Claudiu T Supuran

List of Publications by Year
in descending order

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1,806	100,386	333 137	1381 222
papers	citations	h-index	g-index

1855	1855	1855	31548
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbonic anhydrases: novel therapeutic applications for inhibitors and activators. Nature Reviews Drug Discovery, 2008, 7, 168-181.	21.5	2,702
2	Natural products in drug discovery: advances and opportunities. Nature Reviews Drug Discovery, 2021, 20, 200-216.	21.5	1,990
3	Interfering with pH regulation in tumours as a therapeutic strategy. Nature Reviews Drug Discovery, 2011, 10, 767-777.	21.5	1,340
4	Carbonic anhydrase inhibitors. Medicinal Research Reviews, 2003, 23, 146-189.	5.0	1,126
5	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
6	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 1999, 7, 2397-2406.	1.4	808
7	Structure and function of carbonic anhydrases. Biochemical Journal, 2016, 473, 2023-2032.	1.7	688
8	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
9	Anticancer and Antiviral Sulfonamides. Current Medicinal Chemistry, 2003, 10, 925-953.	1.2	646
10	Hypoxia activates the capacity of tumor-associated carbonic anhydrase IX to acidify extracellular pH. FEBS Letters, 2004, 577, 439-445.	1.3	620
11	Review Article. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 199-229.	2.5	595
12	How many carbonic anhydrase inhibition mechanisms exist?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 345-360.	2.5	588
13	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3467-3474.	1.0	579
14	Structure-based drug discovery of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 759-772.	2.5	554
15	Carbonic anhydrases as targets for medicinal chemistry. Bioorganic and Medicinal Chemistry, 2007, 15, 4336-4350.	1.4	521
16	Carbonic anhydrase inhibitors and their therapeutic potential. Expert Opinion on Therapeutic Patents, 2000, 10, 575-600.	2.4	485
17	Carbonic Anhydrases An Overview. Current Pharmaceutical Design, 2008, 14, 603-614.	0.9	476
18	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

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19	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
20	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
21	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
22	Protease inhibitors of the sulfonamide type: Anticancer, antiinflammatory, and antiviral agents. Medicinal Research Reviews, 2003, 23, 535-558.	5.0	385
23	Recent Developments in Targeting Carbonic Anhydrase IX for Cancer Therapeutics. Oncotarget, 2012, 3, 84-97.	0.8	365
24	Deciphering the Mechanism of Carbonic Anhydrase Inhibition with Coumarins and Thiocoumarins. Journal of Medicinal Chemistry, 2010, 53, 335-344.	2.9	363
25	Targeting tumor-associated carbonic anhydrase IX in cancer therapy. Trends in Pharmacological Sciences, 2006, 27, 566-573.	4.0	362
26	Advances in structure-based drug discovery of carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2017, 12, 61-88.	2.5	356
27	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
28	Adverse Cardiovascular Effects of the Coxibs. Journal of Medicinal Chemistry, 2005, 48, 2251-2257.	2.9	304
29	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
30	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
31	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
32	Antiglaucoma carbonic anhydrase inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 705-716.	2.4	273
33	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
34	Carbonic anhydrase inhibitors and activators for novel therapeutic applications. Future Medicinal Chemistry, 2011, 3, 1165-1180.	1.1	260
35	Biochemical Characterization of CA IX, One of the Most Active Carbonic Anhydrase Isozymes. Journal of Biological Chemistry, 2008, 283, 27799-27809.	1.6	258
36	The Warburg Effect and the Hallmarks of Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 164-170.	0.9	258

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37	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
38	Carbonic anhydrase inhibitors: Sulfonamides as antitumor agents?. Bioorganic and Medicinal Chemistry, 2001, 9, 703-714.	1.4	252
39	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
40	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
41	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
42	Antiobesity carbonic anhydrase inhibitors: a literature and patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 725-735.	2.4	246
43	Sulfonamides and Sulfonylated Derivatives as Anticancer Agents. Current Cancer Drug Targets, 2002, 2, 55-75.	0.8	243
44	Applications of carbonic anhydrase inhibitors and activators in therapy. Expert Opinion on Therapeutic Patents, 2002, 12, 217-242.	2.4	243
45	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
46	Bacterial Carbonic Anhydrases as Drug Targets: Toward Novel Antibiotics?. Frontiers in Pharmacology, 2011, 2, 34.	1.6	229
47	Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2013, 8, 793-810.	2.5	229
48	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
49	Anticancer carbonic anhydrase inhibitors: a patent review (2008 â€“ 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 737-749.	2.4	226
50	Carbonic Anhydrase and Matrix Metalloproteinase Inhibitors:â€‰ Sulfonylated Amino Acid Hydroxamates with MMP Inhibitory Properties Act as Efficient Inhibitors of CA Isozymes I, II, and IV, and N-Hydroxysulfonamides Inhibit Both These Zinc Enzymes. Journal of Medicinal Chemistry, 2000, 43, 3677-3687.	2.9	224
51	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
52	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
53	Carbonic Anhydrase in the Scleractinian Coral Stylophora pistillata. Journal of Biological Chemistry, 2008, 283, 25475-25484.	1.6	221
54	Diuretics: From Classical Carbonic Anhydrase Inhibitors to Novel Applications of the Sulfonamides. Current Pharmaceutical Design, 2008, 14, 641-648.	0.9	219

