

Anticancer carbonic anhydrase inhibitors: a patent review

Expert Opinion on Therapeutic Patents

23, 737-749

DOI: 10.1517/13543776.2013.798648

Citation Report

#	ARTICLE	IF	CITATIONS
1	5-Substituted-(1,2,3-triazol-4-yl)thiophene-2-sulfonamides strongly inhibit human carbonic anhydrases I, II, IX and XII: Solution and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 5130-5138.	1.4	31
2	Synthesis of novel acridine and bis acridine sulfonamides with effective inhibitory activity against the cytosolic carbonic anhydrase isoforms II and VII. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 5799-5805.	1.4	33
3	Effect of incorporating a thiophene tail in the scaffold of acetazolamide on the inhibition of human carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5646-5649.	1.0	23
4	Structural study of the location of the phenyl tail of benzene sulfonamides and the effect on human carbonic anhydrase inhibition. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6674-6680.	1.4	12
5	Inhibition of human carbonic anhydrase isoforms I–XIV with sulfonamides incorporating fluorine and 1,3,5-triazine moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6929-6936.	1.4	18
6	Sulfonamides and their isosters as carbonic anhydrase inhibitors. <i>Future Medicinal Chemistry</i> , 2014, 6, 1149-1165.	1.1	172
7	Safety of carbonic anhydrase inhibitors. <i>Expert Opinion on Drug Safety</i> , 2014, 13, 459-472.	1.0	47
8	Endostar combined with radiotherapy increases radiation sensitivity by decreasing the expression of TGF- $\beta$ 1, HIF-1 $\alpha$ and bFGF. <i>Experimental and Therapeutic Medicine</i> , 2014, 7, 911-916.	0.8	12
9	Carborane-Based Carbonic Anhydrase Inhibitors: Insight into CAII/CAIX Specificity from a High-Resolution Crystal Structure, Modeling, and Quantum Chemical Calculations. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	18
10	A Class of 4-Sulfamoylphenyl- $\alpha$ -aminoalkyl Ethers with Effective Carbonic Anhydrase Inhibitory Action and Antiglaucoma Effects. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9673-9686.	2.9	46
11	Structural Insights on Carbonic Anhydrase Inhibitory Action, Isoform Selectivity, and Potency of Sulfonamides and Coumarins Incorporating Arylsulfonylureido Groups. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9152-9167.	2.9	55
12	The structural comparison between membrane-associated human carbonic anhydrases provides insights into drug design of selective inhibitors. <i>Biopolymers</i> , 2014, 101, 769-778.	1.2	44
13	Carbonic anhydrase inhibition by 1-aryl-3-(4-aminosulfonylphenyl)thioureas. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 901-905.	2.5	22
14	Combining the tail and the ring approaches for obtaining potent and isoform-selective carbonic anhydrase inhibitors: Solution and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 334-340.	1.4	104
15	Sulfonamide inhibition studies of two $\beta$ -carbonic anhydrases from the bacterial pathogen <i>Legionella pneumophila</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2939-2946.	1.4	43
16	Carbonic anhydrase inhibitory activity of sulfonamides and carboxylic acids incorporating cyclic imide scaffolds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5185-5189.	1.0	47
17	Novel sulfonamides bearing pyrrole and pyrrolopyrimidine moieties as carbonic anhydrase inhibitors: Synthesis, cytotoxic activity and molecular modeling. <i>European Journal of Medicinal Chemistry</i> , 2014, 87, 186-196.	2.6	44
18	Chemometric modeling of breast cancer associated carbonic anhydrase IX inhibitors belonging to the ureido-substituted benzene sulfonamide class. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 877-883.	2.5	8

#	ARTICLE	IF	CITATIONS
19	How lipidomics provides new insight into drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2014, 9, 819-836.	2.5	9
20	Carbonic anhydrase inhibitors. Synthesis of a novel series of 5-substituted 2,4-dichlorobenzenesulfonamides and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. <i>European Journal of Medicinal Chemistry</i> , 2014, 82, 47-55.	2.6	18
21	Sulfonamide inhibition studies of the $\hat{1}^3$ -carbonic anhydrase from the oral pathogen <i>Porphyromonas gingivalis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 240-244.	1.0	50
22	Flow synthesis and biological activity of aryl sulfonamides as selective carbonic anhydrase IX and XII inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3422-3425.	1.0	17
23	Carbonic Anhydrase II as Target for Drug Design. , 2015, , 51-90.		2
24	Human Carbonic Anhydrases: Catalytic Properties, Structural Features, and Tissue Distribution. , 2015, , 17-30.		9
25	Discovery and Development of the Aryl $\langle i \rangle \langle /i \rangle$ -Sulfamate Pharmacophore for Oncology and Women's Health. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 7634-7658.	2.9	72
26	Design and synthesis of benzothiazole-6-sulfonamides acting as highly potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4989-4999.	1.4	35
27	New pyrazolo[4,3-e][1,2,4]triazine sulfonamides as carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3674-3680.	1.4	36
28	Cloning, characterization and anion inhibition studies of a $\hat{1}^3$ -carbonic anhydrase from the Antarctic cyanobacterium <i>Nostoc commune</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4970-4975.	1.0	13
29	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with Schiff's bases incorporating iminoureido moieties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 901-907.	2.5	13
30	Saccharin: A lead compound for structure-based drug design of carbonic anhydrase IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 849-854.	1.4	69
31	The impact of hydroquinone on acetylcholine esterase and certain human carbonic anhydrase isoenzymes (hCA I, II, IX, and XII). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 941-946.	2.5	96
32	Exploring QSARs of some benzenesulfonamides incorporating cyanoacrylamide moieties as a carbonic anhydrase inhibitors (specifically against tumor-associated isoforms IX and XII). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 519-523.	2.5	8
33	Plasmonic Particles that Hit Hypoxic Cells. <i>Advanced Functional Materials</i> , 2015, 25, 316-323.	7.8	38
34	Synthesis of 6-aryl-substituted sulfocoumarins and investigation of their carbonic anhydrase inhibitory action. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1430-1436.	1.4	43
35	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1828-1840.	1.4	126
36	Tumor-Associated Carbonic Anhydrases IX and XII. , 2015, , 169-205.		12

