Clemente Capasso

List of Publications by Year
in descending order

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1,384	87,075	385 134	1536 218
papers	citations	h-index	g-index

1407	1407	1407	29112
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.	1.8	11
2	Biochemical and structural characterization of beta-carbonic anhydrase from the parasite Trichomonas vaginalis. Journal of Molecular Medicine, 2022, 100, 115-124.	3.9	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.	4.1	6
4	Novel benzenesulfonamideâ€bearing pyrazoles and 1,2,4â€thiadiazoles as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2100241.	4.1	11
5	Natural inspired ligustrazine-based SLC-0111 analogues as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 228, 114008.	5.5	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.	5.5	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.	5.5	16
8	Post-translational modifications in tumor-associated carbonic anhydrases. Amino Acids, 2022, 54, 543-558.	2.7	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.	5.2	15
10	Coumarins effectively inhibit bacterial Î±-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 333-338.	5.2	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.	5.5	1
12	The Role of Selenium in Pathologies: An Updated Review. Antioxidants, 2022, 11, 251.	5.1	120
13	New Histamine-Related Five-Membered N-Heterocycle Derivatives as Carbonic Anhydrase I Activators. Molecules, 2022, 27, 545.	3.8	2
14	Chagas Disease: Drug Development and Parasite Targets. Topics in Medicinal Chemistry, 2022, , 1.	0.8	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.	5.5	26
16	Inhibition studies of bacterial Î±-carbonic anhydrases with phenols. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 666-671.	5.2	18
17	Coumarins inhibit Î²-class carbonic anhydrase from Plasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 680-685.	5.2	8
18	Acipimox inhibits human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 672-679.	5.2	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.	5.2	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.	5.2	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.	5.2	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.	4.1	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.	5.2	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.	5.2	13
25	Carbonic Anhydrase Inhibitors Featuring a Porphyrin Scaffold: Synthesis, Optical and Biological Properties. European Journal of Organic Chemistry, 2022, 2022, .	2.4	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.	2.3	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.	5.2	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.	2.3	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.	5.2	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.	5.2	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.	5.0	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.	5.2	19
33	Pyrazolo[4,3-c]pyridine Sulfonamides as Carbonic Anhydrase Inhibitors: Synthesis, Biological and In Silico Studies. Pharmaceuticals, 2022, 15, 316.	3.8	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.	4.1	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.	5.2	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.	5.5	7

