

Giuseppina De Simone

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155
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163
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8,098
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avg, IF

5.92
L-index

#	Paper	IF	Citations
155	Multiple binding modes of inhibitors to carbonic anhydrases: how to design specific drugs targeting 15 different isoforms?. <i>Chemical Reviews</i> , 2012 , 112, 4421-68	68.1	889
154	Crystal structure of the catalytic domain of the tumor-associated human carbonic anhydrase IX. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16233-8	11.5	399
153	Histone deacetylase and Cullin3-REN(KCTD11) ubiquitin ligase interplay regulates Hedgehog signalling through Gli acetylation. <i>Nature Cell Biology</i> , 2010 , 12, 132-42	23.4	252
152	Biochemical characterization of CA IX, one of the most active carbonic anhydrase isozymes. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27799-27809	5.4	224
151	Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. <i>Expert Opinion on Drug Discovery</i> , 2013 , 8, 793-810	6.2	215
150	Anticancer carbonic anhydrase inhibitors: a patent review (2008 - 2013). <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 737-49	6.8	208
149	Carbonic anhydrase inhibitors: X-ray and molecular modeling study for the interaction of a fluorescent antitumor sulfonamide with isozyme II and IX. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8329-35	16.4	186
148	(In)organic anions as carbonic anhydrase inhibitors. <i>Journal of Inorganic Biochemistry</i> , 2012 , 111, 117-29	4.2	173
147	Carbonic anhydrase inhibitors. Zonisamide is an effective inhibitor of the cytosolic isozyme II and mitochondrial isozyme V: solution and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2315-20	2.9	166
146	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	14.4	159
145	Carbonic anhydrase IX: Biochemical and crystallographic characterization of a novel antitumor target. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 404-9	4	151
144	Carbonic anhydrase inhibitors: stacking with Phe131 determines active site binding region of inhibitors as exemplified by the X-ray crystal structure of a membrane-impermeant antitumor sulfonamide complexed with isozyme II. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 5721-7	8.3	150
143	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. <i>Expert Opinion on Emerging Drugs</i> , 2008 , 13, 383-92	3.7	139
142	Are carbonic anhydrase inhibitors suitable for obtaining antiobesity drugs?. <i>Current Pharmaceutical Design</i> , 2008 , 14, 655-60	3.3	137
141	The crystal structure of a hyper-thermophilic carboxylesterase from the archaeon <i>Archaeoglobus fulgidus</i> . <i>Journal of Molecular Biology</i> , 2001 , 314, 507-18	6.5	137
140	Insights into peptide nucleic acid (PNA) structural features: the crystal structure of a D-lysine-based chiral PNA-DNA duplex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12021-6	11.5	134
139	A snapshot of a transition state analogue of a novel thermophilic esterase belonging to the subfamily of mammalian hormone-sensitive lipase. <i>Journal of Molecular Biology</i> , 2000 , 303, 761-71	6.5	117

138	Out of the active site binding pocket for carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2015 , 51, 302-5	5.8	96
137	The zinc coordination pattern in the β -carbonic anhydrase from <i>Plasmodium falciparum</i> is different from all other carbonic anhydrase genetic families. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 1385-9	2.9	95
136	Carbonic anhydrase inhibitors: Hypoxia-activatable sulfonamides incorporating disulfide bonds that target the tumor-associated isoform IX. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 5544-51	8.3	93
135	2-substituted estradiol bis-sulfamates, multitargeted antitumor agents: synthesis, in vitro SAR, protein crystallography, and in vivo activity. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 7683-96	8.3	91
134	Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 74, 164-75	4.2	90
133	Dithiocarbamates are strong inhibitors of the beta-class fungal carbonic anhydrases from <i>Cryptococcus neoformans</i> , <i>Candida albicans</i> and <i>Candida glabrata</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 859-62	2.9	89
132	X-ray structure of the first β -extremo- β -carbonic anhydrase§ a dimeric enzyme from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 1150-9		89
131	Carbonic anhydrase inhibitors: Valdecoxib binds to a different active site region of the human isoform II as compared to the structurally related cyclooxygenase II "selective" inhibitor celecoxib. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 437-42	2.9	89
130	Structural and inhibition insights into carbonic anhydrase CDCA1 from the marine diatom <i>Thalassiosira weissflogii</i> . <i>Biochimie</i> , 2012 , 94, 1232-41	4.6	88
129	Drug design studies of the novel antitumor targets carbonic anhydrase IX and XII. <i>Current Medicinal Chemistry</i> , 2010 , 17, 1516-26	4.3	88
128	Investigations of the esterase, phosphatase, and sulfatase activities of the cytosolic mammalian carbonic anhydrase isoforms I, II, and XIII with 4-nitrophenyl esters as substrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2267-71	2.9	88
127	Antiobesity carbonic anhydrase inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 879-84	3	82
126	The proteoglycan region of the tumor-associated carbonic anhydrase isoform IX acts as an intrinsic buffer optimizing CO ₂ hydration at acidic pH values characteristic of solid tumors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 5825-8	2.9	73
125	Crystal structure of the C183S/C217S mutant of human CA VII in complex with acetazolamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5023-6	2.9	73
124	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. <i>Metabolites</i> , 2020 , 10,	5.6	70
123	Hypoxia-targeting carbonic anhydrase IX inhibitors by a new series of nitroimidazole-sulfonamides/sulfamides/sulfamates. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 8512-20	8.3	68
122	Recent advances in research on the most novel carbonic anhydrases, CA XIII and XV. <i>Current Pharmaceutical Design</i> , 2008 , 14, 672-8	3.3	64
121	Which carbonic anhydrases are targeted by the antiepileptic sulfonamides and sulfamates?. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 317-21	2.9	62