#	ARTICLE	IF	CITATIONS
37	Sulfonamide inhibition studies of the $\hat{\beta}$ -carbonic anhydrase from the Antarctic bacterium <i>Pseudoalteromonas haloplanktis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3550-3555.	1.0	28
38	Synthesis and carbonic anhydrase I, II, IX and XII inhibitory activity of sulfamates incorporating piperazinyl-ureido moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5619-5625.	1.4	15
39	Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3850-3853.	1.0	25
40	Acetazolamide for the treatment of idiopathic intracranial hypertension. <i>Expert Review of Neurotherapeutics</i> , 2015, 15, 851-856.	1.4	128
41	Sulfonamide bearing pyrazolylpyrazolines as potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3208-3212.	1.0	43
43	Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2368-2376.	1.4	40
44	Designing carbonic anhydrase inhibitors for the treatment of breast cancer. <i>Expert Opinion on Drug Discovery</i> , 2015, 10, 591-597.	2.5	43
45	Synthesis, carbonic anhydrase inhibition and cytotoxic activity of novel chromone-based sulfonamide derivatives. <i>European Journal of Medicinal Chemistry</i> , 2015, 96, 425-435.	2.6	46
46	7-Amino-3,4-dihydro-1H-quinolin-2-one, a compound similar to the substituted coumarins, inhibits $\hat{\beta}$ -carbonic anhydrases without hydrolysis of the lactam ring. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 773-777.	2.5	25
47	Sulfonamide inhibition studies of the $\hat{\beta}$ -carbonic anhydrase from the Antarctic cyanobacterium <i>Nostoc commune</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1728-1734.	1.4	33
48	Emerging therapeutic targets for the treatment of human acute myeloid leukemia (part 1) – gene transcription, cell cycle regulation, metabolism and intercellular communication. <i>Expert Review of Hematology</i> , 2015, 8, 299-313.	1.0	13
49	Carbonic anhydrase IX inhibitors in cancer therapy: an update. <i>Future Medicinal Chemistry</i> , 2015, 7, 1407-1414.	1.1	135
50	Carbonic anhydrase inhibitors: guaiacol and catechol derivatives effectively inhibit certain human carbonic anhydrase isoenzymes (hCA I, II, IX and XII). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 586-591.	2.5	121
51	Prognostic relevance of carbonic anhydrase IX expression is distinct in various subtypes of breast cancer and its silencing suppresses self-renewal capacity of breast cancer cells. <i>Cancer Chemotherapy and Pharmacology</i> , 2015, 75, 235-246.	1.1	46
52	P-glycoprotein-mediated chemoresistance is reversed by carbonic anhydrase XII inhibitors. <i>Oncotarget</i> , 2016, 7, 85861-85875.	0.8	34
53	Prognostic Significance of Carbonic Anhydrase IX Expression in Cancer Patients: A Meta-Analysis. <i>Frontiers in Oncology</i> , 2016, 6, 69.	1.3	129
54	Carbonic anhydrase inhibition and the management of neuropathic pain. <i>Expert Review of Neurotherapeutics</i> , 2016, 16, 961-968.	1.4	124
55	Lansoprazole and carbonic anhydrase IX inhibitors synergize against human melanoma cells. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 119-125.	2.5	54

