Alessio Nocentini

List of Publications by Year in descending order

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200	5,643	71102	138484
papers	citations	41 h-index	58 g-index

201	201	201	3420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbonic anhydrase inhibitors as antitumor/antimetastatic agents: a patent review (2008â€“2018). Expert Opinion on Therapeutic Patents, 2018, 28, 729-740.	5.0	160
2	Benzothiazole derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 265-279.	5.2	140
3	Advances in the structural annotation of human carbonic anhydrases and impact on future drug discovery. Expert Opinion on Drug Discovery, 2019, 14, 1175-1197.	5.0	123
4	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. Metabolites, 2020, 10, 412.	2.9	116
5	Novel 4/3-((4-oxo-5-(2-oxoindolin-3-ylidene)thiazolidin-2-ylidene)amino) benzenesulfonamides: Synthesis, carbonic anhydrase inhibitory activity, anticancer activity and molecular modelling studies. European Journal of Medicinal Chemistry, 2017, 139, 250-262.	5.5	110
6	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
7	Benzoxaborole compounds for therapeutic uses: a patent review (2010- 2018). Expert Opinion on Therapeutic Patents, 2018, 28, 493-504.	5.0	86
8	Enhancement of the tail hydrophobic interactions within the carbonic anhydrase IX active site via structural extension: Design and synthesis of novel N-substituted isatins-SLC-0111 hybrids as carbonic anhydrase inhibitors and antitumor agents. European Journal of Medicinal Chemistry, 2019, 162, 147-160.	5.5	81
9	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
10	Bacterial Î¹-carbonic anhydrase: a new active class of carbonic anhydrase identified in the genome of the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1060-1068.	5.2	76
11	Sulfonamide Inhibitors of Human Carbonic Anhydrases Designed through a Three-Tails Approach: Improving Ligand/Isoform Matching and Selectivity of Action. Journal of Medicinal Chemistry, 2020, 63, 7422-7444.	6.4	75
12	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
13	Synthesis and in vitro antitumor activity of new 4,5-dihydropyrazole derivatives. Bioorganic and Medicinal Chemistry, 2010, 18, 6238-6248.	3.0	69
14	Steroids interfere with human carbonic anhydrase activity by using alternative binding mechanisms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1453-1459.	5.2	69
15	Synthesis andin vitroanticancer activity of certain novel 1-(2-methyl-6-arylpyridin-3-yl)-3-phenylureas as apoptosis-inducing agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 322-332.	5.2	69
16	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
17	Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases. ACS Medicinal Chemistry Letters, 2017, 8, 1314-1319.	2.8	61
18	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

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19	Antitumor properties of certain spirooxindoles towards hepatocellular carcinoma endowed with antioxidant activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 831-839.	5.2	61
20	Dual-tail arylsulfone-based benzenesulfonamides differently match the hydrophobic and hydrophilic halves of human carbonic anhydrases active sites: Selective inhibitors for the tumor-associated hCA IX isoform. European Journal of Medicinal Chemistry, 2018, 152, 1-9.	5.5	60
21	An overview on the recently discovered iota-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1988-1995.	5.2	60
22	Phosphorus versus Sulfur: Discovery of Benzenephosphonamidates as Versatile Sulfonamideâ€Mimic Chemotypes Acting as Carbonic Anhydrase Inhibitors. Chemistry - A European Journal, 2019, 25, 1188-1192.	3.3	59
23	Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, inÂvitro biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies. European Journal of Medicinal Chemistry, 2017, 127, 521-530.	5.5	56
24	Tumor-associated carbonic anhydrase isoform IX and XII inhibitory properties of certain isatin-bearing sulfonamides endowed with in vitro antitumor activity towards colon cancer. Bioorganic Chemistry, 2018, 81, 425-432.	4.1	56
25	Selenols: a new class of carbonic anhydrase inhibitors. Chemical Communications, 2019, 55, 648-651.	4.1	56
