# Claudiu T Supuran

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9222011/publications.pdf

Version: 2024-02-01

| 1,806 | 100,386 | 333 137 | 1381 222 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 1855 | 1855 | 1855 | 31548 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Phenols from Origanum dictamnus L. and Thymus vulgaris L. and their activity against Malassezia globosa carbonic anhydrase. Natural Product Research, 2022, 36, 1558-1564. | 1.0 | 11 |
| 2 | Hypoxia-activated prodrug derivatives of anti-cancer drugs: a patent review 2006 â€“ 2021. Expert Opinion on Therapeutic Patents, 2022, 32, 1-12. | 2.4 | 14 |
| 3 | Biochemical and structural characterization of beta-carbonic anhydrase from the parasite Trichomonas vaginalis. Journal of Molecular Medicine, 2022, 100, 115-124. | 1.7 | 4 |
| 4 | Design and development of novel series of indoleâ€3â€sulfonamide ureido derivatives as selective carbonic anhydrase II inhibitors. Archiv Der Pharmazie, 2022, 355, e2100333. | 2.1 | 6 |
| 5 | Novel benzenesulfonamideâ€bearing pyrazoles and 1,2,4â€thiadiazoles as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2100241. | 2.1 | 11 |
| 6 | Sultam based Carbonic Anhydrase VII inhibitors for the management of neuropathic pain. European Journal of Medicinal Chemistry, 2022, 227, 113956. | 2.6 | 9 |
| 7 | Natural inspired ligustrazine-based SLC-0111 analogues as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 228, 114008. | 2.6 | 12 |
| 8 | Application of the dual-tail approach for the design and synthesis of novel Thiopyrimidineâ€“Benzenesulfonamide hybrids as selective carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 228, 114004. | 2.6 | 20 |
| 9 | An innovative spectroscopic approach for qualitative and quantitative evaluation of Mb-CO from myoglobin carbonylation reaction through chemometrics methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120602. | 2.0 | 3 |
| 10 | Synthesis, biological evaluation, and in silico studies of potential activators of apoptosis and carbonic anhydrase inhibitors on isatin-5-sulfonamide scaffold. European Journal of Medicinal Chemistry, 2022, 228, 113997. | 2.6 | 16 |
| 11 | Intracellular pH-mediated induction of apoptosis in HeLa cells by a sulfonamide carbonic anhydrase inhibitor. International Journal of Biological Macromolecules, 2022, 201, 37-46. | 3.6 | 10 |
| 12 | Post-translational modifications in tumor-associated carbonic anhydrases. Amino Acids, 2022, 54, 543-558. | 1.2 | 7 |
| 13 | Discovery of 2,4-thiazolidinedione-tethered coumarins as novel selective inhibitors for carbonic anhydrase IX and XII isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 531-541. | 2.5 | 15 |
| 14 | First studies on tumor associated carbonic anhydrases IX and XII monoclonal antibodies conjugated to small molecule inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 592-596. | 2.5 | 14 |
| 15 | Interaction Studies between Carbonic Anhydrase and a Sulfonamide Inhibitor by Experimental and Theoretical Approaches. ACS Medicinal Chemistry Letters, 2022, 13, 271-277. | 1.3 | 6 |
| 16 | Coumarins effectively inhibit bacterial Î±-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 333-338. | 2.5 | 24 |
| 17 | 2-(2-Hydroxyethyl)piperazine derivatives as potent human carbonic anhydrase inhibitors: Synthesis, enzyme inhibition, computational studies and antiglaucoma activity. European Journal of Medicinal Chemistry, 2022, 228, 114026. | 2.6 | 1 |
| 18 | Pharmaceutical strategies for preventing toxicity and promoting antioxidant and anti-inflammatory actions of bilirubin. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 487-501. | 2.5 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | New Histamine-Related Five-Membered N-Heterocycle Derivatives as Carbonic Anhydrase I Activators. Molecules, 2022, 27, 545. | 1.7 | 2 |
| 20 | Design, synthesis and human carbonic anhydrase I, II, IX and XII inhibitory properties of 1,3-thiazole sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2022, 59, 128581. | 1.0 | 4 |
| 21 | Chagas Disease: Drug Development and Parasite Targets. Topics in Medicinal Chemistry, 2022, , 1. | 0.4 | 5 |
| 22 | Discovery of new carbonic anhydrase IX inhibitors as anticancer agents by toning the hydrophobic and hydrophilic rims of the active site to encounter the dual-tail approach. European Journal of Medicinal Chemistry, 2022, 232, 114190. | 2.6 | 26 |
| 23 | Inhibition studies of bacterial Î±-carbonic anhydrases with phenols. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 666-671. | 2.5 | 18 |
| 24 | Coumarins inhibit Î·-class carbonic anhydrase from Plasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 680-685. | 2.5 | 8 |
| 25 | New Pyridinium Salt Derivatives of 2-(Hydrazinocarbonyl)-3-phenyl-1H-indole-5- sulfonamide as Selective Inhibitors of Tumour-Related Human Carbonic Anhydrase Isoforms IX and XII. Anti-Cancer Agents in Medicinal Chemistry, 2022, 22, 2637-2646. | 0.9 | 6 |
| 26 | Acipimox inhibits human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 672-679. | 2.5 | 5 |
| 27 | Repurposing FDA-approved sulphonamide carbonic anhydrase inhibitors for treatment of Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 51-61. | 2.5 | 26 |
| 28 | 2-Aminobenzoxazole-appended coumarins as potent and selective inhibitors of tumour-associated carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 168-177. | 2.5 | 11 |
| 29 | Antiproliferative effects of sulphonamide carbonic anhydrase inhibitors C18, SLC-0111 and acetazolamide on bladder, glioblastoma and pancreatic cancer cell lines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 280-286. | 2.5 | 26 |
| 30 | Flavonoids as tyrosinase inhibitors in in silico and inÂvitro models: basic framework of SAR using a statistical modelling approach. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 427-436. | 2.5 | 25 |
| 31 | Identification of Novel and Potent Indole-Based Benzenesulfonamides as Selective Human Carbonic Anhydrase II Inhibitors: Design, Synthesis, In Vitro, and In Silico Studies. International Journal of Molecular Sciences, 2022, 23, 2540. | 1.8 | 9 |
| 32 | Synthesis, molecular modelling and QSAR study of new N-phenylacetamide-2-oxoindole benzensulfonamide conjugates as carbonic anhydrase inhibitors with antiproliferative activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 701-717. | 2.5 | 13 |
| 33 | Isocoumarins: a new class of selective carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 743-748. | 2.5 | 13 |
| 34 | Carbonic Anhydrase Inhibitors Featuring a Porphyrin Scaffold: Synthesis, Optical and Biological Properties. European Journal of Organic Chemistry, 2022, 2022, . | 1.2 | 3 |
| 35 | The importance of sulfur-containing motifs in drug design and discovery. Expert Opinion on Drug Discovery, 2022, 17, 501-512. | 2.5 | 60 |
| 36 | Inhibition of Schistosoma mansoni carbonic anhydrase by the antiparasitic drug clorsulon: X-ray crystallographic and in vitro studies. Acta Crystallographica Section D: Structural Biology, 2022, 78, 321-327. | 1.1 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Diversely substituted sulfamides for fragment-based drug discovery of carbonic anhydrase inhibitors: synthesis and inhibitory profile. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 857-865. | 2.5 | 0 |
| 38 | Modulation of Carbonic Anhydrases Activity in the Hippocampus or Prefrontal Cortex Differentially Affects Social Recognition Memory in Rats. Neuroscience, 2022, 497, 184-195. | 1.1 | 12 |
| 39 | Development of Sulfamoylated 4-(1-Phenyl-1H-1,2,3-triazol-4-yl)phenol Derivatives as Potent Steroid Sulfatase Inhibitors for Efficient Treatment of Breast Cancer. Journal of Medicinal Chemistry, 2022, 65, 5044-5056. | 2.9 | 8 |
| 40 | Biological investigation of N-methyl thiosemicarbazones as antimicrobial agents and bacterial carbonic anhydrases inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 986-993. | 2.5 | 13 |
| 41 | 5-(Sulfamoyl)thien-2-yl 1,3-oxazole inhibitors of carbonic anhydrase II with hydrophilic periphery. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1005-1011. | 2.5 | 2 |
| 42 | Selenocarbamates As a Prodrugâ€Based Approach to Carbonic Anhydrase Inhibition. ChemMedChem, 2022, 17, . | 1.6 | 8 |
| 43 | Perspectives on the design and discovery of Î±-ketoamide inhibitors for the treatment of novel coronavirus: where do we stand and where do we go?. Expert Opinion on Drug Discovery, 2022, 17, 547-557. | 2.5 | 5 |
| 44 | The three-tails approach as a new strategy to improve selectivity of action of sulphonamide inhibitors against tumour-associated carbonic anhydrase IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 930-939. | 2.5 | 19 |
| 45 | Pyrazolo[4,3-c]pyridine Sulfonamides as Carbonic Anhydrase Inhibitors: Synthesis, Biological and In Silico Studies. Pharmaceuticals, 2022, 15, 316. | 1.7 | 9 |
| 46 | Perfusion-Based Bioreactor Culture and Isothermal Microcalorimetry for Preclinical Drug Testing with the Carbonic Anhydrase Inhibitor SLC-0111 in Patient-Derived Neuroblastoma. International Journal of Molecular Sciences, 2022, 23, 3128. | 1.8 | 10 |
| 47 | A Series of Thiadiazolylâ€Benzenesulfonamides Incorporating an Aromatic Tail as Isoformâ€Selective, Potent Carbonic Anhydrase II/XII Inhibitors. ChemMedChem, 2022, , e202200056. | 1.6 | 4 |
| 48 | 4-Anilinoquinazoline-based benzenesulfonamides as nanomolar inhibitors of carbonic anhydrase isoforms I, II, IX, and XII: design, synthesis, in-vitro, and in-silico biological studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 994-1004. | 2.5 | 9 |
| 49 | Exploration of 2-phenylquinoline-4-carboxamide linked benzene sulfonamide derivatives as isoform selective inhibitors of transmembrane human carbonic anhydrases. European Journal of Medicinal Chemistry, 2022, 234, 114247. | 2.6 | 7 |
| 50 | Inhibition of carbonic anhydrases IX/XII by SLC-0111 boosts cisplatin effects in hampering head and neck squamous carcinoma cell growth and invasion. Journal of Experimental and Clinical Cancer Research, 2022, 41, 122. | 3.5 | 20 |
| 51 | Small Molecule Alkoxy Oriented Selectiveness on Human Carbonic Anhydrase II and IX Inhibition. ChemMedChem, 2022, 17, . | 1.6 | 3 |
| 52 | Benzoselenoates: A novel class of carbonic anhydrase inhibitors. Bioorganic Chemistry, 2022, 122, 105751. | 2.0 | 2 |
| 53 | Tail-approach based design and synthesis of Arylthiazolylhydrazono-1,2,3-triazoles incorporating sulfanilamide and metanilamide as human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2022, 123, 105764. | 2.0 | 11 |
| 54 | Heterobimetallic complexes containing organometallic acylhydrazone ligands as potential inhibitors of human carbonic anhydrases. Journal of Inorganic Biochemistry, 2022, 232, 111814. | 1.5 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Aromatic Sulfonamides including a Sulfonic Acid Tail: New Membrane Impermeant Carbonic Anhydrase Inhibitors for Targeting Selectively the Cancer-Associated Isoforms. International Journal of Molecular Sciences, 2022, 23, 461. | 1.8 | 12 |
| 56 | Novel 1,3,5-Triazinyl Aminobenzenesulfonamides Incorporating Aminoalcohol, Aminochalcone and Aminostilbene Structural Motifs as Potent Anti-VRE Agents, and Carbonic Anhydrases I, II, VII, IX, and XII Inhibitors. International Journal of Molecular Sciences, 2022, 23, 231. | 1.8 | 5 |
| 57 | One-Pot Procedure for the Synthesis of Asymmetric Substituted Ureido Benzene Sulfonamides as Effective Inhibitors of Carbonic Anhydrase Enzymes. Journal of Medicinal Chemistry, 2022, 65, 824-837. | 2.9 | 8 |
| 58 | Dithiocarbamates effectively inhibit the Î±-carbonic anhydrase from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1-8. | 2.5 | 13 |
| 59 | Ureidosulfocoumarin Derivatives As Selective and Potent Carbonic Anhydrase IX and XII Inhibitors. ChemMedChem, 2022, 17, e202100725. | 1.6 | 6 |
| 60 | Heterologous expression and biochemical characterisation of the recombinant Î²-carbonic anhydrase (MpaCA) from the warm-blooded vertebrate pathogen malassezia pachydermatis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 62-68. | 2.5 | 8 |
| 61 | 1,5â€Benzodiazepines as a platform for the design of carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, 2100405. | 2.1 | 3 |
| 62 | Calixarenes Incorporating Sulfonamide Moieties: Versatile Ligands for Carbonic Anhydrases Inhibition. Chemistry - A European Journal, 2022, 28, . | 1.7 | 3 |
| 63 | Novel 3-(6-methylpyridin-2-yl)coumarin-based chalcones as selective inhibitors of cancer-related carbonic anhydrases IX and XII endowed with anti-proliferative activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1043-1052. | 2.5 | 13 |
| 64 | Design, synthesis, SAR, and biological evaluation of saccharinâ€based hybrids as carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, , e2200019. | 2.1 | 1 |
| 65 | New 1Hâ€indoleâ€2,3â€dione 3â€thiosemicarbazones with 3â€sulfamoylphenyl moiety as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2200023. | 2.1 | 3 |
| 66 | Immobilization of carbonic anhydrase for CO2 capture and utilization. Applied Microbiology and Biotechnology, 2022, 106, 3419-3430. | 1.7 | 13 |
| 67 | The inhibitory effect of boric acid on hypoxia-regulated tumour-associated carbonic anhydrase IX. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1340-1345. | 2.5 | 5 |
| 68 | Development of 4-((3-oxo-3-phenylpropyl)amino)benzenesulfonamide derivatives utilizing tail/dual-tail approaches as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2022, 238, 114412. | 2.6 | 16 |
| 69 | The production and biochemical characterization of Î±-carbonic anhydrase from Lactobacillus rhamnosus GG. Applied Microbiology and Biotechnology, 2022, 106, 4065-4074. | 1.7 | 3 |
| 70 | Synthesis of a new series of quinoline/pyridine indole-3-sulfonamide hybrids as selective carbonic anhydrase IX inhibitors. Bioorganic and Medicinal Chemistry Letters, 2022, 70, 128809. | 1.0 | 7 |
| 71 | 4-(3-Alkyl/benzyl-guanidino)benzenesulfonamides as selective carbonic anhydrase VII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1568-1576. | 2.5 | 15 |
| 72 | Cloning, purification, kinetic and anion inhibition studies of a recombinant Î²-carbonic anhydrase from the Atlantic salmon parasite platyhelminth Gyrodactylus salaris. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1577-1586. | 2.5 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Selective inhibition of carbonic anhydrase IX by sulphonylated 1,2,3-triazole incorporated benzenesulphonamides capable of inducing apoptosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1454-1463. | 2.5 | 8 |
| 74 | Development of Praziquantel sulphonamide derivatives as antischistosomal drugs. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1479-1494. | 2.5 | 5 |
| 75 | Inhibitors of Mitochondrial Human Carbonic Anhydrases VA and VB as a Therapeutic Strategy against Paclitaxel-Induced Neuropathic Pain in Mice. International Journal of Molecular Sciences, 2022, 23, 6229. | 1.8 | 8 |
| 76 | Anticancer carbonic anhydrase inhibitors: a patent and literature update 2018-2022. Expert Opinion on Therapeutic Patents, 2022, 32, 833-847. | 2.4 | 19 |
| 77 | A decade of tail-approach based design of selective as well as potent tumor associated carbonic anhydrase inhibitors. Bioorganic Chemistry, 2022, 126, 105920. | 2.0 | 36 |
| 78 | Insights into the effect of elaborating coumarin-based aryl enaminones with sulfonamide or carboxylic acid functionality on carbonic anhydrase inhibitory potency and selectivity. Bioorganic Chemistry, 2022, 126, 105888. | 2.0 | 12 |
| 79 | A comparative study of carbonic anhydrase activity in lymphocytes from colorectal cancer tissues and adjacent healthy counterparts. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1651-1655. | 2.5 | 8 |
| 80 | Click chemistryâ€based synthesis of new benzenesulfonamide derivatives bearing triazole ring as selective carbonic anhydrase II inhibitors. Drug Development Research, 2022, 83, 1281-1291. | 1.4 | 7 |
| 81 | Synthesis and biological evaluation of sulfonamideâ€based compounds as inhibitors of carbonic anhydrase from Vibrio cholerae. Archiv Der Pharmazie, 2022, 355, . | 2.1 | 3 |
| 82 | Investigation of carbonic anhydrase inhibitory effects and cytotoxicities of pyrazole-based hybrids carrying hydrazone and zinc-binding benzenesulfonamide pharmacophores. Bioorganic Chemistry, 2022, 127, 105969. | 2.0 | 10 |
| 83 | Application of LEDA algorithm for the recognition of P-glycoprotein and Carbonic Anhydrase hybrid inhibitors and evaluation of their plasma stability by HPLC-MS/MS analysis. Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114887. | 1.4 | 3 |
| 84 | Structure-activity relationship studies for inhibitors for vancomycin-resistant Enterococcus and human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1838-1844. | 2.5 | 21 |
| 85 | Continued Structural Exploration of Sulfocoumarin as Selective Inhibitor of Tumor-Associated Human Carbonic Anhydrases IX and XII. Molecules, 2022, 27, 4076. | 1.7 | 4 |
| 86 | Benzenesulfonamides with different rigidity-conferring linkers as carbonic anhydrase inhibitors: an insight into the antiproliferative effect on glioblastoma, pancreatic, and breast cancer cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1857-1869. | 2.5 | 14 |
| 87 | Cancer Therapeutic Targeting of Hypoxia Induced Carbonic Anhydrase IX: From Bench to Bedside. Cancers, 2022, 14, 3297. | 1.7 | 45 |
| 88 | Squaramide-Tethered Sulfonamides and Coumarins: Synthesis, Inhibition of Tumor-Associated CAs IX and XII and Docking Simulations. International Journal of Molecular Sciences, 2022, 23, 7685. | 1.8 | 9 |
| 89 | Sulfonamide diuretic azosemide as an efficient carbonic anhydrase inhibitor. Journal of Molecular Structure, 2022, 1268, 133672. | 1.8 | 6 |
| 90 | Novel 3-substituted coumarins as selective human carbonic anhydrase IX and XII inhibitors: Synthesis, biological and molecular dynamics analysis. European Journal of Medicinal Chemistry, 2021, 209, 112897. | 2.6 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Ninhydrins inhibit carbonic anhydrases directly binding to the metal ion. European Journal of Medicinal Chemistry, 2021, 209, 112875. | 2.6 | 18 |
| 92 | Radiotracers for positron emission tomography (PET) targeting tumour-associated carbonic anhydrase isoforms. European Journal of Medicinal Chemistry, 2021, 213, 113046. | 2.6 | 12 |
| 93 | Response to Perspectives on the Classical Enzyme Carbonic Anhydrase and the Search for Inhibitors. Biophysical Journal, 2021, 120, 178-181. | 0.2 | 16 |
| 94 | Protease inhibitors targeting the main protease and papain-like protease of coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 309-324. | 2.4 | 25 |
| 95 | Activation of carbonic anhydrases from human brain by amino alcohol oxime ethers: towards human carbonic anhydrase VII selective activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 48-57. | 2.5 | 12 |
| 96 | Activation of the Î²-carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 758-763. | 2.5 | 3 |
| 97 | Nanostructures and innovative delivery systems for overcoming cancer resistance. , 2021, , 185-201. | | 0 |
| 98 | Anion inhibition studies of the Î±-carbonic anhydrases from Neisseria gonorrhoeae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1061-1066. | 2.5 | 17 |
| 99 | Dual Carbonic Anhydrase IX/XII Inhibitors and Carbon Monoxide Releasing Molecules Modulate LPS-Mediated Inflammation in Mouse Macrophages. Antioxidants, 2021, 10, 56. | 2.2 | 16 |
| 100 | PEG Linker Length Strongly Affects Tumor Cell Killing by PEGylated Carbonic Anhydrase Inhibitors in Hypoxic Carcinomas Expressing Carbonic Anhydrase IX. International Journal of Molecular Sciences, 2021, 22, 1120. | 1.8 | 8 |
| 101 | Anti-breast cancer action of carbonic anhydrase IX inhibitor 4-[4-(4-Benzo[1,3]dioxol-5-ylmethyl-piperazin-1-yl)-benzylidene-hydrazinocarbonyl]-benzenesulfonamide (BSM-0004): inÂvitro and inÂvivo studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 954-963. | 2.5 | 11 |
| 102 | Zeta-carbonic anhydrases show CS2 hydrolase activity: A new metabolic carbon acquisition pathway in diatoms?. Computational and Structural Biotechnology Journal, 2021, 19, 3427-3436. | 1.9 | 10 |
| 103 | Biochemical profiling of anti-HIV prodrug Elsulfavirine (Elpida<sup>Â®</sup>) and its active form VM1500A against a panel of twelve human carbonic anhydrase isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1056-1060. | 2.5 | 5 |
| 104 | Anion inhibition studies of the Zn(II)-bound Î¹-carbonic anhydrase from the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 372-376. | 2.5 | 19 |
| 105 | Carbonic anhydrase activation profile of indole-based derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1783-1797. | 2.5 | 3 |
| 106 | A Story on Carbon Dioxide and Its Hydration. , 2021, , 115-131. | | 0 |
| 107 | Effect of Sulfonamides and Their Structurally Related Derivatives on the Activity of Î¹-Carbonic Anhydrase from Burkholderia territorii. International Journal of Molecular Sciences, 2021, 22, 571. | 1.8 | 18 |
| 108 | The possible role of methylglyoxal metabolism in cancer. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 2010-2015. | 2.5 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | The crystal structures of 2-(4-benzhydrylpiperazin-1-yl)-N-(4-sulfamoylphenyl)acetamide in complex with human carbonic anhydrase II and VII provide insights into selective CA inhibitor development. New Journal of Chemistry, 2021, 45, 147-152. | 1.4 | 2 |
| 110 | Tetrahydroquinazole-based secondary sulphonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IV, and IX, and computational studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1874-1883. | 2.5 | 4 |
| 111 | Multitargeting approaches involving carbonic anhydrase inhibitors: hybrid drugs against a variety of disorders. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1702-1714. | 2.5 | 32 |
| 112 | Effect of amino acids and amines on the activity of the recombinant Î¹-carbonic anhydrase from the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1000-1006. | 2.5 | 7 |
| 113 | An anion and small molecule inhibition study of the Î²-carbonic anhydrase from Staphylococcus aureus. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1088-1092. | 2.5 | 9 |
| 114 | Is carbonic anhydrase inhibition useful as a complementary therapy of Covid-19 infection?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1230-1235. | 2.5 | 21 |
| 115 | Handling drug-target selectivity: A study on ureido containing Carbonic Anhydrase inhibitors. European Journal of Medicinal Chemistry, 2021, 212, 113035. | 2.6 | 10 |
| 116 | Biological evaluation, radiosensitizing activity and structural insights of novel halogenated quinazoline-sulfonamide conjugates as selective human carbonic anhydrases IX/XII inhibitors. Bioorganic Chemistry, 2021, 107, 104618. | 2.0 | 11 |
| 117 | Coumarinâ€Thiourea Hybrids Show Potent Carbonic Anhydrase IX and XIII Inhibitory Action. ChemMedChem, 2021, 16, 1252-1256. | 1.6 | 14 |
| 118 | Design and synthesis of benzenesulfonamideâ€linked imidazo[2,1â€b][1,3,4]thiadiazole derivatives as carbonic anhydrase I and II inhibitors. Archiv Der Pharmazie, 2021, 354, e2100028. | 2.1 | 7 |
| 119 | Carbonic Anhydrases: New Perspectives on Protein Functional Role and Inhibition in Helicobacter pylori. Frontiers in Microbiology, 2021, 12, 629163. | 1.5 | 42 |
| 120 | Discovery of a novel series of indolylchalcone-benzenesulfonamide hybrids acting as selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2021, 108, 104647. | 2.0 | 11 |
| 121 | Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. European Journal of Medicinal Chemistry, 2021, 214, 113260. | 2.6 | 6 |
| 122 | Structureâ€“Activity Relationship Studies of Acetazolamide-Based Carbonic Anhydrase Inhibitors with Activity against Neisseria gonorrhoeae. ACS Infectious Diseases, 2021, 7, 1969-1984. | 1.8 | 48 |
| 123 | Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. Journal of Medicinal Chemistry, 2021, 64, 3100-3114. | 2.9 | 17 |
| 124 | Coronaviruses. Expert Opinion on Therapeutic Patents, 2021, 31, 291-294. | 2.4 | 7 |
| 125 | Synthesis and Enantioselective Pharmacokinetic/Pharmacodynamic Analysis of New CNS-Active Sulfamoylphenyl Carbamate Derivatives. International Journal of Molecular Sciences, 2021, 22, 3361. | 1.8 | 3 |
| 126 | Development of novel benzofuran-based SLC-0111 analogs as selective cancer-associated carbonic anhydrase isoform IX inhibitors. European Journal of Medicinal Chemistry, 2021, 216, 113283. | 2.6 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | 3-Functionalised benzenesulphonamide based 1,3,4-oxadiazoles as selective carbonic anhydrase XIII inhibitors: Design, synthesis and biological evaluation. Bioorganic and Medicinal Chemistry Letters, 2021, 37, 127856. | 1.0 | 7 |
| 128 | Benzyl alcohol inhibits carbonic anhydrases by anchoring to the zinc coordinated water molecule. Biochemical and Biophysical Research Communications, 2021, 548, 217-221. | 1.0 | 5 |
| 129 | Synthesis and Biological Evaluation of Coumarin-Linked 4-Anilinomethyl-1,2,3-Triazoles as Potent Inhibitors of Carbonic Anhydrases IX and XIII Involved in Tumorigenesis. Metabolites, 2021, 11, 225. | 1.3 | 8 |
| 130 | A Highlight on the Inhibition of Fungal Carbonic Anhydrases as Drug Targets for the Antifungal Armamentarium. International Journal of Molecular Sciences, 2021, 22, 4324. | 1.8 | 26 |
| 131 | Design, synthesis and photoluminescent studies of new 1,5-benzodiazepines derivatives: Towards new ESIPT compounds. Tetrahedron, 2021, 86, 132078. | 1.0 | 6 |
| 132 | Role of Carbonic Anhydrase in Cerebral Ischemia and Carbonic Anhydrase Inhibitors as Putative Protective Agents. International Journal of Molecular Sciences, 2021, 22, 5029. | 1.8 | 10 |
| 133 | The Glitazone Class of Drugs as Carbonic Anhydrase Inhibitorsâ€"A Spin-Off Discovery from Fragment Screening. Molecules, 2021, 26, 3010. | 1.7 | 6 |
| 134 | Advances in the discovery of novel agents for the treatment of glaucoma. Expert Opinion on Drug Discovery, 2021, 16, 1209-1225. | 2.5 | 24 |
| 135 | Emerging role of carbonic anhydrase inhibitors. Clinical Science, 2021, 135, 1233-1249. | 1.8 | 117 |
| 136 | Chromene-Containing Aromatic Sulfonamides with Carbonic Anhydrase Inhibitory Properties. International Journal of Molecular Sciences, 2021, 22, 5082. | 1.8 | 6 |
| 137 | Synthesis of Azasugarâ€"Sulfonamide conjugates and their Evaluation as Inhibitors of Carbonic Anhydrases: the Azasugar Approach to Selectivity. European Journal of Organic Chemistry, 2021, 2021, 2604-2614. | 1.2 | 2 |
| 138 | Synthesis and biological evaluation of novel 4,7-disubstituted coumarins as selective tumor-associated carbonic anhydrase IX and XII inhibitors. Bioorganic and Medicinal Chemistry Letters, 2021, 39, 127877. | 1.0 | 12 |
| 139 | Small-molecule CD73 inhibitors for the immunotherapy of cancer: a patent and literature review (2017â€"present). Expert Opinion on Therapeutic Patents, 2021, 31, 867-876. | 2.4 | 23 |
| 140 | Comprehensive study on potent and selective carbonic anhydrase inhibitors: Synthesis, bioactivities and molecular modelling studies of 4-(3-(2-arylidenehydrazine-1-carbonyl)-5-(thiophen-2-yl)-1H-pyrazole-1-yl) benzenesulfonamides. European Journal of Medicinal Chemistry, 2021, 217, 113351. | 2.6 | 30 |
| 141 | Quinoline-sulfamoyl carbamates/sulfamide derivatives: Synthesis, cytotoxicity, carbonic anhydrase activity, and molecular modelling studies. Bioorganic Chemistry, 2021, 110, 104778. | 2.0 | 6 |
| 142 | Inhibition of Carbonic Anhydrase IX Promotes Apoptosis through Intracellular pH Level Alterations in Cervical Cancer Cells. International Journal of Molecular Sciences, 2021, 22, 6098. | 1.8 | 24 |
| 143 | Identification of N-phenyl-2-(phenylsulfonyl)acetamides/propanamides as new SLC-0111 analogues: Synthesis and evaluation of the carbonic anhydrase inhibitory activities. European Journal of Medicinal Chemistry, 2021, 218, 113360. | 2.6 | 24 |
| 144 | Insertion of metal carbenes into the anilinic Nâ€"H bond of unprotected aminobenzenesulfonamides delivers low nanomolar inhibitors of human carbonic anhydrase IX and XII isoforms. European Journal of Medicinal Chemistry, 2021, 218, 113352. | 2.6 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Taurultams incorporating arylsulfonamide: First inÂvitro inhibition studies of Î±-, Î²- and Î³-class Carbonic Anhydrases from Vibrio cholerae and Burkholderia pseudomallei. European Journal of Medicinal Chemistry, 2021, 219, 113444. | 2.6 | 4 |
| 146 | Synthesis and Human Carbonic Anhydrase I, II, IX, and XII Inhibition Studies of Sulphonamides Incorporating Mono-, Bi- and Tricyclic Imide Moieties. Pharmaceuticals, 2021, 14, 693. | 1.7 | 5 |
| 147 | Structural Insights into Schistosoma mansoni Carbonic Anhydrase (SmCA) Inhibition by Selenoureido-Substituted Benzenesulfonamides. Journal of Medicinal Chemistry, 2021, 64, 10418-10428. | 2.9 | 12 |
| 148 | Synthesis of new 7â€aminoâ€3,4â€dihydroquinolinâ€2(1H)â€oneâ€peptide derivatives and their carbonic anhydrase enzyme inhibition, antioxidant, and cytotoxic activities. Archiv Der Pharmazie, 2021, 354, e2100122. | 2.1 | 7 |
| 149 | Mechanisms of the Antiproliferative and Antitumor Activity of Novel Telomeraseâ€“Carbonic Anhydrase Dual-Hybrid Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 11432-11444. | 2.9 | 5 |
| 150 | Tellurides bearing benzensulfonamide as carbonic anhydrase inhibitors with potent antitumor activity. Bioorganic and Medicinal Chemistry Letters, 2021, 45, 128147. | 1.0 | 7 |
| 151 | Inhibition studies on carbonic anhydrase isoforms I, II, IV and IX with N-arylsubstituted secondary sulfonamides featuring a bicyclic tetrahydroindazole scaffold. European Journal of Medicinal Chemistry, 2021, 220, 113490. | 2.6 | 9 |
| 152 | Design, synthesis and biochemical evaluation of novel carbonic anhydrase inhibitors triggered by structural knowledge on hCA VII. Bioorganic and Medicinal Chemistry, 2021, 44, 116279. | 1.4 | 2 |
| 153 | Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. Angewandte Chemie - International Edition, 2021, 60, 23068-23082. | 7.2 | 17 |
| 154 | Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. Angewandte Chemie, 2021, 133, 23252. | 1.6 | 1 |
| 155 | New Sulfanilamide Derivatives Incorporating Heterocyclic Carboxamide Moieties as Carbonic Anhydrase Inhibitors. Pharmaceuticals, 2021, 14, 828. | 1.7 | 11 |
| 156 | Genome-wide synthetic lethal screen unveils novel CAIX-NFS1/xCT axis as a targetable vulnerability in hypoxic solid tumors. Science Advances, 2021, 7, . | 4.7 | 65 |
| 157 | Quantum mechanical study on the activation mechanism of human carbonic anhydrase VII cluster model with bis-histamine schiff bases and bis-spinaceamine derivatives. Bioorganic and Medicinal Chemistry, 2021, 44, 116276. | 1.4 | 5 |
| 158 | Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. European Journal of Medicinal Chemistry, 2021, 226, 113875. | 2.6 | 15 |
| 159 | Determination of intracellular proteinâ€“ligand binding affinity by competition binding in-cell NMR. Acta Crystallographica Section D: Structural Biology, 2021, 77, 1270-1281. | 1.1 | 14 |
| 160 | 4â€Sulfamoylphenylalkylamides as Inhibitors of Carbonic Anhydrases Expressed in Vibrio cholerae. ChemMedChem, 2021, 16, 3787-3794. | 1.6 | 5 |
| 161 | Synthesis, Crystal Structure, Inhibitory Activity and Molecular Docking of Coumarins/Sulfonamides Containing Triazolyl Pyridine Moiety as Potent Selective Carbonic Anhydrase IX and XII Inhibitors. Crystals, 2021, 11, 1076. | 1.0 | 12 |
| 162 | Novel triazole-sulfonamide bearing pyrimidine moieties with carbonic anhydrase inhibitory action: Design, synthesis, computational and enzyme inhibition studies. Bioorganic and Medicinal Chemistry Letters, 2021, 48, 128249. | 1.0 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Carbonic Anhydrase IV Selective Inhibitors Counteract the Development of Colitis-Associated Visceral Pain in Rats. Cells, 2021, 10, 2540. | 1.8 | 3 |
| 164 | QM and QM/MM study on inhibition mechanism of polyphenolic compounds as non-classical inhibitors of Î±-human carbonic anhydrase (II). Theoretical Chemistry Accounts, 2021, 140, 1. | 0.5 | 1 |
| 165 | Deciphering the key heterocyclic scaffolds in targeting microtubules, kinases and carbonic anhydrases for cancer drug development. , 2021, 225, 107860. | | 36 |
| 166 | Novel carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2021, 13, 1935-1937. | 1.1 | 37 |
| 167 | Novel benzenesulfonamides aryl and arylsulfone conjugates adopting tail/dual tail approaches: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. European Journal of Medicinal Chemistry, 2021, 221, 113486. | 2.6 | 19 |
| 168 | Privileged scaffolds in medicinal chemistry: Studies on pyrazolo[1,5-a]pyrimidines on sulfonamide containing Carbonic Anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2021, 49, 128309. | 1.0 | 4 |
| 169 | Bacterial carbonic anhydrases: underexploited antibacterial therapeutic targets. Future Medicinal Chemistry, 2021, 13, 1619-1622. | 1.1 | 25 |
| 170 | Investigation of 3-sulfamoyl coumarins against cancer-related IX and XII isoforms of human carbonic anhydrase as well as cancer cells leads to the discovery of 2-oxo-2H-benzo[h]chromene-3-sulfonamide â€“ A new caspase-activating proapoptotic agent. European Journal of Medicinal Chemistry, 2021, 222, 113589. | 2.6 | 16 |
| 171 | Exploring of tumor-associated carbonic anhydrase isoenzyme IX and XII inhibitory effects and cytotoxicities of the novel N-aryl-1-(4-sulfamoylphenyl)-5-(thiophen-2-yl)-1H-pyrazole-3-carboxamides. Bioorganic Chemistry, 2021, 115, 105194. | 2.0 | 15 |
| 172 | Natural inspired piperine-based sulfonamides and carboxylic acids as carbonic anhydrase inhibitors: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2021, 225, 113800. | 2.6 | 18 |
| 173 | Chalcogenides-incorporating carbonic anhydrase inhibitors concomitantly reverted oxaliplatin-induced neuropathy and enhanced antiproliferative action. European Journal of Medicinal Chemistry, 2021, 225, 113793. | 2.6 | 23 |
| 174 | Design, synthesis, and biological evaluation of selective hCA IX inhibitors. , 2021, , 63-78. | | 0 |
| 175 | Small molecules and monoclonal antibodies as selective hCA XII inhibitors: An update. , 2021, , 79-94. | | 0 |
| 176 | CO2 permeability of the rat erythrocyte membrane and its inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1602-1606. | 2.5 | 1 |
| 177 | Evaluating the efficiency of enzyme accelerated CO2 capture: chemical kinetics modelling for interpreting measurement results. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 394-401. | 2.5 | 2 |
| 178 | Selective inhibition of carbonic anhydrase IX and XII by coumarin and psoralen derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 685-692. | 2.5 | 18 |
| 179 | Inhibition of Î±-, Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae with aromatic sulphonamides and clinically licenced drugs â€“ a joint docking/molecular dynamics study. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 469-479. | 2.5 | 14 |
| 180 | Natural products in drug discovery: advances and opportunities. Nature Reviews Drug Discovery, 2021, 20, 200-216. | 21.5 | 1,990 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Activation of carbonic anhydrase isoforms involved in modulation of emotional memory and cognitive disorders with histamine agonists, antagonists and derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 719-726. | 2.5 | 21 |
| 182 | Discovery of potent nucleotide pyrophosphatase/phosphodiesterase3 (NPP3) inhibitors with ancillary carbonic anhydrase inhibition for cancer (immuno)therapy. RSC Medicinal Chemistry, 2021, 12, 1187-1206. | 1.7 | 5 |
| 183 | Dietary inclusion of royal jelly modulates gene expression and activity of oxidative stress enzymes in zebrafish. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 885-894. | 2.5 | 12 |
| 184 | Protective effects of carbonic anhydrase inhibition in brain ischaemia in vitro and in vivo models. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 964-976. | 2.5 | 10 |
| 185 | An overview on the recently discovered iota-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1988-1995. | 2.5 | 60 |
| 186 | Reconsidering anion inhibitors in the general context of drug design studies of modulators of activity of the classical enzyme carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 561-580. | 2.5 | 81 |
| 187 | Inhibition of the Î²-carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 330-335. | 2.5 | 4 |
| 188 | Vanillin enones as selective inhibitors of the cancer associated carbonic anhydrase isoforms IX and XII. The out of the active site pocket for the design of selective inhibitors?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 2118-2127. | 2.5 | 1 |
| 189 | Development of Novel Quinoline-Based Sulfonamides as Selective Cancer-Associated Carbonic Anhydrase Isoform IX Inhibitors. International Journal of Molecular Sciences, 2021, 22, 11119. | 1.8 | 14 |
| 190 | Synthesis and Inhibition Activity Study of Triazinyl-Substituted Amino(alkyl)-benzenesulfonamide Conjugates with Polar and Hydrophobic Amino Acids as Inhibitors of Human Carbonic Anhydrases I, II, IV, IX, and XII. International Journal of Molecular Sciences, 2021, 22, 11283. | 1.8 | 1 |
| 191 | Selective Inhibition of Helicobacter pylori Carbonic Anhydrases by Carvacrol and Thymol Could Impair Biofilm Production and the Release of Outer Membrane Vesicles. International Journal of Molecular Sciences, 2021, 22, 11583. | 1.8 | 35 |
| 192 | Carbonic Anhydrase Inhibitors: Identifying Therapeutic Cancer Agents Through Virtual Screening. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2021, , 237-252. | 0.6 | 0 |
| 193 | Carbonic Anhydrase Inhibition with Sulfonamides Incorporating Pyrazole- and Pyridazinecarboxamide Moieties Provides Examples of Isoform-Selective Inhibitors. Molecules, 2021, 26, 7023. | 1.7 | 9 |
| 194 | Inhibitory Effects of Sulfonamide Derivatives on the Î²-Carbonic Anhydrase (MpaCA) from Malassezia pachydermatis, a Commensal, Pathogenic Fungus Present in Domestic Animals. International Journal of Molecular Sciences, 2021, 22, 12601. | 1.8 | 3 |
| 195 | A Novel Class of Dual-Acting DCH-CORMs Counteracts Oxidative Stress-Induced Inflammation in Human Primary Tenocytes. Antioxidants, 2021, 10, 1828. | 2.2 | 5 |
| 196 | Pharmacological inhibition of Carbonic Anhydrase IX and XII to enhance targeting of acute myeloid leukaemia cells under hypoxic conditions. Journal of Cellular and Molecular Medicine, 2021, 25, 11039-11052. | 1.6 | 7 |
| 197 | Glyco-Coated CdSe/ZnS Quantum Dots as Nanoprobes for Carbonic Anhydrase IX Imaging in Cancer Cells. ACS Applied Nano Materials, 2021, 4, 14153-14160. | 2.4 | 11 |
| 198 | Microbiota, Bacterial Carbonic Anhydrases, and Modulators of Their Activity: Links to Human Diseases?. Mediators of Inflammation, 2021, 2021, 1-13. | 1.4 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Development of a New LC-MS/MS Screening Method for Detection of 120 NPS and 43 Drugs in Blood. Separations, 2021, 8, 221. | 1.1 | 11 |
| 200 | Beta-Carbonic Anhydrase 1 from Trichomonas Vaginalis as New Antiprotozoan Drug Target. Topics in Medicinal Chemistry, 2021, , 1. | 0.4 | 0 |
| 201 | Î·-Class Carbonic Anhydrases as Antiplasmodial Drug Targets: Current State of the Art and Hurdles to Develop New Antimalarials. Topics in Medicinal Chemistry, 2021, , 1. | 0.4 | 0 |
| 202 | Targeting Carbonic Anhydrases from Trypanosoma cruzi and Leishmania spp. as a Therapeutic Strategy to Obtain New Antiprotozoal Drugs. Topics in Medicinal Chemistry, 2021, , 1. | 0.4 | 1 |
| 203 | Carbonic Anhydrase IX Inhibitors as Candidates for Combination Therapy of Solid Tumors. International Journal of Molecular Sciences, 2021, 22, 13405. | 1.8 | 22 |
| 204 | Amine- and Amino Acid-Based Compounds as Carbonic Anhydrase Activators. Molecules, 2021, 26, 7331. | 1.7 | 9 |
| 205 | Carbonic anhydrase inhibitors: an update on experimental agents for the treatment and imaging of hypoxic tumors. Expert Opinion on Investigational Drugs, 2021, 30, 1197-1208. | 1.9 | 61 |
| 206 | Challenges and Promises for Obtaining New Antiprotozoal Drugs: Whatâ€™s Going Wrong?. Topics in Medicinal Chemistry, 2021, , 321-329. | 0.4 | 3 |
| 207 | A structure-based approach towards the identification of novel antichagasic compounds: Trypanosoma cruzi carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 21-30. | 2.5 | 13 |
| 208 | Discovery of New 1,1â€²-Biphenyl-4-sulfonamides as Selective Subnanomolar Human Carbonic Anhydrase II Inhibitors. ACS Medicinal Chemistry Letters, 2020, 11, 633-637. | 1.3 | 2 |
| 209 | Design, synthesis, inÂvitro inhibition and toxicological evaluation of human carbonic anhydrases I, II and IX inhibitors in 5-nitroimidazole series. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 109-117. | 2.5 | 20 |
| 210 | Phosphonamidates are the first phosphorus-based zinc binding motif to show inhibition of Î²-class carbonic anhydrases from bacteria, fungi, and protozoa. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 59-64. | 2.5 | 11 |
| 211 | Direct and straightforward access to substituted alkyl selenols as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111811. | 2.6 | 28 |
| 212 | Synthesis, biological and molecular dynamics investigations with a series of triazolopyrimidine/triazole-based benzenesulfonamides as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111843. | 2.6 | 38 |
| 213 | Bioisosteric Development of Multitarget Nonsteroidal Anti-Inflammatory Drugâ€“Carbonic Anhydrases Inhibitor Hybrids for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2020, 63, 2325-2342. | 2.9 | 26 |
| 214 | Why hasnâ€™t there been more progress in new Chagas disease drug discovery?. Expert Opinion on Drug Discovery, 2020, 15, 145-158. | 2.5 | 44 |
| 215 | Inhibition survey with phenolic compounds against the Î±- and Î·-class carbonic anhydrases from the marine diatom thalassiosira weissflogii and protozoan Plasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 377-382. | 2.5 | 8 |
| 216 | Synthesis and human carbonic anhydrase I, II, VA, and XII inhibition with novel amino acidâ€“sulphonamide conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 489-497. | 2.5 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Sulphonamides incorporating 1,3,5-triazine structural motifs show antioxidant, acetylcholinesterase, butyrylcholinesterase, and tyrosinase inhibitory profile. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 424-431. | 2.5 | 26 |
| 218 | Sulfonamide-based ring-fused analogues for CAN508 as novel carbonic anhydrase inhibitors endowed with antitumor activity: Design, synthesis, and inÂvitro biological evaluation. European Journal of Medicinal Chemistry, 2020, 189, 112019. | 2.6 | 42 |
| 219 | Synthesis and selective inhibitory effects of some 2-oxindole benzenesulfonamide conjugates on human carbonic anhydrase isoforms CA I, CA II, CA IX and CAXII. Bioorganic Chemistry, 2020, 95, 103514. | 2.0 | 16 |
| 220 | Benzimidazole derivatives as potent and isoform selective tumor-associated carbonic anhydrase IX/XII inhibitors. Bioorganic Chemistry, 2020, 95, 103544. | 2.0 | 13 |
| 221 | Pyrrolo and pyrrolopyrimidine sulfonamides act as cytotoxic agents in hypoxia via inhibition of transmembrane carbonic anhydrases. European Journal of Medicinal Chemistry, 2020, 188, 112021. | 2.6 | 23 |
| 222 | In vitro inhibition of Mycobacterium tuberculosis Î²-carbonic anhydrase 3 with Mono- and dithiocarbamates and evaluation of their toxicity using zebrafish developing embryos. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 65-71. | 2.5 | 14 |
| 223 | Development of a cheminformatics platform for selectivity analyses of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 365-371. | 2.5 | 11 |
| 224 | A potentiated cooperation of carbonic anhydrase IX and histone deacetylase inhibitors against cancer. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 391-397. | 2.5 | 19 |
| 225 | Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopesâ€“6. Molecules, 2020, 25, 119. | 1.7 | 8 |
