

# Carbonic anhydrases: novel therapeutic applications for

Nature Reviews Drug Discovery

7, 168-181

DOI: [10.1038/nrd2467](https://doi.org/10.1038/nrd2467)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Modification of carbonic anhydrase II with acetaldehyde, the first metabolite of ethanol, leads to decreased enzyme activity. <i>BMC Biochemistry</i> , 2008, 9, 32.	4.4	17
2	Carbonic Anhydrase Inhibitors: Design of Membrane-Impermeant Copper(II) Complexes of DTPA, DOTA, and TETA-Tailed Sulfonamides Targeting the Tumor-Associated Transmembrane Isoform IX. <i>ChemMedChem</i> , 2008, 3, 1780-1788.	1.6	28
3	Carbonic anhydrase inhibitors: possible anticancer drugs with a novel mechanism of action. <i>Drug Development Research</i> , 2008, 69, 297-303.	1.4	13
4	Elimination Mechanisms in the Aminolysis of Sulfamate Esters of the Type NH <sub>2</sub> SO <sub>2</sub> OC <sub>6</sub> H <sub>4</sub> X - Models of Enzyme Inhibitors. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 4200-4205.	1.2	16
5	Carbonic anhydrase inhibitors: Inhibition of mammalian isoforms I-XIV with a series of substituted phenols including paracetamol and salicylic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7424-7428.	1.4	120
6	Carbonic anhydrase activators: Kinetic and X-ray crystallographic study for the interaction of d- and l-tryptophan with the mammalian isoforms I-XIV. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8373-8378.	1.4	65
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1148	Synthesis and evaluation of sulfonamide-bearing thiazole as carbonic anhydrase isoforms hCA I and hCA II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1300-1305.	2.5	24
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1150	Sulfonamide inhibition studies of the $\alpha$ -carbonic anhydrase from the gammaproteobacterium <i>Thiomicrospira crunogena</i> XCL-2, TcruCA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 401-405.	1.0	2
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1153	Design and development of sulfonylurea derivatives as zinc metalloenzyme modulators. <i>RSC Advances</i> , 2016, 6, 8923-8929.	1.7	9
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1157	Pyridazinone substituted benzenesulfonamides as potent carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1337-1341.	1.0	37
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1187	Kinetic and docking studies of cytosolic/tumor-associated carbonic anhydrase isozymes I, II and IX with some hydroxylic compounds. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1214-1220.	2.5	4

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1194	Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 462-473.	2.9	75
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1207	The synthesis of ( <i>Z</i> )-4-oxo-4-(arylamino)but-2-enoic acids derivatives and determination of their inhibition properties against human carbonic anhydrase I and II isoenzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 939-945.	2.5	18
1208	Liver X receptors regulate cerebrospinal fluid production. <i>Molecular Psychiatry</i> , 2016, 21, 844-856.	4.1	14
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1219	The effects of some avermectins on bovine carbonic anhydrase enzyme. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 773-778.	2.5	47
1220	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, 760-772.	2.5	33
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1222	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
1223	Synthesis and inhibition potency of novel ureido benzenesulfonamides incorporating GABA as tumor-associated carbonic anhydrase IX and XII inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 205-211.	2.5	15

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1225	Virtual screening, molecular dynamics, and binding free energy calculations on human carbonic anhydrase IX catalytic domain for deciphering potential leads. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 2155-2168.	2.0	27
1226	Carbonic anhydrase inhibitory properties of some uracil derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 74-77.	2.5	36
1227	Supported ionic liquid membranes immobilized with carbonic anhydrases for CO <sub>2</sub> transport at high temperatures. <i>Journal of Membrane Science</i> , 2017, 528, 225-230.	4.1	64
1228	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.	1.4	33
1229	Carbonic anhydrases from <i>Trypanosoma</i> and <i>Leishmania</i> as anti-protozoan drug targets. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1543-1555.	1.4	52
1230	Differential expression and prognostic significance of GLUT1 according to histologic type of non-small-cell lung cancer and its association with volume-dependent parameters. <i>Lung Cancer</i> , 2017, 104, 31-37.	0.9	54
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1389	Designing, synthesis and bioactivities of 4-[3-(4-hydroxyphenyl)-5-aryl-4,5-dihydro-pyrazol-1-yl]benzenesulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 169-175.	2.5	38
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1394	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
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1404	Comparison of the Sulfonamide Inhibition Profiles of the $\hat{1}^2$ - and $\hat{1}^3$ -Carbonic Anhydrases from the Pathogenic Bacterium <i>Burkholderia pseudomallei</i> . <i>Molecules</i> , 2017, 22, 421.	1.7	29

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1421	S-arylation of 2-mercaptobenzazoles: a comprehensive review. <i>Journal of Sulfur Chemistry</i> , 2018, 39, 443-463.	1.0	28
1422	Carbonic anhydrase activators. <i>Future Medicinal Chemistry</i> , 2018, 10, 561-573.	1.1	127
1423	Synthesis of N-phenyl-N-hydroxyureas and investigation of their inhibitory activities on human carbonic anhydrases. <i>Bioorganic Chemistry</i> , 2018, 78, 1-6.	2.0	9

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1425	Activation studies of the $\hat{1}$ - and $\hat{2}$ -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
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1428	Development of selective QSAR models and molecular docking study for inhibitory activity of sulfonamide derivatives against carbonic anhydrase isoforms II and IX. <i>Journal of Molecular Structure</i> , 2018, 1163, 270-279.	1.8	11
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1430	Implication of sulfonylurea derivatives as prospective inhibitors of human carbonic anhydrase II. <i>International Journal of Biological Macromolecules</i> , 2018, 115, 961-969.	3.6	16
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1437	2-Benzylpiperazine: A new scaffold for potent human carbonic anhydrase inhibitors. Synthesis, enzyme inhibition, enantioselectivity, computational and crystallographic studies and <i>in vivo</i> activity for a new class of intraocular pressure lowering agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 151, 363-375.	2.6	29
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1444	Synthesis and biological investigation of new carbonic anhydrase IX (CAIX) inhibitors. <i>Chemico-Biological Interactions</i> , 2018, 284, 12-23.	1.7	21
1445	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
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1455	Natural Products Containing a Nitrogen-Sulfur Bond. <i>Journal of Natural Products</i> , 2018, 81, 423-446.	1.5	109
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1457	Investigation of piperazines as human carbonic anhydrase I, II, IV and VII activators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 303-308.	2.5	7
1458	Inhibition studies of <i>Brucella suis</i> $\beta$ -carbonic anhydrases with a series of 4-substituted pyridine-3-sulphonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 255-259.	2.5	9
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1461	Synthesis, Biological Activity and Structureâ€Activity Relationship of Novel Diphenylurea Derivatives Containing Tetrahydroquinoline as Carbonic Anhydrase I and II Inhibitors. <i>ChemistrySelect</i> , 2018, 3, 529-534.	0.7	11
1462	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
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1471	Antileishmanial activity of sulphonamide nanoemulsions targeting the Î <sup>2</sup> -carbonic anhydrase from <i>Leishmania</i> species. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 850-857.	2.5	38
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1474	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
1475	Synthesis, characterization, thermal and biological evaluation of Cu (II), Co (II) and Ni (II) complexes of azo dye ligand containing sulfamethazole moiety. <i>Journal of Molecular Structure</i> , 2018, 1165, 28-36.	1.8	53
1476	Synthesis and Applications of Imidazoquinolines: A Review. <i>Organic Preparations and Procedures International</i> , 2018, 50, 109-244.	0.6	5
1477	<i>S</i> - <i>Cis</i> Diene Conformation: A New Bathochromic Shift Strategy for Near-Infrared Fluorescence Switchable Dye and the Imaging Applications. <i>Journal of the American Chemical Society</i> , 2018, 140, 5224-5234.	6.6	51

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1479	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
1480	The synthesis of axially disubstituted silicon phthalocyanines, their quaternized derivatives and first inhibitory effect on human cytosolic carbonic anhydrase isozymes hCA I and II. <i>RSC Advances</i> , 2018, 8, 10172-10178.	1.7	34
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1482	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
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1486	Sulfonamide carbonic anhydrase inhibitors: Zinc coordination and tail effects influence inhibitory efficacy and selectivity for different isoforms. <i>Inorganica Chimica Acta</i> , 2018, 470, 128-132.	1.2	11
1487	Genetic ablation of carbonic anhydrase IX disrupts gastric barrier function via claudin-18 downregulation and acid backflux. <i>Acta Physiologica</i> , 2018, 222, e12923.	1.8	13
1488	Synthesis, monoamine oxidase inhibition activity and molecular docking studies of novel 4-hydroxy-N <sup>2</sup> -[benzylidene or 1-phenylethylidene]-2-H/methyl/benzyl-1,2-benzothiazine-3-carbohydrazide 1,1-dioxides. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1373-1386.	2.6	26
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1491	Comparing intestinal versus diffuse gastric cancer using a PEF-oriented proteomic pipeline. <i>Journal of Proteomics</i> , 2018, 171, 63-72.	1.2	11
1492	Composite analysis of immunological and metabolic markers defines novel subtypes of triple negative breast cancer. <i>Modern Pathology</i> , 2018, 31, 288-298.	2.9	38
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1494	New Strategy for in Vitro Determination of Carbonic Anhydrase Activity from Analysis of Oxygen-18 Isotopes of CO <sub>2</sub> . <i>Analytical Chemistry</i> , 2018, 90, 1384-1387.	3.2	3
1495	Nanoemulsions of sulfonamide carbonic anhydrase inhibitors strongly inhibit the growth of <i>Trypanosoma cruzi</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 139-146.	2.5	52