#	ARTICLE	IF	CITATIONS
56	Anomeric Effects in Sulfamides. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3677-3682.	1.1	9
57	CA IX stratification based on cancer treatment: a patent evaluation of US2016/0002350. <i>Expert Opinion on Therapeutic Patents</i> , 2016, 26, 1105-1109.	2.4	5
58	Mycobacterial carbonic anhydrase inhibition with phenolic acids and esters: kinetic and computational investigations. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8322-8330.	1.5	29
59	Synthesis and carbonic anhydrase inhibitory activities of new thienyl-substituted pyrazoline benzenesulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1-5.	2.5	46
60	Structure and function of carbonic anhydrases. <i>Biochemical Journal</i> , 2016, 473, 2023-2032.	1.7	688
61	Benzenesulfonamides Incorporating Flexible Triazole Moieties Are Highly Effective Carbonic Anhydrase Inhibitors: Synthesis and Kinetic, Crystallographic, Computational, and Intraocular Pressure Lowering Investigations. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10692-10704.	2.9	93
62	Carbonic anhydrases are producers of S-nitrosothiols from inorganic nitrite and modulators of soluble guanylyl cyclase in human platelets. <i>Amino Acids</i> , 2016, 48, 1695-1706.	1.2	28
63	Microwave assisted synthesis of novel acridine- <i>acetazolamide</i> conjugates and investigation of their inhibition effects on human carbonic anhydrase isoforms hCA I, II, IV and VII. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3548-3555.	1.4	10
64	N-(2-methyl-indol-1H-5-yl)-1-naphthalenesulfonamide: A novel reversible antimetastatic agent inhibiting cancer cell motility. <i>Biochemical Pharmacology</i> , 2016, 115, 28-42.	2.0	7
65	Synthesis 4-[2-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-ethyl]-benzenesulfonamides with subnanomolar carbonic anhydrase II and XII inhibitory properties. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4100-4107.	1.4	17
66	Dithiocarbamates with potent inhibitory activity against the <i>Saccharomyces cerevisiae</i> carbonic anhydrase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 132-136.	2.5	17
67	Amido/ureidosubstituted benzenesulfonamides-isatin conjugates as low nanomolar/subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform XII. <i>European Journal of Medicinal Chemistry</i> , 2016, 110, 259-266.	2.6	77
68	4-Arylbenzenesulfonamides as Human Carbonic Anhydrase Inhibitors (hCAIs): Synthesis by Pd Nanocatalyst-Mediated Suzuki-Miyaura Reaction, Enzyme Inhibition, and X-ray Crystallographic Studies. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 721-732.	2.9	33
69	How many carbonic anhydrase inhibition mechanisms exist?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 345-360.	2.5	588
70	Drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2016, 12, 423-431.	1.5	86
71	Development of 3-(4-aminosulphonyl)-phenyl-2-mercapto-3H-quinazolin-4-ones as inhibitors of carbonic anhydrase isoforms involved in tumorigenesis and glaucoma. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1402-1407.	1.4	11
72	PET Imaging of Carbonic Anhydrase IX Expression of HT-29 Tumor Xenograft Mice with <sup>68</sup> Ga-Labeled Benzenesulfonamides. <i>Molecular Pharmaceutics</i> , 2016, 13, 1137-1146.	2.3	49
73	Synthesis of novel sulfonamides under mild conditions with effective inhibitory activity against the carbonic anhydrase isoforms I and II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1356-1361.	2.5	9

#	ARTICLE	IF	CITATIONS
74	Synthesis and carbonic anhydrase I, II, IV and XII inhibitory properties of N-protected amino acid "sulfonamide conjugates. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1476-1483.	2.5	18
75	N-Alkylated arylsulfonamides of (aryloxy)ethyl piperidines: 5-HT7 receptor selectivity versus multireceptor profile. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 130-139.	1.4	16
76	Development of certain new 2-substituted-quinazolin-4-yl-aminobenzenesulfonamide as potential antitumor agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 109, 247-253.	2.6	41
77	Metal complexes of benzimidazole derived sulfonamide: Synthesis, molecular structures and antimicrobial activity. <i>Inorganica Chimica Acta</i> , 2016, 443, 179-185.	1.2	49
78	Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 462-473.	2.9	75
79	Synthesis of novel sulfonamide analogs containing sulfamerazine/sulfaguanidine and their biological activities. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1005-1010.	2.5	7
80	Expression and characterization of a recombinant psychrophilic $\beta$ -carbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus <i>Nostoc</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 810-817.	2.5	7
81	A magnificent enzyme superfamily: carbonic anhydrases, their purification and characterization. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 689-694.	2.5	128
82	Microwave assisted synthesis of novel hybrid tacrine-sulfonamide derivatives and investigation of their antioxidant and anticholinesterase activities. <i>Bioorganic Chemistry</i> , 2017, 70, 245-255.	2.0	28
83	Carbonic anhydrases activation with 3-amino-1H-1,2,4-triazole-1-carboxamides: Discovery of subnanomolar isoform II activators. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1681-1686.	1.4	28
84	Synthesis of bulky-tailed sulfonamides incorporating pyrido[2,3- d ][1,2,4]triazolo[4,3- a effects. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2210-2217.	1.4	35
85	Evaluation of selenide, diselenide and selenoheterocycle derivatives as carbonic anhydrase I, II, IV, VII and IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2518-2523.	1.4	44
86	Synthesis and human/bacterial carbonic anhydrase inhibition with a series of sulfonamides incorporating phthalimido moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2524-2529.	1.4	25
87	Lead Development of Thiazolylsulfonamides with Carbonic Anhydrase Inhibitory Action. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 3154-3164.	2.9	18
88	Acetazolamide potentiates the anti-tumor potential of HDACi, MS-275, in neuroblastoma. <i>BMC Cancer</i> , 2017, 17, 156.	1.1	32
89	Disclosing the Interaction of Carbonic Anhydrase IX with Cullin-Associated NEDD8-Dissociated Protein 1 by Molecular Modeling and Integrated Binding Measurements. <i>ACS Chemical Biology</i> , 2017, 12, 1460-1465.	1.6	17
90	Synthesis of novel acyl selenoureido benzenesulfonamides as carbonic anhydrase I, II, VII and IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3567-3573.	1.4	42
91	Probing Molecular Interactions between Human Carbonic Anhydrases (hCAs) and a Novel Class of Benzenesulfonamides. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4316-4326.	2.9	40

