

CITATION REPORT

List of articles citing

Anticonvulsant/antiepileptic carbonic anhydrase inhibitors: a patent review

DOI: 10.1517/13543776.2013.782394

Expert Opinion on Therapeutic Patents, 2013, 23, 717-24.

Source: <https://exaly.com/paper-pdf/55816688/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
162	Anion inhibition studies of a β -carbonic anhydrase from <i>Clostridium perfringens</i> . 2013 , 23, 6706-10		42
161	Salen and tetrahydrosalen derivatives act as effective inhibitors of the tumor-associated carbonic anhydrase XII—a new scaffold for designing isoform-selective inhibitors. 2013 , 23, 6759-63		37
160	Effect of incorporating a thiophene tail in the scaffold of acetazolamide on the inhibition of human carbonic anhydrase isoforms I, II, IX and XII. 2013 , 23, 5646-9		17
159	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, 6674-80	3.4	12
158	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, 6929-36	3.4	18
157	Structural insight into activity enhancement and inhibition of H64A carbonic anhydrase II by imidazoles. 2014 , 1, 129-35		29
156	Sulfonamides and their isosters as carbonic anhydrase inhibitors. 2014 , 6, 1149-65		133
155	The effects of anti-epileptic drugs on human erythrocyte carbonic anhydrase I and II isozymes. <i>Archives of Physiology and Biochemistry</i> , 2014 , 120, 131-5	2.2	1
154	A class of 4-sulfamoylphenyl- β -aminoalkyl ethers with effective carbonic anhydrase inhibitory action and antiglaucoma effects. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9673-86	8.3	44
153	Inhibition studies of new ureido-substituted sulfonamides incorporating a GABA moiety against human carbonic anhydrase isoforms I-XIV. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 6768-75	3.4	21
152	Carbonic anhydrase inhibitors: synthesis and inhibition of the human carbonic anhydrase isoforms I, II, IX and XII with benzene sulfonamides incorporating 4- and 3-nitrophthalimide moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1586-95	3.4	31
151	Commentary on Kaushik et al.: Prostaglandin D2 is crucial for seizure suppression and postictal sleep. Novel evidence supporting a role for prostanoid receptors in seizure control. 2014 , 257, 157-61		7
150	6-Triazolyl-substituted sulfocoumarins are potent, selective inhibitors of the tumor-associated carbonic anhydrases IX and XII. 2014 , 24, 1256-60		52
149	Carbonic anhydrase inhibitors. Inhibition of human cytosolic isoforms I and II with (reduced) Schiff bases incorporating sulfonamide, carboxylate and carboxymethyl moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 2867-74	3.4	22
148	Structure-based screening for the discovery of new carbonic anhydrase VII inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2014 , 71, 105-11	6.8	41
147	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, 334-40	3.4	86
146	Inhibition of carbonic anhydrases from the extremophilic bacteria <i>Sulfurihydrogenibium yellostonense</i> (SspCA) and <i>S. azorense</i> (SazCA) with a new series of sulfonamides incorporating aroyldiazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-5(2H)-yl moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 141-7	3.4	42