120	Crystal structure of the most catalytically effective carbonic anhydrase enzyme known, SazCA from the thermophilic bacterium <i>Sulfurihydrogenibium azorense</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 2002-6	2.9	60
119	Benzoxaborole as a new chemotype for carbonic anhydrase inhibition. <i>Chemical Communications</i> , 2016 , 52, 11983-11986	5.8	60
118	Hydroxamate represents a versatile zinc binding group for the development of new carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2012 , 48, 8838-40	5.8	58
117	Cloning, expression and purification of the complete domain of the β -carbonic anhydrase from <i>Plasmodium falciparum</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 54-59	5.6	50
116	Thermostable Carbonic Anhydrases in Biotechnological Applications. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 15456-80	6.3	50
115	Structure-activity relationships of C-17 cyano-substituted estratrienes as anticancer agents. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1295-308	8.3	47
114	Carbonic anhydrase VII is S-glutathionylated without loss of catalytic activity and affinity for sulfonamide inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 1560-4	2.9	46
113	Carbonic anhydrase inhibitors: bioreductive nitro-containing sulfonamides with selectivity for targeting the tumor associated isoforms IX and XII. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 3230-7	8.3	46
112	High GADA titer increases the risk of insulin requirement in LADA patients: a 7-year follow-up (NIRAD study 7). <i>European Journal of Endocrinology</i> , 2014 , 171, 697-704	6.5	45
111	Carbonic anhydrase inhibitors: inhibition of human, bacterial, and archaeal isozymes with benzene-1,3-disulfonamides--solution and crystallographic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 4201-7	2.9	45
110	Carbonic anhydrase IX as a target for designing novel anticancer drugs. <i>Current Medicinal Chemistry</i> , 2012 , 19, 821-30	4.3	44
109	Development of potent carbonic anhydrase inhibitors incorporating both sulfonamide and sulfamide groups. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6776-83	8.3	43
108	Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of N-substituted benzenesulfonamides to human isoform II. <i>Chemical Communications</i> , 2011 , 47, 11636-8	5.8	42
107	The structural comparison between membrane-associated human carbonic anhydrases provides insights into drug design of selective inhibitors. <i>Biopolymers</i> , 2014 , 101, 769-78	2.2	39
106	Carbonic anhydrase inhibitors: X-ray crystal structure of a benzenesulfonamide strong CA II and CA IX inhibitor bearing a pentafluorophenylaminothioureido tail in complex with isozyme II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 1937-42	2.9	38
105	Characterization of carbonic anhydrase IX interactome reveals proteins assisting its nuclear localization in hypoxic cells. <i>Journal of Proteome Research</i> , 2013 , 12, 282-92	5.6	37
104	Anticancer steroid sulfatase inhibitors: synthesis of a potent fluorinated second-generation agent, in vitro and in vivo activities, molecular modeling, and protein crystallography. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 2435-44	6.1	37
103	A substrate-induced switch in the reaction mechanism of a thermophilic esterase: kinetic evidences and structural basis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 6815-23	5.4	37