| 226 | Carbonic anhydrase IX as a novel candidate in liquid biopsy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 255-260. | 2.5 | 21 |
| 227 | Screening of benzenesulfonamide in combination with chemically diverse fragments against carbonic anhydrase by differential scanning fluorimetry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 306-310. | 2.5 | 5 |
| 228 | Further validation of strecker-type Î±-aminonitriles as a new class of potent human carbonic anhydrase II inhibitors: hit expansion within the public domain using differential scanning fluorimetry leads to chemotype refinement. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 165-171. | 2.5 | 4 |
| 229 | Novel benzofuran-based sulphonamides as selective carbonic anhydrases IX and XII inhibitors: synthesis and inÂvitro biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 298-305. | 2.5 | 16 |
| 230 | 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 |
| 231 | 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 |
| 232 | â€œA Sweet Combinationâ€: Developing Saccharin and Acesulfame K Structures for Selectively Targeting the Tumor-Associated Carbonic Anhydrases IX and XII. Journal of Medicinal Chemistry, 2020, 63, 321-333. | 2.9 | 27 |
| 233 | Aryl derivatives of 3H-1,2-benzoxathiepine 2,2-dioxide as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 245-254. | 2.5 | 15 |
| 234 | Plasmatic exosomes from prostate cancer patients show increased carbonic anhydrase IX expression and activity and low pH. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 280-288. | 2.5 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Benzothiazole derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 265-279. | 2.5 | 140 |
| 236 | Sulfonamide/sulfamate switch with a series of piperazinylureido derivatives: Synthesis, kinetic and in silico evaluation as carbonic anhydrase isoforms I, II, IV, and IX inhibitors. European Journal of Medicinal Chemistry, 2020, 186, 111896. | 2.6 | 15 |
| 237 | Effects of New NSAID-CAI Hybrid Compounds in Inflammation and Lung Fibrosis. Biomolecules, 2020, 10, 1307. | 1.8 | 11 |
| 238 | Synthesis of nitrogen, phosphorus, selenium and sulfur-containing heterocyclic compounds â€“ Determination of their carbonic anhydrase, acetylcholinesterase, butyrylcholinesterase and Î±-glycosidase inhibition properties. Bioorganic Chemistry, 2020, 103, 104171. | 2.0 | 64 |
| 239 | Synthesis and biological evaluation of some coumarin hybrids as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2020, 104, 104272. | 2.0 | 26 |
| 240 | 3-Methylthiazolo[3,2-a]benzimidazole-benzenesulfonamide conjugates as novel carbonic anhydrase inhibitors endowed with anticancer activity: Design, synthesis, biological and molecular modeling studies. European Journal of Medicinal Chemistry, 2020, 207, 112745. | 2.6 | 45 |
| 241 | Intracellular Binding/Unbinding Kinetics of Approved Drugs to Carbonic Anhydrase II Observed by in-Cell NMR. ACS Chemical Biology, 2020, 15, 2792-2800. | 1.6 | 23 |
| 242 | Structural Basis of Nanomolar Inhibition of Tumor-Associated Carbonic Anhydrase IX: X-Ray Crystallographic and Inhibition Study of Lipophilic Inhibitors with Acetazolamide Backbone. Journal of Medicinal Chemistry, 2020, 63, 13064-13075. | 2.9 | 26 |
| 243 | Inhibition of the newly discovered Î²â€˜carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with inorganic anions and small molecules. Journal of Inorganic Biochemistry, 2020, 213, 111274. | 1.5 | 10 |
| 244 | Pyridinium derivatives of 3-aminobenzenesulfonamide are nanomolar-potent inhibitors of tumor-expressed carbonic anhydrase isozymes CA IX and CA XII. Bioorganic Chemistry, 2020, 103, 104204. | 2.0 | 24 |
| 245 | Unconventional amino acids in medicinal chemistry: First report on taurine merged within carbonic anhydrase inhibitors. Bioorganic Chemistry, 2020, 103, 104236. | 2.0 | 7 |
| 246 | Sulphonamide inhibition profile of Staphylococcus aureus Î²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1834-1839. | 2.5 | 15 |
| 247 | Novel insights on saccharin- and acesulfame-based carbonic anhydrase inhibitors: design, synthesis, modelling investigations and biological activity evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1891-1905. | 2.5 | 14 |
| 248 | Progress in the development of human carbonic anhydraseÂinhibitors and their pharmacological applications: Where are we today?. Medicinal Research Reviews, 2020, 40, 2485-2565. | 5.0 | 154 |
| 249 | Activation studies of the Î²-carbonic anhydrases from Escherichia coli with amino acids and amines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1379-1386. | 2.5 | 10 |
| 250 | Human carbonic anhydrases and post-translational modifications: a hidden world possibly affecting protein properties and functions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1450-1461. | 2.5 | 19 |
| 251 | A Novel Inhibitor of Carbonic Anhydrases Prevents Hypoxia-Induced TNBC Cell Plasticity. International Journal of Molecular Sciences, 2020, 21, 8405. | 1.8 | 14 |
| 252 | Chagas Disease: Perspectives on the Past and Present and Challenges in Drug Discovery. Molecules, 2020, 25, 5483. | 1.7 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Nontargeted Identification of Plasma Proteins O-, N-, and S-Transmethylated by O-Methyl Organophosphates. Analytical Chemistry, 2020, 92, 15420-15428. | 3.2 | 7 |
| 254 | Inhibitory activity against carbonic anhydrase IX and XII as a candidate selection criterion in the development of new anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1555-1561. | 2.5 | 25 |
| 255 | Inclusion of a 5-fluorouracil moiety in nitrogenous bases derivatives as human carbonic anhydrase IX and XII inhibitors produced a targeted action against MDA-MB-231 and T47D breast cancer cells. European Journal of Medicinal Chemistry, 2020, 190, 112112. | 2.6 | 46 |
| 256 | Synthesis, Computational Studies and Assessment of in Vitro Activity of Squalene Derivatives as Carbonic Anhydrase Inhibitors. ChemMedChem, 2020, 15, 2052-2057. | 1.6 | 4 |
| 257 | Coumarin carbonic anhydrase inhibitors from natural sources. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1462-1470. | 2.5 | 56 |
| 258 | A measurement system for the evaluation of efficiency of enzyme accelerated CO2 capture systems based on modeling. , 2020, , . | | 1 |
| 259 | Investigation of pesticides on honey bee carbonic anhydrase inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1923-1927. | 2.5 | 9 |
| 260 | Native mass spectrometry of human carbonic anhydrase I and its inhibitor complexes. Journal of Biological Inorganic Chemistry, 2020, 25, 979-993. | 1.1 | 5 |
| 261 | Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. Metabolites, 2020, 10, 412. | 1.3 | 116 |
| 262 | In Silico-Guided Identification of New Potent Inhibitors of Carbonic Anhydrases Expressed in Vibrio cholerae. ACS Medicinal Chemistry Letters, 2020, 11, 2294-2299. | 1.3 | 8 |
| 263 | Catechols: a new class of carbonic anhydrase inhibitors. Chemical Communications, 2020, 56, 13033-13036. | 2.2 | 20 |
| 264 | Benzylaminoethylureidoâ€Tailed Benzenesulfonamides Show Potent Inhibitory Activity against Bacterial Carbonic Anhydrases. ChemMedChem, 2020, 15, 2444-2447. | 1.6 | 7 |
| 265 | Toxicity evaluation of sulfamides and coumarins that efficiently inhibit human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1765-1772. | 2.5 | 10 |
| 266 | Escherichia coli Î³-carbonic anhydrase: characterisation and effects of simple aromatic/heterocyclic sulphonamide inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1545-1554. | 2.5 | 25 |
| 267 | Benzoxaboroles: New Potent Inhibitors of the Carbonic Anhydrases of the Pathogenic Bacterium Vibrio cholerae. ACS Medicinal Chemistry Letters, 2020, 11, 2277-2284. | 1.3 | 25 |
| 268 | Antibacterial carbonic anhydrase inhibitors: an update on the recent literature. Expert Opinion on Therapeutic Patents, 2020, 30, 963-982. | 2.4 | 66 |
| 269 | In Silico Identification and Biological Evaluation of Antioxidant Food Components Endowed with Human Carbonic Anhydrase IX and XII Inhibition. Antioxidants, 2020, 9, 775. | 2.2 | 5 |
| 270 | Carbonic Anhydrases: Versatile and Useful Biocatalysts in Chemistry and Biochemistry. Catalysts, 2020, 10, 1008. | 1.6 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | N-aryl-Nâ€²-ureido-O-sulfamates as potent and selective inhibitors of hCA VB over hCA VA: Deciphering the binding mode of new potential agents in mitochondrial dysfunctions. Bioorganic Chemistry, 2020, 100, 103896. | 2.0 | 8 |
| 272 | Phenyl(thio)phosphon(amid)ate Benzenesulfonamides as Potent and Selective Inhibitors of Human Carbonic Anhydrases II and VII Counteract Allodynia in a Mouse Model of Oxaliplatin-Induced Neuropathy. Journal of Medicinal Chemistry, 2020, 63, 5185-5200. | 2.9 | 16 |
| 273 | Bacterial Î¹-carbonic anhydrase: a new active class of carbonic anhydrase identified in the genome of the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1060-1068. | 2.5 | 76 |
| 274 | Design, Synthesis, and Biological Evaluation of 1,2,3-Triazole-linked triazino[5,6-b]indole-benzene sulfonamide Conjugates as Potent Carbonic Anhydrase I, II, IX, and XIII Inhibitors. Metabolites, 2020, 10, 200. | 1.3 | 9 |
| 275 | Use of an immobilised thermostable Î±-CA (SspCA) for enhancing the metabolic efficiency of the freshwater green microalga Chlorella sorokiniana. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 913-920. | 2.5 | 11 |
| 276 | Hypoxia-Activated Prodrug Derivatives of Carbonic Anhydrase Inhibitors in Benzenesulfonamide Series: Synthesis and Biological Evaluation. Molecules, 2020, 25, 2347. | 1.7 | 8 |
| 277 | Novel Indole-Based Hydrazones as Potent Inhibitors of the Î±-class Carbonic Anhydrase from Pathogenic Bacterium Vibrio cholerae. International Journal of Molecular Sciences, 2020, 21, 3131. | 1.8 | 3 |
| 278 | The Carbonic Anhydrase IX inhibitor SLC-0111 as emerging agent against the mesenchymal stem cell-derived pro-survival effects on melanoma cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1185-1193. | 2.5 | 23 |
| 279 | Effect of Carbonic Anhydrase IX inhibitors on human endothelial cell survival. Pharmacological Research, 2020, 159, 104964. | 3.1 | 9 |
| 280 | Synthesis of calix[4]azacrown substituted sulphonamides with antioxidant, acetylcholinesterase, butyrylcholinesterase, tyrosinase and carbonic anhydrase inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1215-1223. | 2.5 | 23 |
| 281 | Development of oxathiino[6,5-b]pyridine 2,2-dioxide derivatives as selective inhibitors of tumor-related carbonic anhydrases IX and XII. European Journal of Medicinal Chemistry, 2020, 200, 112300. | 2.6 | 18 |
| 282 | Iodoquinazolinones bearing benzenesulfonamide as human carbonic anhydrase I, II, IX and XII inhibitors: Synthesis, biological evaluation and radiosensitizing activity. European Journal of Medicinal Chemistry, 2020, 200, 112449. | 2.6 | 11 |
| 283 | Synthesis and carbonic anhydrase activating properties of a series of 2-amino-imidazolines structurally related to clonidine<sup>1</sup>. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1003-1010. | 2.5 | 6 |
| 284 | Carbonic anhydrase modulation of emotional memory. Implications for the treatment of cognitive disorders. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1206-1214. | 2.5 | 46 |
| 285 | Crystal Structure of a Tetrameric Type II Î²-Carbonic Anhydrase from the Pathogenic Bacterium Burkholderia pseudomallei. Molecules, 2020, 25, 2269. | 1.7 | 10 |
| 286 | Prognostic value of CAIX expression in oral squamous cell carcinoma: a systematic review and meta-analysis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1258-1266. | 2.5 | 12 |
| 287 | Azidothymidine â€œClickedâ€•into 1,2,3-Triazoles: First Report on Carbonic Anhydraseâ€“Telomerase Dual-Hybrid Inhibitors. Journal of Medicinal Chemistry, 2020, 63, 7392-7409. | 2.9 | 29 |
| 288 | Sulfonamide Inhibitors of Human Carbonic Anhydrases Designed through a Three-Tails Approach: Improving Ligand/Isoform Matching and Selectivity of Action. Journal of Medicinal Chemistry, 2020, 63, 7422-7444. | 2.9 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | The Effect of Substituted Benzene-Sulfonamides and Clinically Licensed Drugs on the Catalytic Activity of CynT2, a Carbonic Anhydrase Crucial for Escherichia coli Life Cycle. International Journal of Molecular Sciences, 2020, 21, 4175. | 1.8 | 18 |
| 290 | 2-Mercaptobenzoxazoles: a class of carbonic anhydrase inhibitors with a novel binding mode to the enzyme active site. Chemical Communications, 2020, 56, 8297-8300. | 2.2 | 6 |
| 291 | The role of carbonic anhydrases in extinction of contextual fear memory. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16000-16008. | 3.3 | 33 |
| 292 | New coumarin/sulfocoumarin linked phenylacrylamides as selective transmembrane carbonic anhydrase inhibitors: Synthesis and in-vitro biological evaluation. Bioorganic and Medicinal Chemistry, 2020, 28, 115586. | 1.4 | 14 |
| 293 | Synthetic Strategies and Computational Inhibition Activity Study for Triazinyl-Substituted Benzenesulfonamide Conjugates with Polar and Hydrophobic Amino Acids as Inhibitors of Carbonic Anhydrases. International Journal of Molecular Sciences, 2020, 21, 3661. | 1.8 | 8 |
| 294 | Biochemical and structural characterisation of a protozoan beta-carbonic anhydrase from Trichomonas vaginalis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1292-1299. | 2.5 | 19 |
| 295 | 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. European Journal of Medicinal Chemistry, 2020, 201, 112478. | 2.6 | 9 |
| 296 | An update on drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 297-307. | 1.5 | 32 |
| 297 | S-substituted 2-mercaptoquinazolin-4(3H)-one and 4-ethylbenzensulfonamides act as potent and selective human carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 733-743. | 2.5 | 20 |
| 298 | Appliance of the piperidinyl-hydrazidoureido linker to benzenesulfonamide compounds: Synthesis, in vitro and in silico evaluation of potent carbonic anhydrase II, IX and XII inhibitors. Bioorganic Chemistry, 2020, 98, 103728. | 2.0 | 15 |
| 299 | Activation Effects of Carnosine- and Histidine-Containing Dipeptides on Human Carbonic Anhydrases: A Comprehensive Study. International Journal of Molecular Sciences, 2020, 21, 1761. | 1.8 | 15 |
| 300 | Anion Inhibition Studies of the Î²-Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete Sordaria macrospora. Metabolites, 2020, 10, 93. | 1.3 | 6 |
| 301 | Tail approach synthesis of novel benzenesulfonamides incorporating 1,3,4-oxadiazole hybrids as potent inhibitor of carbonic anhydrase I, II, IX, and XII isoenzymes. European Journal of Medicinal Chemistry, 2020, 193, 112219. | 2.6 | 26 |
| 302 | Combining carbonic anhydrase and thioredoxin reductase inhibitory motifs within a single molecule dramatically increases its cytotoxicity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 665-671. | 2.5 | 20 |
| 303 | Design, synthesis and biological evaluation of coumarin linked 1,2,4-oxadiazoles as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2020, 98, 103739. | 2.0 | 21 |
| 304 | Sulfonamide Inhibition Studies of an Î±-Carbonic Anhydrase from Schistosoma mansoni, a Platyhelminth Parasite Responsible for Schistosomiasis. International Journal of Molecular Sciences, 2020, 21, 1842. | 1.8 | 21 |
| 305 | Benzofuran-Based Carboxylic Acids as Carbonic Anhydrase Inhibitors and Antiproliferative Agents against Breast Cancer. ACS Medicinal Chemistry Letters, 2020, 11, 1022-1027. | 1.3 | 42 |
| 306 | Exploring the multiple binding modes of inhibitors to carbonic anhydrases for novel drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 671-686. | 2.5 | 94 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Tellurides Bearing Sulfonamides as Novel Inhibitors of Leishmanial Carbonic Anhydrase with Potent Antileishmanial Activity. Journal of Medicinal Chemistry, 2020, 63, 4306-4314. | 2.9 | 28 |
| 308 | Glycomimetic Based Approach toward Selective Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2020, 11, 727-731. | 1.3 | 12 |
| 309 | Selenolesterase enzyme activity of carbonic anhydrases. Chemical Communications, 2020, 56, 4444-4447. | 2.2 | 25 |
| 310 | Looking toward the Rim of the Active Site Cavity of Druggable Human Carbonic Anhydrase Isoforms. ACS Medicinal Chemistry Letters, 2020, 11, 1000-1005. | 1.3 | 6 |
| 311 | Anion Inhibition Studies of the Beta-Carbonic Anhydrase from Escherichia coli. Molecules, 2020, 25, 2564. | 1.7 | 17 |
| 312 | Synthesis, computational studies and assessment of inÂvitro inhibitory activity of umbelliferon-based compounds against tumour-associated carbonic anhydrase isoforms IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1442-1449. | 2.5 | 6 |
| 313 | A Phase 1 Study of SLC-0111, a Novel Inhibitor of Carbonic Anhydrase IX, in Patients With Advanced Solid Tumors. American Journal of Clinical Oncology: Cancer Clinical Trials, 2020, 43, 484-490. | 0.6 | 141 |
| 314 | Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopesâ€“7. Molecules, 2020, 25, 2968. | 1.7 | 5 |
| 315 | Structural and biochemical characterization of novel carbonic anhydrases fromPhaeodactylum tricornutum. Acta Crystallographica Section D: Structural Biology, 2020, 76, 676-686. | 1.1 | 10 |
| 316 | Discovery of Potent Dual-Tailed Benzenesulfonamide Inhibitors of Human Carbonic Anhydrases Implicated in Glaucoma and in Vivo Profiling of Their Intraocular Pressure-Lowering Action. Journal of Medicinal Chemistry, 2020, 63, 3317-3326. | 2.9 | 33 |
| 317 | Perfluoroalkyl Substances of Significant Environmental Concern Can Strongly Inhibit Human Carbonic Anhydrase Isozymes. Analytical Chemistry, 2020, 92, 4614-4622. | 3.2 | 28 |
| 318 | 7-Acylamino-3H-1,2-benzoxathiepine 2,2-dioxides as new isoform-selective carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 650-656. | 2.5 | 14 |
| 319 | X-ray crystallography of Epacadostat in adduct with Carbonic Anhydrase IX. Bioorganic Chemistry, 2020, 97, 103669. | 2.0 | 6 |
| 320 | New Dihydrothiazole Benzensulfonamides: Looking for Selectivity toward Carbonic Anhydrase Isoforms I, II, IX, and XII. ACS Medicinal Chemistry Letters, 2020, 11, 852-856. | 1.3 | 6 |
| 321 | Sulfonamide Inhibition Studies of the Î²-Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete Sordaria macrospora. Molecules, 2020, 25, 1036. | 1.7 | 4 |
| 322 | Bioorganometallic derivatives of 4-hydrazino-benzenesulphonamide as carbonic anhydrase inhibitors: synthesis, characterisation and biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 622-628. | 2.5 | 9 |
| 323 | Sulfocoumarins as dual inhibitors of human carbonic anhydrase isoforms IX/XII and of human thioredoxin reductase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 506-510. | 2.5 | 32 |
| 324 | 1,3-Dipolar Cycloaddition, HPLC Enantioseparation, and Docking Studies of Saccharin/Isoxazole and Saccharin/Isoxazoline Derivatives as Selective Carbonic Anhydrase IX and XII Inhibitors. Journal of Medicinal Chemistry, 2020, 63, 2470-2488. | 2.9 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | A class of carbonic anhydrase IX/XII â€“ selective carboxylate inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 549-554. | 2.5 | 7 |
| 326 | Evaluation of Thio- and Seleno-Acetamides Bearing Benzenesulfonamide as Inhibitor of Carbonic Anhydrases from Different Pathogenic Bacteria. International Journal of Molecular Sciences, 2020, 21, 598. | 1.8 | 15 |
| 327 | Coumarins fromMagydaris pastinaceaas inhibitors of the tumour-associated carbonic anhydrases IX and XII: isolation, biological studies and in silico evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 539-548. | 2.5 | 23 |
| 328 | Synthesis of some N-aroyl-2-oxindole benzenesulfonamide conjugates with carbonic anhydrase inhibitory activity. Bioorganic Chemistry, 2020, 96, 103635. | 2.0 | 15 |
| 329 | New thiopyrimidine-benzenesulfonamide conjugates as selective carbonic anhydrase II inhibitors: synthesis, in vitro biological evaluation, and molecular docking studies. Bioorganic and Medicinal Chemistry, 2020, 28, 115329. | 1.4 | 18 |
| 330 | Exploring structure-activity relationship of S-substituted 2-mercaptoquinazolin-4(3H)-one including 4-ethylbenzenesulfonamides as human carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 598-609. | 2.5 | 12 |
| 331 | Sulfonamide Inhibition Profile of the Î²-Carbonic Anhydrase from Malassezia restricta, An Opportunistic Pathogen Triggering Scalp Conditions. Metabolites, 2020, 10, 39. | 1.3 | 18 |
| 332 | Pharmacological Inhibition of CA-IX Impairs Tumor Cell Proliferation, Migration and Invasiveness. International Journal of Molecular Sciences, 2020, 21, 2983. | 1.8 | 25 |
| 333 | Benzylaminoethyureido-Tailed Benzenesulfonamides: Design, Synthesis, Kinetic and X-ray Investigations on Human Carbonic Anhydrases. International Journal of Molecular Sciences, 2020, 21, 2560. | 1.8 | 17 |
| 334 | Synthesis and carbonic anhydrase inhibition studies of sulfonamide based indole-1,2,3-triazole chalcone hybrids. Bioorganic Chemistry, 2020, 99, 103839. | 2.0 | 34 |
| 335 | 1,2,4-Triazole-based anticonvulsant agents with additional ROS scavenging activity are effective in a model of pharmacoresistant epilepsy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 993-1002. | 2.5 | 33 |
| 336 | 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. International Journal of Molecular Sciences, 2020, 21, 2621. | 1.8 | 5 |
| 337 | Dual P-Glycoprotein and CA XII Inhibitors: A New Strategy to Reverse the P-gp Mediated Multidrug Resistance (MDR) in Cancer Cells. Molecules, 2020, 25, 1748. | 1.7 | 30 |
| 338 | Development of Thiazolidinones as Fungal Carbonic Anhydrase Inhibitors. International Journal of Molecular Sciences, 2020, 21, 2960. | 1.8 | 15 |
| 339 | A deadly spillover: SARS-CoV-2 outbreak. Expert Opinion on Therapeutic Patents, 2020, 30, 481-485. | 2.4 | 29 |
| 340 | Activation studies of the Î²-carbonic anhydrases from Malassezia restricta with amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 824-830. | 2.5 | 4 |
| 341 | Benzoxepinones: A new isoform-selective class of tumor associated carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2020, 28, 115496. | 1.4 | 25 |
| 342 | Synthesis, characterisation, biological evaluation andin silicostudies of sulphonamide Schiff bases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 950-962. | 2.5 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Preparation, carbonic anhydrase enzyme inhibition and antioxidant activity of novel 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives incorporating mono or dipeptide moiety. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1021-1026. | 2.5 | 6 |
| 344 | The antibiotic furagin and its derivatives are isoform-selective human carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1011-1020. | 2.5 | 27 |
| 345 | Antibacterial activity of ethoxzolamide against Helicobacter pylori strains SS1 and 26695. Gut Pathogens, 2020, 12, 20. | 1.6 | 29 |
| 346 | Synthesis and Biological Evaluation of Imidazo[2,1-b]Thiazole based Sulfonyl Piperazines as Novel Carbonic Anhydrase II Inhibitors. Metabolites, 2020, 10, 136. | 1.3 | 14 |
| 347 | Drug Screening in Human Cells by NMR Spectroscopy Allows the Early Assessment of Drug Potency. Angewandte Chemie, 2020, 132, 6597-6601. | 1.6 | 6 |
| 348 | Drug Screening in Human Cells by NMR Spectroscopy Allows the Early Assessment of Drug Potency. Angewandte Chemie - International Edition, 2020, 59, 6535-6539. | 7.2 | 44 |
| 349 | Expanding the anticancer potential of 1,2,3-triazoles via simultaneously targeting Cyclooxygenase-2, 15-lipoxygenase and tumor-associated carbonic anhydrases. European Journal of Medicinal Chemistry, 2020, 200, 112439. | 2.6 | 40 |
| 350 | <p>Experimental Carbonic Anhydrase Inhibitors for the Treatment of Hypoxic Tumors</p>. Journal of Experimental Pharmacology, 2020, Volume 12, 603-617. | 1.5 | 74 |
| 351 | A Simple Yet Multifaceted Enzyme. Revista De Chimie (discontinued), 2020, 71, 1-16. | 0.2 | 3 |
| 352 | A novel acidification mechanism for greatly enhanced oxygen supply to the fish retina. ELife, 2020, 9, . | 2.8 | 27 |
| 353 | Phosphorus versus Sulfur: Discovery of Benzenephosphonamidates as Versatile Sulfonamideâ€Mimic Chemotypes Acting as Carbonic Anhydrase Inhibitors. Chemistry - A European Journal, 2019, 25, 1188-1192. | 1.7 | 59 |
| 354 | Carbonic anhydrase inhibitors based on sorafenib scaffold: Design, synthesis, crystallographic investigation and effects on primary breast cancer cells. European Journal of Medicinal Chemistry, 2019, 182, 111600. | 2.6 | 33 |
| 355 | Synthesis and inÂvitro evaluation of piperazinyl-ureido sulfamates as steroid sulfatase inhibitors. European Journal of Medicinal Chemistry, 2019, 182, 111614. | 2.6 | 11 |
| 356 | Design, synthesis and biological activity of selective hCAs inhibitors based on 2-(benzylsulfinyl)benzoic acid scaffold. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1400-1413. | 2.5 | 24 |
| 357 | Synthesis and biological evaluation of novel 3-(quinolin-4-ylamino)benzenesulfonamides as carbonic anhydrase isoforms I and II inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1457-1464. | 2.5 | 24 |
| 358 | Advances in the structural annotation of human carbonic anhydrases and impact on future drug discovery. Expert Opinion on Drug Discovery, 2019, 14, 1175-1197. | 2.5 | 123 |
| 359 | Carbonic anhydrase inhibitors as diuretics. , 2019, , 287-309. | | 0 |
| 360 | Carbonic anhydrase inhibitors for the treatment of tumors. , 2019, , 331-365. | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Carbonic anhydrases from pathogens. , 2019, , 387-417. | | 2 |
| 362 | Carbonic anhydrases from pathogens. , 2019, , 419-448. | | 1 |
| 363 | Carbonic anhydrase activators and their potential in the pharmaceutical field. , 2019, , 477-492. | | 0 |
| 364 | Mechanism of action of carbonic anhydrase inhibitors. , 2019, , 245-255. | | 1 |
| 365 | Biotechnologic applications of carbonic anhydrases from extremophiles. , 2019, , 495-514. | | 0 |
| 366 | New anthranilic acid-incorporating N-benzenesulfonamidophthalimides as potent inhibitors of carbonic anhydrases I, II, IX, and XII: Synthesis, inÂvitro testing, and in silico assessment. European Journal of Medicinal Chemistry, 2019, 181, 111573. | 2.6 | 14 |
| 367 | Synthesis of novel tellurides bearing benzensulfonamide moiety as carbonic anhydrase inhibitors with antitumor activity. European Journal of Medicinal Chemistry, 2019, 181, 111586. | 2.6 | 25 |
| 368 | Structure-activity relationship with pyrazoline-based aromatic sulfamates as carbonic anhydrase isoforms I, II, IX and XII inhibitors: Synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2019, 182, 111638. | 2.6 | 24 |
| 369 | Sulfonamides incorporating piperazine bioisosteres as potent human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2019, 91, 103130. | 2.0 | 12 |
| 370 | Bis-benzoxaboroles: Design, Synthesis, and Biological Evaluation as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 1205-1210. | 1.3 | 19 |
| 371 | Synthesis and Evaluation of Carbonic Anhydrase Inhibitors with Carbon Monoxide Releasing Properties for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2019, 62, 7233-7249. | 2.9 | 39 |
| 372 | Anion Inhibition Profile of the Î²-Carbonic Anhydrase from the Opportunist Pathogenic Fungus Malassezia Restricta Involved in Dandruff and Seborrheic Dermatitis. Metabolites, 2019, 9, 147. | 1.3 | 11 |
| 373 | The first activation study of the Î²-carbonic anhydrases from the pathogenic bacteriaBrucella suisandFrancisella tularensiswith amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1178-1185. | 2.5 | 7 |
| 374 | A computer-assisted discovery of novel potential anti-obesity compounds as selective carbonic anhydrase VA inhibitors. European Journal of Medicinal Chemistry, 2019, 181, 111565. | 2.6 | 23 |
| 375 | Carbonic anhydrase inhibitors for the treatment of neuropathic pain and arthritis. , 2019, , 367-386. | | 2 |
| 376 | Regulation of pH by Carbonic Anhydrase 9 Mediates Survival of Pancreatic Cancer Cells With Activated KRAS in Response to Hypoxia. Gastroenterology, 2019, 157, 823-837. | 0.6 | 153 |
| 377 | Î´-Carbonic anhydrases. , 2019, , 107-129. | | 1 |
| 378 | Human carbonic anhydrases. , 2019, , 151-185. | | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Mechanisms of action of carbonic anhydrase inhibitors. , 2019, , 223-243. | | 0 |
| 380 | 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 |
| 381 | 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 |
| 382 | Synthesis, biological evaluation and in silico studies with 4-benzylidene-2-phenyl-5(4H)-imidazolone-based benzenesulfonamides as novel selective carbonic anhydrase IX inhibitors endowed with anticancer activity. Bioorganic Chemistry, 2019, 90, 103102. | 2.0 | 21 |
| 383 | An efficient method for the synthesis of novel derivatives 4-{5-[4-(4-amino-5-mercapto-4H-[1,2,4]triazol-3-yl)-phenyl]-3-trifluoromethyl-pyrazol-1-yl}-benzenesulfonamide and their anti-inflammatory potential. Bioorganic Chemistry, 2019, 91, 103110. | 2.0 | 12 |
| 384 | Mycobacterium tuberculosis Î²-Carbonic Anhydrases: Novel Targets for Developing Antituberculosis Drugs. International Journal of Molecular Sciences, 2019, 20, 5153. | 1.8 | 28 |
| 385 | Personalized Treatment Response Assessment for Rare Childhood Tumors Using Microcalorimetryâ€“Exemplified by Use of Carbonic Anhydrase IX and Aquaporin 1 Inhibitors. International Journal of Molecular Sciences, 2019, 20, 4984. | 1.8 | 14 |
| 386 | Pseudomonas aeruginosa Î²-carbonic anhydrase, psCA1, is required for calcium deposition and contributes to virulence. Cell Calcium, 2019, 84, 102080. | 1.1 | 26 |
| 387 | 3-Hydrazinoisatin-based benzenesulfonamides as novel carbonic anhydrase inhibitors endowed with anticancer activity: Synthesis, inÂvitro biological evaluation and in silico insights. European Journal of Medicinal Chemistry, 2019, 184, 111768. | 2.6 | 49 |
| 388 | Extending the Inhibition Profiles of Coumarin-Based Compounds Against Human Carbonic Anhydrases: Synthesis, Biological, and In Silico Evaluation. Molecules, 2019, 24, 3580. | 1.7 | 6 |
| 389 | Carbonic anhydrase inhibition and the management of glaucoma: a literature and patent review 2013-2019. Expert Opinion on Therapeutic Patents, 2019, 29, 781-792. | 2.4 | 60 |
| 390 | Spirocyclic sulfonamides with carbonic anhydrase inhibitory and anti-neuropathic pain activity. Bioorganic Chemistry, 2019, 92, 103210. | 2.0 | 11 |
| 391 | Extending the Î³-class carbonic anhydrases inhibition profiles with phenolic compounds. Bioorganic Chemistry, 2019, 93, 103336. | 2.0 | 13 |
| 392 | Carbonic anhydrases. , 2019, , 3-16. | | 13 |
| 393 | Carbonic anhydrase inhibitors for the treatment of epilepsy and obesity. , 2019, , 311-329. | | 5 |
| 394 | Multivalent Carbonic Anhydrases Inhibitors. International Journal of Molecular Sciences, 2019, 20, 5352. | 1.8 | 21 |
| 395 | Biochemical and Structural Insights into Carbonic Anhydrase XII/Fab6A10 Complex. Journal of Molecular Biology, 2019, 431, 4910-4921. | 2.0 | 23 |
| 396 | From random to rational: A discovery approach to selective subnanomolar inhibitors of human carbonic anhydrase IV based on the Castagnoli-Cushman multicomponent reaction. European Journal of Medicinal Chemistry, 2019, 182, 111642. | 2.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | Prostaglandin receptor agonists as antiglaucoma agents (a patent review 2013 â€“ 2018). Expert Opinion on Therapeutic Patents, 2019, 29, 793-803. | 2.4 | 25 |
| 398 | Treatment of glaucoma and ocular hypertension using rho kinase inhibitors: patent evaluation of US2018244666 and US2018256595. Expert Opinion on Therapeutic Patents, 2019, 29, 753-759. | 2.4 | 3 |
| 399 | Seeking new approach for therapeutic treatment of cholera disease via inhibition of bacterial carbonic anhydrases: experimental and theoretical studies for sixteen benzenesulfonamide derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1186-1192. | 2.5 | 9 |
| 400 | Exploration of the residues modulating the catalytic features of human carbonic anhydrase XIII by a site-specific mutagenesis approach. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1506-1510. | 2.5 | 7 |
| 401 | Highly hydrophilic 1,3-oxazol-5-yl benzenesulfonamide inhibitors of carbonic anhydrase II for reduction of glaucoma-related intraocular pressure. Bioorganic and Medicinal Chemistry, 2019, 27, 115086. | 1.4 | 10 |
| 402 | Novel method of treating macular degeneration: a patent evaluation (WO2018/107005). Expert Opinion on Therapeutic Patents, 2019, 29, 749-752. | 2.4 | 4 |
| 403 | Adrenergic agonists and antagonists as antiglaucoma agents: a literature and patent review (2013â€“2019). Expert Opinion on Therapeutic Patents, 2019, 29, 805-815. | 2.4 | 21 |
| 404 | Synthesis and comparative carbonic anhydrase inhibition of new Schiffâ€™s bases incorporating benzenesulfonamide, methanesulfonamide, and methylsulfonylbenzene scaffolds. Bioorganic Chemistry, 2019, 92, 103225. | 2.0 | 15 |
| 405 | Crystal structure and chemical inhibition of essential schistosome host-interactive virulence factor carbonic anhydrase SmCA. Communications Biology, 2019, 2, 333. | 2.0 | 30 |
| 406 | Synthesis, biological evaluation and in silico modelling studies of 1,3,5-trisubstituted pyrazoles carrying benzenesulfonamide as potential anticancer agents and selective cancer-associated hCA IX isoenzyme inhibitors. Bioorganic Chemistry, 2019, 92, 103222. | 2.0 | 34 |
| 407 | Anti-Helicobacter pylori activity of ethoxzolamide. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1660-1667. | 2.5 | 41 |
| 408 | Novel 2-substituted-benzimidazole-6-sulfonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IX and XII and molecular docking studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1697-1710. | 2.5 | 28 |
| 409 | Continued exploration and tail approach synthesis of benzenesulfonamides containing triazole and dual triazole moieties as carbonic anhydrase I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2019, 183, 111698. | 2.6 | 38 |
| 410 | Diagnostic markers for glaucoma: a patent and literature review (2013-2019). Expert Opinion on Therapeutic Patents, 2019, 29, 829-839. | 2.4 | 18 |
| 411 | 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. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1526-1533. | 2.5 | 9 |
| 412 | 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. Bioorganic and Medicinal Chemistry, 2019, 27, 115090. | 1.4 | 13 |
| 413 | Synthesis of coumarin-sulfonamide derivatives and determination of their cytotoxicity, carbonic anhydrase inhibitory and molecular docking studies. European Journal of Medicinal Chemistry, 2019, 183, 111702. | 2.6 | 59 |
| 414 | The management of glaucoma and macular degeneration. Expert Opinion on Therapeutic Patents, 2019, 29, 745-747. | 2.4 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 415 | Rho-kinase inhibitors in the management of glaucoma. Expert Opinion on Therapeutic Patents, 2019, 29, 817-827. | 2.4 | 32 |
| 416 | A New Kid on the Block? Carbonic Anhydrases as Possible New Targets in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2019, 20, 4724. | 1.8 | 61 |
| 417 | Synthesis, cytotoxicities, and carbonic anhydrase inhibition potential of 6-(3-aryl-2-propenoyl)-2(3H)-benzoxazolones. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1722-1729. | 2.5 | 19 |
| 418 | Agents for the prevention and treatment of age-related macular degeneration and macular edema: a literature and patent review. Expert Opinion on Therapeutic Patents, 2019, 29, 761-767. | 2.4 | 40 |
| 419 | Activation of Î±-, Î²-, Î³- Î´-, Î¶- and Î·- class of carbonic anhydrases with amines and amino acids: a review. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1652-1659. | 2.5 | 43 |
| 420 | Î±-Carbonic anhydrases are strongly activated by spinaceamine derivatives. Bioorganic and Medicinal Chemistry, 2019, 27, 800-804. | 1.4 | 23 |
| 421 | Inhibition of acetylcholinesterase and butyrylcholinesterase with uracil derivatives: kinetic and computational studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 429-437. | 2.5 | 76 |
| 422 | Organoruthenium(II) complexes of acetazolamide potently inhibit human carbonic anhydrase isoforms I, II, IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 388-393. | 2.5 | 18 |
| 423 | Phaeodactylum tricornutum as a model organism for testing the membrane penetrability of sulphonamide carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 510-518. | 2.5 | 17 |
| 424 | Click-tailed benzenesulfonamides as potent bacterial carbonic anhydrase inhibitors for targeting Mycobacterium tuberculosis and Vibrio cholerae. Bioorganic Chemistry, 2019, 86, 183-186. | 2.0 | 15 |
| 425 | A novel small molecule that kills a subset of MLL-rearranged leukemia cells by inducing mitochondrial dysfunction. Oncogene, 2019, 38, 3824-3842. | 2.6 | 17 |
| 426 | Novel approaches for designing drugs that interfere with pH regulation. Expert Opinion on Drug Discovery, 2019, 14, 231-248. | 2.5 | 35 |
| 427 | Discovery of new organoselenium compounds as antileishmanial agents. Bioorganic Chemistry, 2019, 86, 339-345. | 2.0 | 39 |
| 428 | Design, synthesis and biological evaluation of coumarin-3-carboxamides as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2019, 86, 386-392. | 2.0 | 29 |
| 429 | Benzenesulfonamides incorporating nitrogenous bases show effective inhibition of Î²-carbonic anhydrases from the pathogenic fungi Cryptococcus neoformans, Candida glabrata and Malassezia globosa. Bioorganic Chemistry, 2019, 86, 39-43. | 2.0 | 8 |
| 430 | Selenols: a new class of carbonic anhydrase inhibitors. Chemical Communications, 2019, 55, 648-651. | 2.2 | 56 |
| 431 | Novel Diamide-Based Benzenesulfonamides as Selective Carbonic Anhydrase IX Inhibitors Endowed with Antitumor Activity: Synthesis, Biological Evaluation and In Silico Insights. International Journal of Molecular Sciences, 2019, 20, 2484. | 1.8 | 21 |
| 432 | Appraisal of anti-protozoan activity of nitroaromatic benzenesulfonamides inhibiting carbonic anhydrases fromTrypanosoma cruziandLeishmania donovani. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1164-1171. | 2.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 433 | Synthesis and biological evaluation of novel 8-substituted quinoline-2-carboxamides as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1172-1177. | 2.5 | 17 |
| 434 | Synthesis of a new series of 3-functionalised-1-phenyl-1,2,3-triazole sulfamoylbenzamides as carbonic anhydrase I, II, IV and IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1199-1209. | 2.5 | 16 |
| 435 | Activation of human Î±-carbonic anhydrase isoforms I, II, IV and VII with bis-histamine schiff bases and bis-spinaceamine substituted derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1193-1198. | 2.5 | 22 |
| 436 | Stereoselective pharmacokinetic and pharmacodynamic analysis of a CNS-active sulphamoylphenyl carbamate derivative. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1078-1082. | 2.5 | 7 |
| 437 | N-aryl-Nâ€™-ureido-O-sulfamates: Potent and selective inhibitors of the human Carbonic Anhydrase VII isoform with neuropathic pain relieving properties. Bioorganic Chemistry, 2019, 89, 103033. | 2.0 | 15 |
| 438 | New phenolic Mannich bases with piperazines and their bioactivities. Bioorganic Chemistry, 2019, 90, 103057. | 2.0 | 45 |
| 439 | Leishmania infantum arginase: biochemical characterization and inhibition by naturally occurring phenolic substances. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1100-1109. | 2.5 | 28 |
| 440 | Benzensulfonamides bearing spyrohydantoin moieties act as potent inhibitors of human carbonic anhydrases II and VII and show neuropathic pain attenuating effects. European Journal of Medicinal Chemistry, 2019, 177, 188-197. | 2.6 | 25 |
| 441 | Cloning, Purification, and Characterization of a Î²-Carbonic Anhydrase from Malassezia restricta, an Opportunistic Pathogen Involved in Dandruff and Seborrheic Dermatitis. International Journal of Molecular Sciences, 2019, 20, 2447. | 1.8 | 22 |
| 442 | Î²3-Adrenoreceptor Activity Limits Apigenin Efficacy in Ewing Sarcoma Cells: A Dual Approach to Prevent Cell Survival. International Journal of Molecular Sciences, 2019, 20, 2149. | 1.8 | 9 |
| 443 | Syntesis of thio- and seleno-acetamides bearing benzenesulfonamide as potent inhibitors of human carbonic anhydrase II and XII. Bioorganic Chemistry, 2019, 89, 102984. | 2.0 | 14 |
| 444 | Indole-Based Hydrazones Containing A Sulfonamide Moiety as Selective Inhibitors of Tumor-Associated Human Carbonic Anhydrase Isoforms IX and XII. International Journal of Molecular Sciences, 2019, 20, 2354. | 1.8 | 22 |
| 445 | A non-catalytic function of carbonic anhydrase IX contributes to the glycolytic phenotype and pH regulation in human breast cancer cells. Biochemical Journal, 2019, 476, 1497-1513. | 1.7 | 26 |
| 446 | Fibrate-basedN-acylsulphonamides targeting carbonic anhydrases: synthesis, biochemical evaluation, and docking studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1051-1061. | 2.5 | 13 |
| 447 | Pain Relieving Effect of-NSAIDs-CAIs Hybrid Molecules: Systemic and Intra-Articular Treatments against Rheumatoid Arthritis. International Journal of Molecular Sciences, 2019, 20, 1923. | 1.8 | 25 |
| 448 | Polypharmacology of epacadostat: a potent and selective inhibitor of the tumor associated carbonic anhydrases IX and XII. Chemical Communications, 2019, 55, 5720-5723. | 2.2 | 18 |
| 449 | Extrinsic acidosis suppresses glycolysis and migration while increasing network formation in pulmonary microvascular endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L188-L201. | 1.3 | 15 |
| 450 | Thermostability enhancement of the Î±-carbonic anhydrase fromSulfurihydrogenibium yellowstonenseby using the anchoring-and-self-labelling-protein-tagsystem (ASL<sup>tag</sup>). Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 946-954. | 2.5 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 451 | 5-Arylisothiazol-3(2H)-one-1,(1)-(di)oxides: A new class of selective tumor-associated carbonic anhydrases (hCA IX and XII) inhibitors. European Journal of Medicinal Chemistry, 2019, 175, 40-48. | 2.6 | 13 |
| 452 | Activation Studies of the Î³-Carbonic Anhydrases from the Antarctic Marine Bacteria Pseudoalteromonas haloplanktis and Colwellia psychrerythraea with Amino Acids and Amines. Marine Drugs, 2019, 17, 238. | 2.2 | 9 |
| 453 | Carbonic Anhydrase Inhibitorâ€"NO Donor Hybrids and Their Pharmacological Applications. , 2019, , 229-242. | | 6 |
| 454 | Synthesis of benzensulfonamides linked to quinazoline scaffolds as novel carbonic anhydrase inhibitors. Bioorganic Chemistry, 2019, 87, 78-90. | 2.0 | 36 |
| 455 | Synthesis, biological activity and multiscale molecular modeling studies of bis-coumarins as selective carbonic anhydrase IX and XII inhibitors with effective cytotoxicity against hepatocellular carcinoma. Bioorganic Chemistry, 2019, 87, 838-850. | 2.0 | 49 |
| 456 | Design, synthesis, and carbonic anhydrase inhibition activity of benzenesulfonamide-linked novel pyrazoline derivatives. Bioorganic Chemistry, 2019, 87, 425-431. | 2.0 | 31 |
| 457 | Novel Re(I) tricarbonyl coordination compounds based on 2-pyridyl-1,2,3-triazole derivatives bearing a 4-amino-substituted benzenesulfonamide arm: synthesis, crystal structure, computational studies and inhibitory activity against carbonic anhydrase I, II, and IX isoformsâ€. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 773-782. | 2.5 | 15 |
| 458 | Comparison of the Sulfonamide Inhibition Profiles of the Î±-Carbonic Anhydrase Isoforms (SpiCA1,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Drugs, 2019, 17, 146. | 2.2 | 5 |
| 459 | Novel 2-indolinones containing a sulfonamide moiety as selective inhibitors of candida Î²-carbonic anhydrase enzyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 528-531. | 2.5 | 13 |
| 460 | Novel 8-Substituted Coumarins That Selectively Inhibit Human Carbonic Anhydrase IX and XII. International Journal of Molecular Sciences, 2019, 20, 1208. | 1.8 | 23 |