145	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with novel Schiff bases: identification of selective inhibitors for the tumor-associated isoforms over the cytosolic ones. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 5883-90	3-4	11
144	Synthesis of 6-tetrazolyl-substituted sulfocoumarins acting as highly potent and selective inhibitors of the tumor-associated carbonic anhydrase isoforms IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1522-8	3-4	45
143	Substituted benzene sulfonamides incorporating 1,3,5-triazinyl moieties potently inhibit human carbonic anhydrases II, IX and XII. 2014 , 24, 1310-4		16
142	Synthesis and carbonic anhydrase I, II, IX and XII inhibition studies of 4-N,N-disubstituted sulfanilamides incorporating 4,4,4-trifluoro-3-oxo-but-1-enyl, phenacylthiourea and imidazol-2(3H)-one/thione moieties. 2014 , 24, 1776-9		21
141	Levetiracetam in the Treatment of Epileptic Seizures After Liver Transplantation. 2015 , 94, e1350		6
140	Carbonic Anhydrase II as Target for Drug Design. 2015 , 51-90		2
139	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	3-4	23
138	Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7751-64	3-4	16
137	X-ray crystallographic and kinetic investigations of 6-sulfamoyl-saccharin as a carbonic anhydrase inhibitor. 2015 , 13, 4064-9		18
136	Synthesis of 6-aryl-substituted sulfocoumarins and investigation of their carbonic anhydrase inhibitory action. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1430-6	3-4	33
135	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1828-40	3-4	103
134	Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. 2015 , 25, 3850-3		23
133	Inhibition studies of bacterial, fungal and protozoan class carbonic anhydrases with Schiff bases incorporating sulfonamide moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 4181-4187	3-4	24
132	Sulfonamide bearing pyrazolylpyrazolines as potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. 2015 , 25, 3208-12		33
131	The carbonic anhydrase from the malaria mosquito <i>Anopheles gambiae</i> is highly inhibited by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 2303-9	3-4	20
130	Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII. 2015 , 13, 6493-9		46
129	Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms I-XIV. 2015 , 13, 6453-7		12
128	Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. 2015 , 25, 2377-81		30

127	Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 4039-45	8.3	28
126	Inhibition of mammalian carbonic anhydrase isoforms I-XIV with a series of phenolic acid esters. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7181-8	3.4	24
125	New natural product carbonic anhydrase inhibitors incorporating phenol moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7219-25	3.4	31
124	Synthesis, biological evaluation, and docking studies of novel thiourea derivatives of bisindolylmethane as carbonic anhydrase II inhibitor. 2015 , 62, 83-93		45
123	Anion and sulfonamide inhibition studies of an α -carbonic anhydrase from the Antarctic hemoglobinless fish <i>Chionodraco hamatus</i> . 2015 , 25, 5485-9		1
122	Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against β - β and β -class enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 6794-8	3.4	26
121	GABAergic Interneurons in Severe Early Epileptic Encephalopathy with a Suppression-Burst Pattern: A Continuum of Pathology. 2016 ,		
120	Mutations in the Na(+)/citrate cotransporter NaCT (SLC13A5) in pediatric patients with epilepsy and developmental delay. 2016 , 22,		35
119	Phenols and Polyphenols as Carbonic Anhydrase Inhibitors. <i>Molecules</i> , 2016 , 21,	4.8	49
118	Emerging roles of Na ⁺ /H ⁺ exchangers in epilepsy and developmental brain disorders. 2016 , 138-140, 19-35		39
117	Topiramate induces acute intracellular acidification in glioblastoma. 2016 , 130, 465-472		32
116	Carbonic Anhydrase and Epilepsy. 2016 , 37-51		
115	Synthesis of novel bisindolylmethanes: New carbonic anhydrase II inhibitors, docking, and 3D pharmacophore studies. 2016 , 68, 90-104		18
114	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	8.3	73
113	In vitro inhibition effects on erythrocyte carbonic anhydrase I and II and structure-activity relationships of cumarylthiazole derivatives. 2016 , 42, 506-511		12
112	Monothiocarbamates Strongly Inhibit Carbonic Anhydrases In Vitro and Possess Intraocular Pressure Lowering Activity in an Animal Model of Glaucoma. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 5857-67	8.3	47
111	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
110	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	3.4	9