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37	Benzoselenoates: A novel class of carbonic anhydrase inhibitors. Bioorganic Chemistry, 2022, 122, 105751.	4.1	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.	4.1	11
39	Heterobimetallic complexes containing organometallic acylhydrazone ligands as potential inhibitors of human carbonic anhydrases. Journal of Inorganic Biochemistry, 2022, 232, 111814.	3.5	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.	4.1	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.	4.1	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.	6.4	8
43	Dithiocarbamates effectively inhibit the Î±-carbonic anhydrase from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1-8.	5.2	13
44	Ureidosulfocoumarin Derivatives As Selective and Potent Carbonic Anhydrase IX and XII Inhibitors. ChemMedChem, 2022, 17, e202100725.	3.2	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.	5.2	8
46	Calixarenes Incorporating Sulfonamide Moieties: Versatile Ligands for Carbonic Anhydrases Inhibition. Chemistry - A European Journal, 2022, 28, .	3.3	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.	5.2	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.	4.1	3
49	Immobilization of carbonic anhydrase for CO2 capture and utilization. Applied Microbiology and Biotechnology, 2022, 106, 3419-3430.	3.6	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.	5.2	5
51	The production and biochemical characterization of Î±-carbonic anhydrase from Lactobacillus rhamnosus GG. Applied Microbiology and Biotechnology, 2022, 106, 4065-4074.	3.6	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.	5.2	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.	5.2	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.	5.2	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.	5.2	5
56	Anticancer carbonic anhydrase inhibitors: a patent and literature update 2018-2022. Expert Opinion on Therapeutic Patents, 2022, 32, 833-847.	5.0	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.	4.1	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.	4.1	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.	5.2	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.	2.9	7
61	Synthesis and biological evaluation of sulfonamideâ€based compounds as inhibitors of carbonic anhydrase from Vibrio cholerae. Archiv Der Pharmazie, 2022, 355, .	4.1	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.	4.1	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.	5.2	21
64	Continued Structural Exploration of Sulfocoumarin as Selective Inhibitor of Tumor-Associated Human Carbonic Anhydrases IX and XII. Molecules, 2022, 27, 4076.	3.8	4
65	Cancer Therapeutic Targeting of Hypoxia Induced Carbonic Anhydrase IX: From Bench to Bedside. Cancers, 2022, 14, 3297.	3.7	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.	4.1	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.	5.5	38
68	Ninhydrins inhibit carbonic anhydrases directly binding to the metal ion. European Journal of Medicinal Chemistry, 2021, 209, 112875.	5.5	18
69	Radiotracers for positron emission tomography (PET) targeting tumour-associated carbonic anhydrase isoforms. European Journal of Medicinal Chemistry, 2021, 213, 113046.	5.5	12
70	Response to Perspectives on the Classical Enzyme Carbonic Anhydrase and the Search for Inhibitors. Biophysical Journal, 2021, 120, 178-181.	0.5	16
71	Protease inhibitors targeting the main protease and papain-like protease of coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 309-324.	5.0	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.	5.2	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.	5.2	3
74	Anion inhibition studies of the Î±-carbonic anhydrases from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1061-1066.	5.2	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.	4.1	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.	5.2	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.	4.1	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.	5.2	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.	5.2	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.	4.1	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.	5.2	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.	5.2	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.	5.2	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.	5.2	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.	5.2	21
87	Handling drug-target selectivity: A study on ureido containing Carbonic Anhydrase inhibitors. European Journal of Medicinal Chemistry, 2021, 212, 113035.	5.5	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.	4.1	7
89	Carbonic Anhydrases: New Perspectives on Protein Functional Role and Inhibition in Helicobacter pylori. Frontiers in Microbiology, 2021, 12, 629163.	3.5	42
90	Discovery of a novel series of indolylchalcone-benzenesulfonamide hybrids acting as selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2021, 108, 104647.	4.1	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.	5.5	6
92	Structureâ€“Activity Relationship Studies of Acetazolamide-Based Carbonic Anhydrase Inhibitors with Activity against Neisseria gonorrhoeae. ACS Infectious Diseases, 2021, 7, 1969-1984.	3.8	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.	6.4	17
94	Coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 291-294.	5.0	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.	5.5	38
96	Benzyl alcohol inhibits carbonic anhydrases by anchoring to the zinc coordinated water molecule. Biochemical and Biophysical Research Communications, 2021, 548, 217-221.	2.1	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.	2.9	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.	4.1	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.	4.1	10
100	The Glitazone Class of Drugs as Carbonic Anhydrase Inhibitorsâ€”A Spin-Off Discovery from Fragment Screening. Molecules, 2021, 26, 3010.	3.8	6
101	Advances in the discovery of novel agents for the treatment of glaucoma. Expert Opinion on Drug Discovery, 2021, 16, 1209-1225.	5.0	24
102	Emerging role of carbonic anhydrase inhibitors. Clinical Science, 2021, 135, 1233-1249.	4.3	117
103	Chromene-Containing Aromatic Sulfonamides with Carbonic Anhydrase Inhibitory Properties. International Journal of Molecular Sciences, 2021, 22, 5082.	4.1	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.	2.4	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.	5.0	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.	5.5	30
107	Quinoline-sulfamoyl carbamates/sulfamide derivatives: Synthesis, cytotoxicity, carbonic anhydrase activity, and molecular modelling studies. Bioorganic Chemistry, 2021, 110, 104778.	4.1	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.	4.1	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.	5.5	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.	5.5	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.	5.5	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.	3.8	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.	6.4	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.	4.1	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.	3.0	2
117	Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. Angewandte Chemie - International Edition, 2021, 60, 23068-23082.	13.8	17
118	New Sulfanilamide Derivatives Incorporating Heterocyclic Carboxamide Moieties as Carbonic Anhydrase Inhibitors. Pharmaceuticals, 2021, 14, 828.	3.8	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, .	10.3	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.	3.0	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.	5.5	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.	2.3	14
123	4â€Sulfamoylphenylalkylamides as Inhibitors of Carbonic Anhydrases Expressed in Vibrio cholerae. ChemMedChem, 2021, 16, 3787-3794.	3.2	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.	2.2	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.	2.2	20
126	Carbonic Anhydrase IV Selective Inhibitors Counteract the Development of Colitis-Associated Visceral Pain in Rats. Cells, 2021, 10, 2540.	4.1	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.	1.4	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.	2.3	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.	5.5	19
131	Bacterial carbonic anhydrases: underexploited antibacterial therapeutic targets. Future Medicinal Chemistry, 2021, 13, 1619-1622.	2.3	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.	5.5	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.	4.1	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.	5.5	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.	5.2	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.	5.2	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.	5.2	14
138	Natural products in drug discovery: advances and opportunities. Nature Reviews Drug Discovery, 2021, 20, 200-216.	46.4	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.	5.2	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.	5.2	10
141	An overview on the recently discovered iota-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1988-1995.	5.2	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.	5.2	81
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