Clemente Capasso

List of Publications by Year
in descending order

1,384 papers	87,075 citations	385 134 h-index	1536 218 g-index
1407 all docs	1407 docs citations	1407 times ranked	29112 citing authors

#	Article	IF	Citations
1	Carbonic anhydrases: novel therapeutic applications for inhibitors and activators. Nature Reviews Drug Discovery, 2008, 7, 168-181.	46.4	2,702
2	Natural products in drug discovery: advances and opportunities. Nature Reviews Drug Discovery, 2021, 20, 200-216.	46.4	1,990
3	Interfering with pH regulation in tumours as a therapeutic strategy. Nature Reviews Drug Discovery, 2011, 10, 767-777.	46.4	1,340
4	Carbonic anhydrase inhibitors. Medicinal Research Reviews, 2003, 23, 146-189.	10.5	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.	47.7	1,056
6	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 1999, 7, 2397-2406.	3.0	808
7	Structure and function of carbonic anhydrases. Biochemical Journal, 2016, 473, 2023-2032.	3.7	688
8	Targeting Tumor Hypoxia: Suppression of Breast Tumor Growth and Metastasis by Novel Carbonic Anhydrase IX Inhibitors. Cancer Research, 2011, 71, 3364-3376.	0.9	662
9	Anticancer and Antiviral Sulfonamides. Current Medicinal Chemistry, 2003, 10, 925-953.	2.4	646
10	Hypoxia activates the capacity of tumorâ€associated carbonic anhydrase IX to acidify extracellular pH. FEBS Letters, 2004, 577, 439-445.	2.8	620
11	Review Article. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 199-229.	5.2	595
12	How many carbonic anhydrase inhibition mechanisms exist?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 345-360.	5.2	588
13	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3467-3474.	2.2	579
14	Structure-based drug discovery of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 759-772.	5.2	554
15	Carbonic anhydrases as targets for medicinal chemistry. Bioorganic and Medicinal Chemistry, 2007, 15, 4336-4350.	3.0	521
16	Carbonic Anhydrases An Overview. Current Pharmaceutical Design, 2008, 14, 603-614.	1.9	476
17	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.	13.7	457
18	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.	7.1	451

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19	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.	6.4	443
20	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.	6.4	426
21	Protease inhibitors of the sulfonamide type: Anticancer, antiinflammatory, and antiviral agents. Medicinal Research Reviews, 2003, 23, 535-558.	10.5	385
22	Recent Developments in Targeting Carbonic Anhydrase IX for Cancer Therapeutics. Oncotarget, 2012, 3, 84-97.	1.8	365
23	Deciphering the Mechanism of Carbonic Anhydrase Inhibition with Coumarins and Thiocoumarins. Journal of Medicinal Chemistry, 2010, 53, 335-344.	6.4	363
24	Targeting tumor-associated carbonic anhydrase IX in cancer therapy. Trends in Pharmacological Sciences, 2006, 27, 566-573.	8.7	362
25	Advances in structure-based drug discovery of carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2017, 12, 61-88.	5.0	356
26	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.	5.2	328
27	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.	2.2	297
28	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.	6.4	278
29	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.	5.2	278
30	Antiglaucoma carbonic anhydrase inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 705-716.	5.0	273
31	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.	2.5	269
32	Carbonic anhydrase inhibitors and activators for novel therapeutic applications. Future Medicinal Chemistry, 2011, 3, 1165-1180.	2.3	260
33	Biochemical Characterization of CA IX, One of the Most Active Carbonic Anhydrase Isozymes. Journal of Biological Chemistry, 2008, 283, 27799-27809.	3.4	258
34	The Warburg Effect and the Hallmarks of Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 164-170.	1.7	258
35	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.	5.2	255
36	Diuretics with carbonic anhydrase inhibitory action: a patent and literature review (2005 â€" 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 681-691.	5.0	252