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55	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
56	Dithiocarbamates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Action in Vivo. Journal of Medicinal Chemistry, 2012, 55, 1721-1730.	2.9	211
57	Characterization of CA XIII, a Novel Member of the Carbonic Anhydrase Isozyme Family. Journal of Biological Chemistry, 2004, 279, 2719-2727.	1.6	210
58	Carbonic anhydrase IX: A new druggable target for the design of antitumor agents. Medicinal Research Reviews, 2008, 28, 445-463.	5.0	210
59	Carbonic Anhydrase Inhibitors as Anticonvulsant Agents. Current Topics in Medicinal Chemistry, 2007, 7, 855-864.	1.0	209
60	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
61	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
62	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
63	Polyamines Inhibit Carbonic Anhydrases by Anchoring to the Zinc-Coordinated Water Molecule. Journal of Medicinal Chemistry, 2010, 53, 5511-5522.	2.9	205
64	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
65	Anti-infective carbonic anhydrase inhibitors: a patent and literature review. Expert Opinion on Therapeutic Patents, 2013, 23, 693-704.	2.4	203
66	Sulfonamides: a patent review (2008 â€" 2012). Expert Opinion on Therapeutic Patents, 2012, 22, 747-758.	2.4	201
67	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
68	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
69	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
70	Carbonic Anhydrase Inhibition and the Management of Hypoxic Tumors. Metabolites, 2017, 7, 48.	1.3	197
71	Carbonic Anhydrase Inhibitors. Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents, 2001, 1, 61-97.	0.2	195
72	Carbonic Anhydrases as Drug Targets - An Overview. Current Topics in Medicinal Chemistry, 2007, 7, 825-833.	1.0	195

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73	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
74	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
75	Sulfamates and their therapeutic potential. Medicinal Research Reviews, 2005, 25, 186-228.	5.0	191
76	Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with aromatic and heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1005-1009.	1.0	189
77	The α and β Classes Carbonic Anhydrases from Helicobacter pylori as Novel Drug Targets. Current Pharmaceutical Design, 2008, 14, 622-630.	0.9	188
78	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
79	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
80	(In)organic anions as carbonic anhydrase inhibitors. Journal of Inorganic Biochemistry, 2012, 111, 117-129.	1.5	186
81	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
82	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
83	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
84	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
85	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
86	Carbonic anhydrases in anthozoan coralsâ€”A review. Bioorganic and Medicinal Chemistry, 2013, 21, 1437-1450.	1.4	174
87	Bacterial, fungal and protozoan carbonic anhydrases as drug targets. Expert Opinion on Therapeutic Targets, 2015, 19, 1689-1704.	1.5	174
88	Therapeutic potential of sulfamides as enzyme inhibitors. Medicinal Research Reviews, 2006, 26, 767-792.	5.0	173
89	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
90	Sulfonamides and their isosters as carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2014, 6, 1149-1165.	1.1	172