#	ARTICLE	IF	CITATIONS
92	Synthesis and biological evaluation of novel aromatic and heterocyclic bis-sulfonamide Schiff bases as carbonic anhydrase I, II, VII and IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3093-3097.	1.4	53
93	Synthesis of an acridine orange sulfonamide derivative with potent carbonic anhydrase IX inhibitory action. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 701-706.	2.5	11
94	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2569-2576.	1.4	79
95	Intrinsic Thermodynamics and Structures of 2,4- and 3,4-Substituted Fluorinated Benzenesulfonamides Binding to Carbonic Anhydrases. <i>ChemMedChem</i> , 2017, 12, 161-176.	1.6	21
96	Dual targeting of cancer-related human matrix metalloproteinases and carbonic anhydrases by chiral <i>N</i> -(biarylsulfonyl)-phosphonic acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1260-1264.	2.5	4
97	Psychoactive substances belonging to the amphetamine class potently activate brain carbonic anhydrase isoforms VA, VB, VII, and XII. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1253-1259.	2.5	33
98	Synthesis and biological evaluation of benzenesulphonamide-bearing 1,4,5-trisubstituted-1,2,3-triazoles possessing human carbonic anhydrase I, II, IV, and IX inhibitory activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1187-1194.	2.5	42
99	Development of sulfonamides incorporating phenylacrylamido functionalities as carbonic anhydrase isoforms I, II, IX and XII inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5726-5732.	1.4	9
100	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. <i>European Journal of Medicinal Chemistry</i> , 2017, 139, 250-262.	2.6	110
101	Synthesis and carbonic anhydrase I, II, VII, and IX inhibition studies with a series of benzo[d]thiazole-5- and 6-sulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1071-1078.	2.5	51
102	Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1314-1319.	1.3	61
103	Synthesis and biological evaluation of histamine Schiff bases as carbonic anhydrase I, II, IV, VII, and IX activators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 1305-1312.	2.5	52
104	Carbonic anhydrase I, II, IV and IX inhibition with a series of 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 885-892.	2.5	10
105	A class of carbonic anhydrase I selective activators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 37-46.	2.5	34
106	Microwave assisted synthesis of novel tetrazole/sulfonamide derivatives based on octahydroacridine, xanthene and chromene skeletons as inhibitors of the carbonic anhydrases isoforms I, II, IV and VII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 86-89.	1.0	14
107	Benzenesulfonamides bearing pyrrolidinone moiety as inhibitors of carbonic anhydrase IX: synthesis and binding studies. <i>Medicinal Chemistry Research</i> , 2017, 26, 235-246.	1.1	9
108	Discovery of 4-sulfamoyl-phenyl- $\beta$ -lactams as a new class of potent carbonic anhydrase isoforms I, II, IV and VII inhibitors: The first example of subnanomolar CA IV inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 539-544.	1.4	14
109	New approach of delivering cytotoxic drugs towards CAIX expressing cells: A concept of dual-target drugs. <i>European Journal of Medicinal Chemistry</i> , 2017, 127, 691-702.	2.6	22