26	Synthesis and biological evaluation of novel aromatic and heterocyclic bis-sulfonamide Schiff bases as carbonic anhydrase I, II, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 3093-3097.	3.0	53
27	Discovery of Î²-Adrenergic Receptors Blockerâ€“Carbonic Anhydrase Inhibitor Hybrids for Multitargeted Antiglaucoma Therapy. Journal of Medicinal Chemistry, 2018, 61, 5380-5394.	6.4	53
28	SLC-0111 enaminone analogs, 3/4-(3-aryl-3-oxopropenyl) aminobenzenesulfonamides, as novel selective subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform IX. Bioorganic Chemistry, 2019, 83, 549-558.	4.1	53
29	Continued exploration of 1,2,4-oxadiazole periphery for carbonic anhydrase-targeting primary arene sulfonamides: Discovery of subnanomolar inhibitors of membrane-bound hCA IX isoform that selectively kill cancer cells in hypoxic environment. European Journal of Medicinal Chemistry, 2019, 164, 92-105.	5.5	52
30	Novel hydrazido benzenesulfonamides-isatin conjugates: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. European Journal of Medicinal Chemistry, 2018, 157, 28-36.	5.5	51
31	Carbonic anhydrases fromTrypanosoma cruziandLeishmania donovani chagasiare inhibited by benzoxaboroles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 286-289.	5.2	50
32	3-Hydrazinoisatin-based benzenesulfonamides as novel carbonic anhydrase inhibitors endowed with anticancer activity: Synthesis, inÂvitro biological evaluation and in silico insights. European Journal of Medicinal Chemistry, 2019, 184, 111768.	5.5	49
33	Synthesis, biological activity and multiscale molecular modeling studies of bis-coumarins as selective carbonic anhydrase IX and XII inhibitors with effective cytotoxicity against hepatocellular carcinoma. Bioorganic Chemistry, 2019, 87, 838-850.	4.1	49
34	4-Hydroxy-3-nitro-5-ureido-benzenesulfonamides Selectively Target the Tumor-Associated Carbonic Anhydrase Isoforms IX and XII Showing Hypoxia-Enhanced Antiproliferative Profiles. Journal of Medicinal Chemistry, 2018, 61, 10860-10874.	6.4	48
35	Structureâ€“Activity Relationship Studies of Acetazolamide-Based Carbonic Anhydrase Inhibitors with Activity against Neisseria gonorrhoeae. ACS Infectious Diseases, 2021, 7, 1969-1984.	3.8	48
36	Benzoxaboroles as Efficient Inhibitors of the Î²-Carbonic Anhydrases from Pathogenic Fungi: Activity and Modeling Study. ACS Medicinal Chemistry Letters, 2017, 8, 1194-1198.	2.8	47

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37	Novel synthesized SLC-0111 thiazole and thiadiazole analogues: Determination of their carbonic anhydrase inhibitory activity and molecular modeling studies. Bioorganic Chemistry, 2019, 87, 794-802.	4.1	46
38	Inclusion of a 5-fluorouracil moiety in nitrogenous bases derivatives as human carbonic anhydrase IX and XII inhibitors produced a targeted action against MDA-MB-231 and T47D breast cancer cells. European Journal of Medicinal Chemistry, 2020, 190, 112112.	5.5	46
39	Dithiocarbamates effectively inhibit the Î²-carbonic anhydrase from the dandruff-producing fungus Malassezia globosa. Bioorganic and Medicinal Chemistry, 2017, 25, 1260-1265.	3.0	45
40	3-Methylthiazolo[3,2-a]benzimidazole-benzenesulfonamide conjugates as novel carbonic anhydrase inhibitors endowed with anticancer activity: Design, synthesis, biological and molecular modeling studies. European Journal of Medicinal Chemistry, 2020, 207, 112745.	5.5	45
41	Drug Screening in Human Cells by NMR Spectroscopy Allows the Early Assessment of Drug Potency. Angewandte Chemie - International Edition, 2020, 59, 6535-6539.	13.8	44
42	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
43	N-Nitrosulfonamides: A new chemotype for carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2016, 24, 3612-3617.	3.0	42
44	Design, synthesis and evaluation of¹⁸F-labeled cationic carbonic anhydrase IX inhibitors for PET imaging. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 722-730.	5.2	42
45	Sulfonamide-based ring-fused analogues for CAN508 as novel carbonic anhydrase inhibitors endowed with antitumor activity: Design, synthesis, and inÂvitro biological evaluation. European Journal of Medicinal Chemistry, 2020, 189, 112019.	5.5	42
46	Benzofuran-Based Carboxylic Acids as Carbonic Anhydrase Inhibitors and Antiproliferative Agents against Breast Cancer. ACS Medicinal Chemistry Letters, 2020, 11, 1022-1027.	2.8	42
