Fabrizio Carta

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2941593/publications.pdf

Version: 2024-02-01

225 papers	10,504 citations	30070 54 h-index	43889 91 g-index
233 all docs	233 docs citations	233 times ranked	6625 citing authors

#	Article	IF	Citations
1	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
2	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
3	Antiglaucoma carbonic anhydrase inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 705-716.	5.0	273
4	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
5	Antiobesity carbonic anhydrase inhibitors: a literature and patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 725-735.	5.0	246
6	Dithiocarbamates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Action in Vivo. Journal of Medicinal Chemistry, 2012, 55, 1721-1730.	6.4	211
7	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
8	Polyamines Inhibit Carbonic Anhydrases by Anchoring to the Zinc-Coordinated Water Molecule. Journal of Medicinal Chemistry, 2010, 53, 5511-5522.	6.4	205
9	Sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2012, 22, 747-758.	5.0	201
10	Sulfonamides and their isosters as carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2014, 6, 1149-1165.	2.3	172
11	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. Chemical Communications, 2012, 48, 1868.	4.1	157
12	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
13	Antimetastatic Effect of Sulfamate Carbonic Anhydrase IX Inhibitors in Breast Carcinoma Xenografts. Journal of Medicinal Chemistry, 2012, 55, 5591-5600.	6.4	149
14	Carbonic anhydrase IX from cancer-associated fibroblasts drives epithelial-mesenchymal transition in prostate carcinoma cells. Cell Cycle, 2013, 12, 1791-1801.	2.6	136
15	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. Bioorganic and Medicinal Chemistry, 2015, 23, 1828-1840.	3.0	126
16	Design and Synthesis of Novel Indole Î²-Diketo Acid Derivatives as HIV-1 Integrase Inhibitors. Journal of Medicinal Chemistry, 2004, 47, 5298-5310.	6.4	125
17	Dithiocarbamates strongly inhibit the Î²-class carbonic anhydrases fromMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 407-411.	5.2	125
18	Novel therapies for glaucoma: a patent review 2007 â€“ 2011. Expert Opinion on Therapeutic Patents, 2012, 22, 79-88.	5.0	121

#	Article	IF	Citations
19	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. Metabolites, 2020, 10, 412.	2.9	116
20	[(Cpâ€R)M(CO)₃] (M=Re or ^{99m}Tc) Arylsulfonamide, Arylsulfamide, and Arylsulfamate Conjugates for Selective Targeting of Human Carbonic Anhydrase IX. Angewandte Chemie - International Edition, 2012, 51, 3354-3357.	13.8	109
21	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.	3.0	109
22	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.	3.0	104
23	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.	6.4	104
24	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.	2.2	101
25	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.	2.2	97
26	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.	6.4	93
27	Xanthates and Trithiocarbonates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Effects in Vivo. Journal of Medicinal Chemistry, 2013, 56, 4691-4700.	6.4	91
28	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.	4.1	91
29	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.	3.0	90
30	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.	5.2	88
31	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.	6.4	87
32	The β-Carbonic Anhydrases from Mycobacterium tuberculosis as Drug Targets. Current Pharmaceutical Design, 2010, 16, 3300-3309.	1.9	85
33	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.	5.2	82
34	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
35	Secondary and tertiary sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2013, 23, 203-213.	5.0	79
36	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. Bioorganic and Medicinal Chemistry, 2017, 25, 2569-2576.	3.0	79