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37	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.	2.2	251
38	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.	3.4	249
39	Antiobesity carbonic anhydrase inhibitors: a literature and patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 725-735.	5.0	246
40	Applications of carbonic anhydrase inhibitors and activators in therapy. Expert Opinion on Therapeutic Patents, 2002, 12, 217-242.	5.0	243
41	A Smallâ€Molecule Drug Conjugate for the Treatment of Carbonic Anhydrase IX Expressing Tumors. Angewandte Chemie - International Edition, 2014, 53, 4231-4235.	13.8	242
42	Bacterial Carbonic Anhydrases as Drug Targets: Toward Novel Antibiotics?. Frontiers in Pharmacology, 2011, 2, 34.	3.5	229
43	Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2013, 8, 793-810.	5.0	229
44	Glycosyl Coumarin Carbonic Anhydrase IX and XII Inhibitors Strongly Attenuate the Growth of Primary Breast Tumors. Journal of Medicinal Chemistry, 2011, 54, 8271-8277.	6.4	228
45	Anticancer carbonic anhydrase inhibitors: a patent review (2008 â€“ 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 737-749.	5.0	226
46	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.	1.9	222
47	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.	2.2	221
48	Carbonic Anhydrase in the Scleractinian Coral Stylophora pistillata. Journal of Biological Chemistry, 2008, 283, 25475-25484.	3.4	221
49	Diuretics: From Classical Carbonic Anhydrase Inhibitors to Novel Applications of the Sulfonamides. Current Pharmaceutical Design, 2008, 14, 641-648.	1.9	219
50	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.	2.2	212
51	Dithiocarbamates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Action in Vivo. Journal of Medicinal Chemistry, 2012, 55, 1721-1730.	6.4	211
52	Characterization of CA XIII, a Novel Member of the Carbonic Anhydrase Isozyme Family. Journal of Biological Chemistry, 2004, 279, 2719-2727.	3.4	210
53	Carbonic Anhydrase Inhibitors as Anticonvulsant Agents. Current Topics in Medicinal Chemistry, 2007, 7, 855-864.	2.1	209
54	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.	3.0	207

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55	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.	10.5	207
56	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.	6.4	205
57	Polyamines Inhibit Carbonic Anhydrases by Anchoring to the Zinc-Coordinated Water Molecule. Journal of Medicinal Chemistry, 2010, 53, 5511-5522.	6.4	205
58	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.	3.0	204
59	Anti-infective carbonic anhydrase inhibitors: a patent and literature review. Expert Opinion on Therapeutic Patents, 2013, 23, 693-704.	5.0	203
60	Sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2012, 22, 747-758.	5.0	201
61	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.	13.7	200
62	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.	4.1	200
63	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.	6.4	199
64	Carbonic Anhydrase Inhibition and the Management of Hypoxic Tumors. Metabolites, 2017, 7, 48.	2.9	197
65	Carbonic Anhydrases as Drug Targets - An Overview. Current Topics in Medicinal Chemistry, 2007, 7, 825-833.	2.1	195
66	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. Expert Opinion on Investigational Drugs, 2018, 27, 963-970.	4.1	195
67	Structure and Inhibition of the CO2-Sensing Carbonic Anhydrase Can2 from the Pathogenic Fungus Cryptococcus neoformans. Journal of Molecular Biology, 2009, 385, 1207-1220.	4.2	193
68	Sulfamates and their therapeutic potential. Medicinal Research Reviews, 2005, 25, 186-228.	10.5	191
69	The α and β Classes Carbonic Anhydrases from Helicobacter pylori as Novel Drug Targets. Current Pharmaceutical Design, 2008, 14, 622-630.	1.9	188
70	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.	6.4	187
71	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.	2.2	186
72	(In)organic anions as carbonic anhydrase inhibitors. Journal of Inorganic Biochemistry, 2012, 111, 117-129.	3.5	186