47	Inhibition of Malassezia globosa carbonic anhydrase with phenols. Bioorganic and Medicinal Chemistry, 2017, 25, 2577-2582.	3.0	41
48	Synthesis, cytotoxic evaluation, and molecular docking studies of novel quinazoline derivatives with benzenesulfonamide and anilide tails: Dual inhibitors of EGFR/HER2. Bioorganic Chemistry, 2020, 95, 103461.	4.1	41
49	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
50	Use of Innovative (Micro)Extraction Techniques to Characterise <scp>Harpagophytum procumbens</scp> Root and its Commercial Food Supplements. Phytochemical Analysis, 2018, 29, 233-241.	2.4	38
51	Continued exploration and tail approach synthesis of benzenesulfonamides containing triazole and dual triazole moieties as carbonic anhydrase I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2019, 183, 111698.	5.5	38
52	Synthesis, biological and molecular dynamics investigations with a series of triazolopyrimidine/triazole-based benzenesulfonamides as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111843.	5.5	38
53	Novel 3-substituted coumarins as selective human carbonic anhydrase IX and XII inhibitors: Synthesis, biological and molecular dynamics analysis. European Journal of Medicinal Chemistry, 2021, 209, 112897.	5.5	38
54	Development of novel benzofuran-based SLC-0111 analogs as selective cancer-associated carbonic anhydrase isoform IX inhibitors. European Journal of Medicinal Chemistry, 2021, 216, 113283.	5.5	38

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55	Inhibition studies on a panel of human carbonic anhydrases withN1-substituted secondary sulfonamides incorporating thiazolinone or imidazolone-indole tails. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 629-638.	5.2	37
56	Synthesis of novel isoindoline-1,3-dione-based oximes and benzenesulfonamide hydrazones as selective inhibitors of the tumor-associated carbonic anhydrase IX. Bioorganic Chemistry, 2018, 80, 706-713.	4.1	36
57	Synthesis of benzensulfonamides linked to quinazoline scaffolds as novel carbonic anhydrase inhibitors. Bioorganic Chemistry, 2019, 87, 78-90.	4.1	36
58	Synthesis of bulky-tailed sulfonamides incorporating pyrido[2,3- d][1,2,4]triazolo[4,3- a effects. Bioorganic and Medicinal Chemistry, 2017, 25, 2210-2217.	3.0	35
59	Selective Inhibition of Helicobacter pylori Carbonic Anhydrases by Carvacrol and Thymol Could Impair Biofilm Production and the Release of Outer Membrane Vesicles. International Journal of Molecular Sciences, 2021, 22, 11583.	4.1	35
60	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
61	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
62	Discovery of Potent Dual-Tailed Benzenesulfonamide Inhibitors of Human Carbonic Anhydrases Implicated in Glaucoma and in Vivo Profiling of Their Intraocular Pressure-Lowering Action. Journal of Medicinal Chemistry, 2020, 63, 3317-3326.	6.4	33
63	Natural Polyphenols Selectively Inhibit Î²â€Carbonic Anhydrase from the Dandruffâ€Producing Fungus Malassezia globosa: Activity and Modeling Studies. ChemMedChem, 2018, 13, 816-823.	3.2	32
64	Design, synthesis, and carbonic anhydrase inhibition activity of benzenesulfonamide-linked novel pyrazoline derivatives. Bioorganic Chemistry, 2019, 87, 425-431.	4.1	31
65	2-Benzylpiperazine: A new scaffold for potent human carbonic anhydrase inhibitors. Synthesis, enzyme inhibition, enantioselectivity, computational and crystallographic studies and inÂvivo activity for a new class of intraocular pressure lowering agents. European Journal of Medicinal Chemistry, 2018, 151, 363-375.	5.5	29
66	Novel 2-substituted-benzimidazole-6-sulfonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IX and XII and molecular docking studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1697-1710.	5.2	28
67	Perfluoroalkyl Substances of Significant Environmental Concern Can Strongly Inhibit Human Carbonic Anhydrase Isozymes. Analytical Chemistry, 2020, 92, 4614-4622.	6.5	28
68	Discovery of thiazolin-4-one-based aromatic sulfamates as a new class of carbonic anhydrase isoforms I, II, IV, and IX inhibitors. Bioorganic Chemistry, 2018, 77, 293-299.	4.1	27
69	Synthesis, biological evaluation and computational studies of novel iminothiazolidinone benzenesulfonamides as potent carbonic anhydrase II and IX inhibitors. Bioorganic Chemistry, 2018, 77, 381-386.	4.1	27