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1497	First evaluation of organotellurium derivatives as carbonic anhydrase I, II, IV, VII and IX inhibitors. <i>Bioorganic Chemistry</i> , 2018, 76, 268-272.	2.0	41
1498	Novel 2-(2-arylmethylthio-4-chloro-5-methylbenzenesulfonyl)-1-(1,3,5-triazin-2-ylamino)guanidine derivatives: Inhibition of human carbonic anhydrase cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII, anticancer activity, and molecular modeling studies. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1931-1941.	2.6	26
1499	Sulphonamide inhibition studies of the $\hat{\Gamma}^2$ -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
1500	Comparison of the amine/amino acid activation profiles of the $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -carbonic anhydrases from the pathogenic bacterium <i>Burkholderia pseudomallei</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 25-30.	2.5	15
1501	Synthesis, molecular modeling, and biological evaluation of 4- $\{5$ -arylamino-2-(thiophen-2-yl)-4,5-dihydro-1H-pyrazol-1-yl $\}$ benzenesulfonamides toward acetylcholinesterase, carbonic anhydrase I and II enzymes. <i>Chemical Biology and Drug Design</i> , 2018, 91, 854-866.	1.5	116
1502	Carbonic anhydrase inhibition of Schiff base derivative of imino-methyl-naphthalen-2-ol: Synthesis, structure elucidation, molecular docking, dynamic simulation and density functional theory calculations. <i>Journal of Molecular Structure</i> , 2018, 1156, 193-200.	1.8	20
1503	Synthesis of some novel pyridine compounds containing bis-1,2,4-triazole/thiosemicarbazide moiety and investigation of their antioxidant properties, carbonic anhydrase, and acetylcholinesterase enzymes inhibition profiles. <i>Journal of Biochemical and Molecular Toxicology</i> , 2018, 32, e22006.	1.4	81
1504	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
1505	Carbonic anhydrase II autoantibodies and oxidative status in long-term follow-up of patients with Crimean-Congo haemorrhagic fever. <i>Archives of Physiology and Biochemistry</i> , 2018, 124, 69-74.	1.0	1
1507	Sulfonamide Inhibition Studies of a New $\hat{\Gamma}^2$ -Carbonic Anhydrase from the Pathogenic Protozoan <i>Entamoeba histolytica</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 3946.	1.8	9
1508	Thermodynamic, kinetic, and structural parameterization of human carbonic anhydrase interactions toward enhanced inhibitor design. <i>Quarterly Reviews of Biophysics</i> , 2018, 51, e10.	2.4	35
1509	Bioorthogonal release of sulfonamides and mutually orthogonal liberation of two drugs. <i>Chemical Communications</i> , 2018, 54, 14089-14092.	2.2	42
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1511	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
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1516	Understanding the Role and Mechanism of Carbonic Anhydrase V in Obesity and its Therapeutic Implications. <i>Current Protein and Peptide Science</i> , 2018, 19, 909-923.	0.7	14
1517	Cloning, Characterization and Anion Inhibition Studies of a $\beta^2$ -Carbonic Anhydrase from the Pathogenic Protozoan <i>Entamoeba histolytica</i> . <i>Molecules</i> , 2018, 23, 3112.	1.7	9
1518	Carbonic anhydrase inhibition with a series of novel benzenesulfonamide-triazole conjugates. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1565-1574.	2.5	27
1519	Discovering a new class of antifungal agents that selectively inhibits microbial carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1537-1544.	2.5	15
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1523	Crystallography and Its Impact on Carbonic Anhydrase Research. <i>International Journal of Medicinal Chemistry</i> , 2018, 2018, 1-21.	2.2	37
1524	Steroids interfere with human carbonic anhydrase activity by using alternative binding mechanisms. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1453-1459.	2.5	69
1525	Discovery of novel 1,3-diaryltriazene sulfonamides as carbonic anhydrase I, II, VII, and IX inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1575-1580.	2.5	41
1526	Synthesis, carbonic anhydrase inhibitory activity and antioxidant activity of some 1,3,4-oxazine derivatives. <i>Drug Development Research</i> , 2018, 79, 352-361.	1.4	10
1527	European Headache Federation guideline on idiopathic intracranial hypertension. <i>Journal of Headache and Pain</i> , 2018, 19, 93.	2.5	111
1528	Rethinking the Combination of Proton Exchanger Inhibitors in Cancer Therapy. <i>Metabolites</i> , 2018, 8, 2.	1.3	51
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1531	Famotidine, an Antiulcer Agent, Strongly Inhibits <i>Helicobacter pylori</i> and Human Carbonic Anhydrases. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1035-1038.	1.3	44
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1534	Carbonic Anhydrase IX-Targeted Near-Infrared Dye for Fluorescence Imaging of Hypoxic Tumors. <i>Bioconjugate Chemistry</i> , 2018, 29, 3320-3331.	1.8	20
1535	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
1536	Tuning the Dual Inhibition of Carbonic Anhydrase and Cyclooxygenase by Dihydrothiazole Benzensulfonamides. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1045-1050.	1.3	18
1537	Dithiocarbamates: Efficient metallo- $\beta$ -lactamase inhibitors with good antibacterial activity when combined with meropenem. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3436-3440.	1.0	23
1538	Protective Role of Carbonic Anhydrases III and VII in Cellular Defense Mechanisms upon Redox Unbalance. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-9.	1.9	32
1539	Design, molecular docking, synthesis, characterization, biological activity evaluation (against MES) and LD50 studies of novel sulphonamide derivatives. <i>Frontiers in Biology</i> , 2018, 13, 425-451.	0.7	4
1540	Molecular Cloning and Characterization of Carbonic Anhydrase XII from Pufferfish (Takifugu). <i>Journal of Molecular Biology</i> , 2018, 567, 1-10.	1.8	10
1541	Has Molecular Docking Ever Brought us a Medicine? , 0, , .		22
1542	Nominal carbonic anhydrase activity minimizes airway-surface liquid pH changes during breathing. <i>Physiological Reports</i> , 2018, 6, e13569.	0.7	10
1543	1-[(4-Chlorophenyl) carbonyl-4-(aryl) thiosemicarbazide derivatives as potent urease inhibitors: Synthesis, in vitro and in silico studies. <i>Bioorganic Chemistry</i> , 2018, 79, 363-371.	2.0	19
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1545	Impact of structural alterations on the radiopharmacological profile of $^{18}\text{F}$ -labeled pyrimidines as cyclooxygenase-2 (COX-2) imaging agents. <i>Nuclear Medicine and Biology</i> , 2018, 62-63, 9-17.	0.3	7
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1552	A DNAâ€™Encoded Library of Chemical Compounds Based on Common Scaffolding Structures Reveals the Impact of Ligand Geometry on Protein Recognition. <i>ChemMedChem</i> , 2018, 13, 1303-1307.	1.6	37
1553	Activation of $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -carbonic anhydrases from pathogenic bacteria with tripeptides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 945-950.	2.5	30
1554	The zinc â€™ but not cadmium â€™ containing $\hat{\Gamma}^7$ -carbonic from the diatom <i>Thalassiosira weissflogii</i> is potently activated by amines and amino acids. <i>Bioorganic Chemistry</i> , 2018, 80, 261-265.	2.0	21
1555	Treatment of sleep apnea with a combination of a carbonic anhydrase inhibitor and an aldosterone antagonist: a patent evaluation of CA2958110 and IN6616DEN2012. <i>Expert Opinion on Therapeutic Patents</i> , 2018, 28, 723-727.	2.4	3
1556	Design of two-tail compounds with rotationally fixed benzenesulfonamide ring as inhibitors of carbonic anhydrases. <i>European Journal of Medicinal Chemistry</i> , 2018, 156, 61-78.	2.6	11
1557	Design, synthesis, antiproliferative activity, molecular docking and cell cycle analysis of some novel (morpholinosulfonyl) isatins with potential EGFR inhibitory activity. <i>European Journal of Medicinal Chemistry</i> , 2018, 156, 918-932.	2.6	79
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1559	Manipulating extracellular tumour pH: an effective target for cancer therapy. <i>RSC Advances</i> , 2018, 8, 22182-22192.	1.7	219
1560	Active-site solvent replenishment observed during human carbonic anhydrase II catalysis. <i>IUCrj</i> , 2018, 5, 93-102.	1.0	15
1561	Synthetic DNA system for structure-function studies of the high affinity CO <sub>2</sub> uptake NDH-13 protein complex in cyanobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1108-1118.	0.5	11
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1570	Synthesis, X-ray structure, in silico calculation, and carbonic anhydrase inhibitory properties of benzylimidazole metal complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1150-1159.	2.5	6
1571	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
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1574	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, 1571.	1.8	23
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1576	Nanomedicine for tumor microenvironment modulation and cancer treatment enhancement. <i>Nano Today</i> , 2018, 21, 55-73.	6.2	259
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1578	Carbonic Anhydrase IX (CAIX), Cancer, and Radiation Responsiveness. <i>Metabolites</i> , 2018, 8, 13.	1.3	52
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1581	Carbonic Anhydrases and Metabolism. <i>Metabolites</i> , 2018, 8, 25.	1.3	164
1582	Amino Acids as Building Blocks for Carbonic Anhydrase Inhibitors. <i>Metabolites</i> , 2018, 8, 36.	1.3	22
1583	Benzamide-4-Sulfonamides Are Effective Human Carbonic Anhydrase I, II, VII, and IX Inhibitors. <i>Metabolites</i> , 2018, 8, 37.	1.3	19
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1586	Carbonic anhydrase enzymes for regulating mast cell hematopoiesis and type-2 inflammation: a patent evaluation (WO2017/058370). <i>Expert Opinion on Therapeutic Patents</i> , 2018, 28, 741-743.	2.4	2

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1588	Discovery of potent anti-convulsant carbonic anhydrase inhibitors: Design, synthesis, in $\hat{\text{v}}\text{itro}$ and in $\hat{\text{v}}\text{itro}$ appraisal. <i>European Journal of Medicinal Chemistry</i> , 2018, 156, 430-443.	2.6	17
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1590	Sweet Binders: Carbonic Anhydrase IX in Complex with Sucralose. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 657-661.	1.3	10
1591	Discovery of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDs $\hat{\text{C}}$ CAIs) for the Management of Rheumatoid Arthritis. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4961-4977.	2.9	53
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1598	Synthesis, characterization, antimicrobial activity, carbonic anhydrase enzyme inhibitor effects, and computational studies on new Schiff bases of Sulfa drugs and their Pd(II), Cu(II) complexes. <i>Journal of Molecular Structure</i> , 2018, 1171, 214-222.	1.8	37
1599	In vitro effect of carbonic anhydrase inhibitor acetazolamide on cell viability, migration and colony formation of colorectal cancer cells. <i>Biologia (Poland)</i> , 2018, 73, 621-628.	0.8	2
1600	Human colorectal cancer initiation is bidirectional, and cell growth, metabolic genes and transporter genes are early drivers of tumorigenesis. <i>Cancer Letters</i> , 2018, 431, 213-218.	3.2	8
1601	CAIX furthers tumour progression in the hypoxic tumour microenvironment of esophageal carcinoma and is a possible therapeutic target. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1024-1033.	2.5	15
1602	Carbonic anhydrase inhibition selectively prevents amyloid $\hat{\text{I}}^2$ neurovascular mitochondrial toxicity. <i>Aging Cell</i> , 2018, 17, e12787.	3.0	64
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1604	Targeting Tumor Associated Carbonic Anhydrases IX and XII: Highly Isozyme Selective Coumarin and Psoralen Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 725-729.	1.3	39