109	Sulfonamide inhibition studies of the β -carbonic anhydrase from the gammaproteobacterium <i>Thiomicrospira crunogena</i> XCL-2, TcruCA. 2016 , 26, 401-405		1
108	Synthesis of 4-sulfamoylphenyl-benzylamine derivatives with inhibitory activity against human carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 982-8	3-4	26
107	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, 721-32	8.3	32
106	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, 1402-7	3-4	9
105	Sulfamide derivatives with selective carbonic anhydrase VII inhibitory action. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 894-901	3-4	18
104	Acetazolamide in vestibular migraine prophylaxis: a retrospective study. 2016 , 273, 2947-51		26
103	Inhibition of carbonic anhydrase isoforms I, II, IV, VII and XII with carboxylates and sulfonamides incorporating phthalimide/phthalic anhydride scaffolds. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 20-5	3-4	31
102	Synthesis, antioxidant and carbonic anhydrase I and II inhibitory activities of novel sulphonamide-substituted coumarylthiazole derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 991-8	5.6	15
101	Coumarin or benzoxazinone based novel carbonic anhydrase inhibitors: synthesis, molecular docking and anticonvulsant studies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 760-72	5.6	27
100	Synthesis and biological evaluation of cyclic imides incorporating benzenesulfonamide moieties as carbonic anhydrase I, II, IV and IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 1666-1671	3-4	27
99	Discovery of Benzenesulfonamides with Potent Human Carbonic Anhydrase Inhibitory and Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Assessment. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2456-2469	8.3	38
98	Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 677-683	3-4	29
97	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	3-4	8
96	Synthesis and carbonic anhydrase inhibition of polycyclic imides incorporating N-benzenesulfonamide moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 5373-5379	3-4	21
95	Outside the box: Medications worth considering when traditional antiepileptic drugs have failed. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2017 , 50, 173-185	3.2	9
94	Discovery of 4-sulfamoyl-phenyl-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	3-4	13
93	"To Be or Not to Be" Protonated: Atomic Details of Human Carbonic Anhydrase-Clinical Drug Complexes by Neutron Crystallography and Simulation. 2018 , 26, 383-390.e3		32
92	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	8.3	18

91	The effects of ex vivo ozone treatment on human erythrocyte carbonic anhydrase enzyme. <i>Archives of Physiology and Biochemistry</i> , 2018 , 124, 171-174	2.2	1
90	Thermodynamic, kinetic, and structural parameterization of human carbonic anhydrase interactions toward enhanced inhibitor design. 2018 , 51, e10		24
89	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. 2018 , 27, 963-970		139
88	Corilagin Reduces the Frequency of Seizures and Improves Cognitive Function in a Rat Model of Chronic Epilepsy. 2018 , 24, 2832-2840		4
87	Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. <i>Expert Opinion on Therapeutic Patents</i> , 2018 , 28, 709-712	6.8	100
86	Applications of carbonic anhydrases inhibitors in renal and central nervous system diseases. <i>Expert Opinion on Therapeutic Patents</i> , 2018 , 28, 713-721	6.8	81
85	Activation of α and β carbonic anhydrases from pathogenic bacteria with tripeptides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 945-950	5.6	28
84	Biomedical applications of prokaryotic carbonic anhydrases. <i>Expert Opinion on Therapeutic Patents</i> , 2018 , 28, 745-754	6.8	67
83	Potent and Selective Carboxylic Acid Inhibitors of Tumor-Associated Carbonic Anhydrases IX and XII. <i>Molecules</i> , 2017 , 23,	4.8	8
82	Recent Advances in Electrochemical Biosensors Based on Enzyme Inhibition for Clinical and Pharmaceutical Applications. 2018 , 18,		78
81	Revisiting the Therapeutic Potential of Bothrops jararaca Venom: Screening for Novel Activities Using Connectivity Mapping. 2018 , 10,		4
80	1H-indazole molecules reduced the activity of human erythrocytes carbonic anhydrase I and II isoenzymes. 2018 , 32, e22194		5
79	Discovery of potent anti-convulsant carbonic anhydrase inhibitors: Design, synthesis, in vitro and in vivo appraisal. <i>European Journal of Medicinal Chemistry</i> , 2018 , 156, 430-443	6.8	13
78	Structure elucidation, DNA binding, DFT, molecular docking and cytotoxic activity studies on novel single crystal (E)-1-(2-fluorobenzylidene)thiosemicarbazide. 2018 , 22, 1003-1013		10
77	Carbonic anhydrase inhibition selectively prevents amyloid β neurovascular mitochondrial toxicity. 2018 , 17, e12787		34
76	Synthesis and biological evaluation of novel 3-(quinolin-4-ylamino)benzenesulfonamides AQ3 as carbonic anhydrase isoforms I and II inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019 , 34, 1457-1464	5.6	20
75	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	6.2	96
74	Biotechnologic applications of carbonic anhydrases from extremophiles. 2019 , 495-514		