102	Inhibition of the R1 fragment of the cadmium-containing zeta-class carbonic anhydrase from the diatom <i>Thalassiosira weissflogii</i> with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 4745-8 ^{2.9}	35
101	Carbonic anhydrase inhibitors: binding of an antiglaucoma glycosyl-sulfanilamide derivative to human isoform II and its consequences for the drug design of enzyme inhibitors incorporating sugar moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1726-31	2.9 35
100	Discovery of 1,1SBiphenyl-4-sulfonamides as a New Class of Potent and Selective Carbonic Anhydrase XIV Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 8564-72	8.3 34
99	Cadmium-containing carbonic anhydrase CDCA1 in marine diatom <i>Thalassiosira weissflogii</i> . <i>Marine Drugs</i> , 2015 , 13, 1688-97	6 34
98	The first example of a significant active site conformational rearrangement in a carbonic anhydrase-inhibitor adduct: the carbonic anhydrase I-topiramate complex. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 3528-33	3.9 34
97	Molecular modeling study for the binding of zonisamide and topiramate to the human mitochondrial carbonic anhydrase isoform VA. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 4152-8	3.4 34
96	A Combined Crystallographic and Theoretical Study Explains the Capability of Carboxylic Acids to Adopt Multiple Binding Modes in the Active Site of Carbonic Anhydrases. <i>Chemistry - A European Journal</i> , 2016 , 22, 97-100	4.8 34
95	Kinetic and anion inhibition studies of a β -carbonic anhydrase (FbiCA 1) from the C4 plant <i>Flaveria bidentis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 1626-30	2.9 33
94	Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of 5-amino-1,3,4-thiadiazole-2-sulfonamide and 5-(4-amino-3-chloro-5-fluorophenylsulfonamido)-1,3,4-thiadiazole-2-sulfonamide to human isoform II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 6204-8	2.9 31
93	Probing Molecular Interactions between Human Carbonic Anhydrases (hCAs) and a Novel Class of Benzenesulfonamides. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4316-4326	8.3 30
92	Carbonic anhydrase inhibitors: the X-ray crystal structure of ethoxzolamide complexed to human isoform II reveals the importance of thr200 and gln92 for obtaining tight-binding inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2669-74	2.9 30
91	Metal ion substitution in the catalytic site greatly affects the binding of sulfhydryl-containing compounds to leucyl aminopeptidase. <i>Biochemistry</i> , 2006 , 45, 3226-34	3.2 30
90	Human carbonic anhydrase VII protects cells from oxidative damage. <i>Biological Chemistry</i> , 2013 , 394, 1343-8	4.5 29
89	Structural analysis of BldR from <i>Sulfolobus solfataricus</i> provides insights into the molecular basis of transcriptional activation in Archaea by MarR family proteins. <i>Journal of Molecular Biology</i> , 2009 , 388, 559-69	6.5 29
88	Recent advances in structural studies of the carbonic anhydrase family: the crystal structure of human CA IX and CA XIII. <i>Current Pharmaceutical Design</i> , 2010 , 16, 3246-54	3.3 27
87	Insights into the role of reactive sulfhydryl groups of Carbonic Anhydrase III and VII during oxidative damage. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017 , 32, 5-12	5.6 26
86	Functional and structural features of the oxyanion hole in a thermophilic esterase from <i>Alicyclobacillus acidocaldarius</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 1721-31	4.2 26
85	Insights on a new PDI-like family: structural and functional analysis of a protein disulfide oxidoreductase from the bacterium <i>Aquifex aeolicus</i> . <i>Journal of Molecular Biology</i> , 2006 , 356, 155-64	6.5 26