| 461 | Carbonic Anhydrase XII Inhibitors Overcome Temozolomide Resistance in Glioblastoma. Journal of Medicinal Chemistry, 2019, 62, 4174-4192. | 2.9 | 26 |
| 462 | Sulfur, selenium and tellurium containing amines act as effective carbonic anhydrase activators. Bioorganic Chemistry, 2019, 87, 516-522. | 2.0 | 40 |
| 463 | Novel synthesized SLC-0111 thiazole and thiadiazole analogues: Determination of their carbonic anhydrase inhibitory activity and molecular modeling studies. Bioorganic Chemistry, 2019, 87, 794-802. | 2.0 | 46 |
| 464 | Synthesis and biological evaluation of coumarin-1,3,4-oxadiazole hybrids as selective carbonic anhydrase IX and XII inhibitors. Bioorganic Chemistry, 2019, 87, 765-772. | 2.0 | 38 |
| 465 | The Possible Role of Helicobacter pylori in Gastric Cancer and Its Management. Frontiers in Oncology, 2019, 9, 75. | 1.3 | 64 |
| 466 | Activation Studies of the Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica with Amino Acids and Amines. Metabolites, 2019, 9, 26. | 1.3 | 9 |
| 467 | An AGT-based protein-tag system for the labelling and surface immobilization of enzymes on E. coli outer membrane. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 490-499. | 2.5 | 14 |
| 468 | Carbonic Anhydrase Inhibitors of Different Structures Dilate Pre-Contracted Porcine Retinal Arteries. International Journal of Molecular Sciences, 2019, 20, 467. | 1.8 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 469 | Pyridazinone-substituted benzenesulfonamides display potent inhibition of membrane-bound human carbonic anhydrase IX and promising antiproliferative activity against cancer cell lines. European Journal of Medicinal Chemistry, 2019, 168, 301-314. | 2.6 | 24 |
| 470 | The management of diabetes mellitus-imperative role of natural products against dipeptidyl peptidase-4, Î±-glucosidase and sodium-dependent glucose co-transporter 2 (SGLT2). Bioorganic Chemistry, 2019, 86, 305-315. | 2.0 | 67 |
| 471 | Indole derivatives as multifunctional drugs: Synthesis and evaluation of antioxidant, photoprotective and antiproliferative activity of indole hydrazones. Bioorganic Chemistry, 2019, 85, 568-576. | 2.0 | 83 |
| 472 | Evaluation of the anticancer potential of a sulphonamide carbonic anhydrase IX inhibitor on cervical cancer cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 703-711. | 2.5 | 20 |
| 473 | Discovery of new ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as carbonic anhydrase I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 1588-1594. | 1.4 | 47 |
| 474 | Î±,Î³-Diketocarboxylic Acids and Their Esters Act as Carbonic Anhydrase IX and XII Selective Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 661-665. | 1.3 | 18 |
| 475 | Inhibition of Î±-, Î²-, Î³-, Î´- and Î¶-class carbonic anhydrases from bacteria, fungi, algae, diatoms and protozoans with famotidine. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 644-650. | 2.5 | 40 |
| 476 | Continued exploration of 1,2,4-oxadiazole periphery for carbonic anhydrase-targeting primary arene sulfonamides: Discovery of subnanomolar inhibitors of membrane-bound hCA IX isoform that selectively kill cancer cells in hypoxic environment. European Journal of Medicinal Chemistry, 2019, 164, 92-105. | 2.6 | 52 |
| 477 | Inhibition of bacterial Î±-, Î²- and Î³-class carbonic anhydrases with selenazoles incorporating benzenesulfonamide moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 244-249. | 2.5 | 17 |
| 478 | Comparison of blood carbonic anhydrase activity of athletes performing interval and continuous running exercise at high altitude. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 218-223. | 2.5 | 7 |
| 479 | Synthesis carbonic anhydrase enzyme inhibition and antioxidant activity of novel benzothiazole derivatives incorporating glycine, methionine, alanine, and phenylalanine moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 343-349. | 2.5 | 20 |
| 480 | Synthesis and bioactivities of pyrazoline benzensulfonamides as carbonic anhydrase and acetylcholinesterase inhibitors with low cytotoxicity. Bioorganic Chemistry, 2019, 84, 511-517. | 2.0 | 108 |
| 481 | SLC-0111 enaminone analogs, 3/4-(3-aryl-3-oxopropenyl) aminobenzenesulfonamides, as novel selective subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform IX. Bioorganic Chemistry, 2019, 83, 549-558. | 2.0 | 53 |
| 482 | Synthesis and anti-inflammatory activity of sulfonamides and carboxylates incorporating trimellitimides: Dual cyclooxygenase/carbonic anhydrase inhibitory actions. Bioorganic Chemistry, 2019, 84, 260-268. | 2.0 | 56 |
| 483 | Identification and characterization of the Î±-CA in the outer membrane vesicles produced byHelicobacter pylori. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 189-195. | 2.5 | 38 |
| 484 | Synthesis of novel benzenesulfonamide bearing 1,2,3-triazole linked hydroxy-trifluoromethylpyrazolines and hydrazones as selective carbonic anhydrase isoforms IX and XII inhibitors. Bioorganic Chemistry, 2019, 85, 198-208. | 2.0 | 36 |
| 485 | Prostate cancer cells and exosomes in acidic condition show increased carbonic anhydrase IX expression and activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 272-278. | 2.5 | 59 |
| 486 | (Hetero)aryl substituted thiazol-2,4-yl scaffold as human carbonic anhydrase I, II, VII and XIV activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 224-229. | 2.5 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 487 | Nanoscale Ion Emitters in Native Mass Spectrometry for Measuring Ligandâ€“Protein Binding Affinities. ACS Central Science, 2019, 5, 308-318. | 5.3 | 84 |
| 488 | New sulfonamides containing organometallic-acylhydrazones: synthesis, characterisation and biological evaluation as inhibitors of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 451-458. | 2.5 | 11 |
| 489 | 4-Substituted benzenesulfonamides featuring cyclic imides moieties exhibit potent and isoform-selective carbonic anhydrase II/IX inhibition. Bioorganic Chemistry, 2019, 83, 198-204. | 2.0 | 23 |
| 490 | Assessment of the antiproliferative and apoptotic roles of sulfonamide carbonic anhydrase IX inhibitors in HeLa cancer cell line. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 75-86. | 2.5 | 25 |
| 491 | The carbonic anhydrase IX inhibitor SLC-0111 sensitises cancer cells to conventional chemotherapy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 117-123. | 2.5 | 74 |
| 492 | Synthesis and carbonic anhydrase inhibitory properties of novel 4-(2-aminoethyl)benzenesulfonamide-dipeptide conjugates. Bioorganic Chemistry, 2019, 83, 414-423. | 2.0 | 24 |
| 493 | Enhancement of the tail hydrophobic interactions within the carbonic anhydrase IX active site via structural extension: Design and synthesis of novel N-substituted isatins-SLC-0111 hybrids as carbonic anhydrase inhibitors and antitumor agents. European Journal of Medicinal Chemistry, 2019, 162, 147-160. | 2.6 | 81 |
| 494 | Synthesis and cytotoxic activities of novel copper and silver complexes of 1,3-diaryltriazene-substituted sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 110-116. | 2.5 | 24 |
| 495 | Exploring structural properties of potent human carbonic anhydrase inhibitors bearing a 4-(cycloalkylamino-1-carbonyl)benzenesulfonamide moiety. European Journal of Medicinal Chemistry, 2019, 163, 443-452. | 2.6 | 31 |
| 496 | N-Nitrosulfonamides as Carbonic Anhydrase Inhibitors: A Promising Chemotype for Targeting Chagas Disease and Leishmaniasis. ACS Medicinal Chemistry Letters, 2019, 10, 413-418. | 1.3 | 21 |
| 497 | 3-Aminobenzenesulfonamides incorporating acylthiourea moieties selectively inhibit the tumor-associated carbonic anhydrase isoform IX over the off-target isoforms I, II and IV. Bioorganic Chemistry, 2019, 82, 123-128. | 2.0 | 8 |
| 498 | 1,2,4-Trisubstituted imidazolinones with dual carbonic anhydrase and p38 mitogen-activated protein kinase inhibitory activity. Bioorganic Chemistry, 2019, 82, 109-116. | 2.0 | 13 |
| 499 | Design, synthesis and biological evaluation of novel ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as potent carbonic anhydrase IX inhibitors. Bioorganic Chemistry, 2019, 82, 117-122. | 2.0 | 44 |
| 500 | Investigation of inhibitory properties of some hydrazone compounds on hCA I, hCA II and AChE enzymes. Bioorganic Chemistry, 2019, 86, 316-321. | 2.0 | 117 |
| 501 | Exploring benzoxaborole derivatives as carbonic anhydrase inhibitors: a structural and computational analysis reveals their conformational variability as a tool to increase enzyme selectivity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1498-1505. | 2.5 | 7 |
| 502 | Are Carbonic Anhydrases Suitable Targets to Fight Protozoan Parasitic Diseases?. Current Medicinal Chemistry, 2019, 25, 5266-5278. | 1.2 | 25 |
| 503 | State of the Art on Carbonic Anhydrase Modulators for Biomedical Purposes. Current Medicinal Chemistry, 2019, 26, 2558-2573. | 1.2 | 14 |
| 504 | Carbon- versus sulphur-based zinc binding groups for carbonic anhydrase inhibitors?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 485-495. | 2.5 | 103 |

| # | Article | IF | Citations |
|---|---|---|---|
| 505 | Carbonic anhydrase activators. Future Medicinal Chemistry, 2018, 10, 561-573. | 1.1 | 127 |
| 506 | Synthesis of Nâ€²-phenyl-N-hydroxyureas and investigation of their inhibitory activities on human carbonic anhydrases. Bioorganic Chemistry, 2018, 78, 1-6. | 2.0 | 9 |
| 507 | Synthesis and biological evaluation of novel pyrazoline-based aromatic sulfamates with potent carbonic anhydrase isoforms II, IV and IX inhibitory efficacy. Bioorganic Chemistry, 2018, 77, 633-639. | 2.0 | 25 |
| 508 | Activation studies of the Î±- and Î²-carbonic anhydrases from the pathogenic bacteriumVibrio choleraewith amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 227-233. | 2.5 | 19 |
| 509 | pH regulators to target the tumor immune microenvironment in human hepatocellular carcinoma. Oncoimmunology, 2018, 7, e1445452. | 2.1 | 54 |
| 510 | Synthesis and Biological Evaluation of 4â€Sulfamoylphenyl/Sulfocoumarin Carboxamides as Selective Inhibitors of Carbonic Anhydrase Isoforms hCAâ€…II, IX, and XII. ChemMedChem, 2018, 13, 1165-1171. | 1.6 | 14 |
| 511 | CO2 Permeability of Rat Hepatocytes and Relation of CO2 Permeability to CO2 Production. Cellular Physiology and Biochemistry, 2018, 46, 1198-1208. | 1.1 | 6 |
| 512 | Evaluation of 99mTc-sulfonamide and sulfocoumarin derivatives for imaging carbonic anhydrase IX expression. Journal of Inorganic Biochemistry, 2018, 185, 63-70. | 1.5 | 21 |
| 513 | Activation studies with amines and amino acids of the Î²-carbonic anhydrase from the pathogenic protozoan Leishmania donovani chagasi. Bioorganic Chemistry, 2018, 78, 406-410. | 2.0 | 18 |
| 514 | Synthesis, structure and bioactivity of primary sulfamate-containing natural products. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3009-3013. | 1.0 | 14 |
| 515 | Deciphering the Mechanism of Human Carbonic Anhydrases Inhibition with Sulfocoumarins: Computational and Experimental Studies. Chemistry - A European Journal, 2018, 24, 7840-7844. | 1.7 | 62 |
| 516 | Natural Polyphenols Selectively Inhibit Î²â€Carbonic Anhydrase from the Dandruffâ€Producing Fungus Malassezia globosa: Activity and Modeling Studies. ChemMedChem, 2018, 13, 816-823. | 1.6 | 32 |
| 517 | 2-Benzylpiperazine: A new scaffold for potent human carbonic anhydrase inhibitors. Synthesis, enzyme inhibition, enantioselectivity, computational and crystallographic studies and inÂvivo activity for a new class of intraocular pressure lowering agents. European Journal of Medicinal Chemistry, 2018, 151, 363-375. | 2.6 | 29 |
| 518 | Design, Synthesis, and X-ray of Selenides as New Class of Agents for Prevention of Diabetic Cerebrovascular Pathology. ACS Medicinal Chemistry Letters, 2018, 9, 462-467. | 1.3 | 20 |
| 519 | Inhibition of carbonic anhydrase IX targets primary tumors, metastases, and cancer stem cells: Three for the price of one. Medicinal Research Reviews, 2018, 38, 1799-1836. | 5.0 | 207 |
| 520 | Dual-tail arylsulfone-based benzenesulfonamides differently match the hydrophobic and hydrophilic halves of human carbonic anhydrases active sites: Selective inhibitors for the tumor-associated hCA IX isoform. European Journal of Medicinal Chemistry, 2018, 152, 1-9. | 2.6 | 60 |
| 521 | Design and synthesis of novel 1,3-diaryltriazene-substituted sulfonamides as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 542-547. | 2.0 | 50 |
| 522 | Anion inhibition studies of a beta carbonic anhydrase from the malaria mosquitoAnopheles gambiae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 359-363. | 2.5 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 523 | Discovery of thiazolin-4-one-based aromatic sulfamates as a new class of carbonic anhydrase isoforms I, II, IV, and IX inhibitors. Bioorganic Chemistry, 2018, 77, 293-299. | 2.0 | 27 |
| 524 | Synthesis, biological evaluation and computational studies of novel iminothiazolidinone benzenesulfonamides as potent carbonic anhydrase II and IX inhibitors. Bioorganic Chemistry, 2018, 77, 381-386. | 2.0 | 27 |
| 525 | Sulfonamide inhibition studies of two Î²-carbonic anhydrases from the ascomycete fungusSordaria macrospora,CAS1 and CAS2. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 390-396. | 2.5 | 10 |
| 526 | New anticancer drug candidates sulfonamides as selective hCA IX or hCA XII inhibitors. Bioorganic Chemistry, 2018, 77, 411-419. | 2.0 | 99 |
| 527 | Synthesis and biological evaluation of novel N,Nâ€²-diaryl cyanoguanidines acting as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 245-251. | 2.0 | 34 |
| 528 | Crystal Structure of Carbonic Anhydrase II in Complex with an Activating Ligand: Implications in Neuronal Function. Molecular Neurobiology, 2018, 55, 7431-7437. | 1.9 | 26 |
| 529 | â€œSeriously Sweetâ€• Acesulfame K Exhibits Selective Inhibition Using Alternative Binding Modes in Carbonic Anhydrase Isoforms. Journal of Medicinal Chemistry, 2018, 61, 1176-1181. | 2.9 | 16 |
| 530 | Protonography and anion inhibition profile of the Î±-carbonic anhydrase (CruCA4) identified in the Mediterranean red coral Corallium rubrum. Bioorganic Chemistry, 2018, 76, 281-287. | 2.0 | 13 |
| 531 | Investigation of piperazines as human carbonic anhydrase I, II, IV and VII activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 303-308. | 2.5 | 7 |
| 532 | Carbonic anhydrases fromTrypanosoma cruziandLeishmania donovani chagasiare inhibited by benzoxaboroles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 286-289. | 2.5 | 50 |
| 533 | Plasmatic carbonic anhydrase IX as a diagnostic marker for clear cell renal cell carcinoma. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 234-240. | 2.5 | 17 |
| 534 | Inhibition studies ofBrucella suisÎ²-carbonic anhydrases with a series of 4-substituted pyridine-3-sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 255-259. | 2.5 | 9 |
| 535 | Structural investigations on coumarins leading to chromeno[4,3-c]pyrazol-4-ones and pyrano[4,3-c]pyrazol-4-ones: New scaffolds for the design of the tumor-associated carbonic anhydrase isoforms IX and XII. European Journal of Medicinal Chemistry, 2018, 146, 47-59. | 2.6 | 45 |
| 536 | Activation studies with amines and amino acids of the Î²-carbonic anhydrase encoded by theRv3273gene from the pathogenic bacteriumMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 364-369. | 2.5 | 16 |
| 537 | The Î³-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae is potently activated by amines and amino acids. Bioorganic Chemistry, 2018, 77, 1-5. | 2.0 | 19 |
| 538 | 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. Bioorganic Chemistry, 2018, 77, 101-105. | 2.0 | 17 |
| 539 | Novel sulfonamide incorporating piperazine, aminoalcohol and 1,3,5-triazine structural motifs with carbonic anhydrase I, II and IX inhibitory action. Bioorganic Chemistry, 2018, 77, 25-37. | 2.0 | 29 |
| 540 | The first activation study of a Î´-carbonic anhydrase: TweCAÎ´ from the diatomThalassiosira weissflogiiis effectively activated by amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 680-685. | 2.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 541 | Fluoroenesulphonamides:N-sulphonylurea isosteres showing nanomolar selective cancer-related transmembrane human carbonic anhydrase inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 804-808. | 2.5 | 10 |
| 542 | Benzoxaborole compounds for therapeutic uses: a patent review (2010- 2018). Expert Opinion on Therapeutic Patents, 2018, 28, 493-504. | 2.4 | 86 |
| 543 | Antileishmanial activity of sulphonamide nanoemulsions targeting theÎ²-carbonic anhydrase fromLeishmaniaspecies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 850-857. | 2.5 | 38 |
| 544 | Anticancer effects of new dibenzenesulfonamides by inducing apoptosis and autophagy pathways and their carbonic anhydrase inhibitory effects on hCA I, hCA II, hCA IX, hCA XII isoenzymes. Bioorganic Chemistry, 2018, 78, 290-297. | 2.0 | 44 |
| 545 | Inhibition studies on a panel of human carbonic anhydrases withN1-substituted secondary sulfonamides incorporating thiazolinone or imidazolone-indole tails. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 629-638. | 2.5 | 37 |
| 546 | Mono- and di-thiocarbamate inhibition studies of the Î´-carbonic anhydrase TweCAÎ´ from the marine diatomThalassiosira weissflogii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 707-713. | 2.5 | 17 |
| 547 | Biochemical, biophysical and molecular dynamics studies on the proteoglycan-like domain of carbonic anhydrase IX. Cellular and Molecular Life Sciences, 2018, 75, 3283-3296. | 2.4 | 20 |
| 548 | Iodine-mediated one-pot intramolecular decarboxylation domino reaction for accessing functionalised 2-(1,3,4-oxadiazol-2-yl)anilines with carbonic anhydrase inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 615-628. | 2.5 | 5 |
| 549 | Discovery of Benzenesulfonamide Derivatives as Carbonic Anhydrase Inhibitors with Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Evaluation. Journal of Medicinal Chemistry, 2018, 61, 3151-3165. | 2.9 | 27 |
| 550 | Synthesis of novel 4-functionalized 1,5-diaryl-1,2,3-triazoles containing benzenesulfonamide moiety as carbonic anhydrase I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2018, 150, 678-686. | 2.6 | 41 |
| 551 | Resolution of co-eluting isomers of anti-inflammatory drugs conjugated to carbonic anhydrase inhibitors from plasma in liquid chromatography by energy-resolved tandem mass spectrometry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 671-679. | 2.5 | 21 |
| 552 | Sulfonamide carbonic anhydrase inhibitors: Zinc coordination and tail effects influence inhibitory efficacy and selectivity for different isoforms. Inorganica Chimica Acta, 2018, 470, 128-132. | 1.2 | 11 |
| 553 | Co-targeting intracellular pH and essential amino acid uptake cooperates to induce cell death of T-ALL/LL cells. Leukemia and Lymphoma, 2018, 59, 460-468. | 0.6 | 5 |
| 554 | Heterocyclic periphery in the design of carbonic anhydrase inhibitors: 1,2,4-Oxadiazol-5-yl benzenesulfonamides as potent and selective inhibitors of cytosolic hCA II and membrane-bound hCA IX isoforms. Bioorganic Chemistry, 2018, 76, 88-97. | 2.0 | 44 |
| 555 | Novel carbonic anhydrase IXâ€targeted therapy enhances the antiâ€tumour effects of cisplatin in small cell lung cancer. International Journal of Cancer, 2018, 142, 191-201. | 2.3 | 28 |
| 556 | Unprotected primary sulfonamide group facilitates ring-forming cascade en route to polycyclic [1,4]oxazepine-based carbonic anhydrase inhibitors. Bioorganic Chemistry, 2018, 76, 140-146. | 2.0 | 17 |
| 557 | Inhibitory effects and structural insights for a novel series of coumarin-based compounds that selectively target human CA IX and CA XII carbonic anhydrases. European Journal of Medicinal Chemistry, 2018, 143, 276-282. | 2.6 | 58 |
| 558 | Nanoemulsions of sulfonamide carbonic anhydrase inhibitors strongly inhibit the growth of Trypanosoma cruzi. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 139-146. | 2.5 | 52 |

| # | Article | IF | Citations |
|---|---|---|---|
| 559 | Crystal structure of the human carbonic anhydrase II adduct with 1-(4-sulfamoylphenyl-ethyl)-2,4,6-triphenylpyridinium perchlorate, a membrane-impermeant, isoform selective inhibitor. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 151-157. | 2.5 | 26 |
| 560 | First evaluation of organotellurium derivatives as carbonic anhydrase I, II, IV, VII and IX inhibitors. Bioorganic Chemistry, 2018, 76, 268-272. | 2.0 | 41 |
| 561 | 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. European Journal of Medicinal Chemistry, 2018, 143, 1931-1941. | 2.6 | 26 |
| 562 | Sulphonamide inhibition studies of the Î²-carbonic anhydrase from the bacterial pathogenClostridium perfringens. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 31-36. | 2.5 | 17 |
| 563 | Exponential Activation of Carbonic Anhydrase by Encapsulation in Dynameric Host Matrices with Chiral Discrimination. Chemistry - A European Journal, 2018, 24, 715-720. | 1.7 | 13 |
| 564 | Comparison of the amine/amino acid activation profiles of the Î²- and Î³-carbonic anhydrases from the pathogenic bacteriumBurkholderia pseudomallei. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 25-30. | 2.5 | 15 |
| 565 | Improving the carbonic anhydrase inhibition profile of the sulfamoylphenyl pharmacophore by attachment of carbohydrate moieties. Bioorganic Chemistry, 2018, 76, 61-66. | 2.0 | 10 |
| 566 | Bioactive isoflavones from Pueraria lobata root and starch: Different extraction techniques and carbonic anhydrase inhibition. Food and Chemical Toxicology, 2018, 112, 441-447. | 1.8 | 50 |
| 567 | Sulfonamide Inhibition Studies of a New Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica. International Journal of Molecular Sciences, 2018, 19, 3946. | 1.8 | 9 |
| 568 | Carbonic Anhydrase Inhibitors as Novel Drugs against Mycobacterial Î²-Carbonic Anhydrases: An Update on In Vitro and In Vivo Studies. Molecules, 2018, 23, 2911. | 1.7 | 20 |
| 569 | Selective inhibition of carbonic anhydrase IX over carbonic anhydrase XII in breast cancer cells using benzene sulfonamides: Disconnect between activity and growth inhibition. PLoS ONE, 2018, 13, e0207417. | 1.1 | 32 |
| 570 | Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. Expert Opinion on Investigational Drugs, 2018, 27, 963-970. | 1.9 | 195 |
| 571 | 4-Hydroxy-3-nitro-5-ureido-benzenesulfonamides Selectively Target the Tumor-Associated Carbonic Anhydrase Isoforms IX and XII Showing Hypoxia-Enhanced Antiproliferative Profiles. Journal of Medicinal Chemistry, 2018, 61, 10860-10874. | 2.9 | 48 |
| 572 | Cloning, Characterization and Anion Inhibition Studies of a Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica. Molecules, 2018, 23, 3112. | 1.7 | 9 |
| 573 | Carbonic anhydrase inhibition with a series of novel benzenesulfonamide-triazole conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1565-1574. | 2.5 | 27 |
| 574 | Discovering a new class of antifungal agents that selectively inhibits microbial carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1537-1544. | 2.5 | 15 |
| 575 | Novel thiazolidinone-containing compounds, without the well-known sulphonamide zinc-binding group acting as human carbonic anhydrase IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1299-1308. | 2.5 | 19 |
| 576 | Synthesis of different thio-scaffolds bearing sulfonamide with subnanomolar carbonic anhydrase II and IX inhibitory properties and X-ray investigations for their inhibitory mechanism. Bioorganic Chemistry, 2018, 81, 642-648. | 2.0 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 577 | Steroids interfere with human carbonic anhydrase activity by using alternative binding mechanisms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1453-1459. | 2.5 | 69 |
| 578 | Discovery of novel 1,3-diaryltriazene sulfonamides as carbonic anhydrase I, II, VII, and IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1575-1580. | 2.5 | 41 |
| 579 | Rethinking the Combination of Proton Exchanger Inhibitors in Cancer Therapy. Metabolites, 2018, 8, 2. | 1.3 | 51 |
| 580 | Blocking HIF signaling via novel inhibitors of CA9 and APE1/Ref-1 dramatically affects pancreatic cancer cell survival. Scientific Reports, 2018, 8, 13759. | 1.6 | 37 |
| 581 | Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. Expert Opinion on Therapeutic Patents, 2018, 28, 709-712. | 2.4 | 138 |
| 582 | Famotidine, an Antiulcer Agent, Strongly Inhibits Helicobacter pylori and Human Carbonic Anhydrases. ACS Medicinal Chemistry Letters, 2018, 9, 1035-1038. | 1.3 | 44 |
| 583 | Tumor-associated carbonic anhydrase isoform IX and XII inhibitory properties of certain isatin-bearing sulfonamides endowed with in vitro antitumor activity towards colon cancer. Bioorganic Chemistry, 2018, 81, 425-432. | 2.0 | 56 |
| 584 | New azafluorenones with cytotoxic and carbonic anhydrase inhibitory properties: 2-Aryl-4-(4-hydroxyphenyl)-5H-indeno[1,2-b]pyridin-5-ones. Bioorganic Chemistry, 2018, 81, 433-439. | 2.0 | 58 |
| 585 | Applications of carbonic anhydrases inhibitors in renal and central nervous system diseases. Expert Opinion on Therapeutic Patents, 2018, 28, 713-721. | 2.4 | 97 |
| 586 | Tuning the Dual Inhibition of Carbonic Anhydrase and Cyclooxygenase by Dihydrothiazole Benzensulfonamides. ACS Medicinal Chemistry Letters, 2018, 9, 1045-1050. | 1.3 | 18 |
| 587 | Target-based drug discovery through inversion of quantitative structure-drug-property relationships and molecular simulation: CA IX-sulphonamide complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1430-1443. | 2.5 | 14 |
| 588 | Discovery of new 2, 5-disubstituted 1,3-selenazoles as selective human carbonic anhydrase IX inhibitors with potent anti-tumor activity. European Journal of Medicinal Chemistry, 2018, 157, 1214-1222. | 2.6 | 32 |
| 589 | Heterocoumarins Are Selective Carbonic Anhydrase IX and XII Inhibitors with Cytotoxic Effects against Cancer Cells Lines. ACS Medicinal Chemistry Letters, 2018, 9, 947-951. | 1.3 | 39 |
| 590 | Dioxygen, an unexpected carbonic anhydrase ligand. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 999-1005. | 2.5 | 13 |
| 591 | Evaluation of sulphonamide derivatives acting as inhibitors of human carbonic anhydrase isoforms I, II andMycobacterium tuberculosisÎ²-class enzyme Rv3273. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 962-971. | 2.5 | 26 |
| 592 | Selenides bearing benzenesulfonamide show potent inhibition activity against carbonic anhydrases from pathogenic bacteria Vibrio cholerae and Burkholderia pseudomallei. Bioorganic Chemistry, 2018, 79, 319-322. | 2.0 | 19 |
| 593 | Design, synthesis and X-ray crystallography of selenides bearing benzenesulfonamide moiety with neuropathic pain modulating effects. European Journal of Medicinal Chemistry, 2018, 154, 210-219. | 2.6 | 39 |
| 594 | Discovery of Î²-Adrenergic Receptors Blockerâ€“Carbonic Anhydrase Inhibitor Hybrids for Multitargeted Antiglaucoma Therapy. Journal of Medicinal Chemistry, 2018, 61, 5380-5394. | 2.9 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 595 | Activation of Î²- and Î³-carbonic anhydrases from pathogenic bacteria with tripeptides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 945-950. | 2.5 | 30 |
| 596 | The zinc â€“ but not cadmium â€“ containing Î¶-carbonic from the diatom Thalassiosira weissflogii is potently activated by amines and amino acids. Bioorganic Chemistry, 2018, 80, 261-265. | 2.0 | 21 |
| 597 | Intermolecular amination of allylic and benzylic alcohols leads to effective inhibitions of acetylcholinesterase enzyme and carbonic anhydrase I and II isoenzymes. Journal of Biochemical and Molecular Toxicology, 2018, 32, e22173. | 1.4 | 30 |
| 598 | Treatment of sleep apnea with a combination of a carbonic anhydrase inhibitor and an aldosterone antagonist: a patent evaluation of CA2958110 and IN6616DEN2012. Expert Opinion on Therapeutic Patents, 2018, 28, 723-727. | 2.4 | 3 |
| 599 | The first activation studies of the Î·-carbonic anhydrase from the malaria parasite Plasmodium falciparum with amines and amino acids. Bioorganic Chemistry, 2018, 80, 94-98. | 2.0 | 26 |
| 600 | | | |

| # | Article | IF | Citations |
|---|---|---|---|
| 613 | Benzamide-4-Sulfonamides Are Effective Human Carbonic Anhydrase I, II, VII, and IX Inhibitors. Metabolites, 2018, 8, 37. | 1.3 | 19 |
| 614 | Potent and Selective Carboxylic Acid Inhibitors of Tumor-Associated Carbonic Anhydrases IX and XII. Molecules, 2018, 23, 17. | 1.7 | 14 |
| 615 | Selective inhibition of carbonic anhydrase-IX by sulphonamide derivatives induces pH and reactive oxygen species-mediated apoptosis in cervical cancer HeLa cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1137-1149. | 2.5 | 27 |
| 616 | Advances in microwave-assisted synthesis and the impact of novel drug discovery. Expert Opinion on Drug Discovery, 2018, 13, 861-873. | 2.5 | 15 |
| 617 | Carbonic anhydrase enzymes for regulating mast cell hematopoiesis and type-2 inflammation: a patent evaluation (WO2017/058370). Expert Opinion on Therapeutic Patents, 2018, 28, 741-743. | 2.4 | 2 |
| 618 | Activation studies with amines and amino acids of the Î±-carbonic anhydrase from the pathogenic protozoan Trypanosoma cruzi. Bioorganic and Medicinal Chemistry, 2018, 26, 4187-4190. | 1.4 | 12 |
| 619 | Discovery of potent anti-convulsant carbonic anhydrase inhibitors: Design, synthesis, inÂvitro and inÂvivo appraisal. European Journal of Medicinal Chemistry, 2018, 156, 430-443. | 2.6 | 17 |
| 620 | Synthesis of novel benzenesulfamide derivatives with inhibitory activity against human cytosolic carbonic anhydrase I and II andVibrio choleraeÎ±- and Î²-class enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1125-1136. | 2.5 | 14 |
| 621 | Sweet Binders: Carbonic Anhydrase IX in Complex with Sucralose. ACS Medicinal Chemistry Letters, 2018, 9, 657-661. | 1.3 | 10 |
| 622 | Discovery of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2018, 61, 4961-4977. | 2.9 | 53 |
| 623 | pH-Sensitive Multiligand Gold Nanoplatform Targeting Carbonic Anhydrase IX Enhances the Delivery of Doxorubicin to Hypoxic Tumor Spheroids and Overcomes the Hypoxia-Induced Chemoresistance. ACS Applied Materials & Interfaces, 2018, 10, 17792-17808. | 4.0 | 50 |
| 624 | Activation Profile Analysis of CruCA4, an Î±-Carbonic Anhydrase Involved in Skeleton Formation of the Mediterranean Red Coral, Corallium rubrum. Molecules, 2018, 23, 66. | 1.7 | 5 |
| 625 | Identification of Bivalent Ligands with Melatonin Receptor Agonist and Fatty Acid Amide Hydrolase (FAAH) Inhibitory Activity That Exhibit Ocular Hypotensive Effect in the Rabbit. Journal of Medicinal Chemistry, 2018, 61, 7902-7916. | 2.9 | 18 |
| 626 | Synthesis of novel dipeptide sulfonamide conjugates with effective carbonic anhydrase I, II, IX, and XII inhibitory properties. Bioorganic Chemistry, 2018, 81, 311-318. | 2.0 | 17 |
| 627 | Novel sulfonamides incorporating 1,3,5-triazine and amino acid structural motifs as inhibitors of the physiological carbonic anhydrase isozymes I, II and IV and tumor-associated isozyme IX. Bioorganic Chemistry, 2018, 81, 241-252. | 2.0 | 19 |
| 628 | Inhibition of carbonic anhydrases by a substrate analog: benzyl carbamate directly coordinates the catalytic zinc ion mimicking bicarbonate binding. Chemical Communications, 2018, 54, 10312-10315. | 2.2 | 19 |
| 629 | Structural Mapping of Anion Inhibitors to Î²â€Carbonic Anhydrase psCA3 from Pseudomonas aeruginosa. ChemMedChem, 2018, 13, 2024-2029. | 1.6 | 23 |
| 630 | CAIX furthers tumour progression in the hypoxic tumour microenvironment of esophageal carcinoma and is a possible therapeutic target. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1024-1033. | 2.5 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 631 | Design and synthesis of novel benzenesulfonamide containing 1,2,3-triazoles as potent human carbonic anhydrase isoforms I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2018, 155, 545-551. | 2.6 | 46 |
| 632 | Targeting Tumor Associated Carbonic Anhydrases IX and XII: Highly Isozyme Selective Coumarin and Psoralen Inhibitors. ACS Medicinal Chemistry Letters, 2018, 9, 725-729. | 1.3 | 39 |
| 633 | 4-Substituted Benzenesulfonamides Incorporating Bi/Tricyclic Moieties Act as Potent and Isoform-Selective Carbonic Anhydrase II/IX Inhibitors. Journal of Medicinal Chemistry, 2018, 61, 5765-5770. | 2.9 | 18 |
| 634 | Nitroimidazole-based inhibitors DTP338 and DTP348 are safe for zebrafish embryos and efficiently inhibit the activity of human CA IX inXenopusoocytes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1064-1073. | 2.5 | 14 |
| 635 | Carbonic anhydrase inhibitory properties of some uracil derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 74-77. | 2.5 | 36 |
| 636 | Supported ionic liquid membranes immobilized with carbonic anhydrases for CO2 transport at high temperatures. Journal of Membrane Science, 2017, 528, 225-230. | 4.1 | 64 |
| 637 | Synthesis and biological evaluation of cyclic imides incorporating benzenesulfonamide moieties as carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 1666-1671. | 1.4 | 33 |
| 638 | Carbonic anhydrases from Trypanosoma and Leishmania as anti-protozoan drug targets. Bioorganic and Medicinal Chemistry, 2017, 25, 1543-1555. | 1.4 | 52 |
| 639 | Synthesis of isoxazole-containing sulfonamides with potent carbonic anhydrase II and VII inhibitory properties. Bioorganic and Medicinal Chemistry, 2017, 25, 1456-1464. | 1.4 | 25 |
| 640 | Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, inÂvitro biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies. European Journal of Medicinal Chemistry, 2017, 127, 521-530. | 2.6 | 56 |
| 641 | Design and Synthesis of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Treatment of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2017, 60, 1159-1170. | 2.9 | 104 |
| 642 | Investigating the antiplasmodial activity of primary sulfonamide compounds identified in open source malaria data. International Journal for Parasitology: Drugs and Drug Resistance, 2017, 7, 61-70. | 1.4 | 13 |
| 643 | Carbonic anhydrases activation with 3-amino-1H-1,2,4-triazole-1-carboxamides: Discovery of subnanomolar isoform II activators. Bioorganic and Medicinal Chemistry, 2017, 25, 1681-1686. | 1.4 | 28 |
| 644 | Effective Access to Multivalent Inhibitors of Carbonic Anhydrases Promoted by Peptide Bioconjugation. Chemistry - A European Journal, 2017, 23, 6788-6794. | 1.7 | 21 |
| 645 | Synthesis of bulky-tailed sulfonamides incorporating pyrido[2,3- d ][1,2,4]triazolo[4,3- a effects. Bioorganic and Medicinal Chemistry, 2017, 25, 2210-2217. | 1.4 | 35 |
| 646 | Evaluation of selenide, diselenide and selenoheterocycle derivatives as carbonic anhydrase I, II, IV, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 2518-2523. | 1.4 | 44 |
| 647 | Synthesis and human/bacterial carbonic anhydrase inhibition with a series of sulfonamides incorporating phthalimido moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 2524-2529. | 1.4 | 25 |
| 648 | Lead Development of Thiazolylsulfonamides with Carbonic Anhydrase Inhibitory Action. Journal of Medicinal Chemistry, 2017, 60, 3154-3164. | 2.9 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 649 | Brucella suis carbonic anhydrases and their inhibitors: Towards alternative antibiotics?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 683-687. | 2.5 | 33 |
| 650 | Carbonic anhydrase activation enhances object recognition memory in mice through phosphorylation of the extracellular signal-regulated kinase in the cortex and the hippocampus. Neuropharmacology, 2017, 118, 148-156. | 2.0 | 77 |
| 651 | Biochemical characterization of the native Î±-carbonic anhydrase purified from the mantle of the Mediterranean mussel,Mytilus galloprovincialis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 632-639. | 2.5 | 28 |
| 652 | Comparison of the anion inhibition profiles of the Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Burkholderia pseudomallei. Bioorganic and Medicinal Chemistry, 2017, 25, 2010-2015. | 1.4 | 8 |
| 653 | Discovery of Benzenesulfonamides with Potent Human Carbonic Anhydrase Inhibitory and Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Assessment. Journal of Medicinal Chemistry, 2017, 60, 2456-2469. | 2.9 | 49 |
| 654 | Human carbonic anhydrase inhibitory profile of mono- and bis-sulfonamides synthesized via a direct sulfochlorination of 3- and 4-(hetero)arylisoxazol-5-amine scaffolds. Bioorganic and Medicinal Chemistry, 2017, 25, 1914-1925. | 1.4 | 17 |
| 655 | Carbonic anhydrase fromApis mellifera: purification and inhibition by pesticides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 47-50. | 2.5 | 15 |
| 656 | Design, synthesis and evaluation of<sup>18</sup>F-labeled cationic carbonic anhydrase IX inhibitors for PET imaging. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 722-730. | 2.5 | 42 |
| 657 | N -Substituted and ring opened saccharin derivatives selectively inhibit transmembrane, tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2017, 25, 3583-3589. | 1.4 | 39 |
| 658 | Disclosing the Interaction of Carbonic Anhydrase IX with Cullin-Associated NEDD8-Dissociated Protein 1 by Molecular Modeling and Integrated Binding Measurements. ACS Chemical Biology, 2017, 12, 1460-1465. | 1.6 | 17 |
| 659 | Novel sulfonamide-containing 2-indolinones that selectively inhibit tumor-associated alpha carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2017, 25, 3714-3718. | 1.4 | 25 |
| 660 | Synthesis of novel acyl selenoureido benzensulfonamides as carbonic anhydrase I, II, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 3567-3573. | 1.4 | 42 |
| 661 | Kinetic properties and affinities for sulfonamide inhibitors of an Î±-carbonic anhydrase (CruCA4) involved in coral biomineralization in the Mediterranean red coral Corallium rubrum. Bioorganic and Medicinal Chemistry, 2017, 25, 3525-3530. | 1.4 | 14 |
| 662 | Probing Molecular Interactions between Human Carbonic Anhydrases (hCAs) and a Novel Class of Benzenesulfonamides. Journal of Medicinal Chemistry, 2017, 60, 4316-4326. | 2.9 | 40 |
| 663 | Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. Bioorganic and Medicinal Chemistry, 2017, 25, 677-683. | 1.4 | 36 |
| 664 | Synthesis, structure and properties of N -aminosaccharin â€“ A selective inhibitor of human carbonic anhydrase I. Tetrahedron Letters, 2017, 58, 172-174. | 0.7 | 5 |
| 665 | Production and covalent immobilisation of the recombinant bacterial carbonic anhydrase (SspCA) onto magnetic nanoparticles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 759-766. | 2.5 | 25 |
| 666 | Î²-CA-specific inhibitor dithiocarbamate Fc14â€“584B: a novel antimycobacterial agent with potential to treat drug-resistant tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 832-840. | 2.5 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 667 | Advances in new psychoactive substances identification: the U.R.I.To.N. Consortium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 841-849. | 2.5 | 18 |
| 668 | 3H-1,2-benzoxathiepine 2,2-dioxides: a new class of isoform-selective carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 767-775. | 2.5 | 41 |
| 669 | Inhibition of the Î±-carbonic anhydrase fromVibrio choleraewith amides and sulfonamides incorporating imidazole moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 798-804. | 2.5 | 35 |
| 670 | Sulfonamide inhibition profiles of the Î²-carbonic anhydrase from the pathogenic bacterium Francisella tularensis responsible of the febrile illness tularemia. Bioorganic and Medicinal Chemistry, 2017, 25, 3555-3561. | 1.4 | 20 |
| 671 | Synthesis and biological evaluation of novel aromatic and heterocyclic bis-sulfonamide Schiff bases as carbonic anhydrase I, II, VII and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 3093-3097. | 1.4 | 53 |
| 672 | Microwave-assisted synthesis and bioevaluation of new sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 369-374. | 2.5 | 44 |
| 673 | Synthesis of an acridine orange sulfonamide derivative with potent carbonic anhydrase IX inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 701-706. | 2.5 | 11 |
| 674 | Synthesis of new 3-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-benzenesulfonamides with strong inhibition properties against the tumor associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2017, 25, 2782-2788. | 1.4 | 14 |
| 675 | Design and Comparative Evaluation of the Anticonvulsant Profile, Carbonic-Anhydrate Inhibition and Teratogenicity of Novel Carbamate Derivatives of Branched Aliphatic Carboxylic Acids with 4-Aminobenzensulfonamide. Neurochemical Research, 2017, 42, 1972-1982. | 1.6 | 9 |
| 676 | Inhibition of Malassezia globosa carbonic anhydrase with phenols. Bioorganic and Medicinal Chemistry, 2017, 25, 2577-2582. | 1.4 | 41 |
| 677 | Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. Bioorganic and Medicinal Chemistry, 2017, 25, 2569-2576. | 1.4 | 79 |
| 678 | Structure activity study of carbonic anhydrase IX: Selective inhibition with ureido-substituted benzenesulfonamides. European Journal of Medicinal Chemistry, 2017, 132, 184-191. | 2.6 | 58 |
| 679 | 3D QSAR studies, pharmacophore modeling, and virtual screening of diarylpyrazoleâ€“benzenesulfonamide derivatives as a template to obtain new inhibitors, using human carbonic anhydrase II as a model protein. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 688-700. | 2.5 | 16 |
| 680 | Sulfonamide inhibition profile of the Î³-carbonic anhydrase identified in the genome of the pathogenic bacterium Burkholderia pseudomallei the etiological agent responsible of melioidosis. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 490-495. | 1.0 | 25 |
| 681 | Benzenesulfonamide bearing imidazothiadiazole and thiazolotriazole scaffolds as potent tumor associated human carbonic anhydrase IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 1286-1293. | 1.4 | 36 |
| 682 | Dithiocarbamates effectively inhibit the Î²-carbonic anhydrase from the dandruff-producing fungus Malassezia globosa. Bioorganic and Medicinal Chemistry, 2017, 25, 1260-1265. | 1.4 | 45 |
| 683 | Insights into the role of reactive sulfhydryl groups of Carbonic Anhydrase III and VII during oxidative damage. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 5-12. | 2.5 | 35 |
| 684 | Discovery of curcumin inspired sulfonamide derivatives as a new class of carbonic anhydrase isoforms I, II, IX, and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1274-1281. | 2.5 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 685 | Dual targeting of cancer-related human matrix metalloproteinases and carbonic anhydrases by chiral N-(biarylsulfonyl)-phosphonic acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1260-1264. | 2.5 | 4 |
| 686 | Psychoactive substances belonging to the amphetamine class potently activate brain carbonic anhydrase isoforms VA, VB, VII, and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1253-1259. | 2.5 | 33 |
| 687 | Carbonic anhydrase IX inhibition affects viability of cancer cells adapted to extracellular acidosis. Journal of Molecular Medicine, 2017, 95, 1341-1353. | 1.7 | 76 |
| 688 | Acyl selenoureido benzensulfonamides show potent inhibitory activity against carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic Chemistry, 2017, 75, 170-172. | 2.0 | 21 |
| 689 | Benzoxaboroles as Efficient Inhibitors of the Î²-Carbonic Anhydrases from Pathogenic Fungi: Activity and Modeling Study. ACS Medicinal Chemistry Letters, 2017, 8, 1194-1198. | 1.3 | 47 |
| 690 | Lipoyl-Homotaurine Derivative (ADM_12) Reverts Oxaliplatin-Induced Neuropathy and Reduces Cancer Cells Malignancy by Inhibiting Carbonic Anhydrase IX (CAIX). Journal of Medicinal Chemistry, 2017, 60, 9003-9011. | 2.9 | 12 |
| 691 | Synthesis, biological activity and multiscale molecular modeling studies for coumaryl-carboxamide derivatives as selective carbonic anhydrase IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1042-1052. | 2.5 | 28 |
| 692 | The synthesis of novel sulfamides derived from Î²-benzylphenethylamines as acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase enzymes inhibitors. Bioorganic Chemistry, 2017, 74, 238-250. | 2.0 | 64 |