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1607	Topiramate is more effective than acetazolamide at lowering intracranial pressure. <i>Cephalalgia</i> , 2019, 39, 209-218.	1.8	58
1608	Carbonic anhydrase inhibitors based on sorafenib scaffold: Design, synthesis, crystallographic investigation and effects on primary breast cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2019, 182, 111600.	2.6	33
1609	Role of Carbonic Anhydrases and Inhibitors in Acid-Base Physiology: Insights from Mathematical Modeling. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3841.	1.8	51
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1612	Carbonic anhydrase inhibitors as ophthalmologic drugs for the treatment of glaucoma. , 2019, , 269-285.		2
1613	Carbonic anhydrase inhibitors as diuretics. , 2019, , 287-309.		0
1614	Carbonic anhydrase inhibitors for the treatment of tumors. , 2019, , 331-365.		3
1615	Carbonic anhydrases from pathogens. , 2019, , 387-417.		2
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1617	Carbonic anhydrase activators and their potential in the pharmaceutical field. , 2019, , 477-492.		0
1618	Mechanism of action of carbonic anhydrase inhibitors. , 2019, , 245-255.		1
1619	CO <sub>2</sub> -capture by engineered mammalian carbonic anhydrases. , 2019, , 515-530.		0
1620	Synthesis of novel tellurides bearing benzenesulfonamide moiety as carbonic anhydrase inhibitors with antitumor activity. <i>European Journal of Medicinal Chemistry</i> , 2019, 181, 111586.	2.6	25
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1622	Structure-activity relationship with pyrazoline-based aromatic sulfamates as carbonic anhydrase isoforms I, II, IX and XII inhibitors: Synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2019, 182, 111638.	2.6	24

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1626	Sulfonate and sulfamate derivatives possessing benzofuran or benzothiophene nucleus as potent carbonic anhydrase II/IX/XII inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 3889-3901.	1.4	10
1627	Bis-benzoxaboroles: Design, Synthesis, and Biological Evaluation as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 1205-1210.	1.3	19
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1629	Naphthalimide-Based Template for Inhibitor Screening via Cross-Linking and In-Gel Fluorescence: A Case Study against HCA II. ACS Omega, 2019, 4, 11914-11920.	1.6	2
1630	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. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1178-1185.	2.5	7
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1634	Discovery of Novel Sulfonamide-Based 5-arylidenerythranes as Effective Carbonic Anhydrase (II) Inhibitors: Microwave-Assisted and Ultrasound-Assisted One-Pot Four-Component Synthesis, Molecular Docking, and Anti-CA II Screening Studies. Journal of Heterocyclic Chemistry, 2019, 56, 2460-2468.	1.4	6
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1636	Mechanisms of action of carbonic anhydrase inhibitors. , 2019, , 187-222.		2
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1638	Synthesis, molecular docking analysis and carbonic anhydrase I-II inhibitory evaluation of new sulfonamide derivatives. Bioorganic Chemistry, 2019, 91, 103153.	2.0	52
1639	Synthesis and biological evaluation of some new mono Mannich bases with piperazines as possible anticancer agents and carbonic anhydrase inhibitors. Bioorganic Chemistry, 2019, 90, 103095.	2.0	53
1640	Application of hydrazino and hydrazido linkers to connect benzenesulfonamides with hydrophilic/phobic tails for targeting the middle region of human carbonic anhydrases active site: Selective inhibitors of hCA IX. European Journal of Medicinal Chemistry, 2019, 179, 547-556.	2.6	19

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1642	Iridium-Catalyzed <i>ortho</i> -C-H Amidation of Benzenesulfonamides with Sulfonyl Azides. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4393-4398.	2.1	13
1643	Mycobacterium tuberculosis $\hat{1}$ -Carbonic Anhydrases: Novel Targets for Developing Antituberculosis Drugs. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5153.	1.8	28
1644	3-Hydrazinoisatin-based benzenesulfonamides as novel carbonic anhydrase inhibitors endowed with anticancer activity: Synthesis, <i>in vitro</i> biological evaluation and in silico insights. <i>European Journal of Medicinal Chemistry</i> , 2019, 184, 111768.	2.6	49
1645	Synthesis of $\hat{2}$ -amino acid derivatives and their inhibitory profiles against some metabolic enzymes. <i>Archiv Der Pharmazie</i> , 2019, 352, e1900200.	2.1	10
1646	Extending the $\hat{3}$ -class carbonic anhydrases inhibition profiles with phenolic compounds. <i>Bioorganic Chemistry</i> , 2019, 93, 103336.	2.0	13
1647	Inhibitory Effects and Kinetic-Docking Studies of Xanthohumol From <i>Humulus lupulus</i> Cones Against Carbonic Anhydrase, Acetylcholinesterase, and Butyrylcholinesterase. <i>Natural Product Communications</i> , 2019, 14, 1934578X1988150.	0.2	3
1648	Biological Activity Evaluation of Some New Benzenesulphonamide Derivatives. <i>Frontiers in Chemistry</i> , 2019, 7, 634.	1.8	23
1649	Dithiocarbamate as a Valuable Scaffold for the Inhibition of Metallo- $\hat{2}$ -Lactmases. <i>Biomolecules</i> , 2019, 9, 699.	1.8	13
1650	Mechanism of Action of Non-Synonymous Single Nucleotide Variations Associated with $\hat{1}$ -Carbonic Anhydrase II Deficiency. <i>Molecules</i> , 2019, 24, 3987.	1.7	18
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1652	Carbonic anhydrase inhibitors for the treatment of epilepsy and obesity. , 2019, , 311-329.		5
1653	Biochemical and Structural Insights into Carbonic Anhydrase XII/Fab6A10 Complex. <i>Journal of Molecular Biology</i> , 2019, 431, 4910-4921.	2.0	23
1654	Transcriptome Profiling of Placenta through Pregnancy Reveals Dysregulation of Bile Acids Transport and Detoxification Function. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4099.	1.8	7
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1656	Treatment of glaucoma and ocular hypertension using rho kinase inhibitors: patent evaluation of US2018244666 and US2018256595. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 753-759.	2.4	3
1657	Carbonic anhydrase 9 confers resistance to ferroptosis/apoptosis in malignant mesothelioma under hypoxia. <i>Redox Biology</i> , 2019, 26, 101297.	3.9	97
1658	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.	2.5	7

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1660	Dissecting the Proton Transport Pathway in Oral Squamous Cell Carcinoma: State of the Art and Theranostics Implications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4222.	1.8	3
1661	Optimization, thermodynamic characteristics and solubility predictions of natural deep eutectic solvents used for sulfonamide dissolution. <i>International Journal of Pharmaceutics</i> , 2019, 570, 118682.	2.6	20
1662	Crystal structure and chemical inhibition of essential schistosome host-interactive virulence factor carbonic anhydrase SmCA. <i>Communications Biology</i> , 2019, 2, 333.	2.0	30
1663	Novel 2-substituted-benzimidazole-6-sulfonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IX and XII and molecular docking studies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1697-1710.	2.5	28
1664	Continued exploration and tail approach synthesis of benzenesulfonamides containing triazole and dual triazole moieties as carbonic anhydrase I, II, IV and IX inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111698.	2.6	38
1665	Exploring new structural features of the 4-[(3-methyl-4-aryl-2,3-dihydro-1,3-thiazol-2-ylidene)amino]benzenesulphonamide scaffold for the inhibition of human carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1526-1533.	2.5	9
1666	Synthesis and exploration of 2-morpholino-4-phenylthiazol-5-yl acrylamide derivatives for their effects against carbonic anhydrase I, II, IX and XII isoforms as a non-sulfonamide class of inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115090.	1.4	13
1667	The management of glaucoma and macular degeneration. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 745-747.	2.4	31
1668	A New Kid on the Block? Carbonic Anhydrases as Possible New Targets in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4724.	1.8	61
1669	Agents for the prevention and treatment of age-related macular degeneration and macular edema: a literature and patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 761-767.	2.4	40
1670	What is pH regulation, and why do cancer cells need it?. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 5-15.	2.7	85
1671	Click-tailed benzenesulfonamides as potent bacterial carbonic anhydrase inhibitors for targeting <i>Mycobacterium tuberculosis</i> and <i>Vibrio cholerae</i> . <i>Bioorganic Chemistry</i> , 2019, 86, 183-186.	2.0	15
1672	A novel small molecule that kills a subset of MLL-rearranged leukemia cells by inducing mitochondrial dysfunction. <i>Oncogene</i> , 2019, 38, 3824-3842.	2.6	17
1673	Novel approaches for designing drugs that interfere with pH regulation. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 231-248.	2.5	35
1674	Carbonic anhydrase enzymes: Likely targets for inhalational anesthetics. <i>Medical Hypotheses</i> , 2019, 123, 118-124.	0.8	5
1675	Discovery of new organoselenium compounds as antileishmanial agents. <i>Bioorganic Chemistry</i> , 2019, 86, 339-345.	2.0	39
1676	Design, synthesis and biological evaluation of coumarin-3-carboxamides as selective carbonic anhydrase IX and XII inhibitors. <i>Bioorganic Chemistry</i> , 2019, 86, 386-392.	2.0	29