84	Carbonic anhydrase inhibitors: crystallographic and solution binding studies for the interaction of a boron-containing aromatic sulfamide with mammalian isoforms I-XV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 3601-5	2.9	25
83	Insights into the binding mode of sulphamates and sulphamides to hCA II: crystallographic studies and binding free energy calculations. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017 , 32, 1002-1011 ²⁵	5.6	25
82	Multiple catalytically active thioredoxin folds: a winning strategy for many functions. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 3797-814	10.3	24
81	The crystal structure of an EST2 mutant unveils structural insights on the H group of the carboxylesterase/lipase family. <i>Journal of Molecular Biology</i> , 2004 , 343, 137-46	6.5	24
80	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	5.6	24
79	Faox enzymes inhibited Maillard reaction development during storage both in protein glucose model system and low lactose UHT milk. <i>Amino Acids</i> , 2014 , 46, 279-88	3.5	23
78	C68 from the <i>Sulfolobus islandicus</i> plasmid-virus pSSVx is a novel member of the AbrB-like transcription factor family. <i>Biochemical Journal</i> , 2011 , 435, 157-66	3.8	22
77	Insights into the catalytic mechanism of the Bcp family: functional and structural analysis of Bcp1 from <i>Sulfolobus solfataricus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 76, 995-1006	4.2	22
76	The anticonvulsant sulfamide JNJ-26990990 and its S,S-dioxide analog strongly inhibit carbonic anhydrases: solution and X-ray crystallographic studies. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 4853-8	3.9	21
75	Exploring the catalytic mechanism of the first dimeric Bcp: Functional, structural and docking analyses of Bcp4 from <i>Sulfolobus solfataricus</i> . <i>Biochimie</i> , 2010 , 92, 1435-44	4.6	20
74	A novel member of the protein disulfide oxidoreductase family from <i>Aeropyrum pernix</i> K1: structure, function and electrostatics. <i>Journal of Molecular Biology</i> , 2006 , 362, 743-52	6.5	20
73	From natural to synthetic multisite thrombin inhibitors. <i>Biopolymers</i> , 1999 , 51, 19-39	2.2	20
72	The Crystal Structure of a hCA VII Variant Provides Insights into the Molecular Determinants Responsible for Its Catalytic Behavior. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	19
71	Carbonic anhydrase inhibitors. Comparison of aliphatic sulfamate/bis-sulfamate adducts with isozymes II and IX as a platform for designing tight-binding, more isoform-selective inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 5990-8	8.3	19
70	Protective Role of Carbonic Anhydrases III and VII in Cellular Defense Mechanisms upon Redox Unbalance. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 2018306	6.7	19
69	X-ray crystallographic and kinetic investigations of 6-sulfamoyl-saccharin as a carbonic anhydrase inhibitor. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 4064-9	3.9	18
68	Biochemical and structural characterisation of a protozoan beta-carbonic anhydrase from. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 1292-1299	5.6	18
67	Are Carbonic Anhydrases Suitable Targets to Fight Protozoan Parasitic Diseases?. <i>Current Medicinal Chemistry</i> , 2018 , 25, 5266-5278	4.3	18

66	Crystal structure of an S-formylglutathione hydrolase from <i>Pseudoalteromonas haloplanktis</i> TAC125. <i>Biopolymers</i> , 2010 , 93, 669-77	2.2	17
65	Biochemical characterization of the chloroplastic carbonic anhydrase from <i>Flaveria bidentis</i> (L.) "Kuntze". <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 500-4	5.6	16
64	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	6.8	16
63	Functionalized cyclodextrins: Synthesis and structural characterization of 6-deoxy-6-{4-[N-tert-butoxycarbonyl-2-aminoethyl]-imidazolyl}-cyclomaltoheptaose. <i>Supramolecular Chemistry</i> , 1996 , 7, 47-54	1.8	15
62	Inhibition of carbonic anhydrases by a substrate analog: benzyl carbamate directly coordinates the catalytic zinc ion mimicking bicarbonate binding. <i>Chemical Communications</i> , 2018 , 54, 10312-10315	5.8	14
61	Design, synthesis and characterization of a peptide able to bind proteins of the KCTD family: implications for KCTD-cullin 3 recognition. <i>Journal of Peptide Science</i> , 2011 , 17, 373-6	2.1	14
60	Human alpha-thrombin inhibition by the highly selective compounds N-ethoxycarbonyl-D-Phe-Pro-alpha-azaLys p-nitrophenyl ester and N-carbobenzoxy-Pro-alpha-azaLys p-nitrophenyl ester: a kinetic, thermodynamic and X-ray crystallographic study. <i>Journal of Molecular Biology</i> , 1997 , 269, 558-69	6.5	14
59	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	4.9	13
58	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	10.3	13
57	Biochemical and Structural Insights into Carbonic Anhydrase XII/Fab6A10 Complex. <i>Journal of Molecular Biology</i> , 2019 , 431, 4910-4921	6.5	13
56	Design of weakly basic thrombin inhibitors incorporating novel P1 binding functions: molecular and X-ray crystallographic studies. <i>Biochemistry</i> , 2003 , 42, 9013-21	3.2	13
55	Crystallization and preliminary X-ray diffraction studies of the carboxylesterase EST2 from <i>Alicyclobacillus acidocaldarius</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 1348-9		13
54	Catechols: a new class of carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2020 , 56, 13033-13036	5.8	13
53	Kinetic and X-ray crystallographic investigations of substituted 2-thio-6-oxo-1,6-dihydropyrimidine-benzenesulfonamides acting as carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 3643-8	3.4	12
52	Hydrophobic substituents of the phenylmethylsulfamide moiety can be used for the development of new selective carbonic anhydrase inhibitors. <i>BioMed Research International</i> , 2014 , 2014, 523210	3	12
51	Hirunorms are true hirudin mimetics. The crystal structure of human alpha-thrombin-hirunorm V complex. <i>Protein Science</i> , 1998 , 7, 243-53	6.3	12
50	The crystal structure of Afc-containing peptides. <i>Biopolymers</i> , 2000 , 53, 150-60	2.2	12
49	Probing the reactivity of nucleophile residues in human 2,3-diphosphoglycerate/deoxy-hemoglobin complex by aspecific chemical modifications. <i>FEBS Letters</i> , 1999 , 452, 190-4	3.8	12