| 693 | Lucky Switcheroo: Dramatic Potency and Selectivity Improvement of Imidazoline Inhibitors of Human Carbonic Anhydrase VII. ACS Medicinal Chemistry Letters, 2017, 8, 1105-1109. | 1.3 | 10 |
| 694 | Synthesis and biological evaluation of aminomethyl and alkoxymethyl derivatives as carbonic anhydrase, acetylcholinesterase and butyrylcholinesterase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1174-1182. | 2.5 | 77 |
| 695 | Polyhedral Oligomeric Silsesquioxane (POSS) Bearing Glyoxylic Aldehyde as Clickable Platform Towards Multivalent Conjugates. Chemistry - A European Journal, 2017, 23, 17867-17869. | 1.7 | 5 |
| 696 | Synthesis and biological evaluation of benzenesulphonamide-bearing 1,4,5-trisubstituted-1,2,3-triazoles possessing human carbonic anhydrase I, II, IV, and IX inhibitory activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1187-1194. | 2.5 | 42 |
| 697 | Development of sulfonamides incorporating phenylacrylamido functionalities as carbonic anhydrase isoforms I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 5726-5732. | 1.4 | 9 |
| 698 | Sulfocoumarinâ€; Coumarinâ€; 4â€Sulfamoylphenylâ€Bearing Indazoleâ€3â€carboxamide Hybrids: Synthesis and Selective Inhibition of Tumorâ€Associated Carbonic Anhydrase Isozymes IX and XII. ChemMedChem, 2017, 12, 1578-1584. | 1.6 | 36 |
| 699 | Primary mono- and bis-sulfonamides obtained via regiospecific sulfochlorination of N-arylpyrazoles: inhibition profile against a panel of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 920-934. | 2.5 | 18 |
| 700 | Natural extracellular nanovesicles and photodynamic molecules: is there a future for drug delivery?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 908-916. | 2.5 | 44 |
| 701 | 1,3-Oxazole-based selective picomolar inhibitors of cytosolic human carbonic anhydrase II alleviate ocular hypertension in rabbits: Potency is supported by X-ray crystallography of two leads. Bioorganic and Medicinal Chemistry, 2017, 25, 4560-4565. | 1.4 | 14 |
| 702 | Synthesis and carbonic anhydrase inhibition of polycyclic imides incorporating N-benzenesulfonamide moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 5373-5379. | 1.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 703 | Cloning, expression and purification of the Î±-carbonic anhydrase from the mantle of the Mediterranean mussel, Mytilus galloprovincialis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1029-1035. | 2.5 | 11 |
| 704 | Novel 4/3-((4-oxo-5-(2-oxoindolin-3-ylidene)thiazolidin-2-ylidene)amino) benzenesulfonamides: Synthesis, carbonic anhydrase inhibitory activity, anticancer activity and molecular modelling studies. European Journal of Medicinal Chemistry, 2017, 139, 250-262. | 2.6 | 110 |
| 705 | Exploring Heteroaryl-pyrazole Carboxylic Acids as Human Carbonic Anhydrase XII Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 941-946. | 1.3 | 23 |
| 706 | Quantitative assessment of specific carbonic anhydrase inhibitors effect on hypoxic cells using electrical impedance assays. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1079-1090. | 2.5 | 11 |
| 707 | Discovery of New Selenoureido Analogues of 4-(4-Fluorophenylureido)benzenesulfonamide as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 963-968. | 1.3 | 62 |
| 708 | Inhibition of the Î²-carbonic anhydrase from the dandruff-producing fungusMalassezia globosawith monothiocarbamates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1064-1070. | 2.5 | 33 |
| 709 | A one-step procedure for immobilising the thermostable carbonic anhydrase (SspCA) on the surface membrane of Escherichia coli. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1120-1128. | 2.5 | 18 |
| 710 | Anion inhibitors of the Î²-carbonic anhydrase from the pathogenic bacterium responsible of tularemia, Francisella tularensis. Bioorganic and Medicinal Chemistry, 2017, 25, 4800-4804. | 1.4 | 13 |
| 711 | Synthesis and carbonic anhydrase I, II, VII, and IX inhibition studies with a series of benzo[d]thiazole-5- and 6-sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1071-1078. | 2.5 | 51 |
| 712 | Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases. ACS Medicinal Chemistry Letters, 2017, 8, 1314-1319. | 1.3 | 61 |
| 713 | Synthesis and biological evaluation of histamine Schiff bases as carbonic anhydrase I, II, IV, VII, and IX activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1305-1312. | 2.5 | 52 |
| 714 | Synthesis of Novel Selenides Bearing Benzenesulfonamide Moieties as Carbonic Anhydrase I, II, IV, VII, and IX Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 1213-1217. | 1.3 | 44 |
| 715 | Carbonic anhydrase I, II, IV and IX inhibition with a series of 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 885-892. | 2.5 | 10 |
| 716 | N-Acylbenzenesulfonamide Dihydro-1,3,4-oxadiazole Hybrids: Seeking Selectivity toward Carbonic Anhydrase Isoforms. ACS Medicinal Chemistry Letters, 2017, 8, 792-796. | 1.3 | 27 |
| 717 | 3-Hydroxy-1H-quinazoline-2,4-dione as a New Scaffold To Develop Potent and Selective Inhibitors of the Tumor-Associated Carbonic Anhydrases IX and XII. Journal of Medicinal Chemistry, 2017, 60, 6428-6439. | 2.9 | 24 |
| 718 | Synthesis, carbonic anhydrase I and II inhibition studies of the 1,3,5-trisubstituted-pyrazolines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 189-192. | 2.5 | 93 |
| 719 | Advances in structure-based drug discovery of carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2017, 12, 61-88. | 2.5 | 356 |
| 720 | A class of carbonic anhydrase I â€“ selective activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 37-46. | 2.5 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 721 | Anion inhibition profiles of the Î³-carbonic anhydrase from the pathogenic bacterium Burkholderia pseudomallei responsible of melioidosis and highly drug resistant to common antibiotics. Bioorganic and Medicinal Chemistry, 2017, 25, 575-580. | 1.4 | 16 |
| 722 | Microwave assisted synthesis of novel tetrazole/sulfonamide derivatives based on octahydroacridine, xanthene and chromene skeletons as inhibitors of the carbonic anhydrases isoforms I, II, IV and VII. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 86-89. | 1.0 | 14 |
| 723 | Discovery of 4-sulfamoyl-phenyl-Î²-lactams as a new class of potent carbonic anhydrase isoforms I, II, IV and VII inhibitors: The first example of subnanomolar CA IV inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 539-544. | 1.4 | 14 |
| 724 | Burkholderia pseudomallei Î³-carbonic anhydrase is strongly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 77-80. | 1.0 | 26 |
| 725 | Geographical characterization by MAE-HPLC and NIR methodologies and carbonic anhydrase inhibition of Saffron components. Food Chemistry, 2017, 221, 855-863. | 4.2 | 55 |
| 726 | Isatin: a privileged scaffold for the design of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 68-73. | 2.5 | 49 |
| 727 | Bortezomib inhibits mammalian carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2017, 25, 5064-5067. | 1.4 | 9 |
| 728 | Open saccharin-based secondary sulfonamides as potent and selective inhibitors of cancer-related carbonic anhydrase IX and XII isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 51-59. | 2.5 | 46 |
| 729 | Designing, synthesis and bioactivities of 4-[3-(4-hydroxyphenyl)-5-aryl-4,5-dihydro-pyrazol-1-yl]benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 169-175. | 2.5 | 38 |
| 730 | 5-Substituted-benzylsulfanyl-thiophene-2-sulfonamides with effective carbonic anhydrase inhibitory activity: Solution and crystallographic investigations. Bioorganic and Medicinal Chemistry, 2017, 25, 857-863. | 1.4 | 20 |
| 731 | Structureâ€“Activity Relationships of Benzenesulfonamideâ€Based Inhibitors towards Carbonic Anhydrase Isoform Specificity. ChemBioChem, 2017, 18, 213-222. | 1.3 | 38 |
| 732 | New approach of delivering cytotoxic drugs towards CAIX expressing cells: A concept of dual-target drugs. European Journal of Medicinal Chemistry, 2017, 127, 691-702. | 2.6 | 22 |
| 733 | Novel Sulfamide-Containing Compounds as Selective Carbonic Anhydrase I Inhibitors. Molecules, 2017, 22, 1049. | 1.7 | 24 |
| 734 | Targeting Malassezia species for Novel Synthetic and Natural Antidandruff Agents. Current Medicinal Chemistry, 2017, 24, 2392-2412. | 1.2 | 29 |
| 735 | Carbonic Anhydrase Inhibition and the Management of Hypoxic Tumors. Metabolites, 2017, 7, 48. | 1.3 | 197 |
| 736 | An Overview of the Bacterial Carbonic Anhydrases. Metabolites, 2017, 7, 56. | 1.3 | 165 |
| 737 | Comparison of the Sulfonamide Inhibition Profiles of the Î²- and Î³-Carbonic Anhydrases from the Pathogenic Bacterium Burkholderia pseudomallei. Molecules, 2017, 22, 421. | 1.7 | 29 |
| 738 | Five- and Six-Membered Nitrogen-Containing Compounds as Selective Carbonic Anhydrase Activators. Molecules, 2017, 22, 2178. | 1.7 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 739 | Carbonic Anhydrase from Porphyromonas Gingivalis as a Drug Target. Pathogens, 2017, 6, 30. | 1.2 | 39 |
| 740 | Bioactive Natural Product and Superacid Chemistry for Lead Compound Identification: A Case Study of Selective hCA III and L-Type Ca2+ Current Inhibitors for Hypotensive Agent Discovery. Molecules, 2017, 22, 915. | 1.7 | 4 |
| 741 | Sequence Analysis, Kinetic Constants, and Anion Inhibition Profile of the Nacrein-Like Protein (CgiNAP2X1) from the Pacific Oyster Magallana gigas (Ex-Crassostrea gigas). Marine Drugs, 2017, 15, 270. | 2.2 | 3 |
| 742 | Insights into the binding mode of sulphamates and sulphamides to hCA II: crystallographic studies and binding free energy calculations. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1002-1011. | 2.5 | 26 |
| 743 | Inhibition of pH regulation as a therapeutic strategy in hypoxic human breast cancer cells. Oncotarget, 2017, 8, 42857-42875. | 0.8 | 62 |
| 744 | Inhibition of Bacterial Carbonic Anhydrases as a Novel Approach to Escape Drug Resistance. Current Topics in Medicinal Chemistry, 2017, 17, 1237-1248. | 1.0 | 48 |
| 745 | The Warburg Effect and the Hallmarks of Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 164-170. | 0.9 | 258 |
| 746 | Identification and characterization of a novel zebrafish (Danio rerio) pentraxinâ€“carbonic anhydrase. PeerJ, 2017, 5, e4128. | 0.9 | 8 |
| 747 | Acetylcholinesterase and carbonic anhydrase isoenzymes I and II inhibition profiles of taxifolin. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-7. | 2.5 | 91 |
| 748 | Carbonic anhydrase IX correlates with survival and is a potential therapeutic target for neuroblastoma. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-6. | 2.5 | 18 |
| 749 | Editorial (Thematic Issue: Challenging Organic Syntheses and Pharmacological Applications of) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 0.9 | 4 |
| 750 | Non-Classical Inhibition of Carbonic Anhydrase. International Journal of Molecular Sciences, 2016, 17, 1150. | 1.8 | 98 |
| 751 | Phenols and Polyphenols as Carbonic Anhydrase Inhibitors. Molecules, 2016, 21, 1649. | 1.7 | 68 |
| 752 | Polyamines and Î±-Carbonic Anhydrases. Molecules, 2016, 21, 1726. | 1.7 | 6 |
| 753 | Legionella pneumophila Carbonic Anhydrases: Underexplored Antibacterial Drug Targets. Pathogens, 2016, 5, 44. | 1.2 | 41 |
| 754 | CO2 and HCO3- Permeability of the Rat Liver Mitochondrial Membrane. Cellular Physiology and Biochemistry, 2016, 39, 2014-2024. | 1.1 | 19 |
| 755 | Coral Carbonic Anhydrases: Regulation by Ocean Acidification. Marine Drugs, 2016, 14, 109. | 2.2 | 39 |
| 756 | Synthesis and carbonic anhydrase inhibitory effects of new N-glycosylsulfonamides incorporating the phenol moiety. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3892-3895. | 1.0 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 757 | Discovery of New Potential Antiâ€Infective Compounds Based on Carbonic Anhydrase Inhibitors by Rational Targetâ€Focused Repurposing Approaches. ChemMedChem, 2016, 11, 1904-1914. | 1.6 | 49 |
| 758 | New light on bacterial carbonic anhydrases phylogeny based on the analysis of signal peptide sequences. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1254-1260. | 2.5 | 70 |
| 759 | Inâ€…Vivo Evaluation of Selective Carbonic Anhydrase Inhibitors as Potential Anticonvulsant Agents. ChemMedChem, 2016, 11, 1812-1818. | 1.6 | 36 |
| 760 | 9,10â€Dibromoâ€Nâ€arylâ€9,10â€dihydroâ€9,10â€[3,4]epipyrroloanthraceneâ€12,14â€diones: Synthesis and Investigation of Their Effects on Carbonic Anhydrase Isozymes I, II, IX, and XII. Archiv Der Pharmazie, 2016, 349, 466-474. | 2.1 | 32 |
| 761 | A Combined Crystallographic and Theoretical Study Explains the Capability of Carboxylic Acids to Adopt Multiple Binding Modes in the Active Site of Carbonic Anhydrases. Chemistry - A European Journal, 2016, 22, 97-100. | 1.7 | 43 |
| 762 | Synthesis of some tetrahydropyrimidine-5-carboxylates, determination of their metal chelating effects and inhibition profiles against acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1531-1539. | 2.5 | 101 |
| 763 | N-Nitrosulfonamides: A new chemotype for carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2016, 24, 3612-3617. | 1.4 | 42 |
| 764 | Carbonic anhydrase inhibition and the management of neuropathic pain. Expert Review of Neurotherapeutics, 2016, 16, 961-968. | 1.4 | 124 |
| 765 | Synthesis of two phloroglucinol derivatives with cinnamyl moieties as inhibitors of the carbonic anhydrase isozymes I and II: anin vitrostudy. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 208-212. | 2.5 | 9 |
| 766 | A substituted sulfonamide and its Co (II), Cu (II), and Zn (II) complexes as potential antifungal agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 51-62. | 2.5 | 43 |
| 767 | Anion inhibition profiles of Î±-, Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2016, 24, 3413-3417. | 1.4 | 49 |
| 768 | Synthesis and bioactivity studies on new 4-(3-(4-Substitutedphenyl)-3a,4-dihydro-3H-indeno[1,2-c]pyrazol-2-yl) benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1619-1624. | 2.5 | 113 |
| 769 | Acetylcholinesterase and carbonic anhydrase inhibitory properties of novel urea and sulfamide derivatives incorporating dopaminergic 2-aminotetralin scaffolds. Bioorganic and Medicinal Chemistry, 2016, 24, 2318-2329. | 1.4 | 131 |
| 770 | The synthesis of some Î²-lactams and investigation of their metal-chelating activity, carbonic anhydrase and acetylcholinesterase inhibition profiles. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 79-88. | 2.5 | 92 |
| 771 | Lansoprazole and carbonic anhydrase IX inhibitors sinergize against human melanoma cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 119-125. | 2.5 | 54 |
| 772 | Isoform-selective inhibitory profile of 2-imidazoline-substituted benzene sulfonamides against a panel of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 197-202. | 2.5 | 21 |
| 773 | The anticonvulsant sulfamide JNJ-26990990 and its S,S-dioxide analog strongly inhibit carbonic anhydrases: solution and X-ray crystallographic studies. Organic and Biomolecular Chemistry, 2016, 14, 4853-4858. | 1.5 | 26 |
| 774 | Novel sulfonamide bearing coumarin scaffolds as selective inhibitors of tumor associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 2882-2886. | 1.4 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 775 | Pyrazolylbenzo[ d ]imidazoles as new potent and selective inhibitors of carbonic anhydrase isoforms hCA IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 2907-2913. | 1.4 | 34 |
| 776 | PEGylated Bis-Sulfonamide Carbonic Anhydrase Inhibitors Can Efficiently Control the Growth of Several Carbonic Anhydrase IX-Expressing Carcinomas. Journal of Medicinal Chemistry, 2016, 59, 5077-5088. | 2.9 | 53 |
| 777 | Synthesis of 4-(thiazol-2-ylamino)-benzenesulfonamides with carbonic anhydrase I, II and IX inhibitory activity and cytotoxic effects against breast cancer cell lines. Bioorganic and Medicinal Chemistry, 2016, 24, 3043-3051. | 1.4 | 53 |
| 778 | An Unusual Natural Product Primary Sulfonamide: Synthesis, Carbonic Anhydrase Inhibition, and Protein X-ray Structures of Psammaplin C. Journal of Medicinal Chemistry, 2016, 59, 5462-5470. | 2.9 | 40 |
| 779 | Synthesis, cytotoxicity and carbonic anhydrase inhibitory activities of new pyrazolines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 20-24. | 2.5 | 52 |
| 780 | Synthesis and bioactivities of halogen bearing phenolic chalcones and their corresponding bis Mannich bases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 125-131. | 2.5 | 51 |
| 781 | Benzoxaborole as a new chemotype for carbonic anhydrase inhibition. Chemical Communications, 2016, 52, 11983-11986. | 2.2 | 69 |
| 782 | Cloning, expression, purification and sulfonamide inhibition profile of the complete domain of the Î·-carbonic anhydrase from Plasmodium falciparum. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4184-4190. | 1.0 | 37 |
| 783 | Bortezomib inhibits bacterial and fungal Î²-carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2016, 24, 4406-4409. | 1.4 | 29 |
| 784 | Sources of protons and a role for bicarbonate in inhibitory feedback from horizontal cells to cones in Ambystoma tigrinum retina. Journal of Physiology, 2016, 594, 6661-6677. | 1.3 | 29 |
| 785 | Indazole, Pyrazole, and Oxazole Derivatives Targeting Nitric Oxide Synthases and Carbonic Anhydrases. ChemMedChem, 2016, 11, 1695-1699. | 1.6 | 26 |
| 786 | Identification and inhibition of carbonic anhydrases from nematodes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 176-184. | 2.5 | 23 |
| 787 | CA IX stratification based on cancer treatment: a patent evaluation of US2016/0002350. Expert Opinion on Therapeutic Patents, 2016, 26, 1105-1109. | 2.4 | 5 |
| 788 | Microwave-assisted extraction, HPLC analysis, and inhibitory effects on carbonic anhydrase I, II, VA, and VII isoforms of 14 blueberry Italian cultivars. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-6. | 2.5 | 51 |
| 789 | Mycobacterial carbonic anhydrase inhibition with phenolic acids and esters: kinetic and computational investigations. Organic and Biomolecular Chemistry, 2016, 14, 8322-8330. | 1.5 | 29 |
| 790 | Investigation of the inhibitory properties of some phenolic standards and bee products against human carbonic anhydrase I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 119-124. | 2.5 | 10 |
| 791 | Anion inhibition profiles of the complete domain of the Î·-carbonic anhydrase from Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2016, 24, 4410-4414. | 1.4 | 34 |
| 792 | Cloning, expression and purification of the complete domain of theÎ·-carbonic anhydrase fromPlasmodium falciparum. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 54-59. | 2.5 | 59 |

| # | Article | IF | Citations |
|---|---|---|---|
| 793 | Overexpression of the transmembrane carbonic anhydrase isoforms IX and XII in the inflamed synovium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 60-63. | 2.5 | 82 |
| 794 | Regulation of HIF1Î± under Hypoxia by APE1/Ref-1 Impacts CA9 Expression: Dual Targeting in Patient-Derived 3D Pancreatic Cancer Models. Molecular Cancer Therapeutics, 2016, 15, 2722-2732. | 1.9 | 91 |
| 795 | Structureâ€“Activity Relationship for Sulfonamide Inhibition of Helicobacter pylori Î±-Carbonic Anhydrase. Journal of Medicinal Chemistry, 2016, 59, 11098-11109. | 2.9 | 48 |
| 796 | Protozoan Carbonic Anhydrases. Topics in Medicinal Chemistry, 2016, , 111-133. | 0.4 | 1 |
| 797 | Synthesis and carbonic anhydrase inhibitory activities of new thienyl-substituted pyrazoline benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-5. | 2.5 | 46 |
| 798 | Synthesis and bioactivity studies of 1-aryl-3-(2-hydroxyethylthio)-1-propanones. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 105-109. | 2.5 | 12 |
| 799 | Structure and function of carbonic anhydrases. Biochemical Journal, 2016, 473, 2023-2032. | 1.7 | 688 |
| 800 | Discovery of HIV Typeâ€…1 Aspartic Protease Hit Compounds through Combined Computational Approaches. ChemMedChem, 2016, 11, 1646-1652. | 1.6 | 3 |
| 801 | Bacterial Carbonic Anhydrases. Topics in Medicinal Chemistry, 2016, , 135-152. | 0.4 | 2 |
| 802 | Synthesis and carbonic anhydrase inhibitory properties of novel chalcone substituted benzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5867-5870. | 1.0 | 40 |
| 803 | Benzenesulfonamides Incorporating Flexible Triazole Moieties Are Highly Effective Carbonic Anhydrase Inhibitors: Synthesis and Kinetic, Crystallographic, Computational, and Intraocular Pressure Lowering Investigations. Journal of Medicinal Chemistry, 2016, 59, 10692-10704. | 2.9 | 93 |
| 804 | Multicomponent chemistry in the synthesis of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 185-199. | 2.5 | 14 |
| 805 | Dynameric host frameworks for the activation of lipase through H-bond and interfacial encapsulation. Chemical Communications, 2016, 52, 13768-13770. | 2.2 | 13 |
| 806 | Active Components of Essential Oils as Anti-Obesity Potential Drugs Investigated by in Silico Techniques. Journal of Agricultural and Food Chemistry, 2016, 64, 5295-5300. | 2.4 | 31 |
| 807 | Monothiocarbamates Strongly Inhibit Carbonic Anhydrases in Vitro and Possess Intraocular Pressure Lowering Activity in an Animal Model of Glaucoma. Journal of Medicinal Chemistry, 2016, 59, 5857-5867. | 2.9 | 54 |
| 808 | Synthesis and in Vivo Biological Evaluation of <sup>68</sup>Ga-Labeled Carbonic Anhydrase IX Targeting Small Molecules for Positron Emission Tomography. Journal of Medicinal Chemistry, 2016, 59, 6431-6443. | 2.9 | 33 |
| 809 | Synthesis of 4,5-disubstituted-2-thioxo-1,2,3,4-tetrahydropyrimidines and investigation of their acetylcholinesterase, butyrylcholinesterase, carbonic anhydrase I/II inhibitory and antioxidant activities. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1-9. | 2.5 | 125 |
| 810 | 1,2-Benzisothiazole Derivatives Bearing 4-, 5-, or 6-Alkyl/arylcarboxamide Moieties Inhibit Carbonic Anhydrase Isoform IX (CAIX) and Cell Proliferation under Hypoxic Conditions. Journal of Medicinal Chemistry, 2016, 59, 6547-6552. | 2.9 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 811 | Design, synthesis and biological evaluation ofN-(5-methyl-isoxazol-3-yl/1,3,4-thiadiazol-2-yl)-4-(3-substitutedphenylureido) benzenesulfonamides as human carbonic anhydrase isoenzymes I, II, VII and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 174-179. | 2.5 | 23 |
| 812 | Microwave assisted synthesis of novel acridineâ€“acetazolamide conjugates and investigation of their inhibition effects on human carbonic anhydrase isoforms hCA I, II, IV and VII. Bioorganic and Medicinal Chemistry, 2016, 24, 3548-3555. | 1.4 | 10 |
| 813 | Kinetic and X-ray crystallographic investigations of substituted 2-thio-6-oxo-1,6-dihydropyrimidineâ€“benzenesulfonamides acting as carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 3643-3648. | 1.4 | 15 |
| 814 | Synthesis of diaryl ethers with acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase inhibitory actions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 79-85. | 2.5 | 125 |
| 815 | Synthesis 4-[2-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-ethyl]-benzenesulfonamides with subnanomolar carbonic anhydrase II and XII inhibitory properties. Bioorganic and Medicinal Chemistry, 2016, 24, 4100-4107. | 1.4 | 17 |
| 816 | Synthesis of 4â€[2â€(3,4â€dimethoxybenzyl)cyclopentyl]â€1,2â€dimethoxybenzene Derivatives and Evaluations of Their Carbonic Anhydrase Isoenzymes Inhibitory Effects. Chemical Biology and Drug Design, 2016, 87, 594-607. | 1.5 | 46 |
| 817 | Dithiocarbamates with potent inhibitory activity against theSaccharomyces cerevisiaeÎ²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 132-136. | 2.5 | 17 |
| 818 | The human carbonic anhydrase isoenzymes I and II (hCA I and II) inhibition effects of trimethoxyindane derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 152-157. | 2.5 | 90 |
| 819 | Synthesis of 4-(2-substituted hydrazinyl)benzenesulfonamides and their carbonic anhydrase inhibitory effects. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 568-573. | 2.5 | 58 |
| 820 | A novel library of saccharin and acesulfame derivatives as potent and selective inhibitors of carbonic anhydrase IX and XII isoforms. Bioorganic and Medicinal Chemistry, 2016, 24, 1095-1105. | 1.4 | 55 |
| 821 | Amido/ureidosubstituted benzenesulfonamides-isatin conjugates as low nanomolar/subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform XII. European Journal of Medicinal Chemistry, 2016, 110, 259-266. | 2.6 | 77 |
| 822 | Discovery and microassay of a nitrite-dependent carbonic anhydrase activity by stable-isotope dilution gas chromatographyâ€“mass spectrometry. Amino Acids, 2016, 48, 245-255. | 1.2 | 19 |
| 823 | Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrase from Malassezia globosa with amines and amino acids. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1381-1385. | 1.0 | 28 |
| 824 | Inhibition of carbonic anhydrase isoforms I, II, IX and XII with secondary sulfonamides incorporating benzothiazole scaffolds. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1306-1311. | 2.5 | 20 |
| 825 | Sulfonamide inhibition studies of the Î±-carbonic anhydrase from the gammaproteobacterium Thiomicrospira crunogena XCL-2, TcruCA. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 401-405. | 1.0 | 2 |
| 826 | Cloning, characterization and anion inhibition studies of a Î³-carbonic anhydrase from the Antarctic bacterium Colwellia psychrerythraea. Bioorganic and Medicinal Chemistry, 2016, 24, 835-840. | 1.4 | 44 |
| 827 | Synthesis of 4-sulfamoylphenyl-benzylamine derivatives with inhibitory activity against human carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 982-988. | 1.4 | 33 |
| 828 | 4-Arylbenzenesulfonamides as Human Carbonic Anhydrase Inhibitors (hCAIs): Synthesis by Pd Nanocatalyst-Mediated Suzukiâ€“Miyaura Reaction, Enzyme Inhibition, and X-ray Crystallographic Studies. Journal of Medicinal Chemistry, 2016, 59, 721-732. | 2.9 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 829 | The inhibitory effects of phenolic Mannich bases on carbonic anhydrase I and II isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1678-1681. | 2.5 | 36 |
| 830 | Synthesis, characterization and carbonic anhydrase inhibitory activity of novel benzothiazole derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1221-1225. | 2.5 | 12 |
| 831 | Pyridazinone substituted benzenesulfonamides as potent carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1337-1341. | 1.0 | 37 |
| 832 | A new procedure for the cloning, expression and purification of the Î²-carbonic anhydrase from the pathogenic yeastMalassezia globosa, an anti-dandruff drug target. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1156-1161. | 2.5 | 30 |
| 833 | How many carbonic anhydrase inhibition mechanisms exist?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 345-360. | 2.5 | 588 |
| 834 | Synthesis and inhibitory properties of some carbamates on carbonic anhydrase and acetylcholine esterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1484-1491. | 2.5 | 39 |
| 835 | Discovery of Strecker-type Î±-aminonitriles as a new class of human carbonic anhydrase inhibitors using differential scanning fluorimetry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1707-1711. | 2.5 | 4 |
| 836 | Inhibitory effects of benzimidazole containing new phenolic Mannich bases on human carbonic anhydrase isoforms hCA I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1540-1544. | 2.5 | 14 |
| 837 | Drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2016, 12, 423-431. | 1.5 | 86 |
| 838 | Rosmarinic acid inhibits some metabolic enzymes including glutathioneS-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1698-1702. | 2.5 | 173 |
| 839 | Development of 3-(4-aminosulphonyl)-phenyl-2-mercapto-3H-quinazolin-4-ones as inhibitors of carbonic anhydrase isoforms involved in tumorigenesis and glaucoma. Bioorganic and Medicinal Chemistry, 2016, 24, 1402-1407. | 1.4 | 11 |
| 840 | PET Imaging of Carbonic Anhydrase IX Expression of HT-29 Tumor Xenograft Mice with <sup>68</sup>Ga-Labeled Benzenesulfonamides. Molecular Pharmaceutics, 2016, 13, 1137-1146. | 2.3 | 49 |
| 841 | Dynamic encapsulation and activation of carbonic anhydrase in multivalent dynameric host matrices. Chemical Communications, 2016, 52, 4053-4055. | 2.2 | 25 |
| 842 | Influence of hypoxia-dependent factors on the progression of neuroblastoma. Pediatric Surgery International, 2016, 32, 187-192. | 0.6 | 13 |
| 843 | Carbonic anhydrase inhibition and cytotoxicity studies of Mannich base derivatives of thymol. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1375-1380. | 2.5 | 38 |
| 844 | Sulfonamide inhibition studies of the Î²-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2016, 24, 1115-1120. | 1.4 | 57 |
| 845 | Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic bacterium Colwellia psychrerythraea. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1253-1259. | 1.0 | 13 |
| 846 | Anion inhibition studies of the Î²-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1406-1410. | 1.0 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 847 | Synthesis of N-alkyl (aril)-tetra pyrimidine thiones and investigation of their human carbonic anhydrase I and II inhibitory effects. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1192-1197. | 2.5 | 20 |
| 848 | Inhibition of carbonic anhydrase from Trypanosoma cruzi for the management of Chagas disease: an underexplored therapeutic opportunity. Future Medicinal Chemistry, 2016, 8, 311-324. | 1.1 | 34 |
| 849 | Synthesis and carbonic anhydrase I, II, IV and XII inhibitory properties of N-protected amino acid â€“ sulfonamide conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1476-1483. | 2.5 | 18 |
| 850 | Isatin analogs as novel inhibitors of Candida spp. Î²-carbonic anhydrase enzymes. Bioorganic and Medicinal Chemistry, 2016, 24, 1648-1652. | 1.4 | 23 |
| 851 | Sulfonamide inhibition studies of the Î²-carbonic anhydrase from the newly discovered bacterium Enterobacter sp. B13. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1821-1826. | 1.0 | 8 |
| 852 | Inhibitory effects of isatin Mannich bases on carbonic anhydrases, acetylcholinesterase, and butyrylcholinesterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1498-1501. | 2.5 | 125 |
| 853 | Comparison of the sulfonamide inhibition profiles of the Î±-, Î²- and Î³-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1941-1946. | 1.0 | 50 |
| 854 | Recombinant thermoactive phosphoenolpyruvate carboxylase (PEPC) from Thermosynechococcus elongatus and its coupling with mesophilic/thermophilic bacterial carbonic anhydrases (CAs) for the conversion of CO2 to oxaloacetate. Bioorganic and Medicinal Chemistry, 2016, 24, 220-225. | 1.4 | 18 |
| 855 | Kinetic and docking studies of cytosolic/tumor-associated carbonic anhydrase isozymes I, II and IX with some hydroxylic compounds. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1214-1220. | 2.5 | 4 |
| 856 | 7-Aryl-triazolyl-substituted sulfocoumarins are potent, selective inhibitors of the tumor-associated carbonic anhydrase IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1226-1233. | 2.5 | 43 |
| 857 | Sulfonamides incorporating heteropolycyclic scaffolds show potent inhibitory action against carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2016, 24, 921-927. | 1.4 | 18 |
| 858 | Kinetic and X-ray crystallographic investigations on carbonic anhydrase isoforms I, II, IX and XII of a thioureido analog of SLC-0111. Bioorganic and Medicinal Chemistry, 2016, 24, 976-981. | 1.4 | 63 |
| 859 | Development of certain new 2-substituted-quinazolin-4-yl-aminobenzenesulfonamide as potential antitumor agents. European Journal of Medicinal Chemistry, 2016, 109, 247-253. | 2.6 | 41 |
| 860 | The human carbonic anhydrase isoenzymes I and II inhibitory effects of some hydroperoxides, alcohols, and acetates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1248-1253. | 2.5 | 15 |
| 861 | Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. Journal of Medicinal Chemistry, 2016, 59, 462-473. | 2.9 | 75 |
| 862 | Fluorescent sulfonamide carbonic anhydrase inhibitors incorporating 1,2,3-triazole moieties: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2016, 24, 104-112. | 1.4 | 20 |
| 863 | Sulfamide derivatives with selective carbonic anhydrase VII inhibitory action. Bioorganic and Medicinal Chemistry, 2016, 24, 894-901. | 1.4 | 22 |
| 864 | Carbonic anhydrase inhibition for the management of cerebral ischemia:in vivoevaluation of sulfonamide and coumarin inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 894-899. | 2.5 | 88 |

| # | Article | IF | Citations |
|---|---|---|---|
| 865 | Inhibition of carbonic anhydrase isoforms I, II, IV, VII and XII with carboxylates and sulfonamides incorporating phthalimide/phthalic anhydride scaffolds. Bioorganic and Medicinal Chemistry, 2016, 24, 20-25. | 1.4 | 35 |
| 866 | Synthesis and carbonic anhydrase inhibitory properties of amino acid â€“ coumarin/quinolinone conjugates incorporating glycine, alanine and phenylalanine moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1198-1202. | 2.5 | 26 |
| 867 | Cloning, expression and biochemical characterization of aÎ²-carbonic anhydrase from the soil bacteriumEnterobactersp. B13. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1111-1118. | 2.5 | 8 |
| 868 | Interaction of anions with a newly characterized alpha carbonic anhydrase fromHalomonassp. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1119-1123. | 2.5 | 13 |
| 869 | Salts of 5-amino-2-sulfonamide-1,3,4-thiadiazole, a structural and analog of acetazolamide, show interesting carbonic anhydrase inhibitory properties, diuretic, and anticonvulsant action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1102-1110. | 2.5 | 11 |
| 870 | The synthesis of (Z)-4-oxo-4-(arylamino)but-2-enoic acids derivatives and determination of their inhibition properties against human carbonic anhydrase I and II isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 939-945. | 2.5 | 18 |
| 871 | Hydroxamic acid derivatives: a promising scaffold for rational compound optimization in Chagas disease. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 964-973. | 2.5 | 23 |
| 872 | The effect of caffeic acid phenethyl ester (CAPE) on metabolic enzymes including acetylcholinesterase, butyrylcholinesterase, glutathione S-transferase, lactoperoxidase, and carbonic anhydrase isoenzymes I, II, IX, and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1095-1101. | 2.5 | 142 |
| 873 | Expression and characterization of a recombinant psychrophilic Î³-carbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus Nostoc. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 810-817. | 2.5 | 7 |
| 874 | The history and rationale of using carbonic anhydrase inhibitors in the treatment of peptic ulcers. In memoriam Ioan PuÅŸcaÅŸ (1932â€“2015). Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 527-533. | 2.5 | 65 |
| 875 | The effects of some bromophenols on human carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 603-607. | 2.5 | 90 |
| 876 | The effects of some avermectins on bovine carbonic anhydrase enzyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 773-778. | 2.5 | 47 |
| 877 | Multimeric xanthates as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 946-952. | 2.5 | 13 |
| 878 | A magnificent enzyme superfamily: carbonic anhydrases, their purification and characterization. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 689-694. | 2.5 | 128 |
| 879 | Synthesis and inhibition potency of novel ureido benzenesulfonamides incorporating GABA as tumor-associated carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 205-211. | 2.5 | 15 |
| 880 | An Update on Natural Products with Carbonic Anhydrase Inhibitory Activity. Current Pharmaceutical Design, 2016, 22, 1570-1591. | 0.9 | 19 |
| 881 | An Overview of the Carbonic Anhydrases from Two Pathogens of the Oral Cavity: Streptococcus mutans and Porphyromonas gingivalis. Current Topics in Medicinal Chemistry, 2016, 16, 2359-2368. | 1.0 | 70 |
| 882 | Crystal structure and kinetic studies of a tetrameric type II Î²-carbonic anhydrase from the pathogenic bacteriumVibrio cholerae. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2449-2456. | 2.5 | 94 |

| # | Article | IF | Citations |
|---|---|---|---|
| 883 | Exploration of anionic inhibition of the Î±-carbonic anhydrase from Thiomicrospira crunogena XCL-2 gammaproteobacterium: A potential bio-catalytic agent for industrial CO2 removal. Chemical Engineering Science, 2015, 138, 575-580. | 1.9 | 11 |
| 884 | Fluorescent Silica Nanoparticles with Multivalent Inhibitory Effects towards Carbonic Anhydrases. Chemistry - A European Journal, 2015, 21, 10306-10309. | 1.7 | 23 |
| 885 | Carbonic Anhydrase VII. , 2015, , 151-168. | | 1 |
| 886 | Carbonic Anhydrase II as Target for Drug Design. , 2015, , 51-90. | | 2 |
| 887 | Evaluation of carbonic anhydrase IX as a therapeutic target for inhibition of breast cancer invasion and metastasis using a series ofin vitrobreast cancer models. Oncotarget, 2015, 6, 24856-24870. | 0.8 | 76 |
| 888 | Human Carbonic Anhydrases: Catalytic Properties, Structural Features, and Tissue Distribution. , 2015, , 17-30. | | 9 |
| 889 | Nitric Oxide Donors and Selective Carbonic Anhydrase Inhibitors: A Dual Pharmacological Approach for the Treatment of Glaucoma, Cancer and Osteoporosis. Molecules, 2015, 20, 5667-5679. | 1.7 | 35 |
| 890 | Carbonic Anhydrase Protects Fatty Liver Grafts against Ischemic Reperfusion Damage. PLoS ONE, 2015, 10, e0134499. | 1.1 | 8 |
| 891 | Hydroxylamine-O-sulfonamide is a versatile lead compound for the development of carbonic anhydrase inhibitors. Chemical Communications, 2015, 51, 11519-11522. | 2.2 | 10 |
| 892 | Carbonic Anhydrase Glycoinhibitors belonging to the Aminoxysulfonamide Series. ACS Medicinal Chemistry Letters, 2015, 6, 819-821. | 1.3 | 9 |
| 893 | In silicomodeling ofÎ²-carbonic anhydrase inhibitors from the fungusMalassezia globosaas antidandruff agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 31, 1-8. | 2.5 | 8 |
| 894 | Design and synthesis of benzothiazole-6-sulfonamides acting as highly potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 4989-4999. | 1.4 | 35 |
| 895 | Protonography, a powerful tool for analyzing the activity and the oligomeric state of the Î³-carbonic anhydrase identified in the genome of Porphyromonas gingivalis. Bioorganic and Medicinal Chemistry, 2015, 23, 3747-3750. | 1.4 | 41 |
| 896 | New pyrazolo[4,3-e][1,2,4]triazine sulfonamides as carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2015, 23, 3674-3680. | 1.4 | 36 |
| 897 | Cloning, characterization and anion inhibition study of a Î²-class carbonic anhydrase from the caries producing pathogen Streptococcus mutans. Bioorganic and Medicinal Chemistry, 2015, 23, 2995-3001. | 1.4 | 27 |
| 898 | 5-Aryl-1H-pyrazole-3-carboxylic acids as selective inhibitors of human carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 4649-4659. | 1.4 | 18 |
| 899 | The zinc coordination pattern in the Î·-carbonic anhydrase from Plasmodium falciparum is different from all other carbonic anhydrase genetic families. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1385-1389. | 1.0 | 108 |
| 900 | Crystal structure of the most catalytically effective carbonic anhydrase enzyme known, SazCA from the thermophilic bacterium Sulfurihydrogenibium azorense. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2002-2006. | 1.0 | 72 |

| # | Article | IF | Citations |
|---|---|---|---|
| 901 | Cloning, characterization and anion inhibition studies of a Î³-carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4970-4975. | 1.0 | 13 |
| 902 | Inhibition of carbonic anhydrase isoforms I, II, IX and XII with Schiffâ€™s bases incorporating iminoureido moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 901-907. | 2.5 | 13 |
| 903 | N-glycosyl-N-hydroxysulfamides as potent inhibitors of Brucella suis carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 1010-1012. | 2.5 | 6 |
| 904 | Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. Bioorganic and Medicinal Chemistry, 2015, 23, 7751-7764. | 1.4 | 17 |
| 905 | Saccharin: A lead compound for structure-based drug design of carbonic anhydrase IX inhibitors. Bioorganic and Medicinal Chemistry, 2015, 23, 849-854. | 1.4 | 69 |
| 906 | A new class of quinazoline-sulfonamides acting as efficient inhibitors against the Î±-carbonic anhydrase fromTrypanosoma cruzi. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 581-585. | 2.5 | 26 |
| 907 | Synthesis of Enantiomeric Aminoalkylcarbamoylphosphonates and Their Evaluation as Dualâ€Action Anticancer MMP and Carbonic Anhydrase Inhibitors. Heteroatom Chemistry, 2015, 26, 257-269. | 0.4 | 6 |
| 908 | Carbamoylphosphonates inhibit autotaxin and metastasis formationin vivo. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 767-772. | 2.5 | 11 |
| 909 | Inhibition of Î²-carbonic anhydrases from Brucella suis with C-cinnamoyl glycosides incorporating the phenol moiety. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 1017-1020. | 2.5 | 13 |
| 910 | Î±-Carbonic Anhydrases Possess Thioesterase Activity. ACS Medicinal Chemistry Letters, 2015, 6, 292-295. | 1.3 | 36 |
| 911 | Computational investigation of the selectivity of salen and tetrahydrosalen compounds towards the tumor-associated hCA XII isozyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 114-118. | 2.5 | 40 |
| 912 | Carbonic Anhydrase Inhibitors with Dual-Tail Moieties To Match the Hydrophobic and Hydrophilic Halves of the Carbonic Anhydrase Active Site. Journal of Medicinal Chemistry, 2015, 58, 1494-1501. | 2.9 | 83 |
| 913 | The Î·-class carbonic anhydrases as drug targets for antimalarial agents. Expert Opinion on Therapeutic Targets, 2015, 19, 551-563. | 1.5 | 146 |
| 914 | The impact of hydroquinone on acetylcholine esterase and certain human carbonic anhydrase isoenzymes (hCA I, II, IX, and XII). Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 941-946. | 2.5 | 96 |
| 915 | Protonography, a technique applicable for the analysis ofÎ·-carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 920-924. | 2.5 | 48 |
| 916 | Exploring QSARs of some benzenesulfonamides incorporating cyanoacrylamide moieties as a carbonic anhydrase inhibitors (specifically against tumor-associated isoforms IX and XII). Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 519-523. | 2.5 | 8 |
| 917 | A failed tentative to design a super carbonic anhydrase having the biochemical properties of the most thermostable CA (SspCA) and the fastest (SazCA) enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 989-994. | 2.5 | 13 |
| 918 | Plasmonic Particles that Hit Hypoxic Cells. Advanced Functional Materials, 2015, 25, 316-323. | 7.8 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 919 | Dipotassium-trioxohydroxytetrafluorotriborate, K<sub>2</sub>[B<sub>3</sub>O<sub>3</sub>F<sub>4</sub>OH], is a potent inhibitor of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 341-344. | 2.5 | 29 |
| 920 | Investigation of arenesulfonyl-2-imidazolidinones as potent carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 81-84. | 2.5 | 40 |
| 921 | Synthesis of pro-apoptotic indapamide derivatives as anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 967-980. | 2.5 | 6 |
| 922 | Synthesis of 6-aryl-substituted sulfocoumarins and investigation of their carbonic anhydrase inhibitory action. Bioorganic and Medicinal Chemistry, 2015, 23, 1430-1436. | 1.4 | 43 |
| 923 | Biochemical characterization of recombinant Î²-carbonic anhydrase (PgiCAb) identified in the genome of the oral pathogenic bacteriumPorphyromonas gingivalis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 366-370. | 2.5 | 66 |
| 924 | Kinetic characterization of 4,4â€²-biphenylsulfonamides as selective non-zinc binding MMP inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 947-954. | 2.5 | 15 |