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73	Tumor-associated Carbonic Anhydrase 9 Spatially Coordinates Intracellular pH in Three-dimensional Multicellular Growths. Journal of Biological Chemistry, 2008, 283, 20473-20483.	3.4	185
74	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.	0.6	185
75	Carbonic Anhydrase Inhibitors. The Mitochondrial Isozyme VB as a New Target for Sulfonamide and Sulfamate Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 7860-7866.	6.4	179
76	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.	6.4	179
77	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.	2.2	176
78	Carbonic anhydrases in anthozoan coralsâ€"A review. Bioorganic and Medicinal Chemistry, 2013, 21, 1437-1450.	3.0	174
79	Bacterial, fungal and protozoan carbonic anhydrases as drug targets. Expert Opinion on Therapeutic Targets, 2015, 19, 1689-1704.	3.4	174
80	Therapeutic potential of sulfamides as enzyme inhibitors. Medicinal Research Reviews, 2006, 26, 767-792.	10.5	173
81	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.	5.2	173
82	Sulfonamides and their isosters as carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2014, 6, 1149-1165.	2.3	172
83	In Vitro Inhibition of Human Carbonic Anhydrase I and II Isozymes with Natural Phenolic Compounds. Chemical Biology and Drug Design, 2011, 77, 494-499.	3.2	170
84	In vitro inhibition of Î±-carbonic anhydrase isozymes by some phenolic compounds. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4259-4262.	2.2	170
85	A Novel Class of Carbonic Anhydrase Inhibitors:â€‰ Glycoconjugate Benzene Sulfonamides Prepared by â€œClick-Tailingâ€• Journal of Medicinal Chemistry, 2006, 49, 6539-6548.	6.4	168
86	Saccharin Inhibits Carbonic Anhydrases: Possible Explanation for its Unpleasant Metallic Aftertaste. Angewandte Chemie - International Edition, 2007, 46, 7697-7699.	13.8	168
87	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.	5.2	167
88	New strategies for targeting the hypoxic tumour microenvironment in breast cancer. Cancer Treatment Reviews, 2013, 39, 171-179.	7.7	167
89	Indisulam: an anticancer sulfonamide in clinical development. Expert Opinion on Investigational Drugs, 2003, 12, 283-287.	4.1	166
90	Carbonic anhydrase IX: Biochemical and crystallographic characterization of a novel antitumor target. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 404-409.	2.3	166

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91	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. Expert Opinion on Emerging Drugs, 2008, 13, 383-392.	2.4	165
92	An Overview of the Bacterial Carbonic Anhydrases. Metabolites, 2017, 7, 56.	2.9	165
93	Carbonic Anhydrases and Metabolism. Metabolites, 2018, 8, 25.	2.9	164
94	Review on plug-in electric vehicle charging architectures integrated with distributed energy sources for sustainable mobility. Applied Energy, 2017, 207, 438-464.	10.1	162
95	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. Bioorganic and Medicinal Chemistry, 2008, 16, 9101-9105.	3.0	160
96	Carbonic anhydrase inhibitors as antitumor/antimetastatic agents: a patent review (2008â€"2018). Expert Opinion on Therapeutic Patents, 2018, 28, 729-740.	5.0	160
97	Modulation of carbonic anhydrase activity and its applications in therapy. Expert Opinion on Therapeutic Patents, 2004, 14, 667-702.	5.0	159
98	Carbonic anhydrase inhibitors and activators and their use in therapy. Expert Opinion on Therapeutic Patents, 2006, 16, 1627-1664.	5.0	158
99	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.	6.4	157
100	Imaging the hypoxia surrogate marker CA IX requires expression and catalytic activity for binding fluorescent sulfonamide inhibitors. Radiotherapy and Oncology, 2007, 83, 367-373.	0.6	157
101	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.	2.2	157
102	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. Chemical Communications, 2012, 48, 1868.	4.1	157
103	Specific inhibition of carbonic anhydrase IX activity enhances the in vivo therapeutic effect of tumor irradiation. Radiotherapy and Oncology, 2011, 99, 424-431.	0.6	156
104	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.	6.4	154
105	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.	6.4	154
106	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.	4.1	154
107	Progress in the development of human carbonic anhydraseÂinhibitors and their pharmacological applications: Where are we today?. Medicinal Research Reviews, 2020, 40, 2485-2565.	10.5	154
108	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.	6.4	153