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1678	Selenols: a new class of carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2019, 55, 648-651.	2.2	56
1679	Appraisal of anti-protozoan activity of nitroaromatic benzenesulfonamides inhibiting carbonic anhydrases from <i>Trypanosoma cruzi</i> and <i>Leishmania donovani</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1164-1171.	2.5	18
1680	Sulfamates in drug design and discovery: Pre-clinical and clinical investigations. <i>European Journal of Medicinal Chemistry</i> , 2019, 179, 257-271.	2.6	19
1681	Synthesis and biological evaluation of novel 8-substituted quinoline-2-carboxamides as carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1172-1177.	2.5	17
1682	Therapeutic Evaluation of Herbs With Enzyme Inhibition Studies. , 2019, , 539-571.		0
1683	Synthesis of a new series of 3-functionalised-1-phenyl-1,2,3-triazole sulfamoylbenzamides as carbonic anhydrase I, II, IV and IX inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1199-1209.	2.5	16
1684	Activation of human $\hat{\Gamma}^{\pm}$ -carbonic anhydrase isoforms I, II, IV and VII with bis-histamine schiff bases and bis-spinaceamine substituted derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1193-1198.	2.5	22
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1686	The protease systems and their pathogenic role in juvenile idiopathic arthritis. <i>Autoimmunity Reviews</i> , 2019, 18, 761-766.	2.5	4
1687	3D-QSAR CoMFA Studies on Benzenesulfonamides with Benzimidazole Moieties as Inhibitors of Carbonic Anhydrases XII as Antitumor Agents. <i>Current Enzyme Inhibition</i> , 2019, 15, 69-77.	0.3	1
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1689	N-aryl-N $\hat{\Gamma}$ -ureido-O-sulfamates: Potent and selective inhibitors of the human Carbonic Anhydrase VII isoform with neuropathic pain relieving properties. <i>Bioorganic Chemistry</i> , 2019, 89, 103033.	2.0	15
1690	Carbonic anhydrases as disease markers. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 509-533.	2.4	51
1691	New phenolic Mannich bases with piperazines and their bioactivities. <i>Bioorganic Chemistry</i> , 2019, 90, 103057.	2.0	45
1692	<i>Leishmania infantum</i> arginase: biochemical characterization and inhibition by naturally occurring phenolic substances. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1100-1109.	2.5	28
1693	Cloning, Purification, and Characterization of a $\hat{\Gamma}^2$ -Carbonic Anhydrase from <i>Malassezia restricta</i> , an Opportunistic Pathogen Involved in Dandruff and Seborrheic Dermatitis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2447.	1.8	22
1694	Indole-Based Hydrazones Containing A Sulfonamide Moiety as Selective Inhibitors of Tumor-Associated Human Carbonic Anhydrase Isoforms IX and XII. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2354.	1.8	22

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1696	Fibrate-based <i>N</i> -acylsulphonamides targeting carbonic anhydrases: synthesis, biochemical evaluation, and docking studies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1051-1061.	2.5	13
1697	Polypharmacology of epacadostat: a potent and selective inhibitor of the tumor associated carbonic anhydrases IX and XII. <i>Chemical Communications</i> , 2019, 55, 5720-5723.	2.2	18
1698	Organic Photodynamic Nanoinhibitor for Synergistic Cancer Therapy. <i>Angewandte Chemie</i> , 2019, 131, 8245-8249.	1.6	20
1699	Convergent Total Synthesis of Principinol D, a Rearranged Kaurane Diterpenoid. <i>Journal of the American Chemical Society</i> , 2019, 141, 8088-8092.	6.6	47
1700	DFT-based QSAR modelling of selectivity and inhibitory activity of coumarins and sulfocoumarins against tumor-associated carbonic anhydrase isoform IX. <i>Computational Biology and Chemistry</i> , 2019, 80, 307-313.	1.1	8
1701	5-Arylisothiazol-3(2H)-one-1,(1)-(di)oxides: A new class of selective tumor-associated carbonic anhydrases (hCA IX and XII) inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 175, 40-48.	2.6	13
1702	Organic Photodynamic Nanoinhibitor for Synergistic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8161-8165.	7.2	183
1703	Activation Studies of the $\hat{I}^3$ -Carbonic Anhydrases from the Antarctic Marine Bacteria <i>Pseudoalteromonas haloplanktis</i> and <i>Colwellia psychrerythraea</i> with Amino Acids and Amines. <i>Marine Drugs</i> , 2019, 17, 238.	2.2	9
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1705	Solubility advantage of sulfanilamide and sulfacetamide in natural deep eutectic systems: experimental and theoretical investigations. <i>Drug Development and Industrial Pharmacy</i> , 2019, 45, 1120-1129.	0.9	24
1706	Activation and inhibition effects of some natural products on human cytosolic CAI and CAII. <i>Medicinal Chemistry Research</i> , 2019, 28, 711-722.	1.1	16
1707	Cloning, expression and characterization of $\hat{I}^2$ - and $\hat{I}^3$ -carbonic anhydrase from <i>Bacillus</i> sp. SS105 for biomimetic sequestration of CO <sub>2</sub> . <i>International Journal of Biological Macromolecules</i> , 2019, 131, 445-452.	3.6	19
1708	Carbonic Anhydrase Inhibitor-NO Donor Hybrids and Their Pharmacological Applications. , 2019, , 229-242.		6
1709	Synthesis of benzensulfonamides linked to quinazoline scaffolds as novel carbonic anhydrase inhibitors. <i>Bioorganic Chemistry</i> , 2019, 87, 78-90.	2.0	36
1710	Synthesis, biological activity and multiscale molecular modeling studies of bis-coumarins as selective carbonic anhydrase IX and XII inhibitors with effective cytotoxicity against hepatocellular carcinoma. <i>Bioorganic Chemistry</i> , 2019, 87, 838-850.	2.0	49
1711	Synthesis and investigation of anticancer, antibacterial activities and carbonic anhydrase, acetylcholinesterase inhibition profiles of novel (3aR,4S,7R,7aS)-2-[4-[1-acetyl-5-(aryl/heteroaryl)-4,5-dihydro-1H-pyrazol-3-yl]phenyl]-3a,4,7,7a-tetrahydro-1H-4,7-methanoisoindole-1,3-dione. <i>Monatshfte für Chemie</i> , 2019, 150, 721-731.	0.9	31
1712	Real-Time Insights into Biological Events: In-Cell Processes and Protein-Ligand Interactions. <i>Biophysical Journal</i> , 2019, 116, 239-247.	0.2	35

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1713	Design, synthesis, and carbonic anhydrase inhibition activity of benzenesulfonamide-linked novel pyrazoline derivatives. <i>Bioorganic Chemistry</i> , 2019, 87, 425-431.	2.0	31
1714	Accelerated CO <sub>2</sub> Hydration with Thermostable Sulfurhydrogenibium azorene Carbonic Anhydrase-Chitin Binding Domain Fusion Protein Immobilised on Chitin Support. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1494.	1.8	26
1715	Synthesis of saccharin-glycoconjugates targeting carbonic anhydrase using a one-pot cyclization/deprotection strategy. <i>Carbohydrate Research</i> , 2019, 476, 65-70.	1.1	8
1716	Divergent Synthesis of 1,2-Benzo[e]thiazine and Benzo[d]thiazole Analogues Containing a S-Trifluoromethyl Sulfoximine Group: Preparation and New Properties of the Adachi Reagent. <i>Journal of Organic Chemistry</i> , 2019, 84, 4086-4094.	1.7	15
1717	Comparative transcriptome analysis of <i>Eogammarus possjeticus</i> at different hydrostatic pressure and temperature exposures. <i>Scientific Reports</i> , 2019, 9, 3456.	1.6	12
1718	Novel 2-indolinones containing a sulfonamide moiety as selective inhibitors of <i>Candida albicans</i> $\beta$ -carbonic anhydrase enzyme. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 528-531.	2.5	13
1719	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
1720	Inhibitor-Polymer Conjugates as a Versatile Tool for Detection and Visualization of Cancer-Associated Carbonic Anhydrase Isoforms. <i>ACS Omega</i> , 2019, 4, 6746-6756.	1.6	10
1721	Drug Delivery to Hypoxic Tumors Targeting Carbonic Anhydrase IX. <i>ACS Symposium Series</i> , 2019, , 223-252.	0.5	1
1722	Sulfur, selenium and tellurium containing amines act as effective carbonic anhydrase activators. <i>Bioorganic Chemistry</i> , 2019, 87, 516-522.	2.0	40
1723	Novel synthesized SLC-0111 thiazole and thiadiazole analogues: Determination of their carbonic anhydrase inhibitory activity and molecular modeling studies. <i>Bioorganic Chemistry</i> , 2019, 87, 794-802.	2.0	46
1724	Synthesis and biological evaluation of coumarin-1,3,4-oxadiazole hybrids as selective carbonic anhydrase IX and XII inhibitors. <i>Bioorganic Chemistry</i> , 2019, 87, 765-772.	2.0	38
1725	Carbonic Anhydrase Inhibition Ameliorates Inflammation and Experimental Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 512-524.	1.4	43
1726	Synthesis of 5-methyl-2,4-dihydro-3H-1,2,4-triazole-3-one's aryl Schiff base derivatives and investigation of carbonic anhydrase and cholinesterase (AChE, BuChE) inhibitory properties. <i>Bioorganic Chemistry</i> , 2019, 86, 705-713.	2.0	47
1727	The Possible Role of <i>Helicobacter pylori</i> in Gastric Cancer and Its Management. <i>Frontiers in Oncology</i> , 2019, 9, 75.	1.3	64
1728	Diverse structural assemblies of U-shaped hydrazinyl-sulfonamides: experimental and theoretical analysis of non-covalent interactions stabilizing solid state conformations. <i>CrystEngComm</i> , 2019, 21, 1780-1793.	1.3	12
1729	Carbonic anhydrases are involved in mitochondrial biogenesis and control the production of lactate by human Sertoli cells. <i>FEBS Journal</i> , 2019, 286, 1393-1406.	2.2	23
1730	Activation Studies of the $\beta$ -Carbonic Anhydrase from the Pathogenic Protozoan <i>Entamoeba histolytica</i> with Amino Acids and Amines. <i>Metabolites</i> , 2019, 9, 26.	1.3	9