#	ARTICLE	IF	CITATIONS
111	An update on anticancer drug development and delivery targeting carbonic anhydrase IX. <i>PeerJ</i> , 2017, 5, e4068.	0.9	18
112	Carbon- versus sulphur-based zinc binding groups for carbonic anhydrase inhibitors?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 485-495.	2.5	103
113	Carbonic anhydrase activators. <i>Future Medicinal Chemistry</i> , 2018, 10, 561-573.	1.1	127
114	Activation studies of the $\hat{1}\pm$ - and $\hat{1}^2$ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> with amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 227-233.	2.5	19
115	Activation studies with amines and amino acids of the $\hat{1}^2$ -carbonic anhydrase from the pathogenic protozoan <i>Leishmania donovani</i> chagasi. <i>Bioorganic Chemistry</i> , 2018, 78, 406-410.	2.0	18
116	Synthesis, structure and bioactivity of primary sulfamate-containing natural products. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3009-3013.	1.0	14
117	Inhibition of carbonic anhydrase IX targets primary tumors, metastases, and cancer stem cells: Three for the price of one. <i>Medicinal Research Reviews</i> , 2018, 38, 1799-1836.	5.0	207
118	Design and synthesis of novel 1,3-diaryltriazene-substituted sulfonamides as potent and selective carbonic anhydrase II inhibitors. <i>Bioorganic Chemistry</i> , 2018, 77, 542-547.	2.0	50
119	Discovery of thiazolin-4-one-based aromatic sulfamates as a new class of carbonic anhydrase isoforms I, II, IV, and IX inhibitors. <i>Bioorganic Chemistry</i> , 2018, 77, 293-299.	2.0	27
120	New anticancer drug candidates sulfonamides as selective hCA IX or hCA XII inhibitors. <i>Bioorganic Chemistry</i> , 2018, 77, 411-419.	2.0	99
121	Structural investigations on coumarins leading to chromeno[4,3-c]pyrazol-4-ones and pyrano[4,3-c]pyrazol-4-ones: New scaffolds for the design of the tumor-associated carbonic anhydrase isoforms IX and XII. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 47-59.	2.6	45
122	Activation studies with amines and amino acids of the $\hat{1}^2$ -carbonic anhydrase encoded by the <i>Rv3273</i> gene from the pathogenic bacterium <i>Mycobacterium tuberculosis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 364-369.	2.5	16
123	The $\hat{1}^3$ -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> is potently activated by amines and amino acids. <i>Bioorganic Chemistry</i> , 2018, 77, 1-5.	2.0	19
124	Synthesis of novel 5-amino-1,3,4-thiadiazole-2-sulfonamide containing acridine sulfonamide/carboxamide compounds and investigation of their inhibition effects on human carbonic anhydrase I, II, IV and VII. <i>Bioorganic Chemistry</i> , 2018, 77, 101-105.	2.0	17
125	The first activation study of a $\hat{1}$ -carbonic anhydrase: TweCA $\hat{1}$ from the diatom <i>Thalassiosira weissflogii</i> is effectively activated by amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 680-685.	2.5	18
126	Anticancer effects of new dibenzenesulfonamides by inducing apoptosis and autophagy pathways and their carbonic anhydrase inhibitory effects on hCA I, hCA II, hCA IX, hCA XII isoenzymes. <i>Bioorganic Chemistry</i> , 2018, 78, 290-297.	2.0	44
127	Inhibition studies on a panel of human carbonic anhydrases with <i>N</i> -1-substituted secondary sulfonamides incorporating thiazolinone or imidazolone-indole tails. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 629-638.	2.5	37
128	Biochemical, biophysical and molecular dynamics studies on the proteoglycan-like domain of carbonic anhydrase IX. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3283-3296.	2.4	20



#	ARTICLE	IF	CITATIONS
129	Discovery of Benzenesulfonamide Derivatives as Carbonic Anhydrase Inhibitors with Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Evaluation. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3151-3165.	2.9	27
130	Synthesis of novel acridine-sulfonamide hybrid compounds as acetylcholinesterase inhibitor for the treatment of Alzheimer's disease. <i>Medicinal Chemistry Research</i> , 2018, 27, 634-641.	1.1	14
131	Crystal structure of the human carbonic anhydrase II adduct with 1-(4-sulfamoylphenyl-ethyl)-2,4,6-triphenylpyridinium perchlorate, a membrane-impermeant, isoform selective inhibitor. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 151-157.	2.5	26
132	Sulphonamide inhibition studies of the $\hat{I}^2$ -carbonic anhydrase from the bacterial pathogen <i>Clostridium perfringens</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 31-36.	2.5	17
133	Exponential Activation of Carbonic Anhydrase by Encapsulation in Dynameric Host Matrices with Chiral Discrimination. <i>Chemistry - A European Journal</i> , 2018, 24, 715-720.	1.7	13
134	Improving the carbonic anhydrase inhibition profile of the sulfamoylphenyl pharmacophore by attachment of carbohydrate moieties. <i>Bioorganic Chemistry</i> , 2018, 76, 61-66.	2.0	10
135	Bioorthogonal release of sulfonamides and mutually orthogonal liberation of two drugs. <i>Chemical Communications</i> , 2018, 54, 14089-14092.	2.2	42
136	Development of a high throughput yeast-based screening assay for human carbonic anhydrase isozyme II inhibitors. <i>AMB Express</i> , 2018, 8, 124.	1.4	11
137	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. <i>Expert Opinion on Investigational Drugs</i> , 2018, 27, 963-970.	1.9	195
138	Novel thiazolidinone-containing compounds, without the well-known sulphonamide zinc-binding group acting as human carbonic anhydrase IX inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1299-1308.	2.5	19
139	Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. <i>Expert Opinion on Therapeutic Patents</i> , 2018, 28, 709-712.	2.4	138
140	Applications of carbonic anhydrases inhibitors in renal and central nervous system diseases. <i>Expert Opinion on Therapeutic Patents</i> , 2018, 28, 713-721.	2.4	97
141	Evaluation of sulphonamide derivatives acting as inhibitors of human carbonic anhydrase isoforms I, II and <i>Mycobacterium tuberculosis</i> $\hat{I}^2$ -class enzyme Rv3273. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 962-971.	2.5	26
142	Organoruthenium and Organoosmium Complexes of $\hat{I}^2$ -Pyridinecarbothioamides Functionalized with a Sulphonamide Motif: Synthesis, Cytotoxicity and Biomolecule Interactions. <i>ChemPlusChem</i> , 2018, 83, 612-619.	1.3	12
143	The first activation studies of the $\hat{I}^2$ -carbonic anhydrase from the malaria parasite <i>Plasmodium falciparum</i> with amines and amino acids. <i>Bioorganic Chemistry</i> , 2018, 80, 94-98.	2.0	26
144	Carbonic anhydrase inhibitors as antitumor/antimetastatic agents: a patent review (2008-2018). <i>Expert Opinion on Therapeutic Patents</i> , 2018, 28, 729-740.	2.4	160
145	Inhibition of $\hat{I}^1$ , $\hat{I}^2$ , $\hat{I}^3$ , and $\hat{I}^4$ -carbonic anhydrases from bacteria and diatoms with $N$ -aryl- $N$ -hydroxy-ureas. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1194-1198.	2.5	18
146	Novel 6- and 7-Substituted Coumarins with Inhibitory Action against Lipoxygenase and Tumor-Associated Carbonic Anhydrase IX. <i>Molecules</i> , 2018, 23, 153.	1.7	27