#	Article	IF	Citations
37	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.	4.1	77
38	Carbonic anhydrase IX inhibition affects viability of cancer cells adapted to extracellular acidosis. Journal of Molecular Medicine, 2017, 95, 1341-1353.	3.9	76
39	Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. Journal of Medicinal Chemistry, 2016, 59, 462-473.	6.4	75
40	The carbonic anhydrase IX inhibitor SLC-0111 sensitises cancer cells to conventional chemotherapy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 117-123.	5.2	74
41	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.	3.0	71
42	7-Substituted-sulfocoumarins are isoform-selective, potent carbonic anhydrase II inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 4502-4510.	3.0	70
43	Phenols and Polyphenols as Carbonic Anhydrase Inhibitors. Molecules, 2016, 21, 1649.	3.8	68
44	Polypharmacology of sulfonamides: pazopanib, a multitargeted receptor tyrosine kinase inhibitor in clinical use, potently inhibits several mammalian carbonic anhydrases. Chemical Communications, 2012, 48, 8177.	4.1	66
45	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
46	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.	3.0	63
47	Discovery of New Selenoureido Analogues of 4-(4-Fluorophenylureido)benzenesulfonamide as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 963-968.	2.8	62
48	Deciphering the Mechanism of Human Carbonic Anhydrases Inhibition with Sulfocoumarins: Computational and Experimental Studies. Chemistry - A European Journal, 2018, 24, 7840-7844.	3.3	62
49	Inhibition of pH regulation as a therapeutic strategy in hypoxic human breast cancer cells. Oncotarget, 2017, 8, 42857-42875.	1.8	62
50	5- and 6-Membered (thio)lactones are prodrug type carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 267-270.	2.2	61
51	A New Kid on the Block? Carbonic Anhydrases as Possible New Targets in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2019, 20, 4724.	4.1	61
52	Carbonic anhydrase inhibition and the management of glaucoma: a literature and patent review 2013-2019. Expert Opinion on Therapeutic Patents, 2019, 29, 781-792.	5.0	60
53	Structure activity study of carbonic anhydrase IX: Selective inhibition with ureido-substituted benzenesulfonamides. European Journal of Medicinal Chemistry, 2017, 132, 184-191.	5.5	58
54	From Ligand to Complexes. Part 2. Remarks on Human Immunodeficiency Virus type 1 Integrase Inhibition by Î²-Diketo Acid Metal Complexes. Journal of Medicinal Chemistry, 2008, 51, 7253-7264.	6.4	57

#	Article	IF	Citations
55	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.	2.2	57
56	Design of Novel Bioisosteres of Î²-Diketo Acid Inhibitors of HIV-1 Integrase. Antiviral Chemistry and Chemotherapy, 2005, 16, 41-61.	0.6	56
57	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.	6.4	55
58			

#	Article	IF	Citations
73	7-Aryl-triazolyl-substituted sulfocoumarins are potent, selective inhibitors of the tumor-associated carbonic anhydrase IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1226-1233.	5.2	43
74	Synthesis of novel acyl selenoureido benzensulfonamides as carbonic anhydrase I, II, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 3567-3573.	3.0	42
75	Development of certain new 2-substituted-quinazolin-4-yl-aminobenzenesulfonamide as potential antitumor agents. European Journal of Medicinal Chemistry, 2016, 109, 247-253.	5.5	41
76	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.	3.0	40
77	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.	2.8	39
78	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.	3.0	39
79	Heterocoumarins Are Selective Carbonic Anhydrase IX and XII Inhibitors with Cytotoxic Effects against Cancer Cells Lines. ACS Medicinal Chemistry Letters, 2018, 9, 947-951.	2.8	39
80	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.	6.4	39
81	Discovery of new organoselenium compounds as antileishmanial agents. Bioorganic Chemistry, 2019, 86, 339-345.	4.1	39
82	Plasmonic Particles that Hit Hypoxic Cells. Advanced Functional Materials, 2015, 25, 316-323.	14.9	38
83	Carbonic Anhydrases: Versatile and Useful Biocatalysts in Chemistry and Biochemistry. Catalysts, 2020, 10, 1008.	3.5	38
84	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.	3.0	37
85	Blocking HIF signaling via novel inhibitors of CA9 and APE1/Ref-1 dramatically affects pancreatic cancer cell survival. Scientific Reports, 2018, 8, 13759.	3.3	37
86	Î±-Carbonic Anhydrases Possess Thioesterase Activity. ACS Medicinal Chemistry Letters, 2015, 6, 292-295.	2.8	36
87	Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. Bioorganic and Medicinal Chemistry, 2017, 25, 677-683.	3.0	36
88	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.	5.2	36
89	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.	2.2	33
90	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.	6.4	33