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109	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.	1.3	153
110	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.	5.5	152
111	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.	2.2	152
112	Direct Extracellular Interaction between Carbonic Anhydrase IV and the Human NBC1 Sodium/Bicarbonate Co-Transporterâ€. Biochemistry, 2003, 42, 12321-12329.	2.5	151
113	Carbonic anhydrase inhibitors. Antioxidant polyphenols effectively inhibit mammalian isoforms Iâ€“XV. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5050-5053.	2.2	151
114	Carbonic anhydrase inhibitors: The first selective, membrane-impermeant inhibitors targeting the tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 869-873.	2.2	150
115	Are Carbonic Anhydrase Inhibitors Suitable for Obtaining Antiobesity Drugs ?. Current Pharmaceutical Design, 2008, 14, 655-660.	1.9	150
116	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.	5.2	150
117	Carbonic Anhydrase Inhibitors. Design of Selective, Membrane-Impermeant Inhibitors Targeting the Human Tumor-Associated Isozyme IX. Journal of Medicinal Chemistry, 2004, 47, 2337-2347.	6.4	149
118	Antimetastatic Effect of Sulfamate Carbonic Anhydrase IX Inhibitors in Breast Carcinoma Xenografts. Journal of Medicinal Chemistry, 2012, 55, 5591-5600.	6.4	149
119	Bacterial protease inhibitors. Medicinal Research Reviews, 2002, 22, 329-372.	10.5	147
120	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.	2.2	147
121	Metal binding and antibacterial activity of ciprofloxacin complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 303-307.	5.2	147
122	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.	6.4	147
123	Zinc Complexes of Benzothiazole-derived Schiff Bases with Antibacterial Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 259-263.	5.2	146
124	The Î·-class carbonic anhydrases as drug targets for antimalarial agents. Expert Opinion on Therapeutic Targets, 2015, 19, 551-563.	3.4	146
125	Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 971-976.	2.2	145
126	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.	6.4	143

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127	N-Acylsulfonamides strongly inhibit human carbonic anhydrase isoenzymes I and II. Bioorganic and Medicinal Chemistry, 2015, 23, 2598-2605.	3.0	142
128	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.	5.2	142
129	Carbonic Anhydrase Inhibitors:â€‰ Anticonvulsant Sulfonamides Incorporating Valproyl and Other Lipophilic Moieties. Journal of Medicinal Chemistry, 2002, 45, 312-320.	6.4	141
130	Carbonic Anhydrase Inhibitors. Inhibition of Tumor-Associated Isozyme IX by Halogenosulfanilamide and Halogenophenylaminobenzolamide Derivativesâ€. Journal of Medicinal Chemistry, 2003, 46, 2187-2196.	6.4	141
131	Efficient Expression and Crystallization System of Cancer-Associated Carbonic Anhydrase Isoform IX. Journal of Medicinal Chemistry, 2015, 58, 9004-9009.	6.4	141
132	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.	1.3	141
133	Benzothiazole derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 265-279.	5.2	140
134	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.	6.4	139
135	Carbonic anhydrase inhibitors in the treatment and prophylaxis of obesity. Expert Opinion on Therapeutic Patents, 2003, 13, 1545-1550.	5.0	139
136	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.	6.4	138
137	Carbonic anhydrase inhibitors: Inhibition of the transmembrane isozyme XIV with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3828-3833.	2.2	138
138	Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. Expert Opinion on Therapeutic Patents, 2018, 28, 709-712.	5.0	138
139	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.	2.2	137
140	Discovery of potent carbonic anhydrase and acetylcholine esterase inhibitors: Novel sulfamoylcarbamates and sulfamides derived from acetophenones. Bioorganic and Medicinal Chemistry, 2015, 23, 3592-3602.	3.0	137
141	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.	5.5	135
142	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.	2.2	135
143	Carbonic anhydrase IX inhibitors in cancer therapy: an update. Future Medicinal Chemistry, 2015, 7, 1407-1414.	2.3	135
144	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.	3.2	134

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145	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.	2.4	132
146	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.	5.5	131
147	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.	3.3	131
148	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.	5.2	131
149	Experimental analysis on the performance of lithium based batteries for road full electric and hybrid vehicles. Applied Energy, 2014, 136, 921-930.	10.1	131
150	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.	2.4	130
151	Root Effect Hemoglobin May Have Evolved to Enhance General Tissue Oxygen Delivery. Science, 2013, 340, 1327-1329.	12.6	130
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