#	ARTICLE	IF	CITATIONS
147	Synthesis of novel isoindoline-1,3-dione-based oximes and benzenesulfonamide hydrazones as selective inhibitors of the tumor-associated carbonic anhydrase IX. <i>Bioorganic Chemistry</i> , 2018, 80, 706-713.	2.0	36
148	Biomedical applications of prokaryotic carbonic anhydrases. <i>Expert Opinion on Therapeutic Patents</i> , 2018, 28, 745-754.	2.4	88
149	Carbonic Anhydrases and Metabolism. <i>Metabolites</i> , 2018, 8, 25.	1.3	164
150	Amino Acids as Building Blocks for Carbonic Anhydrase Inhibitors. <i>Metabolites</i> , 2018, 8, 36.	1.3	22
151	Benzamide-4-Sulfonamides Are Effective Human Carbonic Anhydrase I, II, VII, and IX Inhibitors. <i>Metabolites</i> , 2018, 8, 37.	1.3	19
152	Activation studies with amines and amino acids of the $\hat{I}\pm$ -carbonic anhydrase from the pathogenic protozoan <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4187-4190.	1.4	12
153	Advances in the structural annotation of human carbonic anhydrases and impact on future drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 1175-1197.	2.5	123
154	Carbonic anhydrase activators and their potential in the pharmaceutical field. , 2019, , 477-492.		0
155	Biotechnologic applications of carbonic anhydrases from extremophiles. , 2019, , 495-514.		0
156	The first activation study of the $\hat{I}^2$ -carbonic anhydrases from the pathogenic bacteria <i>Brucella suis</i> and <i>Francisella tularensis</i> with amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1178-1185.	2.5	7
157	Carbonic anhydrases. , 2019, , 3-16.		13
158	Biochemical and Structural Insights into Carbonic Anhydrase XII/Fab6A10 Complex. <i>Journal of Molecular Biology</i> , 2019, 431, 4910-4921.	2.0	23
159	Synthesis, biological evaluation and in silico modelling studies of 1,3,5-trisubstituted pyrazoles carrying benzenesulfonamide as potential anticancer agents and selective cancer-associated hCA IX isoenzyme inhibitors. <i>Bioorganic Chemistry</i> , 2019, 92, 103222.	2.0	34
160	Organoruthenium(II) complexes of acetazolamide potently inhibit human carbonic anhydrase isoforms I, II, IX and XII. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 388-393.	2.5	18
161	Thermostability enhancement of the $\hat{I}\pm$ -carbonic anhydrase from <i>Sulfurihydrogenibium yellowstonense</i> by using the anchoring-and-self-labelling-protein-tag system (ASL-tag). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 946-954.	2.5	10
162	Carbonic Anhydrase Inhibitor <sup>2</sup> NO Donor Hybrids and Their Pharmacological Applications. , 2019, , 229-242.		6
163	Novel 8-Substituted Coumarins That Selectively Inhibit Human Carbonic Anhydrase IX and XII. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1208.	1.8	23
164	Discovery of new ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as carbonic anhydrase I, II, IX and XII inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 1588-1594.	1.4	47