#	Article	IF	Citations
91	Inhibition of the Î²-carbonic anhydrase from the dandruff-producing fungusMalassezia globosawith monothiocarbamates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1064-1070.	5.2	33
92	Carbonic anhydrase inhibitors based on sorafenib scaffold: Design, synthesis, crystallographic investigation and effects on primary breast cancer cells. European Journal of Medicinal Chemistry, 2019, 182, 111600.	5.5	33
93	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.	7.1	33
94	Novel small molecule protein arginine deiminase 4 (PAD4) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 715-719.	2.2	32
95	Furazan and furoxan sulfonamides are strong Î±-carbonic anhydrase inhibitors and potential antiglaucoma agents. Bioorganic and Medicinal Chemistry, 2014, 22, 3913-3921.	3.0	32
96	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.	2.5	32
97	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.	5.0	31
98	Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. Journal of Medicinal Chemistry, 2015, 58, 4039-4045.	6.4	31
99	Intramolecular oxidative deselenization of acylselenoureas: a facile synthesis of benzoxazole amides and carbonic anhydrase inhibitors. Organic and Biomolecular Chemistry, 2016, 14, 11353-11356.	2.8	30
100	Design and Synthesis of Novel Dihydroxyindole-2-Carboxylic Acids as HIV-1 Integrase Inhibitors. Antiviral Chemistry and Chemotherapy, 2004, 15, 67-81.	0.6	29
101	Design, synthesis, molecular modeling, and anti-HIV-1 integrase activity of a series of photoactivatable diketo acid-containing inhibitors as affinity probes. Antiviral Research, 2009, 81, 267-276.	4.1	29
102	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.	2.2	29
103	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.	3.0	29
104	Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against Î±-, Î²-, Î³- and Î¹-class enzymes. Bioorganic and Medicinal Chemistry, 2015, 23, 6794-6798.	3.0	29
105	Azidothymidine â€œClickedâ€•into 1,2,3-Triazoles: First Report on Carbonic Anhydraseâ€“Telomerase Dual-Hybrid Inhibitors. Journal of Medicinal Chemistry, 2020, 63, 7392-7409.	6.4	29
106	A deadly spillover: SARS-CoV-2 outbreak. Expert Opinion on Therapeutic Patents, 2020, 30, 481-485.	5.0	29
107	Carbonic anhydrase IX inhibition is an effective strategy for osteosarcoma treatment. Expert Opinion on Therapeutic Targets, 2015, 19, 1593-1605.	3.4	28
108	Mycobacterium tuberculosis Î²-Carbonic Anhydrases: Novel Targets for Developing Antituberculosis Drugs. International Journal of Molecular Sciences, 2019, 20, 5153.	4.1	28