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1732	Pro-metastatic functions of lipoproteins and extracellular vesicles in the acidic tumor microenvironment. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 79-92.	2.7	17
1733	Pyridazinone-substituted benzenesulfonamides display potent inhibition of membrane-bound human carbonic anhydrase IX and promising antiproliferative activity against cancer cell lines. <i>European Journal of Medicinal Chemistry</i> , 2019, 168, 301-314.	2.6	24
1734	Tchnetium and Rhenium Complexes with Aromatic Hydrocarbons as Ligands. , 2019, , 215-241.		2
1735	Evaluation of the anticancer potential of a sulphonamide carbonic anhydrase IX inhibitor on cervical cancer cells. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 703-711.	2.5	20
1736	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
1737	$\hat{1}\pm, \hat{1}^3$ -Diketocarboxylic Acids and Their Esters Act as Carbonic Anhydrase IX and XII Selective Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 661-665.	1.3	18
1738	Quantitative Assessment of Affinity Selection Performance by Using DNA-Encoded Chemical Libraries. <i>ChemBioChem</i> , 2019, 20, 955-962.	1.3	38
1739	Carbonic anhydrase-IX inhibition enhances the efficacy of hexokinase II inhibitor for hepatocellular carcinoma in a murine model. <i>Journal of Bioenergetics and Biomembranes</i> , 2019, 51, 121-129.	1.0	7
1740	Synthesis of sulfonamide, amide and amine hybrid pharmacophore, an entry of new class of carbonic anhydrase II inhibitors and evaluation of chemo-informatics and binding analysis. <i>Bioorganic Chemistry</i> , 2019, 86, 624-630.	2.0	12
1741	Comparative evaluation of affibody- and antibody fragments-based CAIX imaging probes in mice bearing renal cell carcinoma xenografts. <i>Scientific Reports</i> , 2019, 9, 14907.	1.6	14
1742	Soil exchange rates of COS and CO <sub>18</sub> O differ with the diversity of microbial communities and their carbonic anhydrase enzymes. <i>ISME Journal</i> , 2019, 13, 290-300.	4.4	20
1743	Co(II), Ni(II) and Cu(II) ternary complexes with sulfadiazine and dimethylformamide: Synthesis, spectroscopic characterization, crystallographic study and antibacterial activity. <i>Journal of Molecular Structure</i> , 2019, 1176, 605-613.	1.8	17
1744	Targeted treatment of anaerobic cancer. Patent evaluation of US2016279084 and US2017056350. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 1-6.	2.4	4
1745	Comparison of blood carbonic anhydrase activity of athletes performing interval and continuous running exercise at high altitude. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 218-223.	2.5	7
1746	UPLC-QTOF-MS analysis of a carbonic anhydrase-inhibiting extract and fractions of <i>Luffa acutangula</i> (L.) Roxb (ridge gourd). <i>Phytochemical Analysis</i> , 2019, 30, 148-155.	1.2	19
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1748	SLC-0111 enamione analogs, 3/4-(3-aryl-3-oxopropenyl) aminobenzenesulfonamides, as novel selective subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform IX. <i>Bioorganic Chemistry</i> , 2019, 83, 549-558.	2.0	53

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1750	Imaging of Renal Tumors. , 2019, , 55-69.		1
1751	Synthesis and anti-inflammatory activity of sulfonamides and carboxylates incorporating trimellitimidates: Dual cyclooxygenase/carbonic anhydrase inhibitory actions. <i>Bioorganic Chemistry</i> , 2019, 84, 260-268.	2.0	56
1752	Isolation and Expression Analysis of Three Types of $\Gamma$ -Carbonic Anhydrases from the Antarctic Alga <i>Chlamydomonas</i> sp. ICE-L under Different Light Stress Treatments. <i>Molecular Biotechnology</i> , 2019, 61, 200-208.	1.3	1
1753	Synthesis of novel benzenesulfonamide bearing 1,2,3-triazole linked hydroxy-trifluoromethylpyrazolines and hydrazones as selective carbonic anhydrase isoforms IX and XII inhibitors. <i>Bioorganic Chemistry</i> , 2019, 85, 198-208.	2.0	36
1754	(Hetero)aryl substituted thiazol-2,4-yl scaffold as human carbonic anhydrase I, II, VII and XIV activators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 224-229.	2.5	8
1755	Nanoscale Ion Emitters in Native Mass Spectrometry for Measuring Ligand-Protein Binding Affinities. <i>ACS Central Science</i> , 2019, 5, 308-318.	5.3	84
1756	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
1757	Long chain alkyl and fluoroalkyl glucose and glucosamine derivatives as hyaluronic acid subunits-Scaffolds for drug delivery. <i>Journal of Fluorine Chemistry</i> , 2019, 219, 98-105.	0.9	8
1758	Using neutron crystallography to elucidate the basis of selective inhibition of carbonic anhydrase by saccharin and a derivative. <i>Journal of Structural Biology</i> , 2019, 205, 147-154.	1.3	13
1759	4-Substituted benzenesulfonamides featuring cyclic imides moieties exhibit potent and isoform-selective carbonic anhydrase II/IX inhibition. <i>Bioorganic Chemistry</i> , 2019, 83, 198-204.	2.0	23
1760	Synthesis of 1,2,4-triazole-5-on derivatives and determination of carbonic anhydrase II isoenzyme inhibition effects. <i>Bioorganic Chemistry</i> , 2019, 83, 170-179.	2.0	31
1761	Antitubulin sulfonamides: The successful combination of an established drug class and a multifaceted target. <i>Medicinal Research Reviews</i> , 2019, 39, 775-830.	5.0	25
1762	Assessment of the antiproliferative and apoptotic roles of sulfonamide carbonic anhydrase IX inhibitors in HeLa cancer cell line. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 75-86.	2.5	25
1763	The different roles of <i>Aspergillus nidulans</i> carbonic anhydrases in wollastonite weathering accompanied by carbonation. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 437-450.	1.6	15
1764	In Situ Photoregulation of Carbonic Anhydrase Activity Using Azobenzenesulfonamides. <i>Biochemistry</i> , 2019, 58, 48-53.	1.2	15
1765	Synthesis and carbonic anhydrase inhibitory properties of novel 4-(2-aminoethyl)benzenesulfonamide-dipeptide conjugates. <i>Bioorganic Chemistry</i> , 2019, 83, 414-423.	2.0	24
1766	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

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1768	Synthesis and cytotoxic activities of novel copper and silver complexes of 1,3-diaryltriazene-substituted sulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 110-116.	2.5	24
1769	Polyfluorinated scaffolds in drug discovery. , 2019, , 141-180.		8
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1771	Strong $\pi$ - $\pi$ stacking interactions led to the mis-assignment of dimer emissions to the monomers of 1-acetylpyrene. <i>Chinese Chemical Letters</i> , 2019, 30, 601-604.	4.8	10
1772	Acetazolamide-loaded pH-responsive Nanoparticles Alleviating Tumor Acidosis to Enhance Chemotherapy Effects. <i>Macromolecular Bioscience</i> , 2019, 19, e1800366.	2.1	15
1773	N-Nitrosulfonamides as Carbonic Anhydrase Inhibitors: A Promising Chemotype for Targeting Chagas Disease and Leishmaniasis. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 413-418.	1.3	21
1774	3-Aminobenzenesulfonamides incorporating acylthiourea moieties selectively inhibit the tumor-associated carbonic anhydrase isoform IX over the off-target isoforms I, II and IV. <i>Bioorganic Chemistry</i> , 2019, 82, 123-128.	2.0	8
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1778	Computational modeling of novel inhibitory peptides targeting proteoglycan like region of carbonic anhydrase IX and in vitro validation in HeLa cells. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1995-2006.	2.0	10
1779	Identification of potential tumour-associated carbonic anhydrase isozyme IX inhibitors: atom-based 3D-QSAR modelling, pharmacophore-based virtual screening and molecular docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2156-2170.	2.0	13
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1781	A structure-based approach towards the identification of novel antichagasic compounds: <i>Trypanosoma cruzi</i> carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 21-30.	2.5	13
1782	Immunity, Hypoxia, and Metabolism—the “Trois” of Cancer: Implications for Immunotherapy. <i>Physiological Reviews</i> , 2020, 100, 1-102.	13.1	190
1783	Discovery of New 1,1'-Biphenyl-4-sulfonamides as Selective Subnanomolar Human Carbonic Anhydrase II Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 633-637.	1.3	2
1784	Design, synthesis, in vitro inhibition and toxicological evaluation of human carbonic anhydrases I, II and IX inhibitors in 5-nitroimidazole series. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 109-117.	2.5	20