#	ARTICLE	IF	CITATIONS
165	Quantitative Assessment of Affinity Selection Performance by Using DNA-Encoded Chemical Libraries. <i>ChemBioChem</i> , 2019, 20, 955-962.	1.3	38
166	Inhibition of bacterial $\hat{1}$ -, $\hat{2}$ - and $\hat{3}$ -class carbonic anhydrases with selenazoles incorporating benzenesulfonamide moieties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 244-249.	2.5	17
167	Prostate cancer cells and exosomes in acidic condition show increased carbonic anhydrase IX expression and activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 272-278.	2.5	59
168	Microwave-assisted synthesis of 1-substituted H-benzimidazolium salts: Non-competitive inhibition of human carbonic anhydrase I and II. <i>Archiv Der Pharmazie</i> , 2019, 352, 1800325.	2.1	6
169	New sulfonamides containing organometallic-acylhydrazones: synthesis, characterisation and biological evaluation as inhibitors of human carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 451-458.	2.5	11
170	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. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 147-160.	2.6	81
171	Exploring structural properties of potent human carbonic anhydrase inhibitors bearing a 4-(cycloalkylamino-1-carbonyl)benzenesulfonamide moiety. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 443-452.	2.6	31
172	Design, synthesis and biological evaluation of novel ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as potent carbonic anhydrase IX inhibitors. <i>Bioorganic Chemistry</i> , 2019, 82, 117-122.	2.0	44
173	Carbonic anhydrase IX as a novel candidate in liquid biopsy. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 255-260.	2.5	21
174	The Anticancer Activity for the Bumetanide-Based Analogs via Targeting the Tumor-Associated Membrane-Bound Human Carbonic Anhydrase-IX Enzyme. <i>Pharmaceuticals</i> , 2020, 13, 252.	1.7	19
175	Molecular docking studies, anti-Alzheimer's disease, antidiabetic, and anti-acute myeloid leukemia potentials of narcissoside. <i>Archives of Physiology and Biochemistry</i> , 2023, 129, 405-415.	1.0	10
176	Human carbonic anhydrases and post-translational modifications: a hidden world possibly affecting protein properties and functions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1450-1461.	2.5	19
177	Evaluation of some thiophene-based sulfonamides as potent inhibitors of carbonic anhydrase I and II isoenzymes isolated from human erythrocytes by kinetic and molecular modelling studies. <i>Pharmacological Reports</i> , 2020, 72, 1738-1748.	1.5	14
178	An overview of carbohydrate-based carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1906-1922.	2.5	23
179	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. <i>Metabolites</i> , 2020, 10, 412.	1.3	116
180	In Silico Identification and Biological Evaluation of Antioxidant Food Components Endowed with Human Carbonic Anhydrase IX and XII Inhibition. <i>Antioxidants</i> , 2020, 9, 775.	2.2	5
181	Iodoquinazolinones bearing benzenesulfonamide as human carbonic anhydrase I, II, IX and XII inhibitors: Synthesis, biological evaluation and radiosensitizing activity. <i>European Journal of Medicinal Chemistry</i> , 2020, 200, 112449.	2.6	11
182	Carbonic anhydrase from extremophiles and their potential use in biotechnological applications. , 2020, , 295-306.		1

#	ARTICLE	IF	CITATIONS
183	Looking toward the Rim of the Active Site Cavity of Druggable Human Carbonic Anhydrase Isoforms. ACS Medicinal Chemistry Letters, 2020, 11, 1000-1005.	1.3	6
184	Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation. Chemistry and Biodiversity, 2020, 17, e2000258.	1.0	1
185	N-Quinary heterocycle-4-sulphamoylbenzamides exert anti-hypoxic effects as dual inhibitors of carbonic anhydrases I/II. Bioorganic Chemistry, 2020, 100, 103931.	2.0	7
186	New thiopyrimidine-benzenesulfonamide conjugates as selective carbonic anhydrase II inhibitors: synthesis, in vitro biological evaluation, and molecular docking studies. Bioorganic and Medicinal Chemistry, 2020, 28, 115329.	1.4	18
187	Characterization of Carbonic Anhydrase In Vivo Using Magnetic Resonance Spectroscopy. International Journal of Molecular Sciences, 2020, 21, 2442.	1.8	5
188	Synthesis of benzamide derivatives with thiourea-substituted benzenesulfonamides as carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2021, 354, e2000230.	2.1	24
189	Intrinsically disordered features of carbonic anhydrase IX proteoglycan-like domain. Cellular and Molecular Life Sciences, 2021, 78, 2059-2067.	2.4	10
190	Coordination behavior of dinuclear silver complex of sulfamethoxazole with solvent molecule having static rotational disorder: Spectroscopic characterization, crystal structure, Hirshfeld surface and antimicrobial activity. Journal of Molecular Structure, 2021, 1228, 129777.	1.8	20
191	Anti-breast cancer action of carbonic anhydrase IX inhibitor 4-[4-(4-Benzo[1,3]dioxol-5-ylmethyl-piperazin-1-yl)-benzylidene-hydrazinocarbonyl]-benzenesulfonamide (BSM-0004): <i>in vitro</i> and <i>in vivo</i> studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 954-963.	2.5	11
192	Molecular docking studies and virtual drug screening of chemosensitizers. , 2021, , 169-183.		0
193	Unconventional approaches for the introduction of sulfur-based functional groups. Organic and Biomolecular Chemistry, 2021, 19, 6926-6957.	1.5	6
194	Microwave-assisted synthesis of N-heterocycles. , 2021, , 143-198.		1
195	Synthesis and in vivo evaluation of novel benzimidazole-sulfonamide hybrids and <i>Lucilia cuprina</i> maggots' excretion/secretion topical gels for wound healing. Journal of the Chinese Chemical Society, 2021, 68, 1291-1301.	0.8	3
196	Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. Journal of Medicinal Chemistry, 2021, 64, 3100-3114.	2.9	17
197	Recent Updates on the Synthesis of Bioactive Quinoxaline-Containing Sulfonamides. Applied Sciences (Switzerland), 2021, 11, 5702.	1.3	23
198	Updates on Receptors Targeted by Heterocyclic Scaffolds: New Horizon in Anticancer Drug Development. Anti-Cancer Agents in Medicinal Chemistry, 2021, 21, 1338-1349.	0.9	6
199	Synthesis and biological evaluation of new pyrazolebenzene-sulphonamides as potential anticancer agents and hCA I and II inhibitors. Turkish Journal of Chemistry, 2021, 45, 528-539.	0.5	3
200	Design, synthesis and biochemical evaluation of novel carbonic anhydrase inhibitors triggered by structural knowledge on hCA VII. Bioorganic and Medicinal Chemistry, 2021, 44, 116279.	1.4	2