#	Article	IF	Citations
109	Direct and straightforward access to substituted alkyl selenols as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111811.	5.5	28
110	Chagas Disease: Perspectives on the Past and Present and Challenges in Drug Discovery. Molecules, 2020, 25, 5483.	3.8	28
111	Tellurides Bearing Sulfonamides as Novel Inhibitors of Leishmanial Carbonic Anhydrase with Potent Antileishmanial Activity. Journal of Medicinal Chemistry, 2020, 63, 4306-4314.	6.4	28
112	Inhibition of Î²-carbonic anhydrases with ureido-substituted benzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 102-105.	2.2	26
113	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.	2.8	26
114	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.	3.7	26
115	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.	6.4	26
116	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.	3.0	25
117	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.	5.2	25
118	Synthesis of novel tellurides bearing benzensulfonamide moiety as carbonic anhydrase inhibitors with antitumor activity. European Journal of Medicinal Chemistry, 2019, 181, 111586.	5.5	25
119	Benzensulfonamides bearing spyrohydantoin moieties act as potent inhibitors of human carbonic anhydrases II and VII and show neuropathic pain attenuating effects. European Journal of Medicinal Chemistry, 2019, 177, 188-197.	5.5	25
120	Pain Relieving Effect of-NSAIDs-CAIs Hybrid Molecules: Systemic and Intra-Articular Treatments against Rheumatoid Arthritis. International Journal of Molecular Sciences, 2019, 20, 1923.	4.1	25
121	Selenolesterase enzyme activity of carbonic anhydrases. Chemical Communications, 2020, 56, 4444-4447.	4.1	25
122	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.	5.2	24
123	Novel Sulfamide-Containing Compounds as Selective Carbonic Anhydrase I Inhibitors. Molecules, 2017, 22, 1049.	3.8	24
124	A computer-assisted discovery of novel potential anti-obesity compounds as selective carbonic anhydrase VA inhibitors. European Journal of Medicinal Chemistry, 2019, 181, 111565.	5.5	23
125	Chalcogenides-incorporating carbonic anhydrase inhibitors concomitantly reverted oxaliplatin-induced neuropathy and enhanced antiproliferative action. European Journal of Medicinal Chemistry, 2021, 225, 113793.	5.5	23
126	Serendipitous fragment-based drug discovery: ketogenic diet metabolites and statins effectively inhibit several carbonic anhydrases. Chemical Communications, 2012, 48, 3551.	4.1	22

#	Article	IF	Citations
127	New approach of delivering cytotoxic drugs towards CAIX expressing cells: A concept of dual-target drugs. European Journal of Medicinal Chemistry, 2017, 127, 691-702.	5.5	22
128	Acyl selenoureido benzensulfonamides show potent inhibitory activity against carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic Chemistry, 2017, 75, 170-172.	4.1	21
129	Resolution of co-eluting isomers of anti-inflammatory drugs conjugated to carbonic anhydrase inhibitors from plasma in liquid chromatography by energy-resolved tandem mass spectrometry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 671-679.	5.2	21
130	Multivalent Carbonic Anhydrases Inhibitors. International Journal of Molecular Sciences, 2019, 20, 5352.	4.1	21
131	Structural effect of phenyl ring compared to thiadiazole based adamantyl-sulfonamides on carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2013, 21, 2314-2318.	3.0	20
132	More effective dithiocarbamate derivatives inhibiting carbonic anhydrases, generated by QSAR and computational design. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 350-359.	5.2	20
133	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.	3.0	20
134	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.	2.8	20
135	Carbonic Anhydrase Inhibitors as Novel Drugs against Mycobacterial Î²-Carbonic Anhydrases: An Update on In Vitro and In Vivo Studies. Molecules, 2018, 23, 2911.	3.8	20
136	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.	3.0	19
137	CO2 and HCO3- Permeability of the Rat Liver Mitochondrial Membrane. Cellular Physiology and Biochemistry, 2016, 39, 2014-2024.	1.6	19
138	A potentiated cooperation of carbonic anhydrase IX and histone deacetylase inhibitors against cancer. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 391-397.	5.2	19
139	An Update on Natural Products with Carbonic Anhydrase Inhibitory Activity. Current Pharmaceutical Design, 2016, 22, 1570-1591.	1.9	19
140	Carbonic anhydrase inhibitors. Diazenylbenzenesulfonamides are potent and selective inhibitors of the tumor-associated isozymes IX and XII over the cytosolic isoforms I and II. Bioorganic and Medicinal Chemistry, 2009, 17, 7093-7099.	3.0	18
141	Searching for intermediates in Prins cyclisations: the 2-oxa-5-adamantyl carbocation. Organic and Biomolecular Chemistry, 2010, 8, 1551.	2.8	18
142	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.	3.0	18
143	Carbonic anhydrases and their functional differences in human and mouse sperm physiology. Biochemical and Biophysical Research Communications, 2015, 468, 713-718.	2.1	18
144	Peptidomimetics as protein arginine deiminase 4 (PAD4) inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 466-471.	5.2	18