70	Carbonic anhydrase inhibition with a series of novel benzenesulfonamide-triazole conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1565-1574.	5.2	27
71	â€œA Sweet Combinationâ€: Developing Saccharin and Acesulfame K Structures for Selectively Targeting the Tumor-Associated Carbonic Anhydrases IX and XII. Journal of Medicinal Chemistry, 2020, 63, 321-333.	6.4	27
72	The antibiotic furagin and its derivatives are isoform-selective human carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1011-1020.	5.2	27

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73	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
74	Repurposing FDA-approved sulphonamide carbonic anhydrase inhibitors for treatment of Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 51-61.	5.2	26
75	Antiproliferative effects of sulphonamide carbonic anhydrase inhibitors C18, SLC-0111 and acetazolamide on bladder, glioblastoma and pancreatic cancer cell lines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 280-286.	5.2	26
76	Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3850-3853.	2.2	25
77	Synthesis of isoxazole-containing sulfonamides with potent carbonic anhydrase II and VII inhibitory properties. Bioorganic and Medicinal Chemistry, 2017, 25, 1456-1464.	3.0	25
78	Synthesis and biological evaluation of novel pyrazoline-based aromatic sulfamates with potent carbonic anhydrase isoforms II, IV and IX inhibitory efficacy. Bioorganic Chemistry, 2018, 77, 633-639.	4.1	25
79	Benzoxaboroles: New Potent Inhibitors of the Carbonic Anhydrases of the Pathogenic Bacterium Vibrio cholerae. ACS Medicinal Chemistry Letters, 2020, 11, 2277-2284.	2.8	25
80	Benzoxepinones: A new isoform-selective class of tumor associated carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2020, 28, 115496.	3.0	25
81	Protease inhibitors targeting the main protease and papain-like protease of coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 309-324.	5.0	25
82	Solution and Solidâ€State Analysis of Binding of 13â€Substituted Berberine Analogues to Human Telomeric Gâ€quadruplexes. Chemistry - an Asian Journal, 2016, 11, 1107-1115.	3.3	24
83	Structure-activity relationship with pyrazoline-based aromatic sulfamates as carbonic anhydrase isoforms I, II, IX and XII inhibitors: Synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2019, 182, 111638.	5.5	24
84	Pyridazinone-substituted benzenesulfonamides display potent inhibition of membrane-bound human carbonic anhydrase IX and promising antiproliferative activity against cancer cell lines. European Journal of Medicinal Chemistry, 2019, 168, 301-314.	5.5	24
85	Advances in the discovery of novel agents for the treatment of glaucoma. Expert Opinion on Drug Discovery, 2021, 16, 1209-1225.	5.0	24
86	Identification of N-phenyl-2-(phenylsulfonyl)acetamides/propanamides as new SLC-0111 analogues: Synthesis and evaluation of the carbonic anhydrase inhibitory activities. European Journal of Medicinal Chemistry, 2021, 218, 113360.	5.5	24
87	Coumarins effectively inhibit bacterial Î±-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 333-338.	5.2	24
88	Synthesis and carbonic anhydrase inhibition of polycyclic imides incorporating N-benzenesulfonamide moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 5373-5379.	3.0	23
89	Î±-Carbonic anhydrases are strongly activated by spinaceamine derivatives. Bioorganic and Medicinal Chemistry, 2019, 27, 800-804.	3.0	23
90	4-Substituted benzenesulfonamides featuring cyclic imides moieties exhibit potent and isoform-selective carbonic anhydrase II/IX inhibition. Bioorganic Chemistry, 2019, 83, 198-204.	4.1	23

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91	Intracellular Binding/Unbinding Kinetics of Approved Drugs to Carbonic Anhydrase II Observed by in-Cell NMR. ACS Chemical Biology, 2020, 15, 2792-2800.	3.4	23
92	Synthesis of calix[4]azacrown substituted sulphonamides with antioxidant, acetylcholinesterase, butyrylcholinesterase, tyrosinase and carbonic anhydrase inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1215-1223.	5.2	23
93	Small-molecule CD73 inhibitors for the immunotherapy of cancer: a patent and literature review (2017â€“present). Expert Opinion on Therapeutic Patents, 2021, 31, 867-876.	5.0	23