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1789	Gene expression profiling in the hippocampus of adolescent rats after chronic alcohol administration. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020, 126, 389-398.	1.2	10
1790	Carbonic anhydrase II does not regulate nitrite-dependent nitric oxide formation and vasodilation. <i>British Journal of Pharmacology</i> , 2020, 177, 898-911.	2.7	10
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1792	Synthesis and human carbonic anhydrase I, II, VA, and XII inhibition with novel amino acid-like sulphonamide conjugates. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 489-497.	2.5	6
1793	Sulphonamides incorporating 1,3,5-triazine structural motifs show antioxidant, acetylcholinesterase, butyrylcholinesterase, and tyrosinase inhibitory profile. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 424-431.	2.5	26
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1796	Benzimidazole derivatives as potent and isoform selective tumor-associated carbonic anhydrase IX/XII inhibitors. <i>Bioorganic Chemistry</i> , 2020, 95, 103544.	2.0	13
1797	Structure-activity relationship of human carbonic anhydrase-II inhibitors: Detailed insight for future development as anti-glaucoma agents. <i>Bioorganic Chemistry</i> , 2020, 95, 103557.	2.0	40
1798	Biomimetic Platinum Nanozyme Immobilized on 2D Metal-Organic Frameworks for Mitochondrion-Targeting and Oxygen Self-Supply Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1963-1972.	4.0	104
1799	<i>In vitro</i> inhibition of <i>Mycobacterium tuberculosis</i> $\beta$ -carbonic anhydrase 3 with Mono- and dithiocarbamates and evaluation of their toxicity using zebrafish developing embryos. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 65-71.	2.5	14
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1801	Transcriptomic response to low pH stress in gills of the pacific white shrimp, <i>Litopenaeus vannamei</i> . <i>Aquaculture Research</i> , 2020, 51, 175-186.	0.9	6
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1807	Novel benzofuran-based sulphonamides as selective carbonic anhydrases IX and XII inhibitors: synthesis and <i>in vitro</i> biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 298-305.	2.5	16
1808	Design, synthesis and molecular modelling studies of some pyrazole derivatives as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 289-297.	2.5	38
1809	Novel sulphonamides incorporating triazene moieties show powerful carbonic anhydrase I and II inhibitory properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 325-329.	2.5	24
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1835	<p></p>Glucometabolic Reprogramming in the Hepatocellular Carcinoma Microenvironment: Cause and Effect</p>. Cancer Management and Research, 2020, Volume 12, 5957-5974.	0.9	21
1836	Activation studies of the $\hat{I}^2$ -carbonic anhydrases from <i>Escherichia coli</i> with amino acids and amines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1379-1386.	2.5	10
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1841	Discovery of novel artemisinin-sulfonamide hybrids as potential carbonic anhydrase IX inhibitors with improved antiproliferative activities. <i>Bioorganic Chemistry</i> , 2020, 104, 104347.	2.0	12
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1844	Inhibitors of lipogenic enzymes as a potential therapy against cancer. <i>FASEB Journal</i> , 2020, 34, 11355-11381.	0.2	33
1845	Comparative Proteomics of Octocoral and Scleractinian Scleractinians and the Evolution of Coral Calcification. <i>Genome Biology and Evolution</i> , 2020, 12, 1623-1635.	1.1	14
1846	Synthesis of new series of thiazolylideneamino)benzenesulfonamide derivatives as carbonic anhydrase inhibitors. <i>Journal of Biochemical and Molecular Toxicology</i> , 2020, 34, e22596.	1.4	7
1847	Inclusion of a 5-fluorouracil moiety in nitrogenous bases derivatives as human carbonic anhydrase IX and XII inhibitors produced a targeted action against MDA-MB-231 and T47D breast cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2020, 190, 112112.	2.6	46
1848	Catalytic Degradation of an Organophosphorus Agent at Zn-OH Sites in a Metal-Organic Framework. <i>Chemistry of Materials</i> , 2020, 32, 6998-7004.	3.2	32
1849	Optimization of Acetazolamide-Based Scaffold as Potent Inhibitors of Vancomycin-Resistant <i>Enterococcus</i> . <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9540-9562.	2.9	57
1850	Synthesis, Computational Studies and Assessment of <i>in Vitro</i> Activity of Squalene Derivatives as Carbonic Anhydrase Inhibitors. <i>ChemMedChem</i> , 2020, 15, 2052-2057.	1.6	4
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1853	Self-Delivery Photodynamic Nanoinhibitors for Tumor Targeted Therapy and Metastasis Inhibition. <i>ACS Applied Bio Materials</i> , 2020, 3, 6124-6130.	2.3	10
1854	Investigation of pesticides on honey bee carbonic anhydrase inhibition. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1923-1927.	2.5	9
1855	An overview of carbohydrate-based carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1906-1922.	2.5	23
1856	Native mass spectrometry of human carbonic anhydrase I and its inhibitor complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 979-993.	1.1	5

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1858	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. <i>Metabolites</i> , 2020, 10, 412.	1.3	116
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1860	The "Carbonyl Story" and Beyond; Experiences, Lessons and Implications. <i>ChemBioChem</i> , 2020, 21, 2743-2749.	1.3	17
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1862	Systems pharmacology-based approach to investigate the mechanisms of Danggui-Shaoyao-san prescription for treatment of Alzheimer's disease. <i>BMC Complementary Medicine and Therapies</i> , 2020, 20, 282.	1.2	18
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1867	Development and Validation of High-Throughput Bioanalytical Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) Method for the Quantification of Newly Synthesized Antitumor Carbonic Anhydrase Inhibitors in Human Plasma. <i>Molecules</i> , 2020, 25, 5753.	1.7	1
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1870	In vitro and in vivo BNCT investigations using a carborane containing sulfonamide targeting CAIX epitopes on malignant pleural mesothelioma and breast cancer cells. <i>Scientific Reports</i> , 2020, 10, 19274.	1.6	21
1871	Carbonic Anhydrases: Versatile and Useful Biocatalysts in Chemistry and Biochemistry. <i>Catalysts</i> , 2020, 10, 1008.	1.6	38
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1874	Synthesis, characterization, inhibition effects, and molecular docking studies as acetylcholinesterase, $\beta$ -glycosidase, and carbonic anhydrase inhibitors of novel benzenesulfonamides incorporating 1,3,5-triazine structural motifs. <i>Bioorganic Chemistry</i> , 2020, 100, 103897.	2.0	125



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1882	Synthesis of calix[4]azacrown substituted sulphonamides with antioxidant, acetylcholinesterase, butyrylcholinesterase, tyrosinase and carbonic anhydrase inhibitory action. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1215-1223.	2.5	23
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1884	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
1885	Alkaloids with anti-human carbonic anhydrase isozyme II activity from the bulbs of <i>Crinum asiaticum</i> L. var. <i>asiaticum</i> . <i>Phytochemistry Letters</i> , 2020, 37, 101-105.	0.6	4
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1887	Crystal Structure and Active Site Engineering of a Halophilic $\hat{I}^3$ -Carbonic Anhydrase. <i>Frontiers in Microbiology</i> , 2020, 11, 742.	1.5	16
1888	Prognostic value of CAIX expression in oral squamous cell carcinoma: a systematic review and meta-analysis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1258-1266.	2.5	12
1889	Identification of Novel Carbonic Anhydrase IX Inhibitors Using High-Throughput Screening of Pooled Compound Libraries by DNA-Linked Inhibitor Antibody Assay (DIANA). <i>SLAS Discovery</i> , 2020, 25, 1026-1037.	1.4	2
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1891	Synthesis, characterization, biological evaluation, and in silico studies of novel 1,3-diaryltriazeno-substituted sulfathiazole derivatives. <i>Archiv Der Pharmazie</i> , 2020, 353, e2000102.	2.1	59
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1894	Quantum mechanical study of human carbonic anhydrase II in complex with polyamines as novel inhibitors: Kinetic and thermodynamic investigation. <i>Computational and Theoretical Chemistry</i> , 2020, 1186, 112911.	1.1	11
1895	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.	2.2	6
1896	Synthesis, characterization and biological activity evaluation of novel naphthalenylmethylen hydrazine derivatives as carbonic anhydrase inhibitors. <i>Journal of Molecular Structure</i> , 2020, 1220, 128657.	1.8	8
1897	Role of carbonic anhydrases in ferroptosis-resistance. <i>Archives of Biochemistry and Biophysics</i> , 2020, 689, 108440.	1.4	14
1898	CAIXplatins: Highly Potent Platinum(IV) Prodrugs Selective Against Carbonic Anhydrase IX for the Treatment of Hypoxic Tumors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18556-18562.	7.2	94
1899	New coumarin/sulfocoumarin linked phenylacrylamides as selective transmembrane carbonic anhydrase inhibitors: Synthesis and in-vitro biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115586.	1.4	14
1900	CAIXplatins: Highly Potent Platinum(IV) Prodrugs Selective Against Carbonic Anhydrase IX for the Treatment of Hypoxic Tumors. <i>Angewandte Chemie</i> , 2020, 132, 18715-18721.	1.6	16
1901	Detection of Intravascular Hemolysis in Newborn Infants Using Urinary Carbonic Anhydrase I Immunoreactivity. <i>Journal of Applied Laboratory Medicine</i> , The, 2020, 5, 921-934.	0.6	1
1902	Biochemical and structural characterisation of a protozoan beta-carbonic anhydrase from <i>Trichomonas vaginalis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1292-1299.	2.5	19
1903	Recent Developments of Target-Based Benzimidazole Derivatives as Potential Anticancer Agents. , 0, , .		8
1904	Discovery of first-in-class multi-target adenosine A2A receptor antagonists-carbonic anhydrase IX and XII inhibitors. 8-Amino-6-aryl-2-phenyl-1,2,4-triazolo [4,3-a]pyrazin-3-one derivatives as new potential antitumor agents. <i>European Journal of Medicinal Chemistry</i> , 2020, 201, 112478.	2.6	9
1905	Real-Time Quantitative In-Cell NMR: Ligand Binding and Protein Oxidation Monitored in Human Cells Using Multivariate Curve Resolution. <i>Analytical Chemistry</i> , 2020, 92, 9997-10006.	3.2	39
1906	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.	1.5	32
1907	Metal ions modulation of the self-assembly of short peptide conjugated nonsteroidal anti-inflammatory drugs (NSAIDs). <i>Nanoscale</i> , 2020, 12, 7960-7968.	2.8	17
1908	S-substituted 2-mercaptoquinazolin-4(3H)-one and 4-ethylbenzensulfonamides act as potent and selective human carbonic anhydrase IX and XII inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 733-743.	2.5	20
1909	Appliance of the piperidinyl-hydrazidoureido linker to benzenesulfonamide compounds: Synthesis, in vitro and in silico evaluation of potent carbonic anhydrase II, IX and XII inhibitors. <i>Bioorganic Chemistry</i> , 2020, 98, 103728.	2.0	15
1910	Sulfonamide-Based Azaheterocyclic Schiff Base Derivatives as Potential Carbonic Anhydrase Inhibitors: Synthesis, Cytotoxicity, and Enzyme Inhibitory Kinetics. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	7