#	Article	IF	Citations
145	Lead Development of Thiazolylsulfonamides with Carbonic Anhydrase Inhibitory Action. Journal of Medicinal Chemistry, 2017, 60, 3154-3164.	6.4	18
146	Advances in new psychoactive substances identification: the U.R.I.To.N. Consortium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 841-849.	5.2	18
147	Polypharmacology of epacadostat: a potent and selective inhibitor of the tumor associated carbonic anhydrases IX and XII. Chemical Communications, 2019, 55, 5720-5723.	4.1	18
148	Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. Bioorganic and Medicinal Chemistry, 2015, 23, 7751-7764.	3.0	17
149	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.	3.0	17
150	Dithiocarbamates with potent inhibitory activity against theSaccharomyces cerevisiaeÎ²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 132-136.	5.2	17
151	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.	5.2	17
152	Benzylaminoethyureido-Tailed Benzenesulfonamides: Design, Synthesis, Kinetic and X-ray Investigations on Human Carbonic Anhydrases. International Journal of Molecular Sciences, 2020, 21, 2560.	4.1	17
153	Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. Angewandte Chemie - International Edition, 2021, 60, 23068-23082.	13.8	17
154	Response to Perspectives on the Classical Enzyme Carbonic Anhydrase and the Search for Inhibitors. Biophysical Journal, 2021, 120, 178-181.	0.5	16
155	Dual Carbonic Anhydrase IX/XII Inhibitors and Carbon Monoxide Releasing Molecules Modulate LPS-Mediated Inflammation in Mouse Macrophages. Antioxidants, 2021, 10, 56.	5.1	16
156	Kinetic and X-ray crystallographic investigations of substituted 2-thio-6-oxo-1,6-dihydropyrimidineâ€“benzenesulfonamides acting as carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 3643-3648.	3.0	15
157	N-aryl-Nâ€™-ureido-O-sulfamates: Potent and selective inhibitors of the human Carbonic Anhydrase VII isoform with neuropathic pain relieving properties. Bioorganic Chemistry, 2019, 89, 103033.	4.1	15
158	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.	4.1	15
159	Carbonic Anhydrase Inhibitors: Inhibition of Cytosolic Carbonic Anhydrase Isozymes II and VII with Simple Aromatic Sulfonamides and Some Azo Dyes. Chemical Biology and Drug Design, 2009, 74, 196-202.	3.2	14
160	Synthesis of new 3-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-benzenesulfonamides with strong inhibition properties against the tumor associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2017, 25, 2782-2788.	3.0	14
161	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.	5.2	14
162	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.	5.2	14

#	Article	IF	Citations
163	State of the Art on Carbonic Anhydrase Modulators for Biomedical Purposes. Current Medicinal Chemistry, 2019, 26, 2558-2573.	2.4	14
164	First studies on tumor associated carbonic anhydrases IX and XII monoclonal antibodies conjugated to small molecule inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 592-596.	5.2	14
165	Benzenesulfonamides with different rigidity-conferring linkers as carbonic anhydrase inhibitors: an insight into the antiproliferative effect on glioblastoma, pancreatic, and breast cancer cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1857-1869.	5.2	14
166	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.	3.0	13
167	Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms Iâ€“XIV. Organic and Biomolecular Chemistry, 2015, 13, 6453-6457.	2.8	13
168	Dithiocarbamates effectively inhibit the Î±-carbonic anhydrase from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1-8.	5.2	13
169	Glycomimetic Based Approach toward Selective Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2020, 11, 727-731.	2.8	12
170	Structural Insights into Schistosoma mansoni Carbonic Anhydrase (SmCA) Inhibition by Selenoureido-Substituted Benzenesulfonamides. Journal of Medicinal Chemistry, 2021, 64, 10418-10428.	6.4	12
171	Structural investigation of 3,5â€disubstituted isoxazoles by ¹Hâ€nuclear magnetic resonance. Journal of Heterocyclic Chemistry, 2003, 40, 1097-1102.	2.6	11
172	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.	3.0	11
173	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.	5.2	11
174	Spirocyclic sulfonamides with carbonic anhydrase inhibitory and anti-neuropathic pain activity. Bioorganic Chemistry, 2019, 92, 103210.	4.1	11
175	Effects of New NSAID-CAI Hybrid Compounds in Inflammation and Lung Fibrosis. Biomolecules, 2020, 10, 1307.	4.0	11
176	Development of a New LC-MS/MS Screening Method for Detection of 120 NPS and 43 Drugs in Blood. Separations, 2021, 8, 221.	2.4	11
177	Structural modulation of the biological activity of gold nanoparticles functionalized with a carbonic anhydrase inhibitor. European Physical Journal E, 2013, 36, 48.	1.6	10
178	Cyclodextrin complexation highly enhances efficacy of arylsulfonylureido benzenesulfonamide carbonic anhydrase inhibitors as a topical antiglaucoma agents. Bioorganic and Medicinal Chemistry, 2015, 23, 6223-6227.	3.0	10
179	Toxicity evaluation of sulfamides and coumarins that efficiently inhibit human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1765-1772.	5.2	10
180	Crystal Structure of a Tetrameric Type II Î²-Carbonic Anhydrase from the Pathogenic Bacterium Burkholderia pseudomallei. Molecules, 2020, 25, 2269.	3.8	10