| 925 | New approaches to the synthesis of sildenafil analogues and their enzyme inhibitory activity. Bioorganic and Medicinal Chemistry, 2015, 23, 1421-1429. | 1.4 | 35 |
| 926 | A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. Bioorganic and Medicinal Chemistry, 2015, 23, 1828-1840. | 1.4 | 126 |
| 927 | Synthesis of a novel affinity gel for the purification of carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 240-244. | 2.5 | 24 |
| 928 | [18F]VM4-037 MicroPET Imaging and Biodistribution of Two In Vivo CAIX-Expressing Tumor Models. Molecular Imaging and Biology, 2015, 17, 615-619. | 1.3 | 40 |
| 929 | Synthesis of 3,4-dihydroxypyrrolidine-2,5-dione and 3,5-dihydroxybenzoic acid derivatives and evaluation of the carbonic anhydrase I and II inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 896-900. | 2.5 | 21 |
| 930 | Synthesis of sulfonamide conjugates of Cu(<scp>ii</scp>), Ga(<scp>iii</scp>), In(<scp>iii</scp>), Re(<scp>v</scp>) and Zn(<scp>ii</scp>) complexes: carbonic anhydrase inhibition studies and cellular imaging investigations. Dalton Transactions, 2015, 44, 4859-4873. | 1.6 | 30 |
| 931 | Trimeric Radiofluorinated Sulfonamide Derivatives to Achieve In Vivo Selectivity for Carbonic Anhydrase IXâ€“Targeted PET Imaging. Journal of Nuclear Medicine, 2015, 56, 1434-1440. | 2.8 | 48 |
| 932 | Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic bacterium Pseudoalteromonas haloplanktis. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3550-3555. | 1.0 | 28 |
| 933 | Acatalytic Carbonic Anhydrases (CAs VIII, X, XI). , 2015, , 239-245. | | 4 |
| 934 | Bacterial Carbonic Anhydrases as Drug Targets. , 2015, , 275-288. | | 2 |
| 935 | Synthesis and carbonic anhydrase I, II, IX and XII inhibitory activity of sulfamates incorporating piperazinyl-ureido moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 5619-5625. | 1.4 | 15 |
| 936 | Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3850-3853. | 1.0 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 937 | Bacterial, fungal and protozoan carbonic anhydrases as drug targets. Expert Opinion on Therapeutic Targets, 2015, 19, 1689-1704. | 1.5 | 174 |
| 938 | Carbonic anhydrase inhibitors: Design, synthesis and structural characterization of new heteroaryl-N-carbonylbenzenesulfonamides targeting druggable human carbonic anhydrase isoforms. European Journal of Medicinal Chemistry, 2015, 102, 223-232. | 2.6 | 24 |
| 939 | Mapping Selective Inhibition of the Cancer-Related Carbonic Anhydrase IX Using Structureâ€“Activity Relationships of Glucosyl-Based Sulfamates. Journal of Medicinal Chemistry, 2015, 58, 6630-6638. | 2.9 | 25 |
| 940 | Hit Recycling: Discovery of a Potent Carbonic Anhydrase Inhibitor by in Silico Target Fishing. ACS Chemical Biology, 2015, 10, 1964-1969. | 1.6 | 19 |
| 941 | Eriocitrin and Apigenin as New Carbonic Anhydrase VA Inhibitors from a Virtual Screening of Calabrian Natural Products. Planta Medica, 2015, 81, 533-540. | 0.7 | 31 |
| 942 | Sulfonamide inhibition study of the Î²-class carbonic anhydrase from the caries producing pathogen Streptococcus mutans. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2291-2297. | 1.0 | 31 |
| 943 | Cloning, characterization and anion inhibition studies of a new Î³-carbonic anhydrase from the Antarctic bacterium Pseudoalteromonas haloplanktis. Bioorganic and Medicinal Chemistry, 2015, 23, 4405-4409. | 1.4 | 26 |
| 944 | Inhibition studies of bacterial, fungal and protozoan Î²-class carbonic anhydrases with Schiff bases incorporating sulfonamide moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 4181-4187. | 1.4 | 29 |
| 945 | Acetazolamide for the treatment of idiopathic intracranial hypertension. Expert Review of Neurotherapeutics, 2015, 15, 851-856. | 1.4 | 128 |
| 946 | Structure and inhibition studies of a type II beta-carbonic anhydrase psCA3 from Pseudomonas aeruginosa. Bioorganic and Medicinal Chemistry, 2015, 23, 4831-4838. | 1.4 | 56 |
| 947 | Exploring carbonic anhydrase inhibition with multimeric coumarins displayed on a fullerene scaffold. Organic and Biomolecular Chemistry, 2015, 13, 7445-7451. | 1.5 | 37 |
| 948 | New 4-[(3-cyclohexyl-4-aryl-2,3-dihydro-1,3-thiazol-2-ylidene)amino]benzene-1-sulfonamides, synthesis and inhibitory activity toward carbonic anhydrase I, II, IX, XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3281-3284. | 1.0 | 19 |
| 949 | Sulfonamide bearing pyrazolylpyrazolines as potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3208-3212. | 1.0 | 43 |
| 950 | Carbonic Anhydrases From Extremophiles and Their Biotechnological Applications. , 2015, , 311-324. | | 0 |
| 951 | Probing the â€˜bipolarâ€™ nature of the carbonic anhydrase active site: Aromatic sulfonamides containing 1,3-oxazol-5-yl moiety as picomolar inhibitors of cytosolic CA I and CA II isoforms. European Journal of Medicinal Chemistry, 2015, 101, 334-347. | 2.6 | 48 |
| 952 | Fluorinated pyrrolidines and piperidines incorporating tertiary benzenesulfonamide moieties are selective carbonic anhydrase II inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 737-745. | 2.5 | 31 |
| 953 | Discovery of potent carbonic anhydrase and acetylcholine esterase inhibitors: Novel sulfamoylcarbamates and sulfamides derived from acetophenones. Bioorganic and Medicinal Chemistry, 2015, 23, 3592-3602. | 1.4 | 137 |
| 954 | The Î²-carbonic anhydrase from the malaria mosquito Anopheles gambiae is highly inhibited by sulfonamides. Bioorganic and Medicinal Chemistry, 2015, 23, 2303-2309. | 1.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 955 | Vasorelaxation induced by dodoneine is mediated by calcium channels blockade and carbonic anhydrase inhibition on vascular smooth muscle cells. Journal of Ethnopharmacology, 2015, 169, 8-17. | 2.0 | 10 |
| 956 | Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. Bioorganic and Medicinal Chemistry, 2015, 23, 2368-2376. | 1.4 | 40 |
| 957 | Designing carbonic anhydrase inhibitors for the treatment of breast cancer. Expert Opinion on Drug Discovery, 2015, 10, 591-597. | 2.5 | 43 |
| 958 | 6-Substituted Sulfocoumarins Are Selective Carbonic Anhdydrase IX and XII Inhibitors with Significant Cytotoxicity against Colorectal Cancer Cells. Journal of Medicinal Chemistry, 2015, 58, 3975-3983. | 2.9 | 87 |
| 959 | Synthesis, carbonic anhydrase inhibition and cytotoxic activity of novel chromone-based sulfonamide derivatives. European Journal of Medicinal Chemistry, 2015, 96, 425-435. | 2.6 | 46 |
| 960 | Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII. Organic and Biomolecular Chemistry, 2015, 13, 6493-6499. | 1.5 | 55 |
| 961 | New amide derivatives of Probenecid as selective inhibitors of carbonic anhydrase IX and XII: Biological evaluation and molecular modelling studies. Bioorganic and Medicinal Chemistry, 2015, 23, 2975-2981. | 1.4 | 32 |
| 962 | 7-Amino-3,4-dihydro-1H-quinolin-2-one, a compound similar to the substituted coumarins, inhibitsÎ±-carbonic anhydrases without hydrolysis of the lactam ring. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 773-777. | 2.5 | 25 |
| 963 | Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. Bioorganic and Medicinal Chemistry, 2015, 23, 1728-1734. | 1.4 | 33 |
| 964 | Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms Iâ€“XIV. Organic and Biomolecular Chemistry, 2015, 13, 6453-6457. | 1.5 | 13 |
| 965 | C-glycosides incorporating the 6-methoxy-2-naphthyl moiety are selective inhibitors of fungal and bacterial carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 857-861. | 2.5 | 23 |
| 966 | Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2377-2381. | 1.0 | 37 |
| 967 | N-Acylsulfonamides strongly inhibit human carbonic anhydrase isoenzymes I and II. Bioorganic and Medicinal Chemistry, 2015, 23, 2598-2605. | 1.4 | 142 |
| 968 | Design and Validation of FRESH, a Drug Discovery Paradigm Resting on Robust Chemical Synthesis. ACS Medicinal Chemistry Letters, 2015, 6, 518-522. | 1.3 | 11 |
| 969 | X-ray crystallography-promoted drug design of carbonic anhydrase inhibitors. Chemical Communications, 2015, 51, 7108-7111. | 2.2 | 61 |
| 970 | Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. Journal of Medicinal Chemistry, 2015, 58, 4039-4045. | 2.9 | 31 |
| 971 | Synthesis of novel acridine bis-sulfonamides with effective inhibitory activity against the carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 6573-6580. | 1.4 | 27 |
| 972 | Spirobisnaphthalenes effectively inhibit carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 31, 1-5. | 2.5 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 973 | Carbonic anhydrase IX inhibition is an effective strategy for osteosarcoma treatment. Expert Opinion on Therapeutic Targets, 2015, 19, 1593-1605. | 1.5 | 28 |
| 974 | Anion inhibition studies of the dandruff-producing fungus Malassezia globosa Î²-carbonic anhydrase MgCA. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5194-5198. | 1.0 | 27 |
| 975 | Inhibition of mammalian carbonic anhydrase isoforms Iâ€“XIV with a series of phenolic acid esters. Bioorganic and Medicinal Chemistry, 2015, 23, 7181-7188. | 1.4 | 26 |
| 976 | Discovery of 1,1â€²-Biphenyl-4-sulfonamides as a New Class of Potent and Selective Carbonic Anhydrase XIV Inhibitors. Journal of Medicinal Chemistry, 2015, 58, 8564-8572. | 2.9 | 40 |
| 977 | Carbonic anhydrase inhibitors: Design, synthesis, kinetic, docking and molecular dynamics analysis of novel glycine and phenylalanine sulfonamide derivatives. Bioorganic and Medicinal Chemistry, 2015, 23, 7353-7358. | 1.4 | 39 |
| 978 | New natural product carbonic anhydrase inhibitors incorporating phenol moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 7219-7225. | 1.4 | 43 |
| 979 | Exploring new Probenecid-based carbonic anhydrase inhibitors: Synthesis, biological evaluation and docking studies. Bioorganic and Medicinal Chemistry, 2015, 23, 5311-5318. | 1.4 | 45 |
| 980 | Click-tailed coumarins with potent and selective inhibitory action against the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 6955-6966. | 1.4 | 71 |
| 981 | Ascaris lumbricoides Î² carbonic anhydrase: a potential target enzyme for treatment of ascariasis. Parasites and Vectors, 2015, 8, 479. | 1.0 | 26 |
| 982 | Cyclodextrin complexation highly enhances efficacy of arylsulfonylureido benzenesulfonamide carbonic anhydrase inhibitors as a topical antiglaucoma agents. Bioorganic and Medicinal Chemistry, 2015, 23, 6223-6227. | 1.4 | 10 |
| 983 | Carbonic anhydrase IX inhibitors in cancer therapy: an update. Future Medicinal Chemistry, 2015, 7, 1407-1414. | 1.1 | 135 |
| 984 | Emerging trends in enzyme inhibition by multivalent nanoconstructs. Organic and Biomolecular Chemistry, 2015, 13, 9894-9906. | 1.5 | 81 |
| 985 | Critical role for prokineticin 2 in CNS autoimmunity. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e95. | 3.1 | 29 |
| 986 | New ways to image and target tumour hypoxia and its molecular responses. Radiotherapy and Oncology, 2015, 116, 352-357. | 0.3 | 49 |
| 987 | Phosphate Chemical Probes Designed for Location Specific Inhibition of Intracellular Carbonic Anhydrases. Journal of Medicinal Chemistry, 2015, 58, 7580-7590. | 2.9 | 12 |
| 988 | Isatin-pyrazole benzenesulfonamide hybrids potently inhibit tumor-associated carbonic anhydrase isoforms IX and XII. European Journal of Medicinal Chemistry, 2015, 103, 583-593. | 2.6 | 92 |
| 989 | Anion and sulfonamide inhibition studies of an Î±-carbonic anhydrase from the Antarctic hemoglobinless fish Chionodraco hamatus. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5485-5489. | 1.0 | 2 |
| 990 | Interaction of carbonic anhydrase isozymes I, II, and IX with some pyridine and phenol hydrazinecarbothioamide derivatives. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5636-5641. | 1.0 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 991 | Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against Î±-, Î²-, Î³- and Î´-class enzymes. Bioorganic and Medicinal Chemistry, 2015, 23, 6794-6798. | 1.4 | 29 |
| 992 | Efficient Expression and Crystallization System of Cancer-Associated Carbonic Anhydrase Isoform IX. Journal of Medicinal Chemistry, 2015, 58, 9004-9009. | 2.9 | 141 |
| 993 | Carbonic anhydrase and acetylcholinesterase inhibitory effects of carbamates and sulfamoylcarbamates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 316-320. | 2.5 | 116 |
| 994 | Sulfonamide inhibition studies of the Î´-class carbonic anhydrase from the malaria pathogen Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2015, 23, 526-531. | 1.4 | 52 |
| 995 | Synthesis and Carbonic Anhydrase Isoenzymes I, II, IX, and XII Inhibitory Effects of Dimethoxybromophenol Derivatives Incorporating Cyclopropane Moieties. Journal of Medicinal Chemistry, 2015, 58, 640-650. | 2.9 | 187 |
| 996 | Carbonic anhydrase inhibitors: guaiacol and catechol derivatives effectively inhibit certain human carbonic anhydrase isoenzymes (hCA I, II, IX and XII). Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 586-591. | 2.5 | 121 |
| 997 | Inhibition studies of quinazoline-sulfonamide derivatives against the Î³-CA (PgiCA) from the pathogenic bacterium,Porphyromonas gingivalis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 592-596. | 2.5 | 45 |
| 998 | Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 689-721. | 2.5 | 93 |
| 999 | Inhibition of human carbonic anhydrase isozymes I, II, IX and XII with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 52-56. | 2.5 | 40 |
| 1000 | Out of the active site binding pocket for carbonic anhydrase inhibitors. Chemical Communications, 2015, 51, 302-305. | 2.2 | 111 |
| 1001 | 6-Substituted 1,2-benzoxathiine-2,2-dioxides are isoform-selective inhibitors of human carbonic anhydrases IX, XII and VA. Organic and Biomolecular Chemistry, 2015, 13, 77-80. | 1.5 | 39 |
| 1002 | Peptidomimetics as protein arginine deiminase 4 (PAD4) inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 466-471. | 2.5 | 18 |
| 1003 | Drosophila melanogaster: a model organism for controllingDipteranvectors and pests. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 505-513. | 2.5 | 40 |
| 1004 | New series of sulfonamides containing amino acid moiety act as effective and selective inhibitors of tumor-associated carbonic anhydrase XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 430-434. | 2.5 | 32 |
| 1005 | A new affinity gel for the purification ofÎ±-carbonic anhdrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 224-228. | 2.5 | 19 |
| 1006 | Protonography, a new technique for the analysis of carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 277-282. | 2.5 | 81 |
| 1007 | Synthesis and biological activity of novel thiourea derivatives as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 75-80. | 2.5 | 69 |
| 1008 | An overview of the alpha-, beta- and gamma-carbonic anhydrases fromBacteria: can bacterial carbonic anhydrases shed new light on evolution of bacteria?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 325-332. | 2.5 | 328 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1009 | Recent advances in the discovery of zinc-binding motifs for the development of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 321-324. | 2.5 | 74 |
| 1010 | Carbonic Anhydrases: An Overview. , 2015, , 3-13. | | 22 |
| 1011 | Structural Basis for the Inhibition of Helicobacter pylori Î±-Carbonic Anhydrase by Sulfonamides. PLoS ONE, 2015, 10, e0127149. | 1.1 | 45 |
| 1012 | Dual Cyclooxygenase and Carbonic Anhydrase Inhibition by Nonsteroidal Anti-Inflammatory Drugs for the Treatment of Cancer. Current Medicinal Chemistry, 2015, 22, 2812-2818. | 1.2 | 42 |
| 1013 | CDCA1 From Thalassiosira weissflogii as Representative Member of Î¶-Class CAs: General Features and Biotechnological Applications. , 2015, , 351-359. | | 0 |
| 1014 | Tumor Microenvironmental Changes Induced by the Sulfamate Carbonic Anhydrase IX Inhibitor S4 in a Laryngeal Tumor Model. PLoS ONE, 2014, 9, e108068. | 1.1 | 18 |
| 1015 | Biochemical characterization of the Î´-carbonic anhydrase from the marine diatomThalassiosira weissflogii, TweCA. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 906-911. | 2.5 | 64 |
| 1016 | Sulfonamides and their isosters as carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2014, 6, 1149-1165. | 1.1 | 172 |
| 1017 | Synthesis and evaluation of <sup>18</sup>F-labeled carbonic anhydrase IX inhibitors for imaging with positron emission tomography. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 249-255. | 2.5 | 63 |
| 1018 | Biomimetic CO<sub>2</sub> capture using a highly thermostable bacterial Î±-carbonic anhydrase immobilized on a polyurethane foam. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 146-150. | 2.5 | 131 |
| 1019 | Characterization of carbonic anhydrase from Turkish native â€œGerzeâ€•chicken and influences of metal ions on enzyme activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 773-776. | 2.5 | 4 |
| 1020 | Carbonic anhydrase inhibitors. Phenols incorporating 2- or 3-pyridyl-ethenylcarbonyl and tertiary amine moieties strongly inhibitSaccharomyces cerevisiaeÎ²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 495-499. | 2.5 | 48 |
| 1021 | Biochemical characterization of the Î³-carbonic anhydrase from the oral pathogen Porphyromonas gingivalis, PgiCA. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 532-537. | 2.5 | 64 |
| 1022 | Monoclonal antibodies raised against 167â€“180 aa sequence of human carbonic anhydrase XII inhibit its enzymatic activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 804-810. | 2.5 | 15 |
| 1023 | Natural Product Polyamines That Inhibit Human Carbonic Anhydrases. BioMed Research International, 2014, 2014, 1-6. | 0.9 | 20 |
| 1024 | Hydrophobic Substituents of the Phenylmethylsulfamide Moiety Can Be Used for the Development of New Selective Carbonic Anhydrase Inhibitors. BioMed Research International, 2014, 2014, 1-11. | 0.9 | 14 |
| 1025 | Tumor Microenvironment as Target in Cancer Therapy. Annual Reports in Medicinal Chemistry, 2014, 49, 269-284. | 0.5 | 0 |
| 1026 | A Class of 4-Sulfamoylphenyl-Ï‰-aminoalkyl Ethers with Effective Carbonic Anhydrase Inhibitory Action and Antiglaucoma Effects. Journal of Medicinal Chemistry, 2014, 57, 9673-9686. | 2.9 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1027 | Structural Insights on Carbonic Anhydrase Inhibitory Action, Isoform Selectivity, and Potency of Sulfonamides and Coumarins Incorporating Arylsulfonylureido Groups. Journal of Medicinal Chemistry, 2014, 57, 9152-9167. | 2.9 | 55 |
| 1028 | Inhibition studies of new ureido-substituted sulfonamides incorporating a GABA moiety against human carbonic anhydrase isoforms Iâ€“XIV. Bioorganic and Medicinal Chemistry, 2014, 22, 6768-6775. | 1.4 | 23 |
| 1029 | 4-Functionalized 1,3-diarylpyrazoles bearing 6-aminosulfonylbenzothiazole moiety as potent inhibitors of carbonic anhydrase isoforms hCA I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 6945-6952. | 1.4 | 21 |
| 1030 | The structural comparison between membraneâ€associated human carbonic anhydrases provides insights into drug design of selective inhibitors. Biopolymers, 2014, 101, 769-778. | 1.2 | 44 |
| 1031 | Facilitation by intracellular carbonic anhydrase of Na<sup>+</sup>â€“HCO<sub>3</sub><sup>â^’</sup> coâ€transport but not Na<sup>+</sup>/H<sup>+</sup> exchange activity in the mammalian ventricular myocyte. Journal of Physiology, 2014, 592, 991-1007. | 1.3 | 29 |
| 1032 | Ferrier sulfamidoglycosylation of glycals catalyzed by nitrosonium tetrafluoroborate: Towards new carbonic anhydrase glycoinhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 6353-6359. | 1.4 | 18 |
| 1033 | Carbonic anhydrase inhibitory properties of novel sulfonamide derivatives of aminoindanes and aminotetralins. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 35-42. | 2.5 | 110 |
| 1034 | Carbonic Anhydrase Inhibitors Drug Design. Sub-Cellular Biochemistry, 2014, 75, 291-323. | 1.0 | 96 |
| 1035 | Carbonic Anhydrase IX: From Biology to Therapy. Cancer Drug Discovery and Development, 2014, , 121-153. | 0.2 | 4 |
| 1036 | 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. Bioorganic and Medicinal Chemistry, 2014, 22, 1586-1595. | 1.4 | 37 |
| 1037 | Carbonic anhydrase inhibitors: Synthesis, molecular docking, cytotoxic and inhibition of the human carbonic anhydrase isoforms I, II, IX, XII with novel benzenesulfonamides incorporating pyrrole, pyrrolopyrimidine and fused pyrrolopyrimidine moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 3684-3695. | 1.4 | 54 |
| 1038 | Sulfonamide inhibition studies of the Î² carbonic anhydrase from Drosophila melanogaster. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2797-2801. | 1.0 | 12 |
| 1039 | 3D-QSAR CoMFA studies on sulfonamide inhibitors of the Rv3588c Î²-carbonic anhydrase from Mycobacterium tuberculosis and design of not yet synthesized new molecules. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 449-455. | 2.5 | 43 |
| 1040 | Inhibition of mammalian carbonic anhydrases I-XIV with grayanotoxin III: solution and in silico studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 469-475. | 2.5 | 33 |
| 1041 | Pyrazolo[4,3-e][1,2,4]triazine sulfonamides as carbonic anhydrase inhibitors with antitumor activity. Bioorganic and Medicinal Chemistry, 2014, 22, 2643-2647. | 1.4 | 36 |
| 1042 | Benzenesulfonamide bearing 1,2,4-triazole scaffolds as potent inhibitors of tumor associated carbonic anhydrase isoforms hCA IX and hCA XII. Bioorganic and Medicinal Chemistry, 2014, 22, 1873-1882. | 1.4 | 44 |
| 1043 | Anion inhibition study of the Î²-carbonic anhydrase (CahB1) from the cyanobacterium Coleofasciculus chthonoplastes (ex-Microcoleus chthonoplastes). Bioorganic and Medicinal Chemistry, 2014, 22, 1667-1671. | 1.4 | 25 |
| 1044 | 6-Triazolyl-substituted sulfocoumarins are potent, selective inhibitors of the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1256-1260. | 1.0 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1045 | A Smallâ€Molecule Drug Conjugate for the Treatment of Carbonic Anhydrase IX Expressing Tumors. Angewandte Chemie - International Edition, 2014, 53, 4231-4235. | 7.2 | 242 |
| 1046 | Carbonic anhydrase inhibitors. Inhibition of human cytosolic isoforms I and II with (reduced) Schiffâ€™s bases incorporating sulfonamide, carboxylate and carboxymethyl moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 2867-2874. | 1.4 | 22 |
| 1047 | Development and biological evaluation of 99mTc-sulfonamide derivatives for inÂvivo visualization of CA IX as surrogate tumor hypoxia markers. European Journal of Medicinal Chemistry, 2014, 71, 374-384. | 2.6 | 41 |
| 1048 | Structure-based screening for the discovery of new carbonic anhydrase VII inhibitors. European Journal of Medicinal Chemistry, 2014, 71, 105-111. | 2.6 | 50 |
| 1049 | Combining the tail and the ring approaches for obtaining potent and isoform-selective carbonic anhydrase inhibitors: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2014, 22, 334-340. | 1.4 | 104 |
| 1050 | Sulfonamide inhibition studies of two Î²-carbonic anhydrases from the bacterial pathogen Legionella pneumophila. Bioorganic and Medicinal Chemistry, 2014, 22, 2939-2946. | 1.4 | 43 |
| 1051 | Dual carbonic anhydrase/matrix metalloproteinase inhibitors incorporating bisphosphonic acid moieties targeting bone tumors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2617-2620. | 1.0 | 23 |
| 1052 | 4-Functionalized 1,3-diarylpyrazoles bearing benzenesulfonamide moiety as selective potent inhibitors of the tumor associated carbonic anhydrase isoforms IX and XII. European Journal of Medicinal Chemistry, 2014, 76, 284-290. | 2.6 | 48 |
| 1053 | Inhibition of carbonic anhydrases from the extremophilic bacteria Sulfurihydrogenibium yellostonense (SspCA) and S. azorense (SazCA) with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 141-147. | 1.4 | 42 |
| 1054 | Sulfonamide inhibition studies of the Î´-carbonic anhydrase from the diatom Thalassiosira weissflogii. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 275-279. | 1.0 | 49 |
| 1055 | Cloning, characterization and anion inhibition study of the Î´-class carbonic anhydrase (TweCA) from the marine diatom Thalassiosira weissflogii. Bioorganic and Medicinal Chemistry, 2014, 22, 531-537. | 1.4 | 64 |
| 1056 | Structural Insights into Carbonic Anhydrase IX Isoform Specificity of Carbohydrate-Based Sulfamates. Journal of Medicinal Chemistry, 2014, 57, 8635-8645. | 2.9 | 50 |
| 1057 | 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. Bioorganic and Medicinal Chemistry, 2014, 22, 5883-5890. | 1.4 | 13 |
| 1058 | Carbonic anhydrase inhibitory activity of sulfonamides and carboxylic acids incorporating cyclic imide scaffolds. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5185-5189. | 1.0 | 47 |
| 1059 | Quinazolineâ€“sulfonamides with potent inhibitory activity against the Î±-carbonic anhydrase from Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2014, 22, 5133-5140. | 1.4 | 41 |
| 1060 | Novel sulfonamides bearing pyrrole and pyrrolopyrimidine moieties as carbonic anhydrase inhibitors: Synthesis, cytotoxic activity and molecular modeling. European Journal of Medicinal Chemistry, 2014, 87, 186-196. | 2.6 | 44 |
| 1061 | Cyclic Secondary Sulfonamides: Unusually Good Inhibitors of Cancer-Related Carbonic Anhydrase Enzymes. Journal of Medicinal Chemistry, 2014, 57, 3522-3531. | 2.9 | 93 |
| 1062 | Mono- and di-halogenated histamine, histidine and carnosine derivatives are potent carbonic anhydrase I, II, VII, XII and XIV activators. Bioorganic and Medicinal Chemistry, 2014, 22, 4752-4758. | 1.4 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1063 | Discovery of a new family of carbonic anhydrases in the malaria pathogen Plasmodium falciparum â€”The Î-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4389-4396. | 1.0 | 297 |
| 1064 | Cyclic tertiary sulfamates: Selective inhibition of the tumor-associated carbonic anhydrases IX and XII by N- and O-substituted acesulfame derivatives. European Journal of Medicinal Chemistry, 2014, 84, 240-246. | 2.6 | 40 |
| 1065 | Synthesis of a new series of N4-substituted 4-(2-aminoethyl)benzenesulfonamides and their inhibitory effect on human carbonic anhydrase cytosolic isozymes I and II and transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2014, 84, 59-67. | 2.6 | 17 |
| 1066 | Ethylene bis-imidazoles are highly potent and selective activators for isozymes VA and VII of carbonic anhydrase, with a potential nootropic effect. Chemical Communications, 2014, 50, 5980-5983. | 2.2 | 48 |
| 1067 | Crystal structures of two tetrameric Î²â€carbonic anhydrases from the filamentous ascomycete SordariaÂmacrospora. FEBS Journal, 2014, 281, 1759-1772. | 2.2 | 40 |
| 1068 | Furazan and furoxan sulfonamides are strong Î±-carbonic anhydrase inhibitors and potential antiglaucoma agents. Bioorganic and Medicinal Chemistry, 2014, 22, 3913-3921. | 1.4 | 32 |
| 1069 | Synthesis of sulfonamides with effective inhibitory action against Porphyromonas gingivalis Î³-carbonic anhydrase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4006-4010. | 1.0 | 21 |
| 1070 | Attachment of carbohydrates to methoxyaryl moieties leads to highly selective inhibitors of the cancer associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 5308-5314. | 1.4 | 28 |
| 1071 | Anion inhibition study of the Î²-class carbonic anhydrase (PgiCAb) from the oral pathogen Porphyromonas gingivalis. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4402-4406. | 1.0 | 28 |
| 1072 | Sulfonamides with Potent Inhibitory Action and Selectivity against the Î±-Carbonic Anhydrase from Vibrio cholerae. ACS Medicinal Chemistry Letters, 2014, 5, 826-830. | 1.3 | 23 |
| 1073 | Carbonic Anhydrase Inhibitors: Design, Synthesis, and Biological Evaluation of Novel Sulfonyl Semicarbazide Derivatives. ACS Medicinal Chemistry Letters, 2014, 5, 793-796. | 1.3 | 21 |
| 1074 | Synthesis of 6-tetrazolyl-substituted sulfocoumarins acting as highly potent and selective inhibitors of the tumor-associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 1522-1528. | 1.4 | 50 |
| 1075 | Chemometric modeling of breast cancer associated carbonic anhydrase IX inhibitors belonging to the ureido-substituted benzene sulfonamide class. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 877-883. | 2.5 | 8 |
| 1076 | Sulfonamides incorporating fluorine and 1,3,5-triazine moieties are effective inhibitors of threeÎ²-class carbonic anhydrases fromMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 686-689. | 2.5 | 44 |
| 1077 | Selective inhibition of human carbonic anhydrases by novel amide derivatives of probenecid: Synthesis, biological evaluation and molecular modelling studies. Bioorganic and Medicinal Chemistry, 2014, 22, 3982-3988. | 1.4 | 38 |
| 1078 | Sulfonamide inhibition study of the carbonic anhydrases from the bacterial pathogen Porphyromonas gingivalis: The Î²-class (PgiCAb) versus the Î³-class (PgiCA) enzymes. Bioorganic and Medicinal Chemistry, 2014, 22, 4537-4543. | 1.4 | 34 |
| 1079 | Synthesis of new biologically active isothiazolo[4,5-b]carbazole-type tetracyclic derivatives via an indole-2,3-quinodimethane approach. Tetrahedron, 2014, 70, 8286-8302. | 1.0 | 10 |
| 1080 | Substituted benzene sulfonamides incorporating 1,3,5-triazinyl moieties potently inhibit human carbonic anhydrases II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1310-1314. | 1.0 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1081 | Anion inhibition studies of two new Î²-carbonic anhydrases from the bacterial pathogen Legionella pneumophila. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1127-1132. | 1.0 | 49 |
| 1082 | Arylamino bisphosphonates: Potent and selective inhibitors of the tumor-associated carbonic anhydrase XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1941-1943. | 1.0 | 12 |
| 1083 | 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. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1776-1779. | 1.0 | 24 |
| 1084 | Carbonic anhydrase inhibitors. Synthesis of a novel series of 5-substituted 2,4-dichlorobenzenesulfonamides and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2014, 82, 47-55. | 2.6 | 18 |
| 1085 | Carbonic anhydrase inhibitors. Synthesis, and molecular structure of novel series N-substituted Nâ€²-(2-arylmethylthio-4-chloro-5-methylbenzenesulfonyl)guanidines and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2014, 71, 135-147. | 2.6 | 61 |
| 1086 | Anion inhibition studies of two Î±-carbonic anhydrases from Lotus japonicus, LjCAA1 and LjCAA2. Journal of Inorganic Biochemistry, 2014, 136, 67-72. | 1.5 | 18 |
| 1087 | Oxidation of cyanobenzocycloheptatrienes: Synthesis, photooxygenation reaction and carbonic anhydrase isoenzymes inhibition properties of some new benzotropone derivatives. Bioorganic and Medicinal Chemistry, 2014, 22, 3537-3543. | 1.4 | 110 |
| 1088 | Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the oral pathogen Porphyromonas gingivalis. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 240-244. | 1.0 | 50 |
| 1089 | Design, Synthesis, and Evaluation of Hydroxamic Acid Derivatives as Promising Agents for the Management of Chagas Disease. Journal of Medicinal Chemistry, 2014, 57, 298-308. | 2.9 | 69 |
| 1090 | Dominant behaviours in the expression of human carbonic anhydrase hCA I activity. Chemical Communications, 2014, 50, 8043-8046. | 2.2 | 16 |
| 1091 | Carbonic Anhydrase Inhibition with Benzenesulfonamides and Tetrafluorobenzenesulfonamides Obtained via Click Chemistry. ACS Medicinal Chemistry Letters, 2014, 5, 927-930. | 1.3 | 48 |
| 1092 | Biochemical characterization of the chloroplastic Î²-carbonic anhydrase from Flaveria bidentis (L.) â€œKuntzeâ€• Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 500-504. | 2.5 | 19 |
| 1093 | Flow synthesis and biological activity of aryl sulfonamides as selective carbonic anhydrase IX and XII inhibitors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3422-3425. | 1.0 | 17 |
| 1094 | Design, synthesis and evaluation of N-substituted saccharin derivatives as selective inhibitors of tumor-associated carbonic anhydrase XII. Bioorganic and Medicinal Chemistry, 2014, 22, 1821-1831. | 1.4 | 73 |
| 1095 | Sulfa and trimethoprim-like drugs â€“ antimetabolites acting as carbonic anhydrase, dihydropteroate synthase and dihydrofolate reductase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 379-387. | 2.5 | 255 |
| 1096 | Biochemical properties of a newÎ±-carbonic anhydrase from the human pathogenic bacterium,Vibrio cholerae. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 23-27. | 2.5 | 90 |
| 1097 | Novel coumarins and benzocoumarins acting as isoform-selective inhibitors against the tumor-associated carbonic anhydrase IX. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 292-296. | 2.5 | 84 |
| 1098 | Targeting Carbonic Anhydrases. , 2014, , . | | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1099 | Glaucoma and the Applications of Carbonic Anhydrase Inhibitors. Sub-Cellular Biochemistry, 2014, 75, 349-359. | 1.0 | 114 |
| 1100 | The role of carbonic anhydrase IX in hypoxia control in OSCC. Journal of Oral Pathology and Medicine, 2013, 42, 1-8. | 1.4 | 18 |
| 1101 | Secondary/tertiary benzenesulfonamides with inhibitory action against the cytosolic human carbonic anhydrase isoforms I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 294-298. | 2.5 | 76 |
| 1102 | Targeting carbonic anhydrase IX by nitroimidazole based sulfamides enhances the therapeutic effect of tumor irradiation: A new concept of dual targeting drugs. Radiotherapy and Oncology, 2013, 108, 523-528. | 0.3 | 80 |
| 1103 | Hypoxia induced CA9 inhibitory targeting by two different sulfonamide derivatives including Acetazolamide in human Glioblastoma. Bioorganic and Medicinal Chemistry, 2013, 21, 3949-3957. | 1.4 | 51 |
| 1104 | Carbonic anhydrase inhibitors. Benzenesulfonamides incorporating cyanoacrylamide moieties strongly inhibit Saccharomyces cerevisiae Î²-carbonic anhydrase. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3570-3575. | 1.0 | 18 |
| 1105 | 5-Substituted-(1,2,3-triazol-4-yl)thiophene-2-sulfonamides strongly inhibit human carbonic anhydrases I, II, IX and XII: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2013, 21, 5130-5138. | 1.4 | 31 |
| 1106 | A Class of Sulfonamides with Strong Inhibitory Action against the Î±-Carbonic Anhydrase from Trypanosoma cruzi. Journal of Medicinal Chemistry, 2013, 56, 5773-5781. | 2.9 | 56 |
| 1107 | Synthesis of novel acridine and bis acridine sulfonamides with effective inhibitory activity against the cytosolic carbonic anhydrase isoforms II and VII. Bioorganic and Medicinal Chemistry, 2013, 21, 5799-5805. | 1.4 | 33 |
| 1108 | Analysis of saponins and phenolic compounds as inhibitors of Î±-carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 412-417. | 2.5 | 51 |
| 1109 | Carbonic anhydrase inhibitors: Synthesis and inhibition of the human carbonic anhydrase isoforms I, II, VII, IX and XII with benzene sulfonamides incorporating 4,5,6,7-tetrabromophthalimide moiety. Bioorganic and Medicinal Chemistry, 2013, 21, 5973-5982. | 1.4 | 25 |
| 1110 | Inhibition of the Î²-carbonic anhydrases from Mycobacterium tuberculosis with C-cinnamoyl glycosides: Identification of the first inhibitor with anti-mycobacterial activity. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 740-743. | 1.0 | 50 |
| 1111 | Anion inhibition studies of a Î²-carbonic anhydrase from Clostridium perfringens. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6706-6710. | 1.0 | 46 |
| 1112 | QSAR studies of sulfamate and sulfamide inhibitors targeting human carbonic anhydrase isozymes I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1404-1409. | 1.4 | 9 |
| 1113 | Structural study of interaction between brinzolamide and dorzolamide inhibition of human carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 7210-7215. | 1.4 | 98 |
| 1114 | Salen and tetrahydrosalen derivatives act as effective inhibitors of the tumor-associated carbonic anhydrase XIIâ€"A new scaffold for designing isoform-selective inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6759-6763. | 1.0 | 41 |
| 1115 | Purification and characterization of carbonic anhydrase from sheep kidney and effects of sulfonamides on enzyme activity. Bioorganic and Medicinal Chemistry, 2013, 21, 1522-1525. | 1.4 | 35 |
| 1116 | A Prodrug Approach Toward Cancer-Related Carbonic Anhydrase Inhibition. Journal of Medicinal Chemistry, 2013, 56, 9623-9634. | 2.9 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1117 | Carbonic anhydrase inhibitors. Synthesis of heterocyclic 4-substituted pyridine-3-sulfonamide derivatives and their inhibition of the human cytosolic isozymes I and II and transmembrane tumor-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2013, 69, 701-710. | 2.6 | 37 |
| 1118 | Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2013, 8, 793-810. | 2.5 | 229 |
| 1119 | Structural modulation of the biological activity of gold nanoparticles functionalized with a carbonic anhydrase inhibitor. European Physical Journal E, 2013, 36, 48. | 0.7 | 10 |
| 1120 | Effect of incorporating a thiophene tail in the scaffold of acetazolamide on the inhibition of human carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5646-5649. | 1.0 | 23 |
| 1121 | Restoring catalytic activity to the human carbonic anhydrase (CA) related proteins VIII, X and XI affords isoforms with high catalytic efficiency and susceptibility to anion inhibition. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 256-260. | 1.0 | 42 |
| 1122 | Carbonic anhydrase inhibitors: Synthesis and inhibition of the cytosolic mammalian carbonic anhydrase isoforms I, II and VII with benzene sulfonamides incorporating 4,5,6,7-tetrachlorophthalimide moiety. Bioorganic and Medicinal Chemistry, 2013, 21, 5168-5174. | 1.4 | 18 |
| 1123 | Carbonic anhydrase regulation and CO2 sensing in the fungal pathogen Candida glabrata involves a novel Rca1p ortholog. Bioorganic and Medicinal Chemistry, 2013, 21, 1549-1554. | 1.4 | 44 |
| 1124 | Inhibition of the alpha- and beta-carbonic anhydrases from the gastric pathogenHelycobacter pyloriwith anions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 388-391. | 2.5 | 88 |
| 1125 | Thiolâ€“ene click chemistry for the synthesis of highly effective glycosyl sulfonamide carbonic anhydrase inhibitors. Chemical Communications, 2013, 49, 5699. | 2.2 | 13 |
| 1126 | New selective carbonic anhydrase IX inhibitors: Synthesis and pharmacological evaluation of diarylpyrazole-benzenesulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 1451-1464. | 1.4 | 55 |
| 1127 | Carbonic anhydrase binding site parameterization in OPLS-AA force field. Bioorganic and Medicinal Chemistry, 2013, 21, 1427-1430. | 1.4 | 7 |
| 1128 | Glycosidic carbonic anhydrase IX inhibitors: A sweet approach against cancer. Bioorganic and Medicinal Chemistry, 2013, 21, 1419-1426. | 1.4 | 58 |
| 1129 | Sulfocoumarins (1,2-Benzoxathiine-2,2-dioxides): A Class of Potent and Isoform-Selective Inhibitors of Tumor-Associated Carbonic Anhydrases. Journal of Medicinal Chemistry, 2013, 56, 293-300. | 2.9 | 199 |
| 1130 | Kinetic and in silico analysis of thiazolidin-based inhibitors of Î±-carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 370-374. | 2.5 | 14 |
| 1131 | Carbonic anhydrases in anthozoan coralsâ€”A review. Bioorganic and Medicinal Chemistry, 2013, 21, 1437-1450. | 1.4 | 174 |
| 1132 | Heavy metal ion inhibition studies of human, sheep and fish Î±-carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 278-282. | 2.5 | 38 |
| 1133 | Effect of sulfonamides as carbonic anhydrase VA and VB inhibitors on mitochondrial metabolic energy conversion. Bioorganic and Medicinal Chemistry, 2013, 21, 1544-1548. | 1.4 | 97 |
| 1134 | Superacid synthesis of halogen containing N-substituted-4-aminobenzene sulfonamides: New selective tumor-associated carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 1555-1563. | 1.4 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1135 | Pharmacological inhibition of carbonic anhydrase XII interferes with cell proliferation and induces cell apoptosis in T-cell lymphomas. Cancer Letters, 2013, 333, 76-88. | 3.2 | 47 |
| 1136 | Structural study of the location of the phenyl tail of benzene sulfonamides and the effect on human carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2013, 21, 6674-6680. | 1.4 | 12 |
| 1137 | An Î±-carbonic anhydrase from the thermophilic bacterium Sulphurihydrogenibium azorense is the fastest enzyme known for the CO2 hydration reaction. Bioorganic and Medicinal Chemistry, 2013, 21, 1465-1469. | 1.4 | 121 |
| 1138 | The extremo-Î±-carbonic anhydrase (CA) from Sulfurihydrogenibium azorense, the fastest CA known, is highly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1087-1090. | 1.0 | 55 |
| 1139 | Chemometric QSAR modeling and in silico design of carbonic anhydrase inhibition of a coral secretory isoform by sulfonamide. Bioorganic and Medicinal Chemistry, 2013, 21, 1495-1502. | 1.4 | 7 |
| 1140 | o-Benzenedisulfonimidoâ€“sulfonamides are potent inhibitors of the tumor-associated carbonic anhydrase isoforms CA IX and CA XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1386-1391. | 1.4 | 20 |
| 1141 | Characterization of Carbonic Anhydrase IX Interactome Reveals Proteins Assisting Its Nuclear Localization in Hypoxic Cells. Journal of Proteome Research, 2013, 12, 282-292. | 1.8 | 43 |
| 1142 | Antiobesity carbonic anhydrase inhibitors: a literature and patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 725-735. | 2.4 | 246 |
| 1143 | Inhibition of human carbonic anhydrase isoforms Iâ€“XIV with sulfonamides incorporating fluorine and 1,3,5-triazine moieties. Bioorganic and Medicinal Chemistry, 2013, 21, 6929-6936. | 1.4 | 18 |
| 1144 | Kinetic and anion inhibition studies of a Î²-carbonic anhydrase (FbiCA 1) from the C4 plant Flaveria bidentis. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1626-1630. | 1.0 | 38 |
| 1145 | Carbonic anhydrase inhibitors: Inhibition of the Î²-class enzyme from the pathogenic yeast Candida glabrata with sulfonamides, sulfamates and sulfamides. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2647-2652. | 1.0 | 43 |
| 1146 | Inhibition of tumor-associated human carbonic anhydrase isozymes IX and XII by a new class of substituted-phenylacetamido aromatic sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 5228-5232. | 1.4 | 20 |
| 1147 | A highly catalytically active Î³-carbonic anhydrase from the pathogenic anaerobe Porphyromonas gingivalis and its inhibition profile with anions and small molecules. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4067-4071. | 1.0 | 62 |
| 1148 | Inhibition pattern of sulfamide-related compounds in binding to carbonic anhydrase isoforms I, II, VII, XII and XIV. Bioorganic and Medicinal Chemistry, 2013, 21, 1410-1418. | 1.4 | 20 |
| 1149 | The extremo-Î±-carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium azorense is highly inhibited by sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 4521-4525. | 1.4 | 68 |
| 1150 | Cloning, Characterization, and Sulfonamide and Thiol Inhibition Studies of an Î±-Carbonic Anhydrase fromTrypanosoma cruzi, the Causative Agent of Chagas Disease. Journal of Medicinal Chemistry, 2013, 56, 1761-1771. | 2.9 | 89 |
| 1151 | Anti-infective carbonic anhydrase inhibitors: a patent and literature review. Expert Opinion on Therapeutic Patents, 2013, 23, 693-704. | 2.4 | 203 |
| 1152 | Diuretics with carbonic anhydrase inhibitory action: a patent and literature review (2005 â€“ 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 681-691. | 2.4 | 252 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1153 | Structural effect of phenyl ring compared to thiadiazole based adamantyl-sulfonamides on carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2013, 21, 2314-2318. | 1.4 | 20 |
| 1154 | Carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 1377-1378. | 1.4 | 92 |