#	ARTICLE	IF	CITATIONS
201	Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113875.	2.6	15
202	Investigations on experimental, theoretical spectroscopic, electronic excitations, molecular docking of Sulfaguanidine (SG): An antibiotic drug. <i>Chemical Physics Letters</i> , 2021, 783, 139049.	1.2	19
203	Synthesis, molecular docking studies, and absorption, distribution, metabolism, and excretion prediction of novel sulfonamide derivatives as antibacterial agents. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 558-566.	0.8	4
204	Carbonic Anhydrases: An Overview. , 2015, , 3-13.		22
205	Exploring benzoxaborole derivatives as carbonic anhydrase inhibitors: a structural and computational analysis reveals their conformational variability as a tool to increase enzyme selectivity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1498-1505.	2.5	7
206	The Sulfamate Small Molecule CAIX Inhibitor S4 Modulates Doxorubicin Efficacy. <i>PLoS ONE</i> , 2016, 11, e0161040.	1.1	14
207	Synthesis, Characterization, and Carbonic Anhydrase Inhibitory Properties of Silver(I) Complexes of Benzimidazole Derivatives. <i>Journal of the Turkish Chemical Society, Section A: Chemistry</i> , 0, , 253-260.	0.4	1
208	Identification of potent human carbonic anhydrase IX inhibitors: a combination of pharmacophore modeling, 3D-QSAR, virtual screening and molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 4516-4531.	2.0	8
209	Synthesis, characterization, and inhibitory properties of novel N-benzylbenzimidazole-silver(I) complexes on carbonic anhydrase and polyphenol oxidase enzymes. <i>Journal of the Institute of Science and Technology</i> , 0, , 320-327.	0.3	1
210	Prognostic value of carbonic anhydrase XII (CA XII) overexpression in hepatocellular carcinoma. <i>International Journal of Clinical and Experimental Pathology</i> , 2019, 12, 2173-2183.	0.5	5
211	Post-translational modifications in tumor-associated carbonic anhydrases. <i>Amino Acids</i> , 2022, 54, 543-558.	1.2	7
212	Recent advances in the design and synthesis of small molecule carbonic anhydrase IX inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2022, 22, ,	1.0	1
213	Beta and Gamma Amino Acid-Substituted Benzenesulfonamides as Inhibitors of Human Carbonic Anhydrases. <i>Pharmaceuticals</i> , 2022, 15, 477.	1.7	5
214	<i>In vitro</i> and <i>In silico</i> anticancer activities of Mn( <sup>II</sup> ), Co( <sup>II</sup> ), and Ni( <sup>II</sup> ) complexes: synthesis, characterization, crystal structures, and DFT studies. <i>New Journal of Chemistry</i> , 2022, 46, 11056-11070.	1.4	8
215	Synthesis of a new series of quinoline/pyridine indole-3-sulfonamide hybrids as selective carbonic anhydrase IX inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 70, 128809.	1.0	7
216	Click chemistry-based synthesis of new benzenesulfonamide derivatives bearing triazole ring as selective carbonic anhydrase II inhibitors. <i>Drug Development Research</i> , 2022, 83, 1281-1291.	1.4	7
217	Thiocoumarins: From the Synthesis to the Biological Applications. <i>Molecules</i> , 2022, 27, 4901.	1.7	5
218	New Dual P-Glycoprotein (P-gp) and Human Carbonic Anhydrase XII (hCA XII) Inhibitors as Multidrug Resistance (MDR) Reversers in Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 14655-14672.	2.9	9

#	ARTICLE	IF	CITATIONS
219	PET radiotracers and fluorescent probes for imaging human carbonic anhydrase IX and XII in hypoxic tumors. <i>Bioorganic Chemistry</i> , 2023, 133, 106399.	2.0	4
220	Eco-friendly and potential colin esterase enzyme inhibitor agent sulfonyl hydrazone series: Synthesis, Bioactivity Screening, DFT, ADME properties, and Molecular Docking study. <i>Journal of Molecular Structure</i> , 2023, 1286, 135514.	1.8	2