73	New anthranilic acid-incorporating N-benzenesulfonamidophthalimides as potent inhibitors of carbonic anhydrases I, II, IX, and XII: Synthesis, in vitro testing, and in silico assessment. <i>European Journal of Medicinal Chemistry</i> , 2019 , 181, 111573	6.8	11
72	Mechanisms of action of carbonic anhydrase inhibitors. 2019 , 187-222		1
71	Carbonic anhydrases. 2019 , 3-16		11
70	Hydrogen Ion Dynamics of Cancer and a New Molecular, Biochemical and Metabolic Approach to the Etiopathogenesis and Treatment of Brain Malignancies. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
69	Off-Label Use of Bumetanide for Brain Disorders: An Overview. 2019 , 13, 310		51
68	Thermostability enhancement of the β -carbonic anhydrase from <i>Sulfurihydrogenibium yellowstonense</i> by using the anchoring-and-self-labelling-protein-tag system (ASL). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019 , 34, 946-954	5.6	8
67	Role of the Angiotensin Pathway and its Target Therapy in Epilepsy Management. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	21
66	Synthesis of saccharin-glycoconjugates targeting carbonic anhydrase using a one-pot cyclization/deprotection strategy. 2019 , 476, 65-70		6
65	Sulfur, selenium and tellurium containing amines act as effective carbonic anhydrase activators. 2019 , 87, 516-522		29
64	Microwave-assisted synthesis of 1-substituted-1H-benzimidazolium salts: Non-competitive inhibition of human carbonic anhydrase I and II. <i>Archiv Der Pharmazie</i> , 2019 , 352, e1800325	4.3	4
63	Light-enhanced expression of Carbonic Anhydrase 4-like supports shell formation in the fluted giant clam <i>Tridacna squamosa</i> . 2019 , 683, 101-112		22
62	Seizure initiation in infantile spasms vs. focal seizures: proposed common cellular mechanisms. <i>Reviews in the Neurosciences</i> , 2020 , 31, 181-200	4.7	6
61	Effects of New NSAID-CAI Hybrid Compounds in Inflammation and Lung Fibrosis. <i>Biomolecules</i> , 2020 , 10,	5.9	6
60	Molecular docking studies, anti-Alzheimer disease, antidiabetic, and anti-acute myeloid leukemia potentials of narcissoside. <i>Archives of Physiology and Biochemistry</i> , 2020 , 1-11	2.2	1
59	Effect of 4-Fluoro-N-(4-Sulfamoylbenzyl) Benzene Sulfonamide on Acquisition and Expression of Nicotine-Induced Behavioral Sensitization and Striatal Adenosine Levels. <i>Drug Design, Development and Therapy</i> , 2020 , 14, 3777-3786	4.4	1
58	Synthesis and evaluation of 2,4,5-trisubstitutedthiazoles as carbonic anhydrase-III inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 1483-1490	5.6	3
57	Insights into Potential Targets for Therapeutic Intervention in Epilepsy. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
56	Coumarin carbonic anhydrase inhibitors from natural sources. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 1462-1470	5.6	30