94	Activation of human Î±-carbonic anhydrase isoforms I, II, IV and VII with bis-histamine schiff bases and bis-spinaceamine substituted derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1193-1198.	5.2	22
95	Evaluation of 99mTc-sulfonamide and sulfocoumarin derivatives for imaging carbonic anhydrase IX expression. Journal of Inorganic Biochemistry, 2018, 185, 63-70.	3.5	21
96	Synthesis, biological evaluation and in silico studies with 4-benzylidene-2-phenyl-5(4H)-imidazolone-based benzenesulfonamides as novel selective carbonic anhydrase IX inhibitors endowed with anticancer activity. Bioorganic Chemistry, 2019, 90, 103102.	4.1	21
97	Adrenergic agonists and antagonists as antiglaucoma agents: a literature and patent review (2013â€“2019). Expert Opinion on Therapeutic Patents, 2019, 29, 805-815.	5.0	21
98	Novel Diamide-Based Benzenesulfonamides as Selective Carbonic Anhydrase IX Inhibitors Endowed with Antitumor Activity: Synthesis, Biological Evaluation and In Silico Insights. International Journal of Molecular Sciences, 2019, 20, 2484.	4.1	21
99	N-Nitrosulfonamides as Carbonic Anhydrase Inhibitors: A Promising Chemotype for Targeting Chagas Disease and Leishmaniasis. ACS Medicinal Chemistry Letters, 2019, 10, 413-418.	2.8	21
100	Activation of carbonic anhydrase isoforms involved in modulation of emotional memory and cognitive disorders with histamine agonists, antagonists and derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 719-726.	5.2	21
101	Structure-activity relationship studies for inhibitors for vancomycin-resistant Enterococcus and human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1838-1844.	5.2	21
102	S-substituted 2-mercaptoquinazolin-4(3H)-one and 4-ethylbenzensulfonamides act as potent and selective human carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 733-743.	5.2	20
103	Bis-benzoxaboroles: Design, Synthesis, and Biological Evaluation as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 1205-1210.	2.8	19
104	Application of hydrazino and hydrazido linkers to connect benzenesulfonamides with hydrophilic/phobic tails for targeting the middle region of human carbonic anhydrases active site: Selective inhibitors of hCA IX. European Journal of Medicinal Chemistry, 2019, 179, 547-556.	5.5	19
105	Anion inhibition studies of the Zn(II)-bound Î¹-carbonic anhydrase from the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 372-376.	5.2	19
106	Novel benzenesulfonamides aryl and arylsulfone conjugates adopting tail/dual tail approaches: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. European Journal of Medicinal Chemistry, 2021, 221, 113486.	5.5	19
107	The three-tails approach as a new strategy to improve selectivity of action of sulphonamide inhibitors against tumour-associated carbonic anhydrase IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 930-939.	5.2	19
108	Appraisal of anti-protozoan activity of nitroaromatic benzenesulfonamides inhibiting carbonic anhydrases fromTrypanosoma cruziandLeishmania donovani. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1164-1171.	5.2	18

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109	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
110	Î±,Î³-Diketocarboxylic Acids and Their Esters Act as Carbonic Anhydrase IX and XII Selective Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 661-665.	2.8	18
111	Development of oxathiino[6,5-b]pyridine 2,2-dioxide derivatives as selective inhibitors of tumor-related carbonic anhydrases IX and XII. European Journal of Medicinal Chemistry, 2020, 200, 112300.	5.5	18
112	The Effect of Substituted Benzene-Sulfonamides and Clinically Licensed Drugs on the Catalytic Activity of CynT2, a Carbonic Anhydrase Crucial for Escherichia coli Life Cycle. International Journal of Molecular Sciences, 2020, 21, 4175.	4.1	18
113	Ninhydrins inhibit carbonic anhydrases directly binding to the metal ion. European Journal of Medicinal Chemistry, 2021, 209, 112875.	5.5	18
114	Effect of Sulfonamides and Their Structurally Related Derivatives on the Activity of Î¹-Carbonic Anhydrase from Burkholderia territorii. International Journal of Molecular Sciences, 2021, 22, 571.	4.1	18
115	Natural inspired piperine-based sulfonamides and carboxylic acids as carbonic anhydrase inhibitors: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2021, 225, 113800.	5.5	18