| 1155 | Characterization, bioinformatic analysis and dithiocarbamate inhibition studies of two new Î±-carbonic anhydrases, CAH1 and CAH2, from the fruit fly Drosophila melanogaster. Bioorganic and Medicinal Chemistry, 2013, 21, 1516-1521. | 1.4 | 19 |
| 1156 | Metalloenzyme inhibitors for the treatment of Gram-negative bacterial infections: a patent review (2009 â€“ 2012). Expert Opinion on Therapeutic Patents, 2013, 23, 777-788. | 2.4 | 31 |
| 1157 | The alpha-carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium yellowstonense YO3AOP1 is highly susceptible to inhibition by sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 1534-1538. | 1.4 | 54 |
| 1158 | Carbonic anhydrase inhibitors: Benzenesulfonamides incorporating cyanoacrylamide moieties are low nanomolar/subnanomolar inhibitors of the tumor-associated isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1396-1403. | 1.4 | 48 |
| 1159 | Secondary and tertiary sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2013, 23, 203-213. | 2.4 | 79 |
| 1160 | Natural product coumarins that inhibit human carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 1539-1543. | 1.4 | 97 |
| 1161 | Salicylaldoxime derivatives as new leads for the development of carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 1511-1515. | 1.4 | 12 |
| 1162 | Synthesis of C-cinnamoyl glycosides and their inhibitory activity against mammalian carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2013, 21, 1489-1494. | 1.4 | 27 |
| 1163 | Novel small molecule protein arginine deiminase 4 (PAD4) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 715-719. | 1.0 | 32 |
| 1164 | Dihalogenated sulfanilamides and benzolamides are effective inhibitors of the three Î²-class carbonic anhydrases from Mycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 384-387. | 2.5 | 73 |
| 1165 | Dithiocarbamates strongly inhibit the Î²-class carbonic anhydrases fromMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 407-411. | 2.5 | 125 |
| 1166 | Inhibition of the Î²-class carbonic anhydrases fromMycobacterium tuberculosiswith carboxylic acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 392-396. | 2.5 | 73 |
| 1167 | Synthesis and carbonic anhydrase inhibitory properties of sulfamides structurally related to dopamine. Bioorganic and Medicinal Chemistry, 2013, 21, 2925-2931. | 1.4 | 120 |
| 1168 | Anion inhibition studies of the Î±-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1636-1638. | 1.0 | 54 |
| 1169 | Antiglaucoma carbonic anhydrase inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 705-716. | 2.4 | 273 |
| 1170 | Root Effect Hemoglobin May Have Evolved to Enhance General Tissue Oxygen Delivery. Science, 2013, 340, 1327-1329. | 6.0 | 130 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1171 | Natural product hybrid and its superacid synthesized analogues: Dodoneine and its derivatives show selective inhibition of carbonic anhydrase isoforms I, III, XIII and XIV. Bioorganic and Medicinal Chemistry, 2013, 21, 3790-3794. | 1.4 | 18 |
| 1172 | Xanthates and Trithiocarbonates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Effects in Vivo. Journal of Medicinal Chemistry, 2013, 56, 4691-4700. | 2.9 | 91 |
| 1173 | 7-Substituted-sulfocoumarins are isoform-selective, potent carbonic anhydrase II inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 4502-4510. | 1.4 | 70 |
| 1174 | Anticancer carbonic anhydrase inhibitors: a patent review (2008 â€“ 2013). Expert Opinion on Therapeutic Patents, 2013, 23, 737-749. | 2.4 | 226 |
| 1175 | Mono-/dihydroxybenzoic acid esters and phenol pyridinium derivatives as inhibitors of the mammalian carbonic anhydrase isoforms I, II, VII, IX, XII and XIV. Bioorganic and Medicinal Chemistry, 2013, 21, 1564-1569. | 1.4 | 50 |
| 1176 | Novel sulfamides as potential carbonic anhydrase isoenzymes inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 1379-1385. | 1.4 | 115 |
| 1177 | Anion inhibition studies of the Î±-carbonic anhydrase from the protozoan pathogen Trypanosoma cruzi, the causative agent of Chagas disease. Bioorganic and Medicinal Chemistry, 2013, 21, 4472-4476. | 1.4 | 49 |
| 1178 | New superacid synthesized (fluorinated) tertiary benzenesulfonamides acting as selective hCA IX inhibitors: toward a new mode of carbonic anhydrase inhibition by sulfonamides. Chemical Communications, 2013, 49, 6015. | 2.2 | 47 |
| 1179 | Kinetic study of a novel thermo-stable Î±-carbonic anhydrase for biomimetic CO2 capture. Enzyme and Microbial Technology, 2013, 53, 271-277. | 1.6 | 35 |
| 1180 | New strategies for targeting the hypoxic tumour microenvironment in breast cancer. Cancer Treatment Reviews, 2013, 39, 171-179. | 3.4 | 167 |
| 1181 | Superacid synthesized tertiary benzenesulfonamides and benzofuzed sultams act as selective hCA IX inhibitors: toward understanding a new mode of inhibition by tertiary sulfonamides. Organic and Biomolecular Chemistry, 2013, 11, 7540. | 1.5 | 18 |
| 1182 | Hypoxia-Targeting Carbonic Anhydrase IX Inhibitors by a New Series of Nitroimidazole-Sulfonamides/Sulfamides/Sulfamates. Journal of Medicinal Chemistry, 2013, 56, 8512-8520. | 2.9 | 76 |
| 1183 | Carbonic anhydrases: from biomedical applications of the inhibitors and activators to biotechnological use for CO2 capture. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 229-230. | 2.5 | 278 |
| 1184 | Carbonic anhydrase inhibitors:in vitroinhibition of Î± isoforms (hCA I, hCA II, bCA III, hCA IV) by flavonoids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 283-288. | 2.5 | 102 |
| 1185 | Cloning, Characterization, and Inhibition Studies of a Î²-Carbonic Anhydrase from Leishmania donovani chagasi, the Protozoan Parasite Responsible for Leishmaniasis. Journal of Medicinal Chemistry, 2013, 56, 7372-7381. | 2.9 | 87 |
| 1186 | Carbonic anhydrase III: A neglected isozyme is stepping into the limelight. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 231-239. | 2.5 | 78 |
| 1187 | Human carbonic anhydrase VII protects cells from oxidative damage. Biological Chemistry, 2013, 394, 1343-1348. | 1.2 | 30 |
| 1188 | Extramitochondrial domain rich in carbonic anhydrase activity improves myocardial energetics. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E958-67. | 3.3 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1189 | Metronidazole-coumarin conjugates and 3-cyano-7-hydroxy-coumarin act as isoform-selective carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 397-401. | 2.5 | 90 |
| 1190 | X-ray structure of the first `extremo-Î±-carbonic anhydrase', a dimeric enzyme from the thermophilic bacteriumSulfurihydrogenibium yellowstonenseYO3AOP1. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1150-1159. | 2.5 | 100 |
| 1191 | Novel antibody to a carbonic anhydrase: patent evaluation of WO2011138279A1. Expert Opinion on Therapeutic Patents, 2013, 23, 757-760. | 2.4 | 6 |
| 1192 | Synthesis of aminocyanopyrazoles via a multi-component reaction and anti-carbonic anhydrase inhibitory activity of their sulfamide derivatives against cytosolic and transmembrane isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 343-349. | 2.5 | 24 |
| 1193 | Carbonic anhydrase inhibitors: an editorial. Expert Opinion on Therapeutic Patents, 2013, 23, 677-679. | 2.4 | 125 |
| 1194 | More effective dithiocarbamate derivatives inhibiting carbonic anhydrases, generated by QSAR and computational design. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 350-359. | 2.5 | 20 |
| 1195 | Carbonic anhydrase IX from cancer-associated fibroblasts drives epithelial-mesenchymal transition in prostate carcinoma cells. Cell Cycle, 2013, 12, 1791-1801. | 1.3 | 136 |
| 1196 | Hydroxamates as Carbonic Anhydrase Inhibitors. , 2013, , 55-69. | | 6 |
| 1197 | Amide derivatives of benzene-sulfonanilide, pharmaceutical composition thereof and method for cancer treatment using the same (US20120095092). Expert Opinion on Therapeutic Patents, 2012, 22, 1251-1255. | 2.4 | 4 |
| 1198 | A new approach to antiglaucoma drugs: carbonic anhydrase inhibitors with or without NO donating moieties. Mechanism of action and preliminary pharmacology. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 138-147. | 2.5 | 150 |
| 1199 | Inhibition of V-ATPase and Carbonic Anhydrases as Interference Strategy with Tumor Acidification Processes. Current Pharmaceutical Design, 2012, 18, 1407-1413. | 0.9 | 16 |
| 1200 | Tricyclic Sulfonamides Incorporating Benzothiopyrano[4,3-c]pyrazole and Pyridothiopyrano[4,3-c]pyrazole Effectively Inhibit Î±- and Î²-Carbonic Anhydrase: X-ray Crystallography and Solution Investigations on 15 Isoforms. Journal of Medicinal Chemistry, 2012, 55, 9619-9629. | 2.9 | 35 |
| 1201 | Antimetastatic Effect of Sulfamate Carbonic Anhydrase IX Inhibitors in Breast Carcinoma Xenografts. Journal of Medicinal Chemistry, 2012, 55, 5591-5600. | 2.9 | 149 |
| 1202 | DNA Cloning, Characterization, and Inhibition Studies of an Î±-Carbonic Anhydrase from the Pathogenic Bacterium Vibrio cholerae. Journal of Medicinal Chemistry, 2012, 55, 10742-10748. | 2.9 | 103 |
| 1203 | Carbonic Anhydrases inhibitory effects of new benzenesulfonamides synthesized by using superacid chemistry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 886-891. | 2.5 | 71 |
| 1204 | Anion inhibition studies of the fastest carbonic anhydrase (CA) known, the extremo-CA from the bacterium Sulfurihydrogenibium azorense. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 7142-7145. | 1.0 | 69 |
| 1205 | Chromone containing sulfonamides as potent carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 744-747. | 2.5 | 42 |
| 1206 | Inhibition of Î±-class cytosolic human carbonic anhydrases I, II, IX and XII, and Î²-class fungal enzymes by carboxylic acids and their derivatives: New isoform-I selective nanomolar inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5801-5806. | 1.0 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1207 | The first activation study of a bacterial carbonic anhydrase (CA). The thermostable Î±-CA from Sulfurihydrogenibium yellowstonense YO3AOP1 is highly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6324-6327. | 1.0 | 73 |
| 1208 | Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. Chemical Communications, 2012, 48, 1868. | 2.2 | 157 |
| 1209 | Synthesis, Structureâ€“Activity Relationship Studies, and X-ray Crystallographic Analysis of Arylsulfonamides as Potent Carbonic Anhydrase Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 3891-3899. | 2.9 | 24 |
| 1210 | Î±-Carbonic anhydrases are sulfatases with cyclic diol monosulfate esters. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 148-154. | 2.5 | 68 |
| 1211 | Polypharmacology of sulfonamides: pazopanib, a multitargeted receptor tyrosine kinase inhibitor in clinical use, potently inhibits several mammalian carbonic anhydrases. Chemical Communications, 2012, 48, 8177. | 2.2 | 66 |
| 1212 | Serendipitous fragment-based drug discovery: ketogenic diet metabolites and statins effectively inhibit several carbonic anhydrases. Chemical Communications, 2012, 48, 3551. | 2.2 | 22 |
| 1213 | Effects of dopaminergic compounds on carbonic anhydrase isozymes I, II, and VI. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 365-369. | 2.5 | 33 |
| 1214 | QSARs on human carbonic anhydrase VA and VB inhibitors of some new not yet synthesized, substituted aromatic/heterocyclic sulphonamides as anti-obesity agent. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 666-672. | 2.5 | 24 |
| 1215 | Biochemical properties of a novel and highly thermostable bacterial Î±-carbonic anhydrase fromSulfurihydrogenibium yellowstonense YO3AOP1. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 892-897. | 2.5 | 111 |
| 1216 | Molecular Cloning, Characterization, and Inhibition Studies of a Î²-Carbonic Anhydrase from Malassezia globosa, a Potential Antidandruff Target. Journal of Medicinal Chemistry, 2012, 55, 3513-3520. | 2.9 | 52 |
| 1217 | Carbamoylphosphonates Control Tumor Cell Proliferation and Dissemination by Simultaneously Inhibiting Carbonic Anhydrase IX and Matrix Metalloproteinase-2. Toward Nontoxic Chemotherapy Targeting Tumor Microenvironment. Journal of Medicinal Chemistry, 2012, 55, 7875-7882. | 2.9 | 23 |
| 1218 | Heterocyclic urea derivatives and methods of use thereof (WO2010142978). Expert Opinion on Therapeutic Patents, 2012, 22, 193-197. | 2.4 | 0 |
| 1219 | CO<sub>2</sub>permeability of cell membranes is regulated by membrane cholesterol and protein gas channels. FASEB Journal, 2012, 26, 5182-5191. | 0.2 | 88 |
| 1220 | (In)organic anions as carbonic anhydrase inhibitors. Journal of Inorganic Biochemistry, 2012, 111, 117-129. | 1.5 | 186 |
| 1221 | Structural and inhibition insights into carbonic anhydrase CDCA1 from the marine diatom Thalassiosira weissflogii. Biochimie, 2012, 94, 1232-1241. | 1.3 | 100 |
| 1222 | Ureido-substituted sulfamates show potent carbonic anhydrase IX inhibitory and antiproliferative activities against breast cancer cell lines. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4681-4685. | 1.0 | 57 |
| 1223 | Anion inhibition studies of an Î±-carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium yellowstonense YO3AOP1. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5630-5634. | 1.0 | 77 |
| 1224 | Rational drug repositioning guided by an integrated pharmacological network of protein, disease and drug. BMC Systems Biology, 2012, 6, 80. | 3.0 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1225 | Development of Potent Carbonic Anhydrase Inhibitors Incorporating Both Sulfonamide and Sulfamide Groups. Journal of Medicinal Chemistry, 2012, 55, 6776-6783. | 2.9 | 52 |
| 1226 | Dual Inhibitors for Aspartic Proteases HIV-1 PR and Renin: Advancements in AIDSâ€“Hypertensionâ€“Diabetes Linkage via Molecular Dynamics, Inhibition Assays, and Binding Free Energy Calculations. Journal of Medicinal Chemistry, 2012, 55, 5784-5796. | 2.9 | 37 |
| 1227 | Dithiocarbamates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Action in Vivo. Journal of Medicinal Chemistry, 2012, 55, 1721-1730. | 2.9 | 211 |
| 1228 | Carbonic anhydrase inhibitors. Regioselective synthesis of novel series 1-substituted 1,4-dihydro-4-oxo-3-pyridinesulfonamides and their inhibition of the human cytosolic isozymes I and II and transmembrane cancer-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2012, 56, 282-291. | 2.6 | 12 |
| 1229 | Structure-based drug discovery of carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 759-772. | 2.5 | 554 |
| 1230 | Simple methanesulfonates are hydrolyzed by the sulfatase carbonic anhydrase activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 880-885. | 2.5 | 54 |
| 1231 | Sulfapyridine-like benzenesulfonamide derivatives as inhibitors of carbonic anhydrase isoenzymes I, II and VI. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 818-824. | 2.5 | 51 |
| 1232 | Carbonic anhydrase inhibitors: inhibition of human and bovine isoenzymes by benzenesulphonamides, cyclitols and phenolic compounds. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 845-848. | 2.5 | 72 |
| 1233 | In Vivo Imaging and Quantification of Carbonic Anhydrase IX Expression as an Endogenous Biomarker of Tumor Hypoxia. PLoS ONE, 2012, 7, e50860. | 1.1 | 74 |
| 1234 | Inhibition of carbonic anhydrase IX as a novel anticancer mechanism. World Journal of Clinical Oncology, 2012, 3, 98. | 0.9 | 79 |
| 1235 | Novel therapies for glaucoma: a patent review 2007 â€“ 2011. Expert Opinion on Therapeutic Patents, 2012, 22, 79-88. | 2.4 | 121 |
| 1236 | Proteinâ€“Protein Interactions: Inhibition of Mammalian Carbonic Anhydrases Iâ€“XV by the Murine Inhibitor of Carbonic Anhydrase and Other Members of the Transferrin Family. Journal of Medicinal Chemistry, 2012, 55, 5529-5535. | 2.9 | 27 |
| 1237 | Metallocene-Based Inhibitors of Cancer-Associated Carbonic Anhydrase Enzymes IX and XII. Journal of Medicinal Chemistry, 2012, 55, 5506-5517. | 2.9 | 88 |
| 1238 | Multiple Binding Modes of Inhibitors to Carbonic Anhydrases: How to Design Specific Drugs Targeting 15 Different Isoforms?. Chemical Reviews, 2012, 112, 4421-4468. | 23.0 | 1,056 |
| 1239 | Synthesis, characterization and biological studies of sulfonamide Schiffâ€™s bases and some of their metal derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 58-68. | 2.5 | 52 |
| 1240 | Hydroxamate represents a versatile zinc binding group for the development of new carbonic anhydrase inhibitors. Chemical Communications, 2012, 48, 8838. | 2.2 | 63 |
| 1241 | Targeting Carbonic Anhydrases with Fluorescent BODIPYâ€Łabelled Sulfonamides. European Journal of Inorganic Chemistry, 2012, 2012, 2898-2907. | 1.0 | 11 |
| 1242 | Inhibition of carbonic anhydrase isozymes I and II with natural products extracted from plants, mushrooms and honey. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 395-402. | 2.5 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1243 | Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. Expert Opinion on Emerging Drugs, 2012, 17, 11-15. | 1.0 | 75 |
| 1244 | [(Cpâ€R)M(CO)<sub>3</sub>] (M=Re or <sup>99m</sup>Tc) Arylsulfonamide, Arylsulfamide, and Arylsulfamate Conjugates for Selective Targeting of Human Carbonic Anhydrase IX. Angewandte Chemie - International Edition, 2012, 51, 3354-3357. | 7.2 | 109 |
| 1245 | Sulfonamides: a patent review (2008 â€“ 2012). Expert Opinion on Therapeutic Patents, 2012, 22, 747-758. | 2.4 | 201 |
| 1246 | Structureâ€“activity relationships for the interaction of 5,10-dihydroindeno[1,2-b]indole derivatives with human and bovine carbonic anhydrase isoforms I, II, III, IV and VI. European Journal of Medicinal Chemistry, 2012, 49, 68-73. | 2.6 | 54 |
| 1247 | Cloning, characterization and sulfonamide inhibition studies of an Î±-carbonic anhydrase from the living fossil sponge Astrosclera willeyana. Bioorganic and Medicinal Chemistry, 2012, 20, 1403-1410. | 1.4 | 8 |
| 1248 | Design and synthesis of thiourea compounds that inhibit transmembrane anchored carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2012, 20, 2392-2404. | 1.4 | 28 |
| 1249 | Novel coumarins and 2-thioxo-coumarins as inhibitors of the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2012, 20, 2266-2273. | 1.4 | 109 |
| 1250 | Mutation of active site residues Asn67 to Ile, Gln92 to Val and Leu204 to Ser in human carbonic anhydrase II: Influences on the catalytic activity and affinity for inhibitors. Bioorganic and Medicinal Chemistry, 2012, 20, 2208-2213. | 1.4 | 6 |
| 1251 | Synthesis and evaluation of near-infrared fluorescent sulfonamide derivatives for imaging of hypoxia-induced carbonic anhydrase IX expression in tumors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 653-657. | 1.0 | 48 |
| 1252 | 5- and 6-Membered (thio)lactones are prodrug type carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 267-270. | 1.0 | 61 |
| 1253 | Dithiocarbamates are strong inhibitors of the beta-class fungal carbonic anhydrases from Cryptococcus neoformans, Candida albicans and Candida glabrata. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 859-862. | 1.0 | 97 |
| 1254 | Anion inhibition studies of an Î±-carbonic anhydrase from the living fossil Astrosclera willeyana. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1314-1316. | 1.0 | 6 |
| 1255 | Carbonic anhydrase VII is S-glutathionylated without loss of catalytic activity and affinity for sulfonamide inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1560-1564. | 1.0 | 53 |
| 1256 | New chemotypes acting as isozyme-selective carbonic anhydrase inhibitors with low affinity for the offtarget cytosolic isoform II. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2182-2185. | 1.0 | 49 |
| 1257 | Flavones and structurally related 4-chromenones inhibit carbonic anhydrases by a different mechanism of action compared to coumarins. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3063-3066. | 1.0 | 25 |
| 1258 | Expression of CAâ€IX is associated with advanced stage tumors and poor survival in oral squamous cell carcinoma patients. Journal of Oral Pathology and Medicine, 2012, 41, 667-674. | 1.4 | 30 |
| 1259 | Inhibition of beta-carbonic anhydrases from the bacterial pathogen Brucella suis with inorganic anions. Journal of Inorganic Biochemistry, 2012, 110, 36-39. | 1.5 | 29 |
| 1260 | Recent Developments in Targeting Carbonic Anhydrase IX for Cancer Therapeutics. Oncotarget, 2012, 3, 84-97. | 0.8 | 365 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1261 | Characterization and inhibition studies of an Î±-carbonic anhydrase from the endangered sturgeon speciesAcipenser gueldenstaedti. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 895-900. | 2.5 | 51 |
| 1262 | Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of N-substituted benzenesulfonamides to human isoform II. Chemical Communications, 2011, 47, 11636. | 2.2 | 50 |
| 1263 | Targeting Hypoxic Tumor Cell Viability with Carbohydrate-Based Carbonic Anhydrase IX and XII Inhibitors. Journal of Medicinal Chemistry, 2011, 54, 6905-6918. | 2.9 | 113 |
| 1264 | Interfering with pH regulation in tumours as a therapeutic strategy. Nature Reviews Drug Discovery, 2011, 10, 767-777. | 21.5 | 1,340 |
| 1265 | Natural Product-Based Phenols as Novel Probes for Mycobacterial and Fungal Carbonic Anhydrases. Journal of Medicinal Chemistry, 2011, 54, 1682-1692. | 2.9 | 95 |
| 1266 | Anticonvulsant 4-Aminobenzenesulfonamide Derivatives with Branched-Alkylamide Moieties: X-ray Crystallography and Inhibition Studies of Human Carbonic Anhydrase Isoforms I, II, VII, and XIV. Journal of Medicinal Chemistry, 2011, 54, 3977-3981. | 2.9 | 69 |
| 1267 | Glycosyl Coumarin Carbonic Anhydrase IX and XII Inhibitors Strongly Attenuate the Growth of Primary Breast Tumors. Journal of Medicinal Chemistry, 2011, 54, 8271-8277. | 2.9 | 228 |
| 1268 | Structural Basis for the Interaction Between Carbonic Anhydrase and 1,2,3,4-tetrahydroisoquinolin-2-ylsulfonamides. Journal of Medicinal Chemistry, 2011, 54, 2522-2526. | 2.9 | 36 |
| 1269 | Selection of Carbonic Anhydrase IX Inhibitors from One Million DNA-Encoded Compounds. ACS Chemical Biology, 2011, 6, 336-344. | 1.6 | 129 |
| 1270 | Phosphorylation of Carbonic Anhydrase IX Controls Its Ability to Mediate Extracellular Acidification in Hypoxic Tumors. Cancer Research, 2011, 71, 7558-7567. | 0.4 | 117 |
| 1271 | Targeting Tumor Hypoxia: Suppression of Breast Tumor Growth and Metastasis by Novel Carbonic Anhydrase IX Inhibitors. Cancer Research, 2011, 71, 3364-3376. | 0.4 | 662 |
| 1272 | Carbonic anhydrase inhibitors: purification and inhibition studies of pigeon (Columba) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td ( Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 749-753. | 2.5 | 24 |
| 1273 | Ureido-Substituted Benzenesulfonamides Potently Inhibit Carbonic Anhydrase IX and Show Antimetastatic Activity in a Model of Breast Cancer Metastasis. Journal of Medicinal Chemistry, 2011, 54, 1896-1902. | 2.9 | 443 |
| 1274 | Design, Synthesis, and Biological Evaluation of Novel Carbohydrate-Based Sulfamates as Carbonic Anhydrase Inhibitors. Journal of Medicinal Chemistry, 2011, 54, 1481-1489. | 2.9 | 34 |
| 1275 | Pyridinium derivatives of histamine are potent activators of cytosolic carbonic anhydrase isoforms I, II and VII. Organic and Biomolecular Chemistry, 2011, 9, 2790. | 1.5 | 29 |
| 1276 | Carbonic Anhydrase Activators: Gold Nanoparticles Coated with Derivatized Histamine, Histidine, and Carnosine Show Enhanced Activatory Effects on Several Mammalian Isoforms. Journal of Medicinal Chemistry, 2011, 54, 1170-1177. | 2.9 | 54 |
| 1277 | Specific inhibition of carbonic anhydrase IX activity enhances the in vivo therapeutic effect of tumor irradiation. Radiotherapy and Oncology, 2011, 99, 424-431. | 0.3 | 156 |
| 1278 | Bacterial Zinc Proteases and their Inhibition. Current Enzyme Inhibition, 2011, 7, 2-23. | 0.3 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1279 | Bacterial Carbonic Anhydrases as Drug Targets: Toward Novel Antibiotics?. Frontiers in Pharmacology, 2011, 2, 34. | 1.6 | 229 |
| 1280 | In Vitro Inhibition of Human Carbonic Anhydrase I and II Isozymes with Natural Phenolic Compounds. Chemical Biology and Drug Design, 2011, 77, 494-499. | 1.5 | 170 |
| 1281 | Carbonic anhydrase inhibitors. Synthesis, molecular structures, and inhibition of the human cytosolic isozymes I and II and transmembrane isozymes IX, XII (cancer-associated) and XIV with novel 3-pyridinesulfonamide derivatives. European Journal of Medicinal Chemistry, 2011, 46, 4403-4410. | 2.6 | 12 |
| 1282 | Synthesis and biological profile of new 1,2,3,4-tetrahydroisoquinolines as selective carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 7003-7007. | 1.4 | 18 |
| 1283 | Carbonic anhydrase I and II activation with mono- and dihalogenated histamine derivatives. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4884-4887. | 1.0 | 23 |
| 1284 | Synthesis of rhodamine Bâ€“benzenesulfonamide conjugates and their inhibitory activity against human Î±- and bacterial/fungal Î²-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5210-5213. | 1.0 | 12 |
| 1285 | Phenylethynylbenzenesulfonamide regioisomers strongly and selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic isoforms I and II. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5892-5896. | 1.0 | 8 |
| 1286 | Synthesis of glycoconjugate carbonic anhydrase inhibitors by ruthenium-catalysed azide-alkyne 1,3-dipolar cycloaddition. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 6058-6061. | 1.0 | 26 |
| 1287 | Promiscuity of Carbonic Anhydrase II. Unexpected Ester Hydrolysis of Carbohydrate-Based Sulfamate Inhibitors. Journal of the American Chemical Society, 2011, 133, 18452-18462. | 6.6 | 38 |
| 1288 | Carbonic anhydrase inhibition with natural products: novel chemotypes and inhibition mechanisms. Molecular Diversity, 2011, 15, 305-316. | 2.1 | 64 |
| 1289 | A New Coral Carbonic Anhydrase in Stylophora pistillata. Marine Biotechnology, 2011, 13, 992-1002. | 1.1 | 83 |
| 1290 | Generation and characterization of the first inhibitory antibody targeting tumour-associated carbonic anhydrase XII. Cancer Immunology, Immunotherapy, 2011, 60, 649-658. | 2.0 | 79 |
| 1291 | A new Î²-carbonic anhydrase from Brucella suis, its cloning, characterization, and inhibition with sulfonamides and sulfamates, leading to impaired pathogen growth. Bioorganic and Medicinal Chemistry, 2011, 19, 1172-1178. | 1.4 | 79 |
| 1292 | Conformational variability of different sulfonamide inhibitors with thienyl-acetamido moieties attributes to differential binding in the active site of cytosolic human carbonic anhydrase isoforms. Bioorganic and Medicinal Chemistry, 2011, 19, 3732-3738. | 1.4 | 47 |
| 1293 | Inhibition of the Î²-carbonic anhydrase from Streptococcus pneumoniae by inorganic anions and small molecules: Toward innovative drug design of antiinfectives?. Bioorganic and Medicinal Chemistry, 2011, 19, 243-248. | 1.4 | 76 |
| 1294 | Characterization and anions inhibition studies of an Î±-carbonic anhydrase from the teleost fish Dicentrarchus labrax. Bioorganic and Medicinal Chemistry, 2011, 19, 744-748. | 1.4 | 63 |
| 1295 | Kinetic and docking studies of phenol-based inhibitors of carbonic anhydrase isoforms I, II, IX and XII evidence a new binding mode within the enzyme active site. Bioorganic and Medicinal Chemistry, 2011, 19, 1381-1389. | 1.4 | 97 |
| 1296 | Purification and inhibition studies with anions and sulfonamides of an Î±-carbonic anhydrase from the Antarctic seal Leptonychotes weddellii. Bioorganic and Medicinal Chemistry, 2011, 19, 1847-1851. | 1.4 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1297 | Inhibition studies of the Î²-carbonic anhydrases from the bacterial pathogen Salmonella enterica serovar Typhimurium with sulfonamides and sulfamates. Bioorganic and Medicinal Chemistry, 2011, 19, 5023-5030. | 1.4 | 56 |
| 1298 | An inhibitor-like binding mode of a carbonic anhydrase activator within the active site of isoform II. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2764-2768. | 1.0 | 31 |
| 1299 | Inhibition of Î²-carbonic anhydrases with ureido-substituted benzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 102-105. | 1.0 | 26 |
| 1300 | Carbonic anhydrase inhibitors. Inhibition studies with anions and sulfonamides of a new cytosolic enzyme from the scleractinian coral Stylophora pistillata. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 710-714. | 1.0 | 28 |
| 1301 | (R)-/(S)-10-Camphorsulfonyl-substituted aromatic/heterocyclic sulfonamides selectively inhibit mitochondrial over cytosolic carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1334-1337. | 1.0 | 18 |
| 1302 | Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzymes from the fungal pathogens Candida albicans and Cryptococcus neoformans with branched aliphatic/aromatic carboxylates and their derivatives. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2521-2526. | 1.0 | 33 |
| 1303 | Virtual screening-driven identification of human carbonic anhydrase inhibitors incorporating an original, new pharmacophore. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2515-2520. | 1.0 | 7 |
| 1304 | Sulfonamides incorporating boroxazolidone moieties are potent inhibitors of the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2975-2979. | 1.0 | 14 |
| 1305 | Synthesis and crystallographic analysis of new sulfonamides incorporating NO-donating moieties with potent antiglaucoma action. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3216-3221. | 1.0 | 44 |
| 1306 | Inhibition studies with anions and small molecules of two novel Î²-carbonic anhydrases from the bacterial pathogen Salmonella enterica serovar Typhimurium. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3591-3595. | 1.0 | 70 |
| 1307 | In vitro inhibition of Î±-carbonic anhydrase isozymes by some phenolic compounds. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4259-4262. | 1.0 | 170 |
| 1308 | N-Î²-Glycosyl sulfamides are selective inhibitors of the cancer associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4447-4450. | 1.0 | 33 |
| 1309 | Sulfonamides incorporating 1,3,5-triazine moieties selectively and potently inhibit carbonic anhydrase transmembrane isoforms IX, XII and XIV over cytosolic isoforms I and II: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2011, 19, 3105-3119. | 1.4 | 90 |
| 1310 | Therapeutic compounds: patent evaluation of WO2011011652A1. Expert Opinion on Therapeutic Patents, 2011, 21, 1491-1495. | 2.4 | 2 |
| 1311 | Carbonic anhydrase inhibitors and activators for novel therapeutic applications. Future Medicinal Chemistry, 2011, 3, 1165-1180. | 1.1 | 260 |
| 1312 | The β-Carbonic Anhydrases from Mycobacterium tuberculosis as Drug Targets. Current Pharmaceutical Design, 2010, 16, 3300-3309. | 0.9 | 85 |
| 1313 | Carbonic Anhydrase Inhibitors Developed Through ‘Click Tailing’. Current Pharmaceutical Design, 2010, 16, 3277-3287. | 0.9 | 47 |
| 1314 | Editorial [Hot Topic: Carbonic Anhydrases: Again, and Again, and Again (Executive Editor: Claudiu T.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1315 | 3-Phenyl-1H-Indole-5-Sulfonamides: Structure-Based Drug Design of a Promising Class of Carbonic Anhydrase Inhibitors. Current Pharmaceutical Design, 2010, 16, 3317-3326. | 0.9 | 18 |
| 1316 | Recent Advances in Structural Studies of the Carbonic Anhydrase Family: The Crystal Structure of Human CA IX and CA XIII. Current Pharmaceutical Design, 2010, 16, 3246-3254. | 0.9 | 32 |
| 1317 | Brucella Carbonic Anhydrases: New Targets for Designing Anti-Infective Agents. Current Pharmaceutical Design, 2010, 16, 3310-3316. | 0.9 | 47 |
| 1318 | Saccharomyces cerevisiae β-Carbonic Anhydrase: Inhibition and Activation Studies. Current Pharmaceutical Design, 2010, 16, 3327-3336. | 0.9 | 20 |
| 1319 | Hyperchlorhidrosis Caused by Homozygous Mutation in CA12, Encoding Carbonic Anhydrase XII. American Journal of Human Genetics, 2010, 87, 713-720. | 2.6 | 42 |
| 1320 | Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrases from the pathogenic fungi Candida albicans and Cryptococcus neoformans with amines and amino acids. Bioorganic and Medicinal Chemistry, 2010, 18, 1034-1037. | 1.4 | 19 |
| 1321 | Carbonic anhydrase activators. The first activation study of a coral secretory isoform with amino acids and amines. Bioorganic and Medicinal Chemistry, 2010, 18, 2300-2303. | 1.4 | 28 |
| 1322 | Nanoscale enzyme inhibitors: Fullerenes inhibit carbonic anhydrase by occluding the active site entrance. Bioorganic and Medicinal Chemistry, 2010, 18, 2822-2828. | 1.4 | 66 |
| 1323 | NO-releasing esters show carbonic anhydrase inhibitory action against human isoforms I and II. Bioorganic and Medicinal Chemistry, 2010, 18, 3559-3563. | 1.4 | 59 |
| 1324 | Pteridineâ€“sulfonamide conjugates as dual inhibitors of carbonic anhydrases and dihydrofolate reductase with potential antitumor activity. Bioorganic and Medicinal Chemistry, 2010, 18, 5081-5089. | 1.4 | 47 |
| 1325 | Coumarinyl-substituted sulfonamides strongly inhibit several human carbonic anhydrase isoforms: solution and crystallographic investigations. Bioorganic and Medicinal Chemistry, 2010, 18, 4873-4878. | 1.4 | 63 |
| 1326 | Identification of Potent and Selective Human Carbonic Anhydraseâ€…VII (hCAâ€…VII) Inhibitors. ChemMedChem, 2010, 5, 823-826. | 1.6 | 25 |
| 1327 | Bidentate Zinc Chelators for Î±â€Carbonic Anhydrases that Produce a Trigonal Bipyramidal Coordination Geometry. ChemMedChem, 2010, 5, 1609-1615. | 1.6 | 27 |
| 1328 | Inhibition studies of a Î²-carbonic anhydrase from Brucella suis with a series of water soluble glycosyl sulfanilamides. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2178-2182. | 1.0 | 51 |
| 1329 | Carbonic anhydrase inhibitors. The Î²-carbonic anhydrases from the fungal pathogens Cryptococcus neoformans and Candida albicans are strongly inhibited by substituted-phenyl-1H-indole-5-sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2508-2511. | 1.0 | 27 |
| 1330 | Carbonic anhydrase IX: Biochemical and crystallographic characterization of a novel antitumor target. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 404-409. | 1.1 | 166 |
| 1331 | Carbonic anhydrase inhibitors. Identification of selective inhibitors of the human mitochondrial isozymes VA and VB over the cytosolic isozymes I and II from a natural product-based phenolic library. Bioorganic and Medicinal Chemistry, 2010, 18, 14-18. | 1.4 | 70 |
| 1332 | Carbonic anhydrase inhibitors. Inhibition of mammalian isoforms Iâ€“XIV with a series of natural product polyphenols and phenolic acids. Bioorganic and Medicinal Chemistry, 2010, 18, 2159-2164. | 1.4 | 204 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1333 | Mutation of Phe91 to Asn in human carbonic anhydrase I unexpectedly enhanced both catalytic activity and affinity for sulfonamide inhibitors. Bioorganic and Medicinal Chemistry, 2010, 18, 5498-5503. | 1.4 | 9 |
| 1334 | Design, solid-phase synthesis, and biological evaluation of novel 1,5-diarylpyrrole-3-carboxamides as carbonic anhydrase IX inhibitors. Bioorganic and Medicinal Chemistry, 2010, 18, 7392-7401. | 1.4 | 20 |
| 1335 | Carbonic anhydrase inhibitors. X-ray crystal studies of the carbonic anhydrase IIâ€"trithiocarbonate adductâ€"An inhibitor mimicking the sulfonamide and urea binding to the enzyme. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 474-478. | 1.0 | 76 |
| 1336 | Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrase from the pathogenic yeast Candida glabrata with amines and amino acids. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1701-1704. | 1.0 | 19 |
| 1337 | Carbonic anhydrase inhibitors. Inhibition of transmembrane isoforms IX, XII, and XIV with less investigated anions including trithiocarbonate and dithiocarbamate. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1548-1550. | 1.0 | 48 |
| 1338 | New hydroxypyrimidinone-containing sulfonamides as carbonic anhydrase inhibitors also acting as MMP inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3623-3627. | 1.0 | 16 |
| 1339 | Carbonic anhydrase inhibitors: Crystallographic and solution binding studies for the interaction of a boron-containing aromatic sulfamide with mammalian isoforms Iâ€"XV. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3601-3605. | 1.0 | 27 |
| 1340 | Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3467-3474. | 1.0 | 579 |
| 1341 | Coumarins incorporating hydroxy- and chloro-moieties selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic ones I and II. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4511-4514. | 1.0 | 135 |
| 1342 | Carbonic anhydrase inhibitors. The X-ray crystal structure of human isoform II in adduct with an adamantyl analogue of acetazolamide resides in a less utilized binding pocket than most hydrophobic inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4376-4381. | 1.0 | 70 |
| 1343 | Inhibition of the R1 fragment of the cadmium-containing Î¶-class carbonic anhydrase from the diatom Thalassiosira weissflogii with anions. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4745-4748. | 1.0 | 38 |
| 1344 | Carbonic anhydrase inhibitors. Antioxidant polyphenols effectively inhibit mammalian isoforms Iâ€"XV. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5050-5053. | 1.0 | 151 |
| 1345 | Crystal structure of the C183S/C217S mutant of human CA VII in complex with acetazolamide. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5023-5026. | 1.0 | 81 |
| 1346 | Paraoxon, 4-nitrophenyl phosphate and acetate are substrates of Î±- but not of Î²-, Î³- and Î¶-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6208-6212. | 1.0 | 49 |
| 1347 | 7,8-Disubstituted- but not 6,7-disubstituted coumarins selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic ones I and II in the low nanomolar/subnanomolar range. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7255-7258. | 1.0 | 152 |
| 1348 | Carbonic anhydrase inhibitors: Synthesis and inhibition of the human cytosolic isozymes I and II and transmembrane isozymes IX, XII (cancer-associated) and XIV with 4-substituted 3-pyridinesulfonamides. European Journal of Medicinal Chemistry, 2010, 45, 2396-2404. | 2.6 | 42 |
| 1349 | Carbonic anhydrase inhibitors. Regioselective synthesis of novel 1-substituted 1,4-dihydro-4-oxo-3-pyridinesulfonamides and their inhibition of the human cytosolic isozymes I and II and transmembrane cancer-associated isozymes IX and XII. European Journal of Medicinal Chemistry, 2010, 45, 3656-3661. | 2.6 | 25 |
| 1350 | Characterization of the first beta-class carbonic anhydrase from an arthropod (Drosophila) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (<br>Biochemistry, 2010, 11, 28. | 4.4 | 72 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1351 | Carbonic Anhydrase Inhibitors: Inhibition of Human Erythrocyte Isozymes I and II with a Series of Phenolic Acids. Chemical Biology and Drug Design, 2010, 75, 515-520. | 1.5 | 134 |
| 1352 | An Alternative Purification Method for Human Serum Paraoxonase 1 and its Interactions with Sulfonamides. Chemical Biology and Drug Design, 2010, 76, 552-558. | 1.5 | 44 |
| 1353 | Selective Inhibition of Carbonic Anhydrase IX Decreases Cell Proliferation and Induces Ceramide-Mediated Apoptosis in Human Cancer Cells. Journal of Pharmacology and Experimental Therapeutics, 2010, 334, 710-719. | 1.3 | 96 |
| 1354 | Inhibition and binding studies of carbonic anhydrase isozymes I, II and IX with benzimidazo[1,2-c][1,2,3]thiadiazole-7-sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2010, 25, 863-870. | 2.5 | 66 |
| 1355 | Modulation of Carbonic Anhydrase 9 (CA9) in Human Brain Cancer. Current Pharmaceutical Design, 2010, 16, 3288-3299. | 0.9 | 49 |
| 1356 | Carbonic Anhydrase Inhibition/Activation: Trip of a Scientist Around the World in the Search of Novel Chemotypes and Drug Targets. Current Pharmaceutical Design, 2010, 16, 3233-3245. | 0.9 | 117 |
| 1357 | The Coumarin-Binding Site in Carbonic Anhydrase Accommodates Structurally Diverse Inhibitors: The Antiepileptic Lacosamide As an Example and Lead Molecule for Novel Classes of Carbonic Anhydrase Inhibitors. Journal of Medicinal Chemistry, 2010, 53, 850-854. | 2.9 | 123 |
| 1358 | Deciphering the Mechanism of Carbonic Anhydrase Inhibition with Coumarins and Thiocoumarins. Journal of Medicinal Chemistry, 2010, 53, 335-344. | 2.9 | 363 |
| 1359 | Cloning, Characterization, and Inhibition Studies of a Î²-Carbonic Anhydrase from Brucella suis. Journal of Medicinal Chemistry, 2010, 53, 2277-2285. | 2.9 | 104 |
| 1360 | Identification of 3,4-Dihydroisoquinoline-2(1H)-sulfonamides as Potent Carbonic Anhydrase Inhibitors: Synthesis, Biological Evaluation, and Enzymeâ”Ligand X-ray Studies. Journal of Medicinal Chemistry, 2010, 53, 2401-2408. | 2.9 | 53 |
| 1361 | Analysis of a shortened form of human carbonic anhydrase VII expressed in vitro compared to the full-length enzyme. Biochimie, 2010, 92, 1072-1080. | 1.3 | 29 |
| 1362 | Synthesis and biological evaluation of a 99mTc-labelled sulfonamide conjugate for in vivo visualization of carbonic anhydrase IX expression in tumor hypoxia. Nuclear Medicine and Biology, 2010, 37, 557-564. | 0.3 | 82 |
| 1363 | The first example of a significant active site conformational rearrangement in a carbonic anhydrase-inhibitor adduct: the carbonic anhydrase Iâ€“topiramate complex. Organic and Biomolecular Chemistry, 2010, 8, 3528. | 1.5 | 40 |
| 1364 | The Xâ€ray Structure of the Adduct between NAMIâ€A and Carbonic Anhydrase Provides Insights into the Reactivity of this Metallodrug with Proteins. ChemMedChem, 2010, 5, 1989-1994. | 1.6 | 40 |
| 1365 | Affinity of Sulfamates and Sulfamides to Carbonic Anhydrase II Isoform: Experimental and Molecular Modeling Approaches. Journal of Chemical Information and Modeling, 2010, 50, 1113-1122. | 2.5 | 13 |
| 1366 | Selective hydrophobic pocket binding observed within the carbonic anhydrase II active site accommodate different 4-substituted-ureido-benzenesulfonamides and correlate to inhibitor potency. Chemical Communications, 2010, 46, 8371. | 2.2 | 200 |
| 1367 | Polyamines Inhibit Carbonic Anhydrases by Anchoring to the Zinc-Coordinated Water Molecule. Journal of Medicinal Chemistry, 2010, 53, 5511-5522. | 2.9 | 205 |
| 1368 | Sulfonamide Linked Neoglycoconjugatesâ”A New Class of Inhibitors for Cancer-Associated Carbonic Anhydrases. Journal of Medicinal Chemistry, 2010, 53, 2913-2926. | 2.9 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1369 | Carbonic anhydrase inhibitors: Gd(iii) complexes of DOTA- and TETA-sulfonamide conjugates targeting the tumor associated carbonic anhydrase isozymes IX and XII. New Journal of Chemistry, 2010, 34, 2139. | 1.4 | 5 |
| 1370 | New Macrocyclic Amines Showing Activity as HIV Entry Inhibitors Against Wild Type and Multi-Drug Resistant Viruses. Molecules, 2009, 14, 1927-1937. | 1.7 | 5 |
| 1371 | Crystal structure of the catalytic domain of the tumor-associated human carbonic anhydrase IX. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16233-16238. | 3.3 | 451 |
| 1372 | Carbonic anhydrase inhibitors. Biphenylsulfonamides with inhibitory action towards the transmembrane, tumor-associated isozymes IX possess cytotoxic activity against human colon, lung and breast cancer cell lines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 499-505. | 2.5 | 25 |
| 1373 | The Role of Carbonic Anhydrase 9 in Regulating Extracellular and Intracellular pH in Three-dimensional Tumor Cell Growths. Journal of Biological Chemistry, 2009, 284, 20299-20310. | 1.6 | 249 |
| 1374 | Intact intracellular tail is critical for proper functioning of the tumorâ€associated, hypoxiaâ€regulated carbonic anhydrase IX. FEBS Letters, 2009, 583, 3563-3568. | 1.3 | 30 |
| 1375 | Therapeutic applications of glycosidic carbonic anhydrase inhibitors. Medicinal Research Reviews, 2009, 29, 419-435. | 5.0 | 104 |
| 1376 | Novel organometallic cationic ruthenium(II) pentamethylcyclopentadienyl benzenesulfonamide complexes targeted to inhibit carbonic anhydrase. Journal of Biological Inorganic Chemistry, 2009, 14, 935-945. | 1.1 | 33 |
| 1377 | Sildenafil is a strong activator of mammalian carbonic anhydrase isoforms Iâ€“XIV. Bioorganic and Medicinal Chemistry, 2009, 17, 5791-5795. | 1.4 | 110 |