55	Analgesic and Antiallodynic Effects of 4-Fluoro-N-(4-Sulfamoylbenzyl) Benzene Sulfonamide in a Murine Model of Pain. <i>Drug Design, Development and Therapy</i> , 2020 , 14, 4511-4518	4.4	1
54	Aberrant energy metabolism and redox balance in seizure onset zones of epileptic patients. <i>Journal of Proteomics</i> , 2020 , 223, 103812	3.9	2
53	Carbonic anhydrase from extremophiles and their potential use in biotechnological applications. 2020 , 295-306		1
52	An update on drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2020 , 16, 297-307	5.5	22
51	Exploring the multiple binding modes of inhibitors to carbonic anhydrases for novel drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2020 , 15, 671-686	6.2	61
50	Synthesis of N-substituted sulfonamides containing perhalopyridine moiety as bio-active candidates. <i>Journal of Fluorine Chemistry</i> , 2020 , 233, 109507	2.1	4
49	Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation. <i>Chemistry and Biodiversity</i> , 2020 , 17, e2000258	2.5	
48	An Overview of Coumarin as a Versatile and Readily Accessible Scaffold with Broad-Ranging Biological Activities. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	66
47	The Expression of Carbonic Anhydrases II, IX and XII in Brain Tumors. <i>Cancers</i> , 2020 , 12,	6.6	11
46	Evaluation of zonisamide for the treatment of focal epilepsy: a review of pharmacokinetics, clinical efficacy and adverse effects. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2020 , 16, 169-177	5.5	3
45	Bioorganometallic derivatives of 4-hydrazino-benzenesulphonamide as carbonic anhydrase inhibitors: synthesis, characterisation and biological evaluation. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 622-628	5.6	6
44	Coumarins from as inhibitors of the tumour-associated carbonic anhydrases IX and XII: isolation, biological studies and in silico evaluation. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 539-548	5.6	14
43	New thiopyrimidine-benzenesulfonamide conjugates as selective carbonic anhydrase II inhibitors: synthesis, in vitro biological evaluation, and molecular docking studies. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115329	3.4	8
42	Transport Metabolons and Acid/Base Balance in Tumor Cells. <i>Cancers</i> , 2020 , 12,	6.6	11
41	Characterization of Carbonic Anhydrase In Vivo Using Magnetic Resonance Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
40	An Unbiased Drug Screen for Seizure Suppressors in Duplication 15q Syndrome Reveals 5-HT and Dopamine Pathway Activation as Potential Therapies. <i>Biological Psychiatry</i> , 2020 , 88, 698-709	7.9	3
39	Benzylidene and thiourea derivatives as new classes of carbonic anhydrase inhibitors: an in vitro and molecular docking study. <i>Medicinal Chemistry Research</i> , 2021 , 30, 552-563	2.2	2
38	A Story on Carbon Dioxide and Its Hydration. 2021 , 115-131		

37	Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 3100-3114	8.3	10
36	Proton Transport in Cancer Cells: The Role of Carbonic Anhydrases. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	8
35	Development of novel benzofuran-based SLC-0111 analogs as selective cancer-associated carbonic anhydrase isoform IX inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021 , 216, 113283	6.8	20
34	Role of Carbonic Anhydrase in Cerebral Ischemia and Carbonic Anhydrase Inhibitors as Putative Protective Agents. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
33	Emerging role of carbonic anhydrase inhibitors. <i>Clinical Science</i> , 2021 , 135, 1233-1249	6.5	41
32	Inhibitors of CA IX Enzyme Based on Polyhedral Boron Compounds. <i>ChemBioChem</i> , 2021 , 22, 2741-2761	3.8	11
31	A novel class for carbonic anhydrases inhibitors and evaluation of their non-zinc binding. <i>Archiv Der Pharmazie</i> , 2021 , 354, e2100188	4.3	2
30	Synthesis of and molecular docking studies of azomethine- tethered sulfonamides as carbonic anhydrase II & 15-lipoxygenase inhibitors. <i>Journal of Molecular Structure</i> , 2021 , 1243, 130821	3.4	3
29	Reconsidering anion inhibitors in the general context of drug design studies of modulators of activity of the classical enzyme carbonic anhydrase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 561-580	5.6	51
28	Carbonic Anhydrases: An Overview. 2015 , 3-13		11
27	Carbonic anhydrase 2-like in the giant clam, : characterization, localization, response to light, and possible role in the transport of inorganic carbon from the host to its symbionts. <i>Physiological Reports</i> , 2017 , 5, e13494	2.6	31
26	Inhibition Effect of Eosin Y on Carbonic Anhydrase (CA) I and II Isoenzymes Purified from Human Erythrocytes. <i>Journal of the Institute of Science and Technology</i> , 338-344	0	2
25	[How do antiepileptic drugs work?]. <i>Tidsskrift for Den Norske Laegeforening</i> , 2014 , 134, 42-6	3.5	2
24	Carbonic Anhydrase Inhibitors and Epilepsy: State of the Art and Future Perspectives. <i>Molecules</i> , 2021 , 26,	4.8	7
23	Development of Novel Quinoline-Based Sulfonamides as Selective Cancer-Associated Carbonic Anhydrase Isoform IX Inhibitors. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	10
22	İnsan karbonik anhidraz I,II izoenzim aktiviteleri üzerine bazı tiyocrown eterlerin etkisi. <i>Balikesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi</i> , 192-199	0.5	2
21	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> , 253-260	0.5	
20	Targeting Carbonic Anhydrase Isozymes in the Treatment of Neurological Disorders. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2021 , 103-120		