48	Carbonic Anhydrases: An Overview 2015 , 3-13		11
47	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	5.6	11
46	X-Ray Crystallography of Carbonic Anhydrase Inhibitors and Its Importance in Drug Design 138-66		10
45	Carbonic anhydrase inhibitors: binding of indanesulfonamides to the human isoform II. <i>ChemMedChem</i> , 2008 , 3, 473-7	3.7	10
44	<i>Sulfolobus solfataricus</i> thiol redox puzzle: characterization of an atypical protein disulfide oxidoreductase. <i>Extremophiles</i> , 2014 , 18, 219-28	3	9
43	Hydroxylamine-O-sulfonamide is a versatile lead compound for the development of carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2015 , 51, 11519-22	5.8	9
42	Structural basis for the rational design of new anti-Brucella agents: the crystal structure of the C366S mutant of L-histidinol dehydrogenase from <i>Brucella suis</i> . <i>Biochimie</i> , 2014 , 97, 114-20	4.6	8
41	An integrated structural and computational study of the thermostability of two thioredoxin mutants from <i>Alicyclobacillus acidocaldarius</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 4285-9	3.5	8
40	Inhibition of the newly discovered β -carbonic anhydrase from the protozoan pathogen <i>Trichomonas vaginalis</i> with inorganic anions and small molecules. <i>Journal of Inorganic Biochemistry</i> , 2020 , 213, 111274	4.2	8
39	Exploration of the residues modulating the catalytic features of human carbonic anhydrase XIII by a site-specific mutagenesis approach. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019 , 34, 1506-1510	5.6	6
38	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. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 5185-5200	8.3	6
37	Thermal-stable carbonic anhydrases: a structural overview. <i>Sub-Cellular Biochemistry</i> , 2014 , 75, 387-404	5.5	6
36	The crystal structure of alpha-thrombin-hirunorm IV complex reveals a novel specificity site recognition mode. <i>Protein Science</i> , 1999 , 8, 91-5	6.3	6
35	Crystallization and preliminary X-ray diffraction studies of a protein disulfide oxidoreductase from <i>Aquifex aeolicus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 2076-7		6
34	Human Carbonic Anhydrases: Catalytic Properties, Structural Features, and Tissue Distribution 2015 , 17-30		5
33	Conformational studies of heterochiral peptides with diastereoisomeric residues: crystal and molecular structures of linear dipeptides derived from leucine, isoleucine, and allo-isoleucine. <i>Biopolymers</i> , 1995 , 36, 401-8	2.2	5
32	Post-translational modifications in tumor-associated carbonic anhydrases. <i>Amino Acids</i> , 2021 ,	3.5	5
31	L-Histidinol Dehydrogenase as a New Target for Old Diseases. <i>Current Topics in Medicinal Chemistry</i> , 2016 , 16, 2369-78	3	5