| 1378 | Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. Proteins: Structure, Function and Bioinformatics, 2009, 74, 164-175. | 1.5 | 97 |
| 1379 | Carbonic Anhydrase Inhibitors: Inhibition of Cytosolic Carbonic Anhydrase Isozymes II and VII with Simple Aromatic Sulfonamides and Some Azo Dyes. Chemical Biology and Drug Design, 2009, 74, 196-202. | 1.5 | 14 |
| 1380 | Which Carbonic Anhydrases are Targeted by the Antiepileptic Sulfonamides and Sulfamates?. Chemical Biology and Drug Design, 2009, 74, 317-321. | 1.5 | 72 |
| 1381 | Carbonic Anhydrase Inhibitors: Glycosylsulfanilamides Act as Subnanomolar Inhibitors of the Human Secreted Isoform VI. Chemical Biology and Drug Design, 2009, 74, 636-639. | 1.5 | 7 |
| 1382 | Carbonic anhydrase inhibitors: Inhibition studies of a coral secretory isoform with inorganic anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 650-653. | 1.0 | 31 |
| 1383 | Carbonic anhydrase inhibitors. Synthesis of 2,4,6-trimethylpyridinium derivatives of 2-(hydrazinocarbonyl)-3-aryl-1H-indole-5-sulfonamides acting as potent inhibitors of the tumor-associated isoform IX and XII. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2931-2934. | 1.0 | 16 |
| 1384 | Carbonic anhydrase activators. Activation of the membrane-associated isoform XV with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3430-3433. | 1.0 | 11 |
| 1385 | Carbonic anhydrase II-induced selection of inhibitors from a dynamic combinatorial library of Schiffâ€™s bases. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6014-6017. | 1.0 | 44 |
| 1386 | Carbonic anhydrase inhibitors. Characterization and inhibition studies of the most active Î²-carbonic anhydrase from Mycobacterium tuberculosis, Rv3588c. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6649-6654. | 1.0 | 101 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1387 | Nitric oxide-donating carbonic anhydrase inhibitors for the treatment of open-angle glaucoma. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6565-6570. | 1.0 | 61 |
| 1388 | Synthesis and biological evaluation of a new family of anti-benzylanilinosulfonamides as CA IX inhibitors. European Journal of Medicinal Chemistry, 2009, 44, 511-518. | 2.6 | 11 |
| 1389 | Carbonic anhydrase inhibitors. Comparison of chlorthalidone, indapamide, trichloromethiazide, and furosemide X-ray crystal structures in adducts with isozyme II, when several water molecules make the difference. Bioorganic and Medicinal Chemistry, 2009, 17, 1214-1221. | 1.4 | 61 |
| 1390 | Carbonic anhydrase inhibitors: Inhibition of the Î²-class enzyme from the yeast Saccharomyces cerevisiae with sulfonamides and sulfamates. Bioorganic and Medicinal Chemistry, 2009, 17, 1158-1163. | 1.4 | 86 |
| 1391 | Carbonic anhydrase inhibitors. The nematode Î±-carbonic anhydrase of Caenorhabditis elegans CAH-4b is highly inhibited by 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 3212-3215. | 1.4 | 16 |
| 1392 | Carbonic anhydrase inhibitors. Inhibition of human erythrocyte isozymes I and II with a series of antioxidant phenols. Bioorganic and Medicinal Chemistry, 2009, 17, 3207-3211. | 1.4 | 207 |
| 1393 | Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzymes from the fungal pathogens Candida albicans and Cryptococcus neoformans with aliphatic and aromatic carboxylates. Bioorganic and Medicinal Chemistry, 2009, 17, 2654-2657. | 1.4 | 69 |
| 1394 | Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isoforms I and II and transmembrane, tumor-associated isoforms IX and XII with boronic acids. Bioorganic and Medicinal Chemistry, 2009, 17, 3649-3652. | 1.4 | 29 |
| 1395 | Synthesis and evaluation of pharmacological profile of 1-aryl-6,7-dimethoxy-3,4-dihydroisoquinoline-2(1H)-sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 3659-3664. | 1.4 | 32 |
| 1396 | Carbonic anhydrase inhibitors. Inhibition and homology modeling studies of the fungal Î²-carbonic anhydrase from Candida albicans with sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 4503-4509. | 1.4 | 56 |
| 1397 | Carbonic anhydrase inhibitors. Inhibition studies of a coral secretory isoform by sulfonamides. Bioorganic and Medicinal Chemistry, 2009, 17, 5054-5058. | 1.4 | 30 |
| 1398 | Carbonic anhydrase inhibitors. Aromatic/heterocyclic sulfonamides incorporating phenacetyl, pyridylacetyl and thienylacetyl tails act as potent inhibitors of human mitochondrial isoforms VA and VB. Bioorganic and Medicinal Chemistry, 2009, 17, 4894-4899. | 1.4 | 39 |
| 1399 | Carbonic anhydrase inhibitors. Diazenylbenzenesulfonamides are potent and selective inhibitors of the tumor-associated isozymes IX and XII over the cytosolic isoforms I and II. Bioorganic and Medicinal Chemistry, 2009, 17, 7093-7099. | 1.4 | 18 |
| 1400 | Carbonic anhydrase inhibitors: The membrane-associated isoform XV is highly inhibited by inorganic anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1155-1158. | 1.0 | 15 |
| 1401 | A thiabendazole sulfonamide shows potent inhibitory activity against mammalian and nematode Î±-carbonic anhydrases. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1371-1375. | 1.0 | 18 |
| 1402 | Carbonic anhydrase inhibitors: Two-prong versus mono-prong inhibitors of isoforms I, II, IX, and XII exemplified by photochromic cis-1,2-Î±-dithienylethene derivatives. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1283-1286. | 1.0 | 47 |
| 1403 | Carbonic anhydrase activators: Activation of the Î²-carbonic anhydrase Nce103 from the yeast Saccharomyces cerevisiae with amines and amino acids. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1662-1665. | 1.0 | 21 |
| 1404 | Inhibition of carbonic anhydrase isozymes with benzene sulfonamides incorporating thio, sulfinyl and sulfonyl glycoside moieties. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2273-2276. | 1.0 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1405 | Carbonic anhydrase inhibitors. Inhibition of cytosolic isoforms I, II, III, VII and XIII with less investigated inorganic anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1855-1857. | 1.0 | 35 |
| 1406 | Carbonic anhydrase activators: Activation of human isozymes I, II and IX with phenylsulfonylhydrazido l-histidine derivatives. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2440-2443. | 1.0 | 23 |
| 1407 | Carbonic anhydrase inhibitors. Inhibition of the fungal Î²-carbonic anhydrases from Candida albicans and Cryptococcus neoformans with boronic acids. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2642-2645. | 1.0 | 47 |
| 1408 | Carbonic anhydrase inhibitors. Phenacetyl-, pyridylacetyl- and thienylacetyl-substituted aromatic sulfonamides act as potent and selective isoform VII inhibitors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3170-3173. | 1.0 | 34 |
| 1409 | The protein tyrosine kinase inhibitors imatinib and nilotinib strongly inhibit several mammalian Î±-carbonic anhydrase isoforms. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4102-4106. | 1.0 | 67 |
| 1410 | Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzyme from the pathogenic yeast Candida glabrata with anions. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4802-4805. | 1.0 | 45 |
| 1411 | Carbonic anhydrase inhibitors; Fluorinated phenyl sulfamates show strong inhibitory activity and selectivity for the inhibition of the tumor-associated isozymes IX and XII over the cytosolic ones I and II. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5082-5085. | 1.0 | 12 |
| 1412 | Carbonic anhydrase inhibitors. Inhibition of the Rv1284 and Rv3273 Î²-carbonic anhydrases from Mycobacterium tuberculosis with diazenylbenzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4929-4932. | 1.0 | 29 |
| 1413 | The proteoglycan region of the tumor-associated carbonic anhydrase isoform IX acts as anintrinsic buffer optimizing CO2 hydration at acidic pH values characteristic of solid tumors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5825-5828. | 1.0 | 79 |
| 1414 | Dissecting the Inhibition Mechanism of Cytosolic versus Transmembrane Carbonic Anhydrases by ESR. Journal of Physical Chemistry B, 2009, 113, 13998-14005. | 1.2 | 11 |
| 1415 | Carbonic Anhydrase Inhibitors. Comparison of Chlorthalidone and Indapamide X-ray Crystal Structures in Adducts with Isozyme II: When Three Water Molecules and the Ketoâ^'Enol Tautomerism Make the Difference. Journal of Medicinal Chemistry, 2009, 52, 322-328. | 2.9 | 56 |
| 1416 | Small-Molecule Suppression of Misfolding of Mutated Human Carbonic Anhydrase II Linked to Marble Brain Disease. Biochemistry, 2009, 48, 5358-5364. | 1.2 | 8 |
| 1417 | Cloning, Expression, Post-Translational Modifications and Inhibition Studies on the Latest Mammalian Carbonic Anhydrase Isoform, CA XV. Journal of Medicinal Chemistry, 2009, 52, 646-654. | 2.9 | 24 |
| 1418 | Carbonic Anhydrase-Encoded Dynamic Constitutional Libraries: Toward the Discovery of Isozyme-Specific Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 4853-4859. | 2.9 | 40 |
| 1419 | Structure and Inhibition of the CO2-Sensing Carbonic Anhydrase Can2 from the Pathogenic Fungus Cryptococcus neoformans. Journal of Molecular Biology, 2009, 385, 1207-1220. | 2.0 | 193 |
| 1420 | Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 1-39. | 2.5 | 167 |
| 1421 | Carbonic Anhydrase Inhibitors. Cloning, Characterization, and Inhibition Studies of a New Î²-Carbonic Anhydrase from Mycobacterium tuberculosis. Journal of Medicinal Chemistry, 2009, 52, 3116-3120. | 2.9 | 107 |
| 1422 | Molecular Cloning, Characterization, and Inhibition Studies of the Rv1284 Î²-Carbonic Anhydrase from Mycobacterium tuberculosis with Sulfonamides and a Sulfamate. Journal of Medicinal Chemistry, 2009, 52, 2226-2232. | 2.9 | 94 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1423 | Discovery of Low Nanomolar and Subnanomolar Inhibitors of the Mycobacterial Î²-Carbonic Anhydrases Rv1284 and Rv3273. Journal of Medicinal Chemistry, 2009, 52, 4063-4067. | 2.9 | 82 |
| 1424 | Non-Zinc Mediated Inhibition of Carbonic Anhydrases: Coumarins Are a New Class of Suicide Inhibitors. Journal of the American Chemical Society, 2009, 131, 3057-3062. | 6.6 | 457 |
| 1425 | Carbonic anhydrase inhibitors. Cloning, characterization and inhibition studies of the cytosolic isozyme III with anions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 70-76. | 2.5 | 36 |
| 1426 | QSAR studies for the inhibition of the transmembrane carbonic anhydrase isozyme XIV with sulfonamides using PRECLAV software. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 337-349. | 2.5 | 11 |
| 1427 | Imaging of CA IX with fluorescent labelled sulfonamides distinguishes hypoxic and (re)-oxygenated cells in a xenograft tumour model. Radiotherapy and Oncology, 2009, 92, 423-428. | 0.3 | 185 |
| 1428 | Metal based isatin-derived sulfonamides: Their synthesis, characterization, coordination behavior and biological activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 859-870. | 2.5 | 12 |
| 1429 | S-Glycosyl Primary Sulfonamidesâ"A New Structural Class for Selective Inhibition of Cancer-Associated Carbonic Anhydrases. Journal of Medicinal Chemistry, 2009, 52, 6421-6432. | 2.9 | 49 |
| 1430 | Carbonic Anhydrase Inhibitors. Comparison of Aliphatic Sulfamate/Bis-sulfamate Adducts with Isozymes II and IX as a Platform for Designing Tight-Binding, More Isoform-Selective Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 5990-5998. | 2.9 | 21 |
| 1431 | Inhibition of Carbonic Anhydrase IX: A New Strategy Against Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2009, 9, 693-702. | 0.9 | 36 |
| 1432 | Cloning, polymorphism, and inhibition of Î²-carbonic anhydrase of Helicobacter pylori. Journal of Gastroenterology, 2008, 43, 849-857. | 2.3 | 48 |
| 1433 | Modification of carbonic anhydrase II with acetaldehyde, the first metabolite of ethanol, leads to decreased enzyme activity. BMC Biochemistry, 2008, 9, 32. | 4.4 | 17 |
| 1434 | Carbonic anhydrase IX: A new druggable target for the design of antitumor agents. Medicinal Research Reviews, 2008, 28, 445-463. | 5.0 | 210 |
| 1435 | Carbonic Anhydrase Inhibitors: Binding of Indanesulfonamides to the Human Isoformâ€…II. ChemMedChem, 2008, 3, 473-477. | 1.6 | 11 |
| 1436 | Carbonic Anhydrase Inhibitors: Design of Membraneâ€Impermeant Copper(II) Complexes of DTPAâ€, DOTAâ€, and TETAâ€Tailed Sulfonamides Targeting the Tumorâ€Associated Transmembrane Isoform IX. ChemMedChem, 2008, 3, 1780-1788. | 1.6 | 28 |
| 1437 | Carbonic anhydrase inhibitors: possible anticancer drugs with a novel mechanism of action. Drug Development Research, 2008, 69, 297-303. | 1.4 | 13 |
| 1438 | Indanesulfonamides as carbonic anhydrase inhibitors and anticonvulsant agents: Structureâ€"activity relationship and pharmacological evaluation. European Journal of Medicinal Chemistry, 2008, 43, 2853-2860. | 2.6 | 21 |
| 1439 | Carbonic anhydrase inhibitors: Inhibition of human cytosolic isozymes I and II and tumor-associated isozymes IX and XII with S-substituted 4-chloro-2-mercapto-5-methyl-benzenesulfonamides. Bioorganic and Medicinal Chemistry, 2008, 16, 3933-3940. | 1.4 | 29 |
| 1440 | Carbonic anhydrase activators: Activation of the human tumor-associated isozymes IX and XII with amino acids and amines. Bioorganic and Medicinal Chemistry, 2008, 16, 3530-3536. | 1.4 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1441 | Carbonic anhydrase inhibitors: Inhibition of mammalian isoforms Iâ€“XIV with a series of substituted phenols including paracetamol and salicylic acid. Bioorganic and Medicinal Chemistry, 2008, 16, 7424-7428. | 1.4 | 120 |
| 1442 | Carbonic anhydrase activators: Kinetic and X-ray crystallographic study for the interaction of d- and l-tryptophan with the mammalian isoforms Iâ€“XIV. Bioorganic and Medicinal Chemistry, 2008, 16, 8373-8378. | 1.4 | 65 |
| 1443 | In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. Bioorganic and Medicinal Chemistry, 2008, 16, 9101-9105. | 1.4 | 160 |
| 1444 | Carbonic anhydrase inhibitors: Synthesis and inhibition studies against mammalian isoforms Iâ€“XV with a series of 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides. Bioorganic and Medicinal Chemistry, 2008, 16, 9113-9120. | 1.4 | 23 |
| 1445 | Carbonic anhydrase inhibitors. Interaction of 2-(hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide with 12 mammalian isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 152-158. | 1.0 | 49 |
| 1446 | Carbonic anhydrase inhibitors. Interaction of 2-N,N-dimethylamino-1,3,4-thiadiazole-5-methanesulfonamide with 12 mammalian isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 999-1005. | 1.0 | 22 |
| 1447 | Carbonic anhydrase inhibitors: Interactions of phenols with the 12 catalytically active mammalian isoforms (CA Iâ€“XIV). Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1583-1587. | 1.0 | 186 |
| 1448 | Carbonic anhydrase inhibitors: The very weak inhibitors dithiothreitol, Î²-mercaptoethanol, tris(carboxyethyl)phosphine and threitol interfere with the binding of sulfonamides to isozymes II and IX. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1898-1903. | 1.0 | 7 |
| 1449 | Carbonic anhydrase inhibitors. Interaction of indapamide and related diuretics with 12 mammalian isozymes and X-ray crystallographic studies for the indapamideâ€“isozyme II adduct. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2567-2573. | 1.0 | 67 |
| 1450 | Carbonic anhydrase inhibitors: Thioxolone versus sulfonamides for obtaining isozyme-selective inhibitors?. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3938-3941. | 1.0 | 37 |
| 1451 | Carbonic anhydrase activators: Activation of the human cytosolic isozyme III and membrane-associated isoform IV with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4303-4307. | 1.0 | 30 |
| 1452 | Carbonic anhydrase inhibitors. Interaction of the antitumor sulfamate EMD 486019 with twelve mammalian carbonic anhydrase isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4282-4286. | 1.0 | 10 |
| 1453 | Inhibition of human mitochondrial carbonic anhydrases VA and VB with para-(4-phenyltriazole-1-yl)-benzenesulfonamide derivatives. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4624-4627. | 1.0 | 48 |
| 1454 | Carbonic anhydrase inhibitors: Inhibition of the Î²-class enzymes from the fungal pathogens Candida albicans and Cryptococcus neoformans with simple anions. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5066-5070. | 1.0 | 98 |
| 1455 | Carbonic anhydrase inhibitors: Inhibition of Plasmodium falciparum carbonic anhydrase with aromatic/heterocyclic sulfonamidesâ€”in vitro and in vivo studies. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5466-5471. | 1.0 | 70 |
| 1456 | Carbonic anhydrase activators: Activation of the archaeal Î²-class (Cab) and Î³-class (Cam) carbonic anhydrases with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6194-6198. | 1.0 | 36 |
| 1457 | Carbonic anhydrase inhibitors: 2-Substituted-1,3,4-thiadiazole-5-sulfamides act as powerful and selective inhibitors of the mitochondrial isozymes VA and VB over the cytosolic and membrane-associated carbonic anhydrases I, II and IV. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6332-6335. | 1.0 | 24 |
| 1458 | Carbonic anhydrase inhibitors. Inhibition of the Î²-class enzyme from the yeast Saccharomyces cerevisiae with anions. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6327-6331. | 1.0 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1459 | Carbonic anhydrase inhibitors: Copper(II) complexes of polyamino-polycarboxylamido aromatic/heterocyclic sulfonamides are very potent inhibitors of the tumor-associated isoforms IX and XII. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 836-841. | 1.0 | 37 |
| 1460 | Investigations of the esterase, phosphatase, and sulfatase activities of the cytosolic mammalian carbonic anhydrase isoforms I, II, and XIII with 4-nitrophenyl esters as substrates. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2267-2271. | 1.0 | 104 |
| 1461 | Carbonic anhydrase inhibitors: The X-ray crystal structure of ethoxzolamide complexed to human isoform II reveals the importance of thr200 and gln92 for obtaining tight-binding inhibitors. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2669-2674. | 1.0 | 35 |
| 1462 | Carbonic anhydrase inhibitors: Inhibition of the new membrane-associated isoform XV with phenols. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3593-3596. | 1.0 | 63 |
| 1463 | Carbonic anhydrase inhibitors: Design of spin-labeled sulfonamides incorporating TEMPO moieties as probes for cytosolic or transmembrane isozymes. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3475-3480. | 1.0 | 16 |
| 1464 | Inhibition of Carbonic Anhydrases with Glycosyltriazole Benzene Sulfonamides. Journal of Medicinal Chemistry, 2008, 51, 1945-1953. | 2.9 | 77 |
| 1465 | Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. Expert Opinion on Emerging Drugs, 2008, 13, 383-392. | 1.0 | 165 |
| 1466 | Carbonic anhydrases: novel therapeutic applications for inhibitors and activators. Nature Reviews Drug Discovery, 2008, 7, 168-181. | 21.5 | 2,702 |
| 1467 | Cancer-associated, hypoxia-inducible carbonic anhydrase IX facilitates CO2diffusion. BJU International, 2008, 101, 22-24. | 1.3 | 61 |
| 1468 | Development of small molecule carbonic anhydrase IX inhibitors. BJU International, 2008, 101, 39-40. | 1.3 | 38 |
| 1469 | External pH influences the transcriptional profile of the carbonic anhydrase, CAH-4b in Caenorhabditis elegans. Molecular and Biochemical Parasitology, 2008, 161, 140-149. | 0.5 | 33 |
| 1470 | Dual Inhibitors of Matrix Metalloproteinases and Carbonic Anhydrases: Iminodiacetyl-Based Hydroxamateâ”Benzenesulfonamide Conjugates. Journal of Medicinal Chemistry, 2008, 51, 7968-7979. | 2.9 | 52 |
| 1471 | Recent Developments of Carbonic Anhydrase Inhibitors as Potential Anticancer Drugs. Journal of Medicinal Chemistry, 2008, 51, 3051-3056. | 2.9 | 66 |
| 1472 | Carbonic anhydrase inhibitors. Sulfonamide diuretics revisitedâ€”old leads for new applications?. Organic and Biomolecular Chemistry, 2008, 6, 2499. | 1.5 | 88 |
| 1473 | Biochemical Characterization of CA IX, One of the Most Active Carbonic Anhydrase Isozymes. Journal of Biological Chemistry, 2008, 283, 27799-27809. | 1.6 | 258 |
| 1474 | Carbonic Anhydrase Inhibitors: Bioreductive Nitro-Containing Sulfonamides with Selectivity for Targeting the Tumor Associated Isoforms IX and XII. Journal of Medicinal Chemistry, 2008, 51, 3230-3237. | 2.9 | 49 |
| 1475 | Carbonic Anhydrase Inhibitor Coated Gold Nanoparticles Selectively Inhibit the Tumor-Associated Isoform IX over the Cytosolic Isozymes I and II. Journal of the American Chemical Society, 2008, 130, 16130-16131. | 6.6 | 102 |
| 1476 | Structureâ€“Activity Relationships of C-17 Cyano-Substituted Estratrienes as Anticancer Agents. Journal of Medicinal Chemistry, 2008, 51, 1295-1308. | 2.9 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1477 | The Development of Topically Acting Carbonic Anhydrase Inhibitors as Antiglaucoma Agents. Current Pharmaceutical Design, 2008, 14, 649-654. | 0.9 | 101 |
| 1478 | Update on the development of HIV entry inhibitors. Future HIV Therapy, 2008, 2, 479-507. | 0.5 | 3 |
| 1479 | Carbonic anhydrase inhibitors. Inhibition of the cytosolic and tumor-associated carbonic anhydrase isozymes I, II and IX with some 1,3,4-oxadiazole- and 1,2,4-triazole-thiols. Journal of Enzyme Inhibition and Medicinal Chemistry, 2008, 23, 101-107. | 2.5 | 23 |
| 1480 | Tumor-associated Carbonic Anhydrase 9 Spatially Coordinates Intracellular pH in Three-dimensional Multicellular Growths. Journal of Biological Chemistry, 2008, 283, 20473-20483. | 1.6 | 185 |
| 1481 | Carbonic Anhydrase in the Scleractinian Coral Stylophora pistillata. Journal of Biological Chemistry, 2008, 283, 25475-25484. | 1.6 | 221 |
| 1482 | Anticancer steroid sulfatase inhibitors: synthesis of a potent fluorinated second-generation agent, in vitro and in vivo activities, molecular modeling, and protein crystallography. Molecular Cancer Therapeutics, 2008, 7, 2435-2444. | 1.9 | 39 |
| 1483 | Carbonic Anhydrases An Overview. Current Pharmaceutical Design, 2008, 14, 603-614. | 0.9 | 476 |
| 1484 | The α and β Classes Carbonic Anhydrases from Helicobacter pylori as Novel Drug Targets. Current Pharmaceutical Design, 2008, 14, 622-630. | 0.9 | 188 |
| 1485 | Fluorescence- and Spin-Labeled Carbonic Anhydrase Inhibitors. Current Pharmaceutical Design, 2008, 14, 699-707. | 0.9 | 15 |
| 1486 | Diuretics: From Classical Carbonic Anhydrase Inhibitors to Novel Applications of the Sulfonamides. Current Pharmaceutical Design, 2008, 14, 641-648. | 0.9 | 219 |
| 1487 | Carbonic Anhydrase Activation and the Drug Design. Current Pharmaceutical Design, 2008, 14, 708-715. | 0.9 | 81 |
| 1488 | Design of Zinc Binding Functions for Carbonic Anhydrase Inhibitors. Current Pharmaceutical Design, 2008, 14, 615-621. | 0.9 | 75 |
| 1489 | The Alpha-Carbonic Anhydrase from the Malaria Parasite and its Inhibition. Current Pharmaceutical Design, 2008, 14, 631-640. | 0.9 | 74 |
| 1490 | Are Carbonic Anhydrase Inhibitors Suitable for Obtaining Antiobesity Drugs ?. Current Pharmaceutical Design, 2008, 14, 655-660. | 0.9 | 150 |
| 1491 | Carbonic Anhydrase Inhibition: Insight into Non-COX-2 Pharmacological Effect of some Coxibs. Current Pharmaceutical Design, 2008, 14, 679-684. | 0.9 | 10 |
| 1492 | Editorial [ Carbonic Anhydrases as Drug Targets Executive Editor: Claudiu T. Supuran ]. Current Pharmaceutical Design, 2008, 14, 601-602. | 0.9 | 39 |
| 1493 | Anticonvulsant Sulfonamides/Sulfamates/Sulfamides with Carbonic Anhydrase Inhibitory Activity: Drug Design and Mechanism of Action. Current Pharmaceutical Design, 2008, 14, 661-671. | 0.9 | 129 |
| 1494 | Novel targets against Helicobacter pylori: a bioinformatic approach. Future Microbiology, 2007, 2, 111-114. | 1.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1495 | Malarial Parasite Carbonic Anhydrase and Its Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 909-917. | 1.0 | 41 |
| 1496 | Inhibitors of HIV-1 Protease: Current State of the Art 10 Years After their Introduction. From Antiretroviral Drugs to Antifungal, Antibacterial and Antitumor Agents Based on Aspartic Protease Inhibitors. Current Medicinal Chemistry, 2007, 14, 2734-2748. | 1.2 | 132 |
| 1497 | The Development of Topically Acting Carbonic Anhydrase Inhibitors as Antiglaucoma Agents. Current Topics in Medicinal Chemistry, 2007, 7, 849-854. | 1.0 | 61 |
| 1498 | Carbonic Anhydrases as Drug Targets - An Overview. Current Topics in Medicinal Chemistry, 2007, 7, 825-833. | 1.0 | 195 |
| 1499 | Metal Binding Functions in the Design of Carbonic Anhydrase Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 835-848. | 1.0 | 22 |
| 1500 | Inhibition of the Archaeal β-Class (Cab) and γ-Class (Cam) Carbonic Anhydrases. Current Topics in Medicinal Chemistry, 2007, 7, 901-908. | 1.0 | 126 |
| 1501 | An Update in the Development of HIV Entry Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 1273-1289. | 1.0 | 67 |
| 1502 | Carbonic Anhydrase Inhibitors as Anticonvulsant Agents. Current Topics in Medicinal Chemistry, 2007, 7, 855-864. | 1.0 | 209 |
| 1503 | Antiobesity Carbonic Anhydrase Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 879-884. | 1.0 | 95 |
| 1504 | Characterization and Inhibition of the Recently Discovered Carbonic Anhydrase Isoforms CA XIII, XIV and XV. Current Topics in Medicinal Chemistry, 2007, 7, 893-899. | 1.0 | 29 |
| 1505 | Dual Carbonic Anhydrase - Cyclooxygenase-2 Inhibitors. Current Topics in Medicinal Chemistry, 2007, 7, 885-891. | 1.0 | 41 |
| 1506 | Therapeutic applications of the carbonic anhydrase inhibitors. Therapy: Open Access in Clinical Medicine, 2007, 4, 355-378. | 0.2 | 29 |
| 1507 | Reconstitution of carbonic anhydrase activity of the cell-surface-binding protein of vaccinia virus. Biochemical Journal, 2007, 407, 61-67. | 1.7 | 10 |
| 1508 | Membrane-bound carbonic anhydrases in osteoclasts. Bone, 2007, 40, 1021-1031. | 1.4 | 67 |
| 1509 | Imaging the hypoxia surrogate marker CA IX requires expression and catalytic activity for binding fluorescent sulfonamide inhibitors. Radiotherapy and Oncology, 2007, 83, 367-373. | 0.3 | 157 |
| 1510 | Synthesis and antimalarial activity of novel chiral and achiral benzenesulfonamides bearing 1, 3, 4-oxadiazole moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2007, 22, 301-308. | 2.5 | 52 |
| 1511 | Analysis of Human Carbonic Anhydrase II:â€‰ Docking Reliability and Receptor-Based 3D-QSAR Study. Journal of Chemical Information and Modeling, 2007, 47, 515-525. | 2.5 | 39 |
| 1512 | Homology Modeling and Receptor-Based 3D-QSAR Study of Carbonic Anhydrase IX. Journal of Chemical Information and Modeling, 2007, 47, 2253-2262. | 2.5 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1513 | Carbonic Anhydrase Inhibitors. DNA Cloning, Characterization, and Inhibition Studies of the Human Secretory Isoform VI, a New Target for Sulfonamide and Sulfamate Inhibitors. Journal of Medicinal Chemistry, 2007, 50, 381-388. | 2.9 | 88 |
| 1514 | Carbonic Anhydrase Inhibitors:Â Inhibition of Isozymes I, II, and IX with Triazole-LinkedO-Glycosides of Benzene Sulfonamides. Journal of Medicinal Chemistry, 2007, 50, 1651-1657. | 2.9 | 179 |
| 1515 | Saccharin Inhibits Carbonic Anhydrases: Possible Explanation for its Unpleasant Metallic Aftertaste. Angewandte Chemie - International Edition, 2007, 46, 7697-7699. | 7.2 | 168 |
| 1516 | Exploration of the Binding Mode of Indanesulfonamides as Selective Inhibitors of Human Carbonic Anhydrase Typeâ€...VII by Targeting Lysâ€‰91. ChemMedChem, 2007, 2, 1273-1280. | 1.6 | 25 |
| 1517 | Carbonic anhydrase and matrix metalloproteinase inhibitors. Inhibition of human tumor-associated isozymes IX and cytosolic isozyme I and II with sulfonylated hydroxamates. Bioorganic and Medicinal Chemistry, 2007, 15, 2298-2311. | 1.4 | 44 |
| 1518 | Carbonic anhydrase activators: The first activation study of the human secretory isoform VI with amino acids and amines. Bioorganic and Medicinal Chemistry, 2007, 15, 5351-5357. | 1.4 | 52 |
| 1519 | Molecular modeling study for the binding of zonisamide and topiramate to the human mitochondrial carbonic anhydrase isoform VA. Bioorganic and Medicinal Chemistry, 2007, 15, 4152-4158. | 1.4 | 37 |
| 1520 | Carbonic anhydrases as targets for medicinal chemistry. Bioorganic and Medicinal Chemistry, 2007, 15, 4336-4350. | 1.4 | 521 |
| 1521 | QSAR studies on the activation of the human carbonic anhydrase cytosolic isoforms I and II and secretory isozyme VI with amino acids and amines. Bioorganic and Medicinal Chemistry, 2007, 15, 6501-6509. | 1.4 | 4 |
| 1522 | Design, synthesis, and docking studies of new 1,3,4-thiadiazole-2-thione derivatives with carbonic anhydrase inhibitory activity. Bioorganic and Medicinal Chemistry, 2007, 15, 6975-6984. | 1.4 | 78 |
| 1523 | Carbonic anhydrase inhibitors: The inhibition profiles of the human mitochondrial isoforms VA and VB with anions are very different. Bioorganic and Medicinal Chemistry, 2007, 15, 6742-6747. | 1.4 | 17 |
| 1524 | Carbonic anhydrase inhibitors: Cloning, characterization, and inhibition studies of the cytosolic isozyme III with sulfonamides. Bioorganic and Medicinal Chemistry, 2007, 15, 7229-7236. | 1.4 | 100 |
| 1525 | Inhibition of membrane-associated carbonic anhydrase isozymes IX, XII and XIV with a library of glycoconjugate benzenesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 987-992. | 1.0 | 63 |
| 1526 | Carbonic anhydrase activators: An activation study of the human mitochondrial isoforms VA and VB with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1336-1340. | 1.0 | 44 |
| 1527 | Carbonic anhydrase inhibitors: Binding of an antiglaucoma glycosyl-sulfanilamide derivative to human isoform II and its consequences for the drug design of enzyme inhibitors incorporating sugar moieties. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1726-1731. | 1.0 | 38 |
| 1528 | Carbonic anhydrase inhibitors: Inhibition of cytosolic/tumor-associated isoforms I, II, and IX with iminodiacetic carboxylates/hydroxamates also incorporating benzenesulfonamide moieties. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1538-1543. | 1.0 | 29 |
| 1529 | Carbonic anhydrase inhibitors. Inhibition of transmembrane isozymes XII (cancer-associated) and XIV with anions. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1532-1537. | 1.0 | 35 |
| 1530 | Carbonic anhydrase inhibitors: The X-ray crystal structure of the adduct of N-hydroxysulfamide with isozyme II explains why this new zinc binding function is effective in the design of potent inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2795-2801. | 1.0 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1531 | Carbonic anhydrase inhibitors. Inhibition of isoforms I, II, IV, VA, VII, IX, and XIV with sulfonamides incorporating fructopyranoseâ€“thioureido tails. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2685-2691. | 1.0 | 48 |
| 1532 | Carbonic anhydrase inhibitors: The Î²-carbonic anhydrase from Helicobacter pylori is a new target for sulfonamide and sulfamate inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3585-3594. | 1.0 | 157 |
| 1533 | Carbonic anhydrase activators: Activation of the human isoforms VII (cytosolic) and XIV (transmembrane) with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4107-4112. | 1.0 | 48 |
| 1534 | Carbonic anhydrase inhibitors. Interaction of the antiepileptic drug sulthiame with twelve mammalian isoforms: Kinetic and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4866-4872. | 1.0 | 37 |
| 1535 | Carbonic anhydrase inhibitors. Inhibition of cytosolic isoforms I and II, and extracellular isoforms IV, IX, and XII with sulfamides incorporating sugar moieties. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5086-5090. | 1.0 | 41 |
| 1536 | Inhibition of carbonic anhydrase isozymes I, II and IX with benzenesulfonamides containing an organometallic moiety. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5032-5035. | 1.0 | 43 |
| 1537 | Phosph(on)ate as a zinc-binding group in metalloenzyme inhibitors: X-ray crystal structure of the antiviral drug foscarnet complexed to human carbonic anhydrase I. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2210-2215. | 1.0 | 48 |
| 1538 | Carbonic anhydrase inhibitors: Inhibition of human, bacterial, and archaeal isozymes with benzene-1,3-disulfonamidesâ€”Solution and crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4201-4207. | 1.0 | 47 |
| 1539 | Carbonic anhydrase inhibitors: Selective inhibition of the extracellular, tumor-associated isoforms IX and XII over isozymes I and II with glycosyl-thioureido-sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5096-5100. | 1.0 | 26 |
| 1540 | Carbonic anhydrase activators: l-Adrenaline plugs the active site entrance of isozyme II, activating better isoforms I, IV, VA, VII, and XIV. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 628-635. | 1.0 | 93 |
| 1541 | Carbonic anhydrase inhibitors. Inhibition studies of the human secretory isoform VI with anions. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1037-1042. | 1.0 | 33 |
| 1542 | In-vitro antibacterial, antifungal and cytotoxic properties of metal-based furanyl derived sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2006, 21, 771-781. | 2.5 | 40 |
| 1543 | A perspective on quantitative structureâ€“activity relationships and carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2006, 2, 113-137. | 1.5 | 34 |
| 1544 | Carbonic Anhydrase Activators. Activation of Isoforms I, II, IV, VA, VII, and XIV with l- and d-Phenylalanine and Crystallographic Analysis of Their Adducts with Isozyme II:â€‰ Stereospecific Recognition within the Active Site of an Enzyme and Its Consequences for the Drug Design. Journal of Medicinal Chemistry, 2006, 49, 3019-3027. | 2.9 | 128 |
| 1545 | Carbonic anhydrase inhibitors. Inhibition of human tumor-associated isozymes IX and cytosolic isozymes I and II with some 1,3,4-oxadiazole-thiols. Journal of Enzyme Inhibition and Medicinal Chemistry, 2006, 21, 351-359. | 2.5 | 7 |
| 1546 | Carbonic anhydrase inhibitors. N-Cyanomethylsulfonamidesâ€”a new zinc binding group in the design of inhibitors targeting cytosolic and membrane-anchored isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2006, 21, 477-481. | 2.5 | 3 |
| 1547 | Carbonic anhydrase inhibitors. Selective inhibition of human tumor-associated isozymes IX and XII and cytosolic isozymes I and II with some substituted-2-mercapto-benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2006, 21, 563-568. | 2.5 | 19 |
| 1548 | 3D QSAR Selectivity Analyses of Carbonic Anhydrase Inhibitors:â€‰ Insights for the Design of Isozyme Selective Inhibitors. Journal of Chemical Information and Modeling, 2006, 46, 2737-2760. | 2.5 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1549 | 2-Substituted Estradiol Bis-sulfamates, Multitargeted Antitumor Agents:Â Synthesis, In Vitro SAR, Protein Crystallography, and In Vivo Activityâ€. Journal of Medicinal Chemistry, 2006, 49, 7683-7696. | 2.9 | 98 |
| 1550 | A Novel Class of Carbonic Anhydrase Inhibitors:â€‰ Glycoconjugate Benzene Sulfonamides Prepared by â€œClick-Tailingâ€. Journal of Medicinal Chemistry, 2006, 49, 6539-6548. | 2.9 | 168 |
| 1551 | Indanesulfonamides as Carbonic Anhydrase Inhibitors. Toward Structure-Based Design of Selective Inhibitors of the Tumor-Associated Isozyme CA IX. Journal of Medicinal Chemistry, 2006, 49, 2743-2749. | 2.9 | 58 |
| 1552 | Carbonic Anhydrase Inhibitors:Â Hypoxia-Activatable Sulfonamides Incorporating Disulfide Bonds that Target the Tumor-Associated Isoform IXâ€. Journal of Medicinal Chemistry, 2006, 49, 5544-5551. | 2.9 | 100 |
| 1553 | Carbonic Anhydrase Inhibitors:â€‰ Clash with Ala65 as a Means for Designing Inhibitors with Low Affinity for the Ubiquitous Isozyme II, Exemplified by the Crystal Structure of the Topiramate Sulfamide Analogue. Journal of Medicinal Chemistry, 2006, 49, 7024-7031. | 2.9 | 147 |
| 1554 | Carbonic Anhydrase Inhibitors:â€‰ X-ray and Molecular Modeling Study for the Interaction of a Fluorescent Antitumor Sulfonamide with Isozyme II and IX. Journal of the American Chemical Society, 2006, 128, 8329-8335. | 6.6 | 200 |
| 1555 | Carbonic Anhydrase Inhibitors:â€‰ DNA Cloning and Inhibition Studies of the Î±-Carbonic Anhydrase from Helicobacter pylori, A New Target for Developing Sulfonamide and Sulfamate Gastric Drugs. Journal of Medicinal Chemistry, 2006, 49, 2117-2126. | 2.9 | 154 |
| 1556 | Carbonic anhydrase inhibitors and activators and their use in therapy. Expert Opinion on Therapeutic Patents, 2006, 16, 1627-1664. | 2.4 | 158 |
| 1557 | Targeting tumor-associated carbonic anhydrase IX in cancer therapy. Trends in Pharmacological Sciences, 2006, 27, 566-573. | 4.0 | 362 |
| 1558 | Carbonic anhydrase inhibitors: Cloning and sulfonamide inhibition studies of a carboxyterminal truncated Î±-carbonic anhydrase from Helicobacter pylori. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2182-2188. | 1.0 | 42 |
| 1559 | N-Hydroxyureaâ€”A versatile zinc binding function in the design of metalloenzyme inhibitors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4316-4320. | 1.0 | 35 |
| 1560 | Carbonic anhydrase inhibitors. Inhibition of the cytosolic human isozymes I and II, and the transmembrane, tumor-associated isozymes IX and XII with substituted aromatic sulfonamides activatable in hypoxic tumors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4846-4851. | 1.0 | 51 |
| 1561 | An evaluation of cytosolic erythrocyte carbonic anhydrase and catalase in carcinoma patients: An elevation of carbonic anhydrase activity. Clinical Biochemistry, 2006, 39, 804-809. | 0.8 | 12 |
| 1562 | QSAR study on para-substituted aromatic sulfonamides as carbonic anhydrase II inhibitors using topological information indices. Bioorganic and Medicinal Chemistry, 2006, 14, 1108-1114. | 1.4 | 63 |
| 1563 | Carbonic anhydrase inhibitors: Transepithelial transport of thioureido sulfonamide inhibitors of the cancer-associated isozyme IX is dependent on efflux transporters. Bioorganic and Medicinal Chemistry, 2006, 14, 2418-2427. | 1.4 | 18 |
| 1564 | Carbonic anhydrase activators: The first X-ray crystallographic study of an adduct of isoform I. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5152-5156. | 1.0 | 81 |
| 1565 | Carbonic anhydrase inhibitors: Valdecoxib binds to a different active site region of the human isoform II as compared to the structurally related cyclooxygenase II â€˜selectiveâ€™ inhibitor celecoxib. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 437-442. | 1.0 | 93 |
| 1566 | Carbonic anhydrase inhibitors: Inhibition of the cytosolic human isozyme VII with anions. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3139-3143. | 1.0 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1567 | Carbonic anhydrase activators: Activation of isozyme XIII with amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3955-3959. | 1.0 | 47 |
| 1568 | Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of 5-amino-1,3,4-thiadiazole-2-sulfonamide and 5-(4-amino-3-chloro-5-fluorophenylsulfonamido)-1,3,4-thiadiazole-2-sulfonamide to human isoform II. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 6204-6208. | 1.0 | 32 |
| 1569 | Carbonic Anhydrase Activators. Activation of Isozymes I, II, IV, VA, VII, and XIV withL- andD-Histidine and Crystallographic Analysis of Their Adducts with Isoform II: Engineering Proton-Transfer Processes within the Active Site of an Enzyme. Chemistry - A European Journal, 2006, 12, 7057-7066. | 1.7 | 131 |
| 1570 | Integrated Approach Using Protein and Ligand Information to Analyze Selectivity- and Affinity-Determining Features of Carbonic Anhydrase Isozymes. ChemMedChem, 2006, 1, 839-853. | 1.6 | 18 |
| 1571 | Therapeutic potential of sulfamides as enzyme inhibitors. Medicinal Research Reviews, 2006, 26, 767-792. | 5.0 | 173 |
| 1572 | Coxibs and Cardiovascular Side-Effects: From Light to Shadow. Current Pharmaceutical Design, 2006, 12, 971-975. | 0.9 | 118 |
| 1573 | Phosphodiesterase 5 Inhibitors - Drug Design and Differentiation Based on Selectivity, Pharmacokinetic and Efficacy Profiles. Current Pharmaceutical Design, 2006, 12, 3459-3465. | 0.9 | 57 |
| 1574 | New Zinc Binding Motifs in the Design of Selective Carbonic Anhydrase Inhibitors. Mini-Reviews in Medicinal Chemistry, 2006, 6, 921-936. | 1.1 | 78 |
| 1575 | The sulfamide motif in the design of enzyme inhibitors. Expert Opinion on Therapeutic Patents, 2006, 16, 27-47. | 2.4 | 74 |
| 1576 | Inhibitors of HIV-1 protease: 10 years after. Expert Opinion on Therapeutic Patents, 2006, 16, 1067-1091. | 2.4 | 20 |
| 1577 | Carbonic anhydrase inhibitors. Inhibition of Plasmodium falciparum carbonic anhydrase with aromatic sulfonamides: towards antimalarials with a novel mechanism of action?. Bioorganic and Medicinal Chemistry, 2005, 13, 483-489. | 1.4 | 81 |
| 1578 | A physically interpretable quantum-theoretic QSAR for some carbonic anhydrase inhibitors with diverse aromatic rings, obtained by a new QSAR procedure. Bioorganic and Medicinal Chemistry, 2005, 13, 2197-2211. | 1.4 | 21 |
| 1579 | Carbonic anhydrase inhibitors: Inhibition of the human transmembrane isozyme XIV with a library of aromatic/heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry, 2005, 13, 6089-6093. | 1.4 | 21 |
| 1580 | QSAR study on pKa vis-Ã-vis physiological activity of sulfonamides: a dominating role of surface tension (inverse steric parameter). Bioorganic and Medicinal Chemistry Letters, 2005, 15, 203-209. | 1.0 | 20 |
| 1581 | Carbonic anhydrase inhibitors. Inhibition of isozymes I, II, IV, V, and IX with anions isosteric and isoelectronic with sulfate, nitrate, and carbonate. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 567-571. | 1.0 | 31 |
| 1582 | Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with bis-sulfamates. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 579-584. | 1.0 | 43 |
| 1583 | Carbonic anhydrase inhibitors. Inhibition of the membrane-bound human and bovine isozymes IV with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1149-1154. | 1.0 | 29 |
| 1584 | Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 971-976. | 1.0 | 145 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1585 | QSAR studies on benzene sulfonamide carbonic anhydrase inhibitors: need of hydrophobic parameter for topological modeling of binding constants of sulfonamides to human CA-II. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 923-930. | 1.0 | 28 |
| 1586 | Novel use of chemical shift in NMR as molecular descriptor: a first report on modeling carbonic anhydrase inhibitory activity and related parameters. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 931-936. | 1.0 | 16 |
| 1587 | Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with organic phosphates and phosphonates. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1683-1686. | 1.0 | 25 |
| 1588 | Carbonic anhydrase inhibitors. Inhibition of isozymes I, II, IV, V and IX with complex fluorides, chlorides and cyanides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1909-1913. | 1.0 | 18 |
| 1589 | Carbonic anhydrase inhibitors: X-ray crystal structure of a benzenesulfonamide strong CA II and CA IX inhibitor bearing a pentafluorophenylaminothioureido tail in complex with isozyme II. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1937-1942. | 1.0 | 40 |
| 1590 | Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with N-hydroxysulfamidesâ€"a new zinc-binding function in the design of inhibitors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2353-2358. | 1.0 | 46 |
| 1591 | Carbonic anhydrase inhibitors. Zonisamide is an effective inhibitor of the cytosolic isozyme II and mitochondrial isozyme V: solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2315-2320. | 1.0 | 176 |