#	Article	IF	Citations
181	Handling drug-target selectivity: A study on ureido containing Carbonic Anhydrase inhibitors. European Journal of Medicinal Chemistry, 2021, 212, 113035.	5.5	10
182	Dual Acting Carbon Monoxide Releasing Molecules and Carbonic Anhydrase Inhibitors Differentially Modulate Inflammation in Human Tenocytes. Biomedicines, 2021, 9, 141.	3.2	10
183	Synthesis of Nâ€²-phenyl-N-hydroxyureas and investigation of their inhibitory activities on human carbonic anhydrases. Bioorganic Chemistry, 2018, 78, 1-6.	4.1	9
184	Carbonic Anhydrase Inhibitors of Different Structures Dilate Pre-Contracted Porcine Retinal Arteries. International Journal of Molecular Sciences, 2019, 20, 467.	4.1	9
185	Sultam based Carbonic Anhydrase VII inhibitors for the management of neuropathic pain. European Journal of Medicinal Chemistry, 2022, 227, 113956.	5.5	9
186	Amine- and Amino Acid-Based Compounds as Carbonic Anhydrase Activators. Molecules, 2021, 26, 7331.	3.8	9
187	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.	5.2	8
188	N-aryl-Nâ€²-ureido-O-sulfamates as potent and selective inhibitors of hCA VB over hCA VA: Deciphering the binding mode of new potential agents in mitochondrial dysfunctions. Bioorganic Chemistry, 2020, 100, 103896.	4.1	8
189	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
190	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
191	Virtual screening-driven identification of human carbonic anhydrase inhibitors incorporating an original, new pharmacophore. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2515-2520.	2.2	7
192	Unconventional amino acids in medicinal chemistry: First report on taurine merged within carbonic anhydrase inhibitors. Bioorganic Chemistry, 2020, 103, 104236.	4.1	7
193	BenzylaminoethylureidoâEtailed Benzenesulfonamides Show Potent Inhibitory Activity against Bacterial Carbonic Anhydrases. ChemMedChem, 2020, 15, 2444-2447.	3.2	7
194	Tellurides bearing benzensulfonamide as carbonic anhydrase inhibitors with potent antitumor activity. Bioorganic and Medicinal Chemistry Letters, 2021, 45, 128147.	2.2	7
195	Pharmacological inhibition of Carbonic Anhydrase IX and XII to enhance targeting of acute myeloid leukaemia cells under hypoxic conditions. Journal of Cellular and Molecular Medicine, 2021, 25, 11039-11052.	3.6	7
196	Polyamines and Î±-Carbonic Anhydrases. Molecules, 2016, 21, 1726.	3.8	6
197	CO2 Permeability of Rat Hepatocytes and Relation of CO2 Permeability to CO2 Production. Cellular Physiology and Biochemistry, 2018, 46, 1198-1208.	1.6	6
198	2-Mercaptobenzoxazoles: a class of carbonic anhydrase inhibitors with a novel binding mode to the enzyme active site. Chemical Communications, 2020, 56, 8297-8300.	4.1	6