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1911	Activation Effects of Carnosine- and Histidine-Containing Dipeptides on Human Carbonic Anhydrases: A Comprehensive Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1761.	1.8	15
1912	Anion Inhibition Studies of the $\hat{I}^2$ -Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete <i>Sordaria macrospora</i> . <i>Metabolites</i> , 2020, 10, 93.	1.3	6
1913	Tail approach synthesis of novel benzenesulfonamides incorporating 1,3,4-oxadiazole hybrids as potent inhibitor of carbonic anhydrase I, II, IX, and XII isoenzymes. <i>European Journal of Medicinal Chemistry</i> , 2020, 193, 112219.	2.6	26
1914	Design, synthesis and biological evaluation of coumarin linked 1,2,4-oxadiazoles as selective carbonic anhydrase IX and XII inhibitors. <i>Bioorganic Chemistry</i> , 2020, 98, 103739.	2.0	21
1915	Quantitative assessment of the nature of noncovalent interactions in <i>N</i> -substituted-5-(adamantan-1-yl)-1,3,4-thiadiazole-2-amines: insights from crystallographic and QTAIM analysis. <i>RSC Advances</i> , 2020, 10, 9840-9853.	1.7	28
1916	Sulfonamide Inhibition Studies of an $\hat{I}^\pm$ -Carbonic Anhydrase from <i>Schistosoma mansoni</i> , a Platyhelminth Parasite Responsible for Schistosomiasis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1842.	1.8	21
1917	Pharmacological interventions part II. , 2020, , 309-333.		0
1918	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.	2.5	94
1919	Investigation of the effects of the proton transfer salts of 2-aminopyridine derivatives with 5-sulfosalicylic acid and their Cu(II) complexes on cancer-related carbonic anhydrases: CA IX and CA XII. <i>Chemical Papers</i> , 2020, 74, 2365-2374.	1.0	7
1920	Glycomimetic Based Approach toward Selective Carbonic Anhydrase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 727-731.	1.3	12
1921	Selenolesterase enzyme activity of carbonic anhydrases. <i>Chemical Communications</i> , 2020, 56, 4444-4447.	2.2	25
1922	Probing Reversible Guest Binding with Hyperpolarized $^{129}\text{Xe}$ -NMR: Characteristics and Applications for Cucurbit[n]urils. <i>Molecules</i> , 2020, 25, 957.	1.7	9
1923	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.	1.3	6
1924	pH gradient reversal fuels cancer progression. <i>International Journal of Biochemistry and Cell Biology</i> , 2020, 125, 105796.	1.2	26
1925	Hybrid Quinoline-Sulfonamide Complexes (M $^{2+}$ ) Derivatives with Antimicrobial Activity. <i>Molecules</i> , 2020, 25, 2946.	1.7	10
1926	Understanding human salivary esterase activity and its variation under wine consumption conditions. <i>RSC Advances</i> , 2020, 10, 24352-24361.	1.7	17
1927	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, 4618.	1.8	182
1928	Enzyme inhibition assay for metabolic disordersâ€”exploring leads from medicinal plants. , 2020, , 631-653.		2

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1930	Perfluoroalkyl Substances of Significant Environmental Concern Can Strongly Inhibit Human Carbonic Anhydrase Isozymes. <i>Analytical Chemistry</i> , 2020, 92, 4614-4622.	3.2	28
1931	7-Acylamino-3H-1,2-benzoxathiepine 2,2-dioxides as new isoform-selective carbonic anhydrase IX and XII inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 650-656.	2.5	14
1932	Ternary Co(II), Ni(II) and Cu(II) complexes containing dipyrrophenazine and saccharin: Structures, reactivity, binding interactions with biomolecules and DNA damage activity. <i>Inorganica Chimica Acta</i> , 2020, 506, 119532.	1.2	16
1933	New Dihydrothiazole Benzenesulfonamides: Looking for Selectivity toward Carbonic Anhydrase Isoforms I, II, IX, and XII. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 852-856.	1.3	6
1934	Microsecond Simulation of the Proteoglycan-like Region of Carbonic Anhydrase IX and Design of Chemical Inhibitors Targeting pH Homeostasis in Cancer Cells. <i>ACS Omega</i> , 2020, 5, 4270-4281.	1.6	9
1935	Sulfonamide Inhibition Studies of the Î²-Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete <i>Sordaria macrospora</i> . <i>Molecules</i> , 2020, 25, 1036.	1.7	4
1936	Critical Evaluation of Photo-cross-linking Parameters for the Implementation of Efficient DNA-Encoded Chemical Library Selections. <i>ACS Combinatorial Science</i> , 2020, 22, 204-212.	3.8	28
1937	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.	2.5	9
1938	Sulfocoumarins as dual inhibitors of human carbonic anhydrase isoforms IX/XII and of human thioredoxin reductase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 506-510.	2.5	32
1939	1,3-Dipolar Cycloaddition, HPLC Enantioseparation, and Docking Studies of Saccharin/Isoxazole and Saccharin/Isoxazoline Derivatives as Selective Carbonic Anhydrase IX and XII Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 2470-2488.	2.9	42
1940	A class of carbonic anhydrase IX/XII "selective carboxylate inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 549-554.	2.5	7
1941	A Fluorescent Probe for Rapid, High-Contrast Visualization of Folate-Receptor-Expressing Tumors In Vivo. <i>Angewandte Chemie</i> , 2020, 132, 6071-6076.	1.6	28
1942	A Fluorescent Probe for Rapid, High-Contrast Visualization of Folate-Receptor-Expressing Tumors In Vivo. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6015-6020.	7.2	41
1943	Study of glycation process of human carbonic anhydrase II as well as investigation concerning inhibitory influence of 3-beta-hydroxybutyrate on it. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 443-449.	3.6	9
1944	Synthesis, structure elucidation, and in vitro pharmacological evaluation of novel polyfluoro substituted pyrazoline type sulfonamides as multi-target agents for inhibition of acetylcholinesterase and carbonic anhydrase I and II enzymes. <i>Bioorganic Chemistry</i> , 2020, 96, 103627.	2.0	60
1945	Synthesis of some N-aryl-2-oxindole benzenesulfonamide conjugates with carbonic anhydrase inhibitory activity. <i>Bioorganic Chemistry</i> , 2020, 96, 103635.	2.0	15
1946	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.	1.4	18

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1948	DFT based QSARs for inhibitory activity of coumarins towards tumor-associated isoform (CA XII) of carbonic anhydrases. <i>Journal of Molecular Structure</i> , 2020, 1208, 127844.	1.8	2
1949	Sulfonamide Inhibition Profile of the $\hat{1}^2$ -Carbonic Anhydrase from <i>Malassezia restricta</i> , An Opportunistic Pathogen Triggering Scalp Conditions. <i>Metabolites</i> , 2020, 10, 39.	1.3	18
1950	Pharmacological Inhibition of CA-IX Impairs Tumor Cell Proliferation, Migration and Invasiveness. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2983.	1.8	25
1951	On-DNA hit validation methodologies for ligands identified from DNA-encoded chemical libraries. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 235-240.	1.0	10
1952	Carbonic anhydrase and cholinesterase inhibitory activities of isolated flavonoids from <i>Oxalis corniculata</i> L. and their first-principles investigations. <i>Industrial Crops and Products</i> , 2020, 148, 112285.	2.5	23
1953	Benzylaminoethureido-Tailed Benzenesulfonamides: Design, Synthesis, Kinetic and X-ray Investigations on Human Carbonic Anhydrases. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2560.	1.8	17
1954	Synthesis, cytotoxic, and carbonic anhydrase inhibitory effects of new 2-((3-(4-methoxyphenyl)-5-(aryl)-4,5-dihydro-1H-pyrazol-1-yl)benzo[d]thiazole-14 derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 2762-2768.		
1955	Synthesis and carbonic anhydrase inhibition studies of sulfonamide based indole-1,2,3-triazole chalcone hybrids. <i>Bioorganic Chemistry</i> , 2020, 99, 103839.	2.0	34
1956	Characterization of Carbonic Anhydrase In Vivo Using Magnetic Resonance Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2442.	1.8	5
1957	Aryl-4,5-dihydro-1H-pyrazole-1-carboxamide Derivatives Bearing a Sulfonamide Moiety Show Single-digit Nanomolar-to-Subnanomolar Inhibition Constants against the Tumor-associated Human Carbonic Anhydrases IX and XII. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2621.	1.8	5
1958	Synthesis, Characterization, and Biochemical Impacts of Some New Bioactive Sulfonamide Thiazole Derivatives as Potential Insecticidal Agents against the Cotton Leafworm, <i>Spodoptera littoralis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5790-5805.	2.4	23
1959	Introducing aldehyde functionality to proteins using ligand-directed affinity labeling. <i>Chemical Communications</i> , 2020, 56, 6134-6137.	2.2	6
1960	Activation studies of the $\hat{1}^2$ -carbonic anhydrases from <i>Malassezia restricta</i> with amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 824-830.	2.5	4
1961	Benzoxepinones: A new isoform-selective class of tumor associated carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115496.	1.4	25
1962	Synthesis, characterisation, biological evaluation and <i>in silico</i> studies of sulphonamide Schiff bases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 950-962.	2.5	70
1963	Preparation, carbonic anhydrase enzyme inhibition and antioxidant activity of novel 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives incorporating mono or dipeptide moiety. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1021-1026.	2.5	6
1964	The antibiotic furagin and its derivatives are isoform-selective human carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1011-1020.	2.5	27