| 1592 | Carbonic anhydrase inhibitors. Inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with Schiffâ€™s bases incorporating chromone and aromatic sulfonamide moieties, and their zinc complexes. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3096-3101. | 1.0 | 115 |
| 1593 | Carbonic anhydrase inhibitors. Synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with boron-containing sulfonamides, sulfamides, and sulfamates: Toward agents for boron neutron capture therapy of hypoxic tumors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3302-3306. | 1.0 | 52 |
| 1594 | Carbonic anhydrase inhibitors: Inhibition of the tumor-associated isozymes IX and XII with a library of aromatic and heteroaromatic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4862-4866. | 1.0 | 26 |
| 1595 | Carbonic anhydrase activators: X-ray crystal structure of the adduct of human isozyme II with l-histidine as a platform for the design of stronger activators. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5136-5141. | 1.0 | 99 |
| 1596 | QSAR study on carbonic anhydrase inhibitors: water-soluble sulfonamides incorporating Î²-alanyl moieties, possessing long lasting-intra ocular pressure lowering propertiesâ€"a molecular connectivity approach. European Journal of Medicinal Chemistry, 2005, 40, 1002-1012. | 2.6 | 18 |
| 1597 | Carbonic anhydrase inhibitors. Inhibition of red blood cell ostrich (Struthio camelus) carbonic anhydrase with a series of aromatic and heterocyclic sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 383-387. | 2.5 | 8 |
| 1598 | Sulfamates and their therapeutic potential. Medicinal Research Reviews, 2005, 25, 186-228. | 5.0 | 191 |
| 1599 | Carbonic anhydrase inhibitors. Novel sulfanilamide/acetazolamide derivatives obtained by the tail approach and their interaction with the cytosolic isozymes I and II, and the tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 367-372. | 1.0 | 56 |
| 1600 | Carbonic anhydrase inhibitors. Inhibition of the transmembrane isozyme XII with sulfonamidesâ€"a new target for the design of antitumor and antiglaucoma drugs?. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 963-969. | 1.0 | 212 |
| 1601 | Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating thioureido-sulfanilyl scaffolds. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2359-2364. | 1.0 | 25 |
| 1602 | Carbonic anhydrase inhibitors. Inhibition of the cytosolic and tumor-associated carbonic anhydrase isozymes I, II, and IX with a series of 1,3,4-thiadiazole- and 1,2,4-triazole-thiols. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2347-2352. | 1.0 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1603 | Carbonic anhydrase inhibitors: Novel sulfonamides incorporating 1,3,5-triazine moieties as inhibitors of the cytosolic and tumour-associated carbonic anhydrase isozymes I, II and IX. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3102-3108. | 1.0 | 137 |
| 1604 | Carbonic anhydrase inhibitors: Inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with benzo[b]thiophene 1,1-dioxide sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4872-4876. | 1.0 | 34 |
| 1605 | Carbonic anhydrase inhibitors: Design of thioureido sulfonamides with potent isozyme II and XII inhibitory properties and intraocular pressure lowering activity in a rabbit model of glaucoma. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3821-3827. | 1.0 | 28 |
| 1606 | Carbonic anhydrase inhibitors: Inhibition of the transmembrane isozyme XIV with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3828-3833. | 1.0 | 138 |
| 1607 | Carbonic anhydrase inhibitors: Inhibition of the human isozymes I, II, VA, and IX with a library of substituted difluoromethanesulfonamides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5192-5196. | 1.0 | 24 |
| 1608 | Highly Active Antiretroviral Therapy: Current State of the Art, New Agents and Their Pharmacological Interactions Useful for Improving Therapeutic Outcome. Current Pharmaceutical Design, 2005, 11, 1805-1843. | 0.9 | 222 |
| 1609 | Effects of low molecular weight plasma inhibitors of rainbow trout (Oncorhynchus mykiss) on human erythrocyte carbonic anhydrase-II isozyme activity in vitro and rat erythrocytes in vivo. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 35-39. | 2.5 | 103 |
| 1610 | Carbonic anhydrase inhibitors: Inhibition of the tumor-associated isozymes IX and XII with polyfluorinated aromatic/heterocyclic sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 211-217. | 2.5 | 20 |
| 1611 | Carbonic Anhydrase Inhibitors. Design of Fluorescent Sulfonamides as Probes of Tumor-Associated Carbonic Anhydrase IX That Inhibit Isozyme IX-Mediated Acidification of Hypoxic Tumorsâ€. Journal of Medicinal Chemistry, 2005, 48, 4834-4841. | 2.9 | 205 |
| 1612 | Carbonic Anhydrase Inhibitors:Â Stacking with Phe131 Determines Active Site Binding Region of Inhibitors As Exemplified by the X-ray Crystal Structure of a Membrane-Impermeant Antitumor Sulfonamide Complexed with Isozyme II. Journal of Medicinal Chemistry, 2005, 48, 5721-5727. | 2.9 | 157 |
| 1613 | In-vitro antibacterial, antifungal and cytotoxic activities of some coumarins and their metal complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 333-340. | 2.5 | 126 |
| 1614 | Carbonic Anhydrase Inhibitors. The Mitochondrial Isozyme VB as a New Target for Sulfonamide and Sulfamate Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 7860-7866. | 2.9 | 179 |
| 1615 | In-vitro antibacterial, antifungal and cytotoxic properties of sulfonamideâ€”derived Schiff's bases and their metal complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 183-188. | 2.5 | 133 |
| 1616 | Organometallic-based antibacterial and antifungal compounds: transition metal complexes of 1,1â€²-diacetylferrocene-derived thiocarbohydrazone, carbohydrazone, thiosemicarbazone and semicarbazone. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 81-89. | 2.5 | 61 |
| 1617 | Carbonic Anhydrase Inhibitors:Â Synthesis and Inhibition of Cytosolic/Membrane-Associated Carbonic Anhydrase Isozymes I, II, and IX with Sulfonamides Incorporating Hydrazino Moieties. Journal of Medicinal Chemistry, 2005, 48, 2121-2125. | 2.9 | 70 |
| 1618 | Metal binding and antibacterial activity of ciprofloxacin complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 303-307. | 2.5 | 147 |
| 1619 | Adverse Cardiovascular Effects of the Coxibs. Journal of Medicinal Chemistry, 2005, 48, 2251-2257. | 2.9 | 304 |
| 1620 | Characterization of CA XIII, a Novel Member of the Carbonic Anhydrase Isozyme Family. Journal of Biological Chemistry, 2004, 279, 2719-2727. | 1.6 | 210 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1621 | COX-2 Selective Inhibitors, Carbonic Anhydrase Inhibition and Anticancer Properties of Sulfonamides Belonging to This Class of Pharmacological Agents. Mini-Reviews in Medicinal Chemistry, 2004, 4, 625-632. | 1.1 | 130 |
| 1622 | Protein tyrosine kinase inhibitors as anticancer agents. Expert Opinion on Therapeutic Patents, 2004, 14, 35-53. | 2.4 | 33 |
| 1623 | Designing of Novel Carbonic Anhydrase Inhibitors and Activators. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2004, 2, 49-68. | 1.7 | 138 |
| 1624 | QSAR study using topological indices for inhibition of carbonic anhydrase II by sulfanilamides and Schiff bases. Molecular Diversity, 2004, 8, 401-412. | 2.1 | 26 |
| 1625 | Carbonic Anhydrase Inhibitors: Schiff's Bases of Aromatic and Heterocyclic Sulfonamides and their Metal Complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 263-267. | 2.5 | 59 |
| 1626 | Review Article. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 199-229. | 2.5 | 595 |
| 1627 | Carbonic anhydrase inhibitors: E7070, a sulfonamide anticancer agent, potently inhibits cytosolic isozymes I and II, and transmembrane, tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 217-223. | 1.0 | 251 |
| 1628 | Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with EMATE, a dual inhibitor of carbonic anhydrases and steroid sulfatase. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 231-234. | 1.0 | 147 |
| 1629 | Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with fluorine-containing sulfonamides. The first subnanomolar CA IX inhibitor discovered. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 2351-2356. | 1.0 | 49 |
| 1630 | Carbonic anhydrase inhibitors. Inhibition of the newly isolated murine isozyme XIII with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5435-5439. | 1.0 | 43 |
| 1631 | Topological modeling of lipophilicity, diuretic activity, and carbonic inhibition activity of benzene sulfonamides: a molecular connectivity approach. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5661-5666. | 1.0 | 30 |
| 1632 | Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides derived from 4-isothiocyanato-benzolamide. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5775-5780. | 1.0 | 46 |
| 1633 | Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with phosphates, carbamoyl phosphate, and the phosphonate antiviral drug foscarnet. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5763-5767. | 1.0 | 24 |
| 1634 | Carbonic anhydrase inhibitors. Inhibition of the prokariotic beta and gamma-class enzymes from Archaea with sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 6001-6006. | 1.0 | 83 |
| 1635 | QSAR study on CA inhibitory activity of disulfonamides: effect of halogen substitution. Bioorganic and Medicinal Chemistry, 2004, 12, 2477-2482. | 1.4 | 10 |
| 1636 | Carbonic anhydrase inhibitors: aromatic and heterocyclic sulfonamides incorporating adamantyl moieties with strong anticonvulsant activity. Bioorganic and Medicinal Chemistry, 2004, 12, 2717-2726. | 1.4 | 90 |
| 1637 | Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating 1,2,4-triazine moieties. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5427-5433. | 1.0 | 98 |
| 1638 | QSAR study on carbonic anhydrase inhibitors: aromatic/heterocyclic sulfonamides containing 8-quinoline-sulfonyl moieties, with topical activity as antiglaucoma agents. European Journal of Medicinal Chemistry, 2004, 39, 593-600. | 2.6 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1639 | Carbonic anhydrase inhibitors: N-(p-sulfamoylphenyl)-Î±-d-glycopyranosylamines as topically acting antiglaucoma agents in hypertensive rabbits. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 225-229. | 1.0 | 68 |
| 1640 | Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with the antipsychotic drug sulpiride. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 337-341. | 1.0 | 69 |
| 1641 | Carbonic anhydrase inhibitors: The first selective, membrane-impermeant inhibitors targeting the tumor-associated isozyme IX. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 869-873. | 1.0 | 150 |
| 1642 | Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a topically acting antiglaucoma sulfonamide. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 2357-2361. | 1.0 | 49 |
| 1643 | Carbonic anhydrase inhibitors: the first QSAR study on inhibition of tumor-associated isoenzyme IX with aromatic and heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3283-3290. | 1.0 | 78 |
| 1644 | Carbonic anhydrase inhibitors. Inhibition of the zinc and cobalt Î³-class enzyme from the archaeon Methanosarcina thermophila with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3327-3331. | 1.0 | 28 |
| 1645 | Carbonic anhydrase inhibitors. Inhibition of cytosolic isozyme XIII with aromatic and heterocyclic sulfonamides: a novel target for the drug design. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3757-3762. | 1.0 | 38 |
| 1646 | Carbonic anhydrase inhibitors. Inhibition of the beta-class enzyme from the methanoarchaeon Methanobacterium thermoautotrophicum (Cab) with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 4563-4567. | 1.0 | 49 |
| 1647 | Carbonic anhydrase inhibitors: inhibition of human cytosolic isozyme II and mitochondrial isozyme V with a series of benzene sulfonamide derivatives. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5703-5707. | 1.0 | 16 |
| 1648 | Carbonic anhydrase inhibitors. Design of anticonvulsant sulfonamides incorporating indane moieties. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5781-5786. | 1.0 | 29 |
| 1649 | Carbonic anhydrase inhibitors: inhibition of the membrane-bound human isozyme IV with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5769-5773. | 1.0 | 26 |
| 1650 | Benzolamide is not a Membrane-impermeant Carbonic Anhydrase Inhibitor. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 269-273. | 2.5 | 36 |
| 1651 | Carbonic Anhydrase Inhibitors: Aliphatic N-phosphorylated Sulfamates--A Novel Zinc-anchoring Group Leading to Nanomolar Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 275-278. | 2.5 | 11 |
| 1652 | Therapeutic applications of sulfamates. Expert Opinion on Therapeutic Patents, 2004, 14, 1273-1308. | 2.4 | 31 |
| 1653 | Redox State and Carbonic Anhydrase Isozyme IX Expression in Human Renal Cell Carcinoma: Biochemical and Morphological Investigations. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 287-291. | 2.5 | 8 |
| 1654 | Carbonic Anhydrase Inhibitors. Design of Selective, Membrane-Impermeant Inhibitors Targeting the Human Tumor-Associated Isozyme IX. Journal of Medicinal Chemistry, 2004, 47, 2337-2347. | 2.9 | 149 |
| 1655 | Synthesis of Coumarin Derivatives with Cytotoxic, Antibacterial and Antifungal Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 373-379. | 2.5 | 75 |
| 1656 | Carbonic anhydrase inhibitors. Inhibition of the zinc and cobalt $gamma;-class enzyme from the archaeon Methanosarcina thermophila with anions. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3327-3331. | 1.0 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1657 | Unexpected Nanomolar Inhibition of Carbonic Anhydrase by COX-2-Selective Celecoxib:Â New Pharmacological Opportunities Due to Related Binding Site Recognition. Journal of Medicinal Chemistry, 2004, 47, 550-557. | 2.9 | 426 |
| 1658 | Carbonic Anhydrase Inhibitors:â€‰ Synthesis and Topical Intraocular Pressure Lowering Effects of Fluorine-Containing Inhibitors Devoid of Enhanced Reactivity. Journal of Medicinal Chemistry, 2004, 47, 2796-2804. | 2.9 | 38 |
| 1659 | Carbonic Anhydrase Inhibitors. Inhibition of Mitochondrial Isozyme V with Aromatic and Heterocyclic Sulfonamides. Journal of Medicinal Chemistry, 2004, 47, 1272-1279. | 2.9 | 143 |
| 1660 | Modulation of carbonic anhydrase activity and its applications in therapy. Expert Opinion on Therapeutic Patents, 2004, 14, 667-702. | 2.4 | 159 |
| 1661 | Carbonic anhydrase inhibitors that directly inhibit anion transport by the human Clâ¯/HCO3â¯exchanger, AE1. Molecular Membrane Biology, 2004, 21, 423-433. | 2.0 | 28 |
| 1662 | Carbonic Anhydrase Inhibitors:Â The First On-Resin Screening of a 4-Sulfamoylphenylthiourea Library. Journal of Medicinal Chemistry, 2004, 47, 5224-5229. | 2.9 | 48 |
| 1663 | Hypoxia activates the capacity of tumor-associated carbonic anhydrase IX to acidify extracellular pH. FEBS Letters, 2004, 577, 439-445. | 1.3 | 620 |
| 1664 | Carbonic Anhydrase Inhibitors in Dermatology. , 2004, , 303-315. | | 12 |
| 1665 | Carbonic Anhydrase Activators. , 2004, , 317-352. | | 13 |
| 1666 | Designing of Novel Carbonic Anhydrase Inhibitors and Activators. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2004, 2, 51-70. | 1.7 | 2 |
| 1667 | Designing of novel carbonic anhydrase inhibitors and activators. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2004, 2, 49-68. | 1.7 | 27 |
| 1668 | Carbonic anhydrase inhibitors. Medicinal Research Reviews, 2003, 23, 146-189. | 5.0 | 1,126 |
| 1669 | Protease inhibitors of the sulfonamide type: Anticancer, antiinflammatory, and antiviral agents. Medicinal Research Reviews, 2003, 23, 535-558. | 5.0 | 385 |
| 1670 | Carbonic Anhydrase Inhibitors. ChemInform, 2003, 34, no. | 0.1 | 0 |
| 1671 | Protease Inhibitors of the Sulfonamide Type: Anticancer, Antiinflammatory, and Antiviral Agents. ChemInform, 2003, 34, no. | 0.1 | 0 |
| 1672 | Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 837-840. | 1.0 | 81 |
| 1673 | Carbonic anhydrase inhibitors: SAR and X-ray crystallographic study for the interaction of sugar sulfamates/sulfamides with isozymes I, II and IV. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 841-845. | 1.0 | 221 |
| 1674 | Carbonic anhydrase activators. The selective serotonin reuptake inhibitors fluoxetine, sertraline and citalopram are strong activators of isozymes I and II. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2765-2768. | 1.0 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1675 | Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a bis-sulfonamideâ€"two heads are better than one?. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2759-2763. | 1.0 | 36 |
| 1676 | Carbonic anhydrase inhibitors: Topically acting antiglaucoma sulfonamides incorporating esters and amides of 3- and 4-carboxybenzolamide. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2867-2873. | 1.0 | 31 |
| 1677 | Carbonic anhydrase inhibitors: Inhibition of human and murine mitochondrial isozymes V with anions. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2857-2861. | 1.0 | 44 |
| 1678 | Hydroxyurea is a carbonic anhydrase inhibitor. Bioorganic and Medicinal Chemistry, 2003, 11, 2241-2246. | 1.4 | 38 |
| 1679 | Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with aromatic and heterocyclic sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1005-1009. | 1.0 | 189 |
| 1680 | Carbonic Anhydrase Inhibitors. Inhibition of Tumor-Associated Isozyme IX by Halogenosulfanilamide and Halogenophenylaminobenzolamide Derivativesâ€. Journal of Medicinal Chemistry, 2003, 46, 2187-2196. | 2.9 | 141 |
| 1681 | Zinc Complexes of Benzothiazole-derived Schiff Bases with Antibacterial Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 259-263. | 2.5 | 146 |
| 1682 | Carbonic Anhydrase Inhibitors:â€‰ Inhibition of Transmembrane, Tumor-Associated Isozyme IX, and Cytosolic Isozymes I and II with Aliphatic Sulfamates. Journal of Medicinal Chemistry, 2003, 46, 5471-5477. | 2.9 | 79 |
| 1683 | Carbonic Anhydrase Inhibitors. Inhibition of Cytosolic Isozymes I and II and Transmembrane, Tumor-Associated Isozyme IX with Sulfamates Including EMATE Also Acting as Steroid Sulfatase Inhibitors. Journal of Medicinal Chemistry, 2003, 46, 2197-2204. | 2.9 | 138 |
| 1684 | Indisulam: an anticancer sulfonamide in clinical development. Expert Opinion on Investigational Drugs, 2003, 12, 283-287. | 1.9 | 166 |
| 1685 | Carbonic Anhydrase Inhibitors. Inhibition of Cytosolic Isozymes I and II and Transmembrane, Cancer-associated Isozyme IX with Anions. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 403-406. | 2.5 | 53 |
| 1686 | Carbonic anhydrase inhibitors in the treatment and prophylaxis of obesity. Expert Opinion on Therapeutic Patents, 2003, 13, 1545-1550. | 2.4 | 139 |
| 1687 | Carbonic Anhydrase Inhibitors. Inhibition of Cytosolic Isozymes I and II and Transmembrane, Cancer-associated Isozyme IX with Lipophilic Sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 333-338. | 2.5 | 23 |
| 1688 | Carbonic Anhydrase Inhibitors: X-ray Crystallographic Structure of the Adduct of Human Isozyme II with the Perfluorobenzoyl Analogue of Methazolamide. Implications for the Drug Design of Fluorinated Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2003, 18, 303-308. | 2.5 | 49 |
| 1689 | Anticancer and Antiviral Sulfonamides. Current Medicinal Chemistry, 2003, 10, 925-953. | 1.2 | 646 |
| 1690 | Sulfonamide derivatives with protease inhibitory action as anticancer, anti-inflammatory and antiviral agents. Expert Opinion on Therapeutic Patents, 2002, 12, 1307-1327. | 2.4 | 53 |
| 1691 | Sulfonamides and Sulfonylated Derivatives as Anticancer Agents. Current Cancer Drug Targets, 2002, 2, 55-75. | 0.8 | 243 |
| 1692 | Crystal Structure of a Zinc-Activated Variant of Human Carbonic Anhydrase I, CA I Michigan 1:Â Evidence for a Second Zinc Binding Site Involving Arginine Coordination. Biochemistry, 2002, 41, 6237-6244. | 1.2 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1693 | Nonaromatic Sulfonamide Group as an Ideal Anchor for Potent Human Carbonic Anhydrase Inhibitors:â€‰Role of Hydrogen-Bonding Networks in Ligand Binding and Drug Design. Journal of Medicinal Chemistry, 2002, 45, 3583-3587. | 2.9 | 154 |
| 1694 | Unsymmetrical 1,1â€²-disubstituted Ferrocenes: Synthesis of Co(ii), Cu(ii), Ni(ii) and Zn(ii) Chelates of Ferrocenyl -1-thiadiazolo-1â€²-tetrazole, -1-thiadiazolo-1â€²-triazole and -1-tetrazolo-1â€²-triazole with Antimicrobial Properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 261-266. | 2.5 | 124 |
| 1695 | Carbonic Anhydrase Inhibitors With Strong Topical Antiglaucoma Properties Incorporating a 4-(2-amino-pyrimidin-4-yl-amino)-benzenesulfonamide Scaffold. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 9-18. | 2.5 | 14 |
| 1696 | Carbonic Anhydrase Inhibitors: Synthesis of Water Soluble Sulfonamides Incorporating a 4-sulfamoylphenylmethylthiourea Scaffold, with Potent Intraocular Pressure Lowering Properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 333-343. | 2.5 | 33 |
| 1697 | Applications of carbonic anhydrase inhibitors and activators in therapy. Expert Opinion on Therapeutic Patents, 2002, 12, 217-242. | 2.4 | 243 |
| 1698 | Carbonic Anhydrase Activators:â€‰Design of High Affinity Isozymes I, II, and IV Activators, Incorporating Tri-/Tetrasubstituted-pyridinium-azole Moieties. Journal of Medicinal Chemistry, 2002, 45, 504-510. | 2.9 | 74 |
| 1699 | Carbonic Anhydrase Activators:â€‰High Affinity Isozymes I, II, and IV Activators, Incorporating a Î²-Alanyl-histidine Scaffold. Journal of Medicinal Chemistry, 2002, 45, 284-291. | 2.9 | 63 |
| 1700 | Carbonic Anhydrase Inhibitors. A General Approach for the Preparation of Water-Soluble Sulfonamides Incorporating Polyaminoâ˜'Polycarboxylate Tails and of Their Metal Complexes Possessing Long-Lasting, Topical Intraocular Pressure-Lowering Properties. Journal of Medicinal Chemistry, 2002, 45, 1466-1476. | 2.9 | 138 |
| 1701 | The functional and physical relationship between the DRA bicarbonate transporter and carbonic anhydrase II. American Journal of Physiology - Cell Physiology, 2002, 283, C1522-C1529. | 2.1 | 85 |
| 1702 | Cyclodextrin Complexes of Sulfonamide Carbonic Anhydrase IOnhibitors As Longâ€‹lasting Topically Acting Antiglaucoma Agents. Journal of Pharmaceutical Sciences, 2002, 91, 2211-2219. | 1.6 | 16 |
| 1703 | Bacterial protease inhibitors. Medicinal Research Reviews, 2002, 22, 329-372. | 5.0 | 147 |
| 1704 | Carbonic anhydrase activators: Human isozyme II is strongly activated by oligopeptides incorporating the carboxyterminal sequence of the bicarbonate anion exchanger AE1. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1177-1180. | 1.0 | 68 |
| 1705 | Carbonic anhydrase inhibitors. Preparation of potent sulfonamides inhibitors incorporating bile acid tails. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1551-1557. | 1.0 | 25 |
| 1706 | Crystal analysis of aromatic sulfonamide binding to native and (Zn)2 adduct of human carbonic anhydrase I Michigan 1. Inorganica Chimica Acta, 2002, 339, 135-144. | 1.2 | 10 |
| 1707 | Carbonic Anhydrase Inhibitors:â€‰Anticonvulsant Sulfonamides Incorporating Valproyl and Other Lipophilic Moieties. Journal of Medicinal Chemistry, 2002, 45, 312-320. | 2.9 | 141 |
| 1708 | Protease inhibitors: Synthesis of matrix metalloproteinase and bacterial collagenase inhibitors incorporating 5-amino-2-mercapto-1,3,4-thiadiazole zinc binding functions. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 2667-2672. | 1.0 | 31 |
| 1709 | Carbonic Anhydrase Inhibitors: Synthesis and Inhibition Against Isozymes I, II and IV of Topically Acting Antiglaucoma Sulfonamides Incorporatingcis-5-Norbornene-endo-3-Carboxy-2-Carboxamido Moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 113-123. | 0.5 | 8 |
| 1710 | Bacterial proteases: current therapeutic use and future prospects for the development of new antibiotics. Expert Opinion on Therapeutic Patents, 2001, 11, 221-259. | 2.4 | 107 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1711 | Antimycobacterial Activity of 3,4-dichlorophenyl-ureas, N,N-diphenyl-ureas and Related Derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 425-432. | 0.5 | 16 |
| 1712 | Transition Metal Ion Complexes of Schiff-bases. Synthesis, Characterization and Antibacterial Properties. Metal-Based Drugs, 2001, 8, 137-143. | 3.8 | 93 |
| 1713 | Carbonic Anhydrase Activity Modulators: Synthesis of Inhibitors and Activators Incorporating 2-substituted-thiazol-4-yl-methyl Scaffolds. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 351-358. | 0.5 | 4 |
| 1714 | Carbonic anhydrase inhibitors: synthesis of sulfonamides incorporating dtpa tails and of their zinc complexes with powerful topical antiglaucoma properties. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 575-582. | 1.0 | 112 |
| 1715 | Antimycobacterial activity of 9-sulfonylated/sulfenylated-6-mercaptopurine derivatives. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1675-1678. | 1.0 | 54 |
| 1716 | Carbonic anhydrase inhibitors: 4-sulfamoyl-benzenecarboxamides and 4-chloro-3-sulfamoyl-benzenecarboxamides with strong topical antiglaucoma properties. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1787-1791. | 1.0 | 59 |
| 1717 | Carbonic anhydrase inhibitors: Sulfonamides as antitumor agents?. Bioorganic and Medicinal Chemistry, 2001, 9, 703-714. | 1.4 | 252 |
| 1718 | Protease Inhibitors:Â Synthesis of a Series of Bacterial Collagenase Inhibitors of the Sulfonyl Amino Acyl Hydroxamate Type. Journal of Medicinal Chemistry, 2001, 44, 2253-2258. | 2.9 | 36 |
| 1719 | Carbonic Anhydrase Inhibitors: Allylsulfonamide, Styrene Sulfonamide, N -allyl Sulfonamides and Some of Their Si, Ge, and B Derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 475-489. | 0.5 | 12 |
| 1720 | Carbonic Anhydrase Inhibitors: Metal Complexes of a Sulfanilamide Derived Schiff base and their Interaction with Isozymes I, II and IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 499-505. | 0.5 | 20 |
| 1721 | Agents that target cysteine residues of biomolecules and their therapeutic potential. Expert Opinion on Therapeutic Patents, 2001, 11, 765-787. | 2.4 | 27 |
| 1722 | Carbonic Anhydrase Inhibitors. Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents, 2001, 1, 61-97. | 0.2 | 195 |
| 1723 | Carbonic Anhydrase Inhibitors, Interaction of Boron Derivatives with Isozymes I and II: A New Binding Site for Hydrophobic Inhibitors at the Entrance of the Active Site as shown by Docking Studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 125-133. | 0.5 | 13 |
| 1724 | Arylsulfonyl-N,N-dialkyl-dithiocarbamates as Tumor Cell Growth Inhibitors: Novel Agents Targeting Î²-Tubulin?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 55-63. | 0.5 | 11 |
| 1725 | THE ROLES OF CARBONIC ANHYDRASE ISOZYMES IN CANCER. , 2001, , 157-169. | | 8 |
| 1726 | Carbonic Anhydrase Activators: Synthesis of High Affinity Isozymes I, II and IV Activators, Derivatives of 4-(Arylsulfonylureido-Amino Acyl)Ethyl-1H-Imidazole. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 471-486. | 0.5 | 15 |
| 1727 | Protease inhibitors: synthesis of Clostridium histolyticum collagenase inhibitors incorporating sulfonyl-l-alanine hydroxamate moieties. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 499-502. | 1.0 | 29 |
| 1728 | Carbonic anhydrase inhibitors: topical sulfonamide antiglaucoma agents incorporating secondary amine moieties. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 673-676. | 1.0 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1729 | Carbonic anhydrase inhibitors: synthesis of N -morpholyl-thiocarbonylsulfenylamino aromatic/heterocyclic sulfonamides and their interaction with isozymes I, II and IV. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1117-1120. | 1.0 | 36 |
| 1730 | Arylsulfonyl-N,N-diethyl-dithiocarbamates: a novel class of antitumor agents. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1887-1891. | 1.0 | 76 |
| 1731 | Carbonic anhydrase inhibitors: sulfonamides incorporating furan-, thiophene- and pyrrole-carboxamido groups possess strong topical intraocular pressure lowering properties as aqueous suspensions. Bioorganic and Medicinal Chemistry, 2000, 8, 2145-2155. | 1.4 | 67 |
| 1732 | Carbonic anhydrase activators â€“ Part 21. Novel activators of isozymes I, II and IV incorporating carboxamido and ureido histamine moieties. European Journal of Medicinal Chemistry, 2000, 35, 31-39. | 2.6 | 32 |
| 1733 | 4-Toluenesulfonylureido derivatives of amines, amino acids and dipeptides: a novel class of potential antitumor agents. European Journal of Pharmaceutical Sciences, 2000, 11, 325-332. | 1.9 | 30 |
| 1734 | Carbonic anhydrase activators. European Journal of Pharmaceutical Sciences, 2000, 10, 29-41. | 1.9 | 34 |
| 1735 | Protease inhibitors. Part 7. European Journal of Pharmaceutical Sciences, 2000, 10, 67-76. | 1.9 | 27 |
| 1736 | Mechanism of Cyanamide Hydration Catalyzed by Carbonic Anhydrase II Suggested by Cryogenic X-ray Diffraction. Biochemistry, 2000, 39, 12391-12397. | 1.2 | 44 |
| 1737 | Carbonic Anhydrase Inhibitors. Part 91. Metal Complexes of Heterocyclic Sulfonamides as Potential Pharmacological Agents in the Treatment of Gastric Acid Secretion Imbalances. Metal-Based Drugs, 2000, 7, 57-62. | 3.8 | 17 |
| 1738 | Antifungal Activity of Ag(I) and Zn(II) Complexes of Sulfacetamide Derivatives. Metal-Based Drugs, 2000, 7, 49-54. | 3.8 | 25 |
| 1739 | Antifungal Activity of Ag(I) and Zn(Ii) Complexes of Aminobenzolamide (5-Sulfanilylamido-1,3,4-Thiadiazole-2-Sulfonamide) Derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 517-531. | 0.5 | 28 |
| 1740 | Carbonic Anhydrase Inhibitors: Synthesis of Schiff Bases of Hydroxybenzaldehydes with Aromatic Sulfonamides and Their Reactions with Arylsulfonyl Isocyanates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 533-546. | 0.5 | 25 |
| 1741 | Activation of carbonic anhydrase isozymes. , 2000, , 197-219. | | 28 |
| 1742 | Protease Inhibitors:Â Synthesis of Potent Bacterial Collagenase and Matrix Metalloproteinase Inhibitors IncorporatingN-4-Nitrobenzylsulfonylglycine Hydroxamate Moieties. Journal of Medicinal Chemistry, 2000, 43, 1858-1865. | 2.9 | 66 |
| 1743 | Carbonic Anhydrase Inhibitors: Aromatic Sulfonamides and Disulfonamides Act as Efficient Tumor Growth Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 597-610. | 0.5 | 64 |
| 1744 | Carbonic Anhydrase and Matrix Metalloproteinase Inhibitors:â€‰ Sulfonylated Amino Acid Hydroxamates with MMP Inhibitory Properties Act as Efficient Inhibitors of CA Isozymes I, II, and IV, and N-Hydroxysulfonamides Inhibit Both These Zinc Enzymes. Journal of Medicinal Chemistry, 2000, 43, 3677-3687. | 2.9 | 224 |
| 1745 | Carbonic Anhydrase Inhibitors; Phosphoryl-Sulfonamides-A New Class of High Affinity Inhibitors of Isozymes I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 297-309. | 0.5 | 9 |
| 1746 | Carbonic Anhydrase Activators: Synthesis of High Affinity Isozymes I, II and IV Activators, Derivatives of 4-(4-Tosylureido-Amino Acyl)Ethyl-1H-Imidazole (Histamine Derivatives). Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 139-161. | 0.5 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1747 | Carbonic Anhydrase Inhibitors: Synthesis of Sulfonamides Incorporating 2, 4, 6â€“Trisubstituted-Pyridinium-Ethylcarboxamido Moieties Possessing Membrane-Impermeability and in Vivo Selectivity for the Membrane-Bound (CA IV) Versus the Cytosolic (CA I and CA II) Isozymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 381-401. | 0.5 | 47 |
| 1748 | Carbonic Anhydrase Inhibitors: Inhibition of Isozymes I, II and IV by Sulfamide and Sulfamic Acid Derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 443-453. | 0.5 | 32 |
| 1749 | Carbonic Anhydrase Inhibitors. Metal Complexes of 5-(2-Chlorophenyl)-1, 3, 4-Thiadiazole-2-Sulfonamide with Topical Intraocular Pressure Lowering Properties: The Influence of Metal Ions Upon the Pharmacological Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 185-200. | 0.5 | 16 |
| 1750 | Carbonic anhydrase inhibitors and their therapeutic potential. Expert Opinion on Therapeutic Patents, 2000, 10, 575-600. | 2.4 | 485 |
| 1751 | Carbonic Anhydrase Inhibitors:Â Synthesis of Membrane-Impermeant Low Molecular Weight Sulfonamides Possessing in Vivo Selectivity for the Membrane-Bound versus Cytosolic Isozymes1. Journal of Medicinal Chemistry, 2000, 43, 292-300. | 2.9 | 147 |
| 1752 | Carbonic Anhydrase Inhibitors:Â Water-Soluble 4-Sulfamoylphenylthioureas as Topical Intraocular Pressure-Lowering Agents with Long-Lasting Effects. Journal of Medicinal Chemistry, 2000, 43, 4884-4892. | 2.9 | 143 |
| 1753 | Carbonic Anhydrase Inhibitors:â€‰ Perfluoroalkyl/Aryl-Substituted Derivatives of Aromatic/Heterocyclic Sulfonamides as Topical Intraocular Pressure-Lowering Agents with Prolonged Duration of Action. Journal of Medicinal Chemistry, 2000, 43, 4542-4551. | 2.9 | 139 |
| 1754 | Carbonic Anhydrase Inhibitors Part 721 Synthesis and Antiglaucoma Properties of Metal Complexes of p-Fluorobenzolamide. Metal-Based Drugs, 1999, 6, 67-73. | 3.8 | 10 |
| 1755 | Carbonic Anhydrase Inhibitors. Synthesis of Topically Effective Intraocular Pressure Lowering Agents Derived from 5-(Ï‰-Amino-Alkylcarboxamido)-1,3,4-Thia-Diazole-2-Sulfonamide. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 15, 23-46. | 0.5 | 38 |
| 1756 | Novel carbonic anhydrase isozymes I, II and IV activators incorporating sulfonyl-histamino moieties. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 2043-2048. | 1.0 | 35 |
| 1757 | Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 1999, 7, 2397-2406. | 1.4 | 808 |
| 1758 | Carbonic anhydrase activators: amino acyl/dipeptidyl histamine derivatives bind with high affinity to isozymes I, II and IV and act as efficient activators. Bioorganic and Medicinal Chemistry, 1999, 7, 2915-2923. | 1.4 | 28 |
| 1759 | Carbonic anhydrase inhibitors â€“ part 70. Synthesis and ocular pharmacology of a new class of water-soluble, topically effective intraocular pressure lowering agents derived from nicotinic acid and aromatic/heterocyclic sulfonamides. European Journal of Medicinal Chemistry, 1999, 34, 799-808. | 2.6 | 14 |
| 1760 | Carbonic anhydrase inhibitors. Part 60##See ref.Â[1]. The topical intraocular pressure-lowering properties of metal complexes of a heterocyclic sulfonamide: influence of the metal ion upon biological activity. European Journal of Medicinal Chemistry, 1999, 34, 585-595. | 2.6 | 13 |
| 1761 | Carbonic anhydrase inhibitors â€“ Part 57: Quantum chemical QSAR of a group of 1,3,4-thiadiazole- and 1,3,4-thiadiazoline disulfonamides with carbonic anhydrase inhibitory properties. European Journal of Medicinal Chemistry, 1999, 34, 41-50. | 2.6 | 122 |
| 1762 | Carbonic anhydrase inhibitors. Part 61. Quantum chemical QSAR of a group of benzenedisulfonamides. European Journal of Medicinal Chemistry, 1999, 34, 463-474. | 2.6 | 79 |
| 1763 | Carbonic Anhydrase Inhibitors. Synthesis of Water-Soluble, Topically Effective, Intraocular Pressure-Lowering Aromatic/Heterocyclic Sulfonamides Containing Cationic or Anionic Moieties:â€‰ Is the Tail More Important than the Ring?. Journal of Medicinal Chemistry, 1999, 42, 2641-2650. | 2.9 | 278 |
| 1764 | Carbonic anhydrase catalyzes cyanamide hydration to urea: is it mimicking the physiological reaction?. Journal of Biological Inorganic Chemistry, 1999, 4, 528-536. | 1.1 | 57 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1765 | Carbonic anhydrase inhibitors. Part 71. European Journal of Pharmaceutical Sciences, 1999, 8, 317-328. | 1.9 | 53 |
| 1766 | Carbonic anhydrase inhibitors. Part 79. European Journal of Pharmaceutical Sciences, 1999, 9, 185-199. | 1.9 | 15 |
| 1767 | Carbonic Anhydrase Inhibitors:Â Synthesis of Water-Soluble, Aminoacyl/Dipeptidyl Sulfonamides Possessing Long-Lasting Intraocular Pressure-Lowering Properties via the Topical Route1. Journal of Medicinal Chemistry, 1999, 42, 3690-3700. | 2.9 | 153 |
| 1768 | Carbonic Anhydrase Inhibitors. Water-Soluble, Topically Effective Intraocular Pressure Lowering Agents Derived from Isonicotinic Acid and Aromatic/Heterocyclic Sulfonamides: Is the Tail More Important than the Ring?. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 14, 457-474. | 0.5 | 31 |
| 1769 | Carbonic Anhydrase Inhibitors. Arylsulfonylureido-and Arylureido-Substituted Aromatic and Heterocyclic Sulfonamides: Towards Selective Inhibitors of Carbonic Anhydrase Isozyme I. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 14, 343-363. | 0.5 | 51 |
| 1770 | Carbonic Anhydrase Inhibitors. Schiff Bases of some Aromatic Sulfonamides and Their Metal Complexes: Towards More Selective Inhibitors of Carbonic Anhydrase Isozyme IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 14, 407-423. | 0.5 | 32 |
| 1771 | Carbonic Anhydrase Inhibitors:N-Cyanosulfonamides, a new Class of High Affinity Isozyme II and IV Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 14, 289-306. | 0.5 | 17 |
| 1772 | Carbonic anhydrase inhibitors - Part 49: Synthesis of substituted ureido and thioureido derivatives of aromatic/heterocyclic sulfonamides with increased affinities for isozyme I. European Journal of Medicinal Chemistry, 1998, 33, 83-93. | 2.6 | 152 |
| 1773 | Carbonic anhydrase inhibitors â€" Part 53. Synthesis of substituted-pyridinium derivatives of aromatic sulfonamides: The first non-polymeric membrane-impermeable inhibitors with selectivity for isozyme IV. European Journal of Medicinal Chemistry, 1998, 33, 577-594. | 2.6 | 74 |
| 1774 | Carbonic anhydrase inhibitors â€" Part 29 1: Interaction of isozymes I, II and IV with benzolamide-like derivatives. European Journal of Medicinal Chemistry, 1998, 33, 739-751. | 2.6 | 135 |
| 1775 | Carbonic anhydrase inhibitors â€" Part 47: Quantum chemical quantitative structure-activity relationships for a group of sulfanilamide Schiff base inhibitors of carbonic anhydrase. European Journal of Medicinal Chemistry, 1998, 33, 489-500. | 2.6 | 41 |
| 1776 | Carbonic anhydrase inhibitors â€" Part 52. Metal complexes of heterocyclic sulfonamides: A new class of strong topical intraocular pressure-lowering agents in rabbits. European Journal of Medicinal Chemistry, 1998, 33, 247-254. | 2.6 | 131 |
| 1777 | Carbonic Anhydrase Inhibitors: Inhibition of Isozymes I, II And IV with Heterocyclic Mercaptans, Sulfenamides, Sulfonamides and their Metal Complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 1998, 13, 177-194. | 0.5 | 24 |
| 1778 | Carbonic Anhydrase Inhibitors: Novel Compounds Containing S-NH Moieties: Sulfenamido-Sulfonamides, Sulfenimido-Sulfonamides and their Interaction with Isozymes I, II and IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 1998, 13, 419-442. | 0.5 | 13 |
| 1779 | Carbonic Anhydrase Inhibitors: Ureido and Thioureido Derivatives of Aromatic Sulfonamides Possessing Increased Affinities for Isozyme I. A Novel Route To 2,5-Disubstituted-L,3,4-Thiadiazoles Via Thioureas, and Their Interaction with Isozymes I, II and IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 1998, 13, 103-123. | 0.5 | 29 |
| 1780 | Carbonic Anhydrase Inhibitors: Inhibition of Isozymes I, II and IV withN-Hydroxysulfonamides - A Novel Class of Intraocular Pressure Lowering Agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 1998, 13, 267-284. | 0.5 | 28 |
| 1781 | Carbonic Anhydrase Inhibitors. Part 551 Metal Complexes of 1,3,4-Thiadiazole-2-Sulfonamide Derivatives: In Vitro Inhibition Studies With Carbonic Anhydrase Isozymes I, II and IV. Metal-Based Drugs, 1998, 5, 103-114. | 3.8 | 11 |
| 1782 | SYNTHESIS AND CARBONIC ANHYDRASE INHIBITORY ACTIVITY OF 5-BENZOYLAMIDO- AND 5-(3-NITROBENZOYLAMIDO)- 1,3,4-THIADIAZOLE-2-SULFONAMIDE AND THEIR METAL COMPLEXES. Main Group Metal Chemistry, 1997, 20, . | 0.6 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1783 | Sulfenamido-Sulfonamides as Inhibitors of Carbonic Anhydrase Isozymes I, II And IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 1997, 12, 175-190. | 0.5 | 37 |
| 1784 | Carbonic Anhydrase Activators:â€‰ X-ray Crystallographic and Spectroscopic Investigations for the Interaction of Isozymes I and II with Histamine,. Biochemistry, 1997, 36, 10384-10392. | 1.2 | 269 |
| 1785 | Novel Aromatic/Heterocyclic Sulfonamides and Their Metal Complexes as Inhibitors of Carbonic Anhydraseisozymes I, II and IV. Journal of Enzyme Inhibition and Medicinal Chemistry, 1997, 12, 37-51. | 0.5 | 65 |
| 1786 | Carbonic Anhydrase Inhibitors. Part 461 Inhibition of Carbonic Anhydrase Isozymes I, II and IV With Trifluoromethylsulfonamide Derivatives and Their Zinc(II) and Copper(II) Complexes. Metal-Based Drugs, 1997, 4, 27-34. | 3.8 | 27 |
| 1787 | Complexes With Biologically Active Ligands. Part 101 Inhibition of Carbonic Anhydrase Isozymes I and II With Metal Complexes of Imidazo[2,1â^'b]-1,3,4-Thiadiazole-2-Sulfonamide. Metal-Based Drugs, 1997, 4, 19-26. | 3.8 | 24 |
| 1788 | Carbonic Anhydrase Activators. Part 191 Spectroscopic and Kinetic Investigations for the Interaction of Isozymes I and II With Primary Amines. Metal-Based Drugs, 1997, 4, 221-227. | 3.8 | 3 |
| 1789 | Complexes With Biologically Active Ligands. Part 91 Metal Complexes of 5-Benzoylamino- and 5-(3-Nitrobenzoyl-Amino)-1,3,4-Thiadiazole-2-Sulfonamide as Carbonic Anhydrase Inhibitors. Metal-Based Drugs, 1997, 4, 1-7. | 3.8 | 10 |
| 1790 | Carbonic Anhydrase Inhibitors. Part 541: Metal Complexes of Heterocyclic Sulfonamides: A New Class of Antiglaucoma Agents. Metal-Based Drugs, 1997, 4, 307-315. | 3.8 | 4 |
| 1791 | Is cyanate a carbonic anhydrase substracte?. , 1997, 27, 272-278. | | 46 |
| 1792 | Complexes With Biologically Active Ligands. Part 61 Ni(II) Coordination Compounds of Hydrazine and Heterocyclic Sulfonamides as Inhibitors of the Zinc Enzyme Carbonic Anhydrase. Metal-Based Drugs, 1996, 3, 143-148. | 3.8 | 19 |
| 1793 | Complexes With Biologically Active Ligands. Part 4. Coordination Compounds of Chlorothiazide With Transition Metal Ions Behave as Strong Carbonic Anhydrase Inhibitors. Metal-Based Drugs, 1996, 3, 79-83. | 3.8 | 3 |
| 1794 | Metal Complexes of 1,3,4-Thiadiazole-2,5-Disulfonamide are Strong Dual Carbonic Anhydrase Inhibitors, although the Ligand Possesses very Weak such Properties. Metal-Based Drugs, 1995, 2, 331-336. | 3.8 | 11 |
| 1795 | Thienothiopyransulfonamides as Complexing Agents for the Preparation of Dual Carbonic Anhydrase Inhibitors. Metal-Based Drugs, 1995, 2, 327-330. | 3.8 | 14 |
| 1796 | CARBONIC ANHYDRASE INHIBITORS. Part 32. ISOZYME II INHIBITION WITH ORGANOPHOSPHORIC COMPOUNDS CONTAINING SUBSTITUTED SULFONAMIDO MOIETIES. Main Group Metal Chemistry, 1995, 18, . | 0.6 | 15 |
| 1797 | Carbonic Anhydrase Activators. 3: Structure-Activity Correlations for a Series of Isozyme I1 Activators. Journal of Pharmaceutical Sciences, 1994, 83, 768-773. | 1.6 | 115 |
| 1798 | Carbonic Anhydrase Activators. VII. Isozyme II Activation by Bisazolyl-methanes, -ethanes and Related Azoles.. Biological and Pharmaceutical Bulletin, 1993, 16, 1236-1239. | 0.6 | 29 |
| 1799 | Carbonic Anhydrase Inhibitors. V: Pyrylium Salts in the Synthesis of Isozyme-Specific Inhibitors. Journal of Pharmaceutical Sciences, 1992, 81, 716-719. | 1.6 | 41 |
| 1800 | Mechanism and Inhibition of theÎ²-Class andÎ³-Class Carbonic Anhydrases. , 0, , 285-300. | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 1801 | Crystallographic Studies on Carbonic Anhydrases from Fungal Pathogens for Structure-Assisted Drug Development. , 0, , 323-333. | | 9 |
| 1802 | APOBEC3G: A Promising Antiviral Target. , 0, , 981-987. | | 0 |
| 1803 | QSAR of Carbonic Anhydrase Inhibitors and Their Impact on Drug Design. , 0, , 375-397. | | 0 |
| 1804 | Selectivity Issues in the Design of CA Inhibitors. , 0, , 399-413. | | 0 |
| 1805 | Prostaglandins with Carboxylic Functionalities for the Treatment of Glaucoma. , 0, , 269-279. | | 1 |
| 1806 | Metal Complexes of Heterocyclic Sulfonamides as Carbonic Anhydrase Inhibitors. , 0, , . | | 3 |