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91	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
92	In vitro inhibition of Î±-carbonic anhydrase isozymes by some phenolic compounds. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4259-4262.	1.0	170
93	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
94	Saccharin Inhibits Carbonic Anhydrases: Possible Explanation for its Unpleasant Metallic Aftertaste. Angewandte Chemie - International Edition, 2007, 46, 7697-7699.	7.2	168
95	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
96	New strategies for targeting the hypoxic tumour microenvironment in breast cancer. Cancer Treatment Reviews, 2013, 39, 171-179.	3.4	167
97	Indisulam: an anticancer sulfonamide in clinical development. Expert Opinion on Investigational Drugs, 2003, 12, 283-287.	1.9	166
98	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
99	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. Expert Opinion on Emerging Drugs, 2008, 13, 383-392.	1.0	165
100	An Overview of the Bacterial Carbonic Anhydrases. Metabolites, 2017, 7, 56.	1.3	165
101	Carbonic Anhydrases and Metabolism. Metabolites, 2018, 8, 25.	1.3	164
102	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
103	Carbonic anhydrase inhibitors as antitumor/antimetastatic agents: a patent review (2008â€“2018). Expert Opinion on Therapeutic Patents, 2018, 28, 729-740.	2.4	160
104	Modulation of carbonic anhydrase activity and its applications in therapy. Expert Opinion on Therapeutic Patents, 2004, 14, 667-702.	2.4	159
105	Carbonic anhydrase inhibitors and activators and their use in therapy. Expert Opinion on Therapeutic Patents, 2006, 16, 1627-1664.	2.4	158
106	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
107	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
108	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

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109	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. Chemical Communications, 2012, 48, 1868.	2.2	157
110	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
111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	Carbonic anhydrase inhibitors. Antioxidant polyphenols effectively inhibit mammalian isoforms Iâ€“XV. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5050-5053.	1.0	151
119	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
120	Are Carbonic Anhydrase Inhibitors Suitable for Obtaining Antiobesity Drugs ?. Current Pharmaceutical Design, 2008, 14, 655-660.	0.9	150
121	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
122	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
123	Antimetastatic Effect of Sulfamate Carbonic Anhydrase IX Inhibitors in Breast Carcinoma Xenografts. Journal of Medicinal Chemistry, 2012, 55, 5591-5600.	2.9	149
124	Carbonic Anhydrase Inhibitors:Â Synthesis of Membrane-Impermeant Low Molecular Weight Sulfonamides Possessing in Vivo Selectivity for the Membrane-Bound versus Cytosolic Isozymes1. Journal of Medicinal Chemistry, 2000, 43, 292-300.	2.9	147
125	Bacterial protease inhibitors. Medicinal Research Reviews, 2002, 22, 329-372.	5.0	147
126	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

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127	Metal binding and antibacterial activity of ciprofloxacin complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 303-307.	2.5	147
128	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
129	Zinc Complexes of Benzothiazole-derived Schiff Bases with Antibacterial Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 259-263.	2.5	146
130	The Î·-class carbonic anhydrases as drug targets for antimalarial agents. Expert Opinion on Therapeutic Targets, 2015, 19, 551-563.	1.5	146
131	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
132	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
133	Carbonic Anhydrase Inhibitors. Inhibition of Mitochondrial Isozyme V with Aromatic and Heterocyclic Sulfonamides. Journal of Medicinal Chemistry, 2004, 47, 1272-1279.	2.9	143
134	N-Acylsulfonamides strongly inhibit human carbonic anhydrase isoenzymes I and II. Bioorganic and Medicinal Chemistry, 2015, 23, 2598-2605.	1.4	142
135	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
136	Carbonic Anhydrase Inhibitors:â€‰ Anticonvulsant Sulfonamides Incorporating Valproyl and Other Lipophilic Moieties. Journal of Medicinal Chemistry, 2002, 45, 312-320.	2.9	141
137	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
138	Efficient Expression and Crystallization System of Cancer-Associated Carbonic Anhydrase Isoform IX. Journal of Medicinal Chemistry, 2015, 58, 9004-9009.	2.9	141
139	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
140	Benzothiazole derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 265-279.	2.5	140
141	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
142	Carbonic anhydrase inhibitors in the treatment and prophylaxis of obesity. Expert Opinion on Therapeutic Patents, 2003, 13, 1545-1550.	2.4	139
143	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
144	Carbonic Anhydrase Inhibitors. Inhibition of Cytosolic Isozymes I and II and Transmembrane, Tumor-Associated Isozyme IX with Sulfamates Including EMATE Also Acting as Steroid Sulfatase Inhibitors. Journal of Medicinal Chemistry, 2003, 46, 2197-2204.	2.9	138

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145	Designing of Novel Carbonic Anhydrase Inhibitors and Activators. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2004, 2, 49-68.	1.7	138
146	Carbonic anhydrase inhibitors: Inhibition of the transmembrane isozyme XIV with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3828-3833.	1.0	138
147	Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. Expert Opinion on Therapeutic Patents, 2018, 28, 709-712.	2.4	138
148	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
149	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
150	Carbonic anhydrase IX from cancer-associated fibroblasts drives epithelial-mesenchymal transition in prostate carcinoma cells. Cell Cycle, 2013, 12, 1791-1801.	1.3	136
151	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
152	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
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