chemistry, 1999, 42, 3690-3700.	2.9	153
1355	Carbonic Anhydrase Inhibitors:N-Cyanosulfonamides, a new Class of High Affinity Isozyme II and IV Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 14, 289-306.	0.5	17
1356	Accumulation of untranslated metallothionein mRNA in antarctic hemoglobinless fish (icefish). , 1999, , 167-172.		3
1357	Carbonic anhydrase inhibitors - Part 49: Synthesis of substituted ureido and thioureido derivatives of aromatic/heterocyclic sulfonamides with increased affinities for isozyme I. European Journal of Medicinal Chemistry, 1998, 33, 83-93.	2.6	152
1358	Molecular cloning and sequence determination of a novel aspartic proteinase from Antarctic fish. BBA - Proteins and Proteomics, 1998, 1387, 457-461.	2.1	24
1359	Carbonic anhydrase inhibitors â€" Part 53. Synthesis of substituted-pyridinium derivatives of aromatic sulfonamides: The first non-polymeric membrane-impermeable inhibitors with selectivity for isozyme IV. European Journal of Medicinal Chemistry, 1998, 33, 577-594.	2.6	74
1360	Carbonic anhydrase inhibitors â€" Part 29 1: Interaction of isozymes I, II and IV with benzolamide-like derivatives. European Journal of Medicinal Chemistry, 1998, 33, 739-751.	2.6	135
1361	Carbonic anhydrase inhibitors â€" Part 52. Metal complexes of heterocyclic sulfonamides: A new class of strong topical intraocular pressure-lowering agents in rabbits. European Journal of Medicinal Chemistry, 1998, 33, 247-254.	2.6	131
1362	Carbonic Anhydrase Inhibitors: Inhibition of Isozymes I, II and IV withN-Hydroxysulfonamides - A Novel Class of Intraocular Pressure Lowering Agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 1998, 13, 267-284.	0.5	28
1363	Cadmium-induced differential accumulation of metallothionein isoforms in the Antarctic icefish, which exhibits no basal metallothionein protein but high endogenous mRNA levels. Biochemical Journal, 1998, 332, 475-481.	1.7	64
1364	Metallothionein in Antarctic Fish. , 1998, , 151-161.		2
1365	Difference in hepatic metallothionein content in Antarctic red-blooded and haemoglobinless fish: undetectable metallothionein levels in haemoglobinless fish is accompanied by accumulation of untranslated metallothionein mRNA. Biochemical Journal, 1997, 322, 207-211.	1.7	48
1366	Carbonic Anhydrase Activators:â€‰ X-ray Crystallographic and Spectroscopic Investigations for the Interaction of Isozymes I and II with Histamine,. Biochemistry, 1997, 36, 10384-10392.	1.2	269
1367	Novel Aromatic/Heterocyclic Sulfonamides and Their Metal Complexes as Inhibitors of Carbonic Anhydraseisozymes I, II and IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 1997, 12, 37-51.	0.5	65
1368	Unique structural features of the monomeric Cu,Zn superoxide dismutase from Escherichia coli, revealed by X-ray crystallography. Journal of Molecular Biology, 1997, 274, 408-420.	2.0	83

#	Article	IF	Citations
1369	Carbonic Anhydrase Activators. Part 191 Spectroscopic and Kinetic Investigations for the Interaction of Isozymes I and II With Primary Amines. Metal-Based Drugs, 1997, 4, 221-227.	3.8	3
1370	PCR amplification and cloning of metallothionein complementary DNAs in temperate and Antarctic sea urchin characterized by a large difference in egg metallothionein content. Cellular and Molecular Life Sciences, 1997, 53, 472-477.	2.4	16
1371	Crystal structure of the bovine Î±-chymotrypsin:kunitz inhibitor complex. An example of multiple protein:protein recognition sites. , 1997, 10, 26-35.		40
1372	Is cyanate a carbonic anhydrase substracte?. , 1997, 27, 272-278.		46
1373	Identification of a high-molecular-weight cadmium-binding protein in copper-resistant Bacillus acidocaldarius cells. Research in Microbiology, 1996, 147, 287-296.	1.0	13
1374	Complexes With Biologically Active Ligands. Part 2. Preparation of Copper(II) Complexes of Positively-Charged Derivatives of Aminoglutethimide. Metal-Based Drugs, 1996, 3, 57-62.	3.8	1
1375	Complexes With Biologically Active Ligands. Part 4. Coordination Compounds of Chlorothiazide With Transition Metal Ions Behave as Strong Carbonic Anhydrase Inhibitors. Metal-Based Drugs, 1996, 3, 79-83.	3.8	3
1376	Isolation and characterisation of zinc-binding proteins distinct from metallothionein from the eggs of the sea urchin Strongylocentrotus intermedius. Marine Biology, 1996, 126, 225-230.	0.7	4
1377	Crystallization and preliminary Xâ€ray analysis of the monomeric Cu, Zn superoxide dismutase from Escherichia coli. Protein Science, 1996, 5, 2125-2127.	3.1	13
1378	Metal Complexes of 1,3,4-Thiadiazole-2,5-Disulfonamide are Strong Dual Carbonic Anhydrase Inhibitors, although the Ligand Possesses very Weak such Properties. Metal-Based Drugs, 1995, 2, 331-336.	3.8	11
1379	Isolation and primary structure determination of a metallothionein from Paracentrotus lividus (Echinodermata, Echinoidea). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1995, 111, 329-336.	0.7	37
1380	Carbonic Anhydrase Activators. 3: Structure-Activity Correlations for a Series of Isozyme I1 Activators. Journal of Pharmaceutical Sciences, 1994, 83, 768-773.	1.6	115
1381	Metal-binding proteins in eggs of various sea urchin species.. Cell Biology International, 1994, 18, 47-54.	1.4	16
1382	Carbonic Anhydrase Activators. VII. Isozyme II Activation by Bisazolyl-methanes, -ethanes and Related Azoles.. Biological and Pharmaceutical Bulletin, 1993, 16, 1236-1239.	0.6	29
1383	Changes of metallothiosein content in sea urchin embryos. Cell Biology International Reports, 1990, 14, 172.	0.7	0
1384	Crystallographic Studies on Carbonic Anhydrases from Fungal Pathogens for Structure-Assisted Drug Development. , 0, , 323-333.		9