#	Article	IF	Citations
199	X-ray crystallography of Epacadostat in adduct with Carbonic Anhydrase IX. Bioorganic Chemistry, 2020, 97, 103669.	4.1	6
200	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
201	Carbonic anhydrase inhibitors for the treatment of epilepsy and obesity. , 2019, , 311-329.		5
202	In Silico Identification and Biological Evaluation of Antioxidant Food Components Endowed with Human Carbonic Anhydrase IX and XII Inhibition. Antioxidants, 2020, 9, 775.	5.1	5
203	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
204	Mechanisms of the Antiproliferative and Antitumor Activity of Novel Telomeraseâ€“Carbonic Anhydrase Dual-Hybrid Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 11432-11444.	6.4	5
205	Development of Praziquantel sulphonamide derivatives as antischistosomal drugs. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1479-1494.	5.2	5
206	Synthesis, Computational Studies and Assessment of in Vitro Activity of Squalene Derivatives as Carbonic Anhydrase Inhibitors. ChemMedChem, 2020, 15, 2052-2057.	3.2	4
207	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
208	Privileged scaffolds in medicinal chemistry: Studies on pyrazolo[1,5-a]pyrimidines on sulfonamide containing Carbonic Anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2021, 49, 128309.	2.2	4
209	An innovative spectroscopic approach for qualitative and quantitative evaluation of Mb-CO from myoglobin carbonylation reaction through chemometrics methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120602.	3.9	3
210	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.	4.1	3
211	Small Molecule Alkoxy Oriented Selectiveness on Human Carbonic Anhydrase II and IX Inhibition. ChemMedChem, 2022, 17, .	3.2	3
212	Mechanisms of action of carbonic anhydrase inhibitors. , 2019, , 187-222.		2
213	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
214	Prostaglandins with Carboxylic Functionalities for the Treatment of Glaucoma. , 0, , 269-279.		1
215	Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. Angewandte Chemie, 2021, 133, 23252.	2.0	1
216	Abstract B51: Regulation of HIF1Î± under hypoxia by APE1/Ref-1 impacts CA9 expression: Dual-targeting in patient-derived 3D pancreatic cancer models. , 2016, , .		1

#	Article	IF	Citations
217	New natural product carbonic anhydrase inhibitors incorporating phenol moieties. Planta Medica, 2016, 81, S1-S381.	1.3	1
218	Apport de lâ€™IRM cardiaque dans le diagnostic des complications de lâ€™infarctus du myocarde. Diagnostic and Interventional Imaging, 2012, 93, 611-619.	0.0	0
219	Current Enzyme Inhibition, Vol. 14, Number 3, 2018. Current Enzyme Inhibition, 2018, 14, 164-165.	0.4	0
220	Design, synthesis, and biological evaluation of selective hCA IX inhibitors. , 2021, , 63-78.		0
221	Abstract B25: Characterization, targeting, and modulation of carbonic anhydrase IX activity for the development of small-molecule inhibitors to treat triple-negative breast cancer. , 2016, , .		0
222	Abstract 2931: Targeting membrane-bound carbonic anhydrases in breast cancer to intervene in the metastatic phenotype. , 2017, , .		0
223	Abstract 2941: APE1/Ref-1 redox signaling regulates HIF1a-mediated CA9 expression in hypoxic pancreatic cancer cells: Combination treatment in patient-derived pancreatic tumor models. , 2018, , .		0
224	Abstract 2102: UFH-001: A novel triple-negative, CAIX-positive cell line for small-molecule targeting of human breast cancer. , 2018, , .		0
225	New Biological Targets for the Treatment of Leishmaniasis. , 2019, , 281-309.		0