30	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	5.6	5
29	A Novel Inhibitor of Carbonic Anhydrases Prevents Hypoxia-Induced TNBC Cell Plasticity. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
28	Crystallization and preliminary X-ray diffraction studies of a D-lysine-based chiral PNA-DNA duplex. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 553-5		4
27	Crystallization and preliminary X-ray diffraction studies of a protein disulfide oxidoreductase from <i>Aeropyrum pernix</i> K1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 335-6		4
26	Comparative effects on blood pressure and regional hemodynamics of nicardipine and captopril. <i>Journal of Cardiovascular Pharmacology</i> , 1991 , 18, 807-12	3.1	4
25	Benzyl alcohol inhibits carbonic anhydrases by anchoring to the zinc coordinated water molecule. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 548, 217-221	3.4	4
24	Targeted treatment of anaerobic cancer. Patent evaluation of US2016279084 and US2017056350. <i>Expert Opinion on Therapeutic Patents</i> , 2019 , 29, 1-6	6.8	4
23	Zeta-carbonic anhydrases show CS hydrolase activity: A new metabolic carbon acquisition pathway in diatoms?. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 3427-3436	6.8	4
22	2-Mercaptobenzoxazoles: a class of carbonic anhydrase inhibitors with a novel binding mode to the enzyme active site. <i>Chemical Communications</i> , 2020 , 56, 8297-8300	5.8	3
21	Responses of serum insulin and blood pressure to cold and handgrip in obese patients. <i>International Journal of Cardiology</i> , 1991 , 32, 353-9	3.2	3
20	Inhibition of the β carbonic anhydrase from the protozoan pathogen with sulphonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 329-334	5.6	3
19	Carbonic Anhydrase II as Target for Drug Design 2015 , 51-90		2
18	Drug Design of Antiobesity Carbonic Anhydrase Inhibitors 241-254		2
17	Crystallization and preliminary X-ray diffraction studies of Aes acetyl-esterase from <i>Escherichia coli</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1846-8		2
16	Intrinsically disordered features of carbonic anhydrase IX proteoglycan-like domain. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 2059-2067	10.3	2
15	Inhibition of carbonic anhydrases IX/XII by SLC-0111 boosts cisplatin effects in hampering head and neck squamous carcinoma cell growth and invasion.. <i>Journal of Experimental and Clinical Cancer Research</i> , 2022 , 41, 122	12.8	2
14	Looking toward the Rim of the Active Site Cavity of Druggable Human Carbonic Anhydrase Isoforms. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 1000-1005	4.3	1
13	β Carbonic anhydrases 2019 , 19-54		1

12	Carbonic Anhydrase VII 2015 , 151-168		1
11	Cardiovascular response to adrenergic stimulation during treatment with tertatolol. A new non-cardioselective beta-blocking agent in primary hypertensive patients. <i>International Heart Journal</i> , 1991 , 32, 435-44		1
10	Interaction Studies between Carbonic Anhydrase and a Sulfonamide Inhibitor by Experimental and Theoretical Approaches. <i>ACS Medicinal Chemistry Letters</i> , 2022 , 13, 271-277	4.3	1
9	Sultam based Carbonic Anhydrase VII inhibitors for the management of neuropathic pain. <i>European Journal of Medicinal Chemistry</i> , 2022 , 227, 113956	6.8	1
8	The crystal structures of 2-(4-benzhydrylpiperazin-1-yl)-N-(4-sulfamoylphenyl)acetamide in complex with human carbonic anhydrase II and VII provide insights into selective CA inhibitor development. <i>New Journal of Chemistry</i> , 2021 , 45, 147-152	3.6	1
7	Design, synthesis and biochemical evaluation of novel carbonic anhydrase inhibitors triggered by structural knowledge on hCA VII. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 44, 116279	3.4	0
6	Carbonic anhydrases 2019 , 131-137		
5	Band Carbonic anhydrases 2019 , 139-148		
4	Advances in the Inhibitory and Structural Investigations on Carbonic Anhydrase Isozymes XIII and XV 273-283		
3	Beta-Carbonic Anhydrase 1 from <i>Trichomonas Vaginalis</i> as New Antiprotozoan Drug Target. <i>Topics in Medicinal Chemistry</i> , 2021 , 1	0.4	
2	Amine, amino acid and oligopeptide carbonic anhydrase activators 2014 , 142-156		
1	CDCA1 From <i>Thalassiosira weissflogii</i> as Representative Member of Class CAs: General Features and Biotechnological Applications 2015 , 351-359		