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1965	The Presence of Serum TgAb Suggests Lower Risks for Glucose and Lipid Metabolic Disorders in Euthyroid General Population From a National Survey. <i>Frontiers in Endocrinology</i> , 2020, 11, 139.	1.5	16
1966	Synthesis and Biological Evaluation of Imidazo[2,1-b]Thiazole based Sulfonyl Piperazines as Novel Carbonic Anhydrase II Inhibitors. <i>Metabolites</i> , 2020, 10, 136.	1.3	14
1967	Synthesis, spectroscopic properties, crystal structures, DFT studies, and the antibacterial and enzyme inhibitory properties of a complex of Co(II) 3,5-difluorobenzoate with 3-pyridinol. <i>Journal of Chemical Research</i> , 2021, 45, 42-48.	0.6	8
1968	Synthesis of novel tris-chalcones and determination of their inhibition profiles against some metabolic enzymes. <i>Archives of Physiology and Biochemistry</i> , 2021, 127, 153-161.	1.0	28
1969	Solubility of Sulfanilamide and Sulfacetamide in neat solvents: Measurements and interpretation using theoretical predictive models, first principle approach and artificial neural networks. <i>Fluid Phase Equilibria</i> , 2021, 529, 112883.	1.4	11
1970	Novel 3-substituted coumarins as selective human carbonic anhydrase IX and XII inhibitors: Synthesis, biological and molecular dynamics analysis. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112897.	2.6	38
1971	Ninhydrins inhibit carbonic anhydrases directly binding to the metal ion. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112875.	2.6	18
1972	Synthesis of benzamide derivatives with thiourea- $\epsilon$ -substituted benzenesulfonamides as carbonic anhydrase inhibitors. <i>Archiv Der Pharmazie</i> , 2021, 354, e2000230.	2.1	24
1973	Recent advances in the medicinal chemistry of carbonic anhydrase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112923.	2.6	77
1974	Combined 3-O-acetylbetulin treatment and carbonic anhydrase IX inhibition results in additive effects on human breast cancer cells. <i>Chemico-Biological Interactions</i> , 2021, 333, 109326.	1.7	15
1975	Utilization of the common functional groups in bioactive molecules: Exploring dual inhibitory potential and computational analysis of keto esters against I $\pm$ -glucosidase and carbonic anhydrase-II enzymes. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 233-244.	3.6	30
1976	Synthesis and evaluation of <sup>68</sup> Ga-labeled imidazothiadiazole sulfonamide derivatives for PET imaging of carbonic anhydrase-IX. <i>Nuclear Medicine and Biology</i> , 2021, 93, 46-53.	0.3	4
1977	Synthesis and in vitro carbonic anhydrases and acetylcholinesterase inhibitory activities of novel imidazolinone- $\epsilon$ -based benzenesulfonamides. <i>Archiv Der Pharmazie</i> , 2021, 354, e2000375.	2.1	32
1978	Intrinsically disordered features of carbonic anhydrase IX proteoglycan-like domain. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2059-2067.	2.4	10
1979	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.	1.1	8
1980	Potential antibacterial and antifungal activities of novel sulfamidophosphonate derivatives bearing the quinoline or quinolone moiety. <i>Archiv Der Pharmazie</i> , 2021, 354, e2000291.	2.1	18
1981	Response to Perspectives on the Classical Enzyme Carbonic Anhydrase and the Search for Inhibitors. <i>Biophysical Journal</i> , 2021, 120, 178-181.	0.2	16
1982	Structural investigation of isatin-based benzenesulfonamides as carbonic anhydrase isoform IX inhibitors endowed with anticancer activity using molecular modeling approaches. <i>Journal of Molecular Structure</i> , 2021, 1229, 129735.	1.8	5

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1983	Prediction of biological activity of compounds containing a 1,3,5-triazinyl sulfonamide scaffold by artificial neural networks using simple molecular descriptors. <i>Bioorganic Chemistry</i> , 2021, 107, 104565.	2.0	5
1984	Design, synthesis, characterization, enzymatic inhibition evaluations, and docking study of novel quinazolinone derivatives. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 1-12.	3.6	40
1985	Simultaneous determination of thermodynamic and kinetic data by isothermal titration calorimetry. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129772.	1.1	4
1986	Activation of carbonic anhydrases from human brain by amino alcohol oxime ethers: towards human carbonic anhydrase VII selective activators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 48-57.	2.5	12
1987	Synthesis and antimicrobial activity of new 1,2,4-triazole, 1,3,4-oxadiazole, 1,3,4-thiadiazole, thiopyrane, thiazolidinone, and azepine derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 74-92.	1.4	37
1988	Dihydroquinoline derivative as a potential anticancer agent: synthesis, crystal structure, and molecular modeling studies. <i>Molecular Diversity</i> , 2021, 25, 55-66.	2.1	6
1989	Activation of the $\hat{1}^2$ -carbonic anhydrase from the protozoan pathogen <i>Trichomonas vaginalis</i> with amines and amino acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 758-763.	2.5	3
1990	Anion inhibition studies of the $\hat{1}^{\pm}$ -carbonic anhydrases from <i>Neisseria gonorrhoeae</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1061-1066.	2.5	17
1991	PEG Linker Length Strongly Affects Tumor Cell Killing by PEGylated Carbonic Anhydrase Inhibitors in Hypoxic Carcinomas Expressing Carbonic Anhydrase IX. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1120.	1.8	8
1992	Biochemical profiling of anti-HIV prodrug El sulfavirine (Elpida <sup>®</sup> ) and its active form VM1500A against a panel of twelve human carbonic anhydrase isoforms. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1056-1060.	2.5	5
1993	Anion inhibition studies of the Zn(II)-bound $\hat{1}^1$ -carbonic anhydrase from the Gram-negative bacterium <i>Burkholderia territorii</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 372-376.	2.5	19
1994	Patent survey on chemosensitizers (2015–2019). , 2021, , 129-146.		0
1995	Molecular docking studies and virtual drug screening of chemosensitizers. , 2021, , 169-183.		0
1996	Carbonic anhydrase activation profile of indole-based derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1783-1797.	2.5	3
1997	Oleuropein and Verbascoside - Their Inhibition Effects on Carbonic Anhydrase and Molecular Docking Studies. <i>Journal of Oleo Science</i> , 2021, 70, 1275-1283.	0.6	10
1998	Sildenafil (VIAGRAM): A Promising Anticancer Drug Against Certain Human Cancer Cell Lines. <i>Asian Journal of Chemistry</i> , 2021, 33, 1420-1424.	0.1	0
1999	A Story on Carbon Dioxide and Its Hydration. , 2021, , 115-131.		0
2000	Effect of Sulfonamides and Their Structurally Related Derivatives on the Activity of $\hat{1}^1$ -Carbonic Anhydrase from <i>Burkholderia territorii</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 571.	1.8	18



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2001	A direct-to-biology high-throughput chemistry approach to reactive fragment screening. <i>Chemical Science</i> , 2021, 12, 12098-12106.	3.7	22
2002	Carbonic anhydrase 13 suppresses bone metastasis in breast cancer. <i>Cancer Treatment and Research Communications</i> , 2021, 27, 100332.	0.7	4
2003	Detection of Low Oxygen Microenvironments in a Murine Model of Using. <i>Methods in Molecular Biology</i> , 2021, 2260, 197-205.	0.4	1
2004	Tumor Microenvironment Biosensors for Hyperpolarized Carbon-13 Magnetic Resonance Spectroscopy. <i>Molecular Imaging and Biology</i> , 2021, 23, 323-334.	1.3	7
2005	The hypoxia-sensor carbonic anhydrase IX affects macrophage metabolism, but is not a suitable biomarker for human cardiovascular disease. <i>Scientific Reports</i> , 2021, 11, 425.	1.6	7
2006	Tetrahydroquinazole-based secondary sulphonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IV, and IX, and computational studies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1874-1883.	2.5	4
2007	Multitargeting approaches involving carbonic anhydrase inhibitors: hybrid drugs against a variety of disorders. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1702-1714.	2.5	32
2008	Predicting Isoform-Selective Carbonic Anhydrase Inhibitors via Machine Learning and Rationalizing Structural Features Important for Selectivity. <i>ACS Omega</i> , 2021, 6, 4080-4089.	1.6	8
2009	Effect of amino acids and amines on the activity of the recombinant $\hat{1}$ -carbonic anhydrase from the Gram-negative bacterium <i>Burkholderia territorii</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1000-1006.	2.5	7
2010	Normalization of the tumor microvasculature based on targeting and modulation of the tumor microenvironment. <i>Nanoscale</i> , 2021, 13, 17254-17271.	2.8	17
2011	An anion and small molecule inhibition study of the $\hat{2}$ -carbonic anhydrase from <i>Staphylococcus aureus</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1088-1092.	2.5	9
2012	Polymorphisms in ovine <i>ME1</i> and <i>CA1</i> genes and their association with feed efficiency in Hu sheep. <i>Journal of Animal Breeding and Genetics</i> , 2021, 138, 589-599.	0.8	18
2013	Carbonic anhydrase IX: a regulator of pH and participant in carcinogenesis. <i>Journal of Clinical Pathology</i> , 2021, 74, 350-354.	1.0	21
2014	Handling drug-target selectivity: A study on ureido containing Carbonic Anhydrase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021, 212, 113035.	2.6	10
2015	Phenols from <i>Origanum dictamnus</i> L. and <i>Thymus vulgaris</i> L. and their activity against <i>Malassezia globosa</i> carbonic anhydrase. <i>Natural Product Research</i> , 2022, 36, 1558-1564.	1.0	11
2016	Biological evaluation, radiosensitizing activity and structural insights of novel halogenated quinazoline-sulfonamide conjugates as selective human carbonic anhydrases IX/XII inhibitors. <i>Bioorganic Chemistry</i> , 2021, 107, 104618.	2.0	11
2017	Light-Dependent Phenomena and Related Molecular Mechanisms in Giant Clam-Dinoflagellate Associations: A Review. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	18
2018	Carbonic Anhydrase XII is a Clinically Significant, Molecular Tumor-Subtype Specific Therapeutic Target in Glioma with the Potential to Combat Invasion of Brain Tumor Cells. <i>OncoTargets and Therapy</i> , 2021, Volume 14, 1707-1718.	1.0	12

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2019	Isoleucine with secondary sulfonamide functionality as anticancer, antibacterial and antifungal agents. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 7052-7069.	2.0	4
2020	Carbonic Anhydrases: New Perspectives on Protein Functional Role and Inhibition in <i>Helicobacter pylori</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 629163.	1.5	42
2021	Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. <i>European Journal of Medicinal Chemistry</i> , 2021, 214, 113260.	2.6	6
2022	Targeting Hypoxic Tumors with Hybrid Nanobullets for Oxygen-Independent Synergistic Photothermal and Thermodynamic Therapy. <i>Nano-Micro Letters</i> , 2021, 13, 99.	14.4	64
2023	Structural insights into novel mechanisms of inhibition of the major $\hat{I}^2$ -carbonic anhydrase CafB from the pathogenic fungus <i>Aspergillus fumigatus</i> . <i>Journal of Structural Biology</i> , 2021, 213, 107700.	1.3	3
2024	Improved Stabilities of Labeling Probes for the Selective Modification of Endogenous Proteins in Living Cells and In Vivo. <i>Chemistry - an Asian Journal</i> , 2021, 16, 937-948.	1.7	4
2025	Structure-Activity Relationship Studies of Acetazolamide-Based Carbonic Anhydrase Inhibitors with Activity against <i>Neisseria gonorrhoeae</i> . <i>ACS Infectious Diseases</i> , 2021, 7, 1969-1984.	1.8	48
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