116	Inhibition studies of bacterial Î±-carbonic anhydrases with phenols. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 666-671.	5.2	18
117	Human carbonic anhydrases. , 2019, , 151-185.		17
118	Phaeodactylum tricornutum as a model organism for testing the membrane penetrability of sulphonamide carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 510-518.	5.2	17
119	Anion Inhibition Studies of the Beta-Carbonic Anhydrase from Escherichia coli. Molecules, 2020, 25, 2564.	3.8	17
120	Anion inhibition studies of the Î±-carbonic anhydrases from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1061-1066.	5.2	17
121	Novel benzofuran-based sulphonamides as selective carbonic anhydrases IX and XII inhibitors: synthesis and inÂvitro biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 298-305.	5.2	16
122	Phenyl(thio)phosphon(amid)ate Benzenesulfonamides as Potent and Selective Inhibitors of Human Carbonic Anhydrases II and VII Counteract Allodynia in a Mouse Model of Oxaliplatin-Induced Neuropathy. Journal of Medicinal Chemistry, 2020, 63, 5185-5200.	6.4	16
123	Synthesis, anti-inflammatory, cytotoxic, and COX-1/2 inhibitory activities of cyclic imides bearing 3-benzenesulfonamide, oxime, and Î²-phenylalanine scaffolds: a molecular docking study. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 610-621.	5.2	16
124	Response to Perspectives on the Classical Enzyme Carbonic Anhydrase and the Search for Inhibitors. Biophysical Journal, 2021, 120, 178-181.	0.5	16
125	Investigation of 3-sulfamoyl coumarins against cancer-related IX and XII isoforms of human carbonic anhydrase as well as cancer cells leads to the discovery of 2-oxo-2H-benzo[h]chromene-3-sulfonamide â€“ A new caspase-activating proapoptotic agent. European Journal of Medicinal Chemistry, 2021, 222, 113589.	5.5	16
126	Pharmaceutical strategies for preventing toxicity and promoting antioxidant and anti-inflammatory actions of bilirubin. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 487-501.	5.2	16

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127	Development of 4-((3-oxo-3-phenylpropyl)amino)benzenesulfonamide derivatives utilizing tail/dual-tail approaches as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 238, 114412.	5.5	16
128	Synthesis and carbonic anhydrase I, II, IX and XII inhibitory activity of sulfamates incorporating piperazinyl-ureido moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 5619-5625.	3.0	15
129	Synthesis and comparative carbonic anhydrase inhibition of new Schiffâ€™s bases incorporating benzenesulfonamide, methanesulfonamide, and methylsulfonylbenzene scaffolds. Bioorganic Chemistry, 2019, 92, 103225.	4.1	15
130	Click-tailed benzenesulfonamides as potent bacterial carbonic anhydrase inhibitors for targeting Mycobacterium tuberculosis and Vibrio cholerae. Bioorganic Chemistry, 2019, 86, 183-186.	4.1	15
131	Novel Re(I) tricarbonyl coordination compounds based on 2-pyridyl-1,2,3-triazole derivatives bearing a 4-amino-substituted benzenesulfonamide arm: synthesis, crystal structure, computational studies and inhibitory activity against carbonic anhydrase I, II, and IX isoformsâ€. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 773-782.	5.2	15
132	Aryl derivatives of 3H-1,2-benzoxathiepine 2,2-dioxide as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 245-254.	5.2	15
133	Sulfonamide/sulfamate switch with a series of piperazinylureido derivatives: Synthesis, kinetic and in silico evaluation as carbonic anhydrase isoforms I, II, IV, and IX inhibitors. European Journal of Medicinal Chemistry, 2020, 186, 111896.	5.5	15
134	Appliance of the piperidinyl-hydrazidoureido linker to benzenesulfonamide compounds: Synthesis, in vitro and in silico evaluation of potent carbonic anhydrase II, IX and XII inhibitors. Bioorganic Chemistry, 2020, 98, 103728.	4.1	15
135	Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. European Journal of Medicinal Chemistry, 2021, 226, 113875.	5.5	15
136	Discovery of 2,4-thiazolidinedione-tethered coumarins as novel selective inhibitors for carbonic anhydrase IX and XII isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 531-541.	5.2	15
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