19	An unbiased drug screen for seizure suppressors in Dup15q syndrome reveals 5HT1A and dopamine pathway activation as potential therapies.		
18	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> , 320-327	0	
17	C Vitamininin Karbonik Anhidraz Enzimleri (hCA I ve II) Üzerine Etkisi. <i>Afyon Kocatepe University Journal of Sciences and Engineering</i> , 2021 , 21, 1038-1045	0.1	
16	The Carbonic Anhydrases in Health and Disease. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2021 , 1-12		
15	2-(2-Hydroxyethyl)piperazine derivatives as potent human carbonic anhydrase inhibitors: Synthesis, enzyme inhibition, computational studies and antiglaucoma activity.. <i>European Journal of Medicinal Chemistry</i> , 2022 , 228, 114026	6.8	
14	2-Aminobenzoxazole-appended coumarins as potent and selective inhibitors of tumour-associated carbonic anhydrases.. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022 , 37, 168-177	5.6	3
13	Some phenolic natural compounds as carbonic anhydrase inhibitors: An in vitro and in silico study.. <i>Archiv Der Pharmazie</i> , 2022 , e2100476	4.3	2
12	Synthesis, Computational Study, and Anticonvulsant Activity of Newly Synthesized 2-aminobenzothiazole Derivatives. <i>Letters in Drug Design and Discovery</i> , 2022 , 19,	0.8	
11	Molecular mechanisms of topiramate and its clinical value in epilepsy.. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2022 , 98, 51-56	3.2	0
10	Antiepileptic Drugs and Their Dual Mechanism of Action on Carbonic Anhydrase.. <i>Journal of Clinical Medicine</i> , 2022 , 11,	5.1	0
9	Synthesis and Characterization of Novel Hybrid Sulfonamide Molecules with Benzothiazole Scaffold. <i>Journal of the Institute of Science and Technology</i> , 899-907	0	0
8	Sulfonamide-phosphonate hybrids as new carbonic anhydrase inhibitors: In vitro enzymatic inhibition, molecular modeling, and ADMET prediction. 2023 , 1271, 134114		1
7	Identification of New Carbonic Anhydrase VII Inhibitors by Structure-Based Virtual Screening.		0
6	Involvement of dopamine D ₂ -like receptors in the antiepileptogenic effects of deep brain stimulation during kindling in rats.		0
5	Synthesis, Biological Evaluation, and Molecular Dynamics of Carbothioamides Derivatives as Carbonic Anhydrase II and 15-Lipoxygenase Inhibitors. 2022 , 27, 8723		0
4	Coumarins as Carbonic Anhydrase Inhibitors. 2022 , 298-329		0
3	Evaluation of the anti-inflammatory, antioxidant, and cytotoxic potential of Cardamine amara L. (Brassicaceae): A comprehensive biochemical, toxicological, and in silico computational study. 10,		0
2	A novel series of thiosemicarbazone hybrid scaffolds: Design, synthesis, DFT studies, metabolic enzyme inhibition properties, and molecular docking calculations. 2023 , 1280, 135077		0

- 1 3D-QSAR, E-pharmacophore and molecular docking to explore substituted sulfonamides as carbonic anhydrase inhibitors in epilepsy. **2022**, 5521-5528

o