

Andrea Scozzafava

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9754/andrea-scozzafava-publications-by-citations.pdf>

Version: 2024-04-26

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

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

640
papers

37,516
citations

102
h-index

155
g-index

690
ext. papers

39,297
ext. citations

4.7
avg, IF

7.23
L-index

#	Paper	IF	Citations
640	Carbonic anhydrase inhibitors. <i>Medicinal Research Reviews</i> , 2003 , 23, 146-89	14.4	1062
639	Targeting tumor hypoxia: suppression of breast tumor growth and metastasis by novel carbonic anhydrase IX inhibitors. <i>Cancer Research</i> , 2011 , 71, 3364-76	10.1	563
638	Anticancer and antiviral sulfonamides. <i>Current Medicinal Chemistry</i> , 2003 , 10, 925-53	4.3	557
637	Hypoxia activates the capacity of tumor-associated carbonic anhydrase IX to acidify extracellular pH. <i>FEBS Letters</i> , 2004 , 577, 439-45	3.8	556
636	Carbonic anhydrases as targets for medicinal chemistry. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 4336-50	3.4	462
635	Carbonic anhydrase inhibitors and their therapeutic potential. <i>Expert Opinion on Therapeutic Patents</i> , 2000 , 10, 575-600	6.8	432
634	Non-zinc mediated inhibition of carbonic anhydrases: coumarins are a new class of suicide inhibitors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3057-62	16.4	400
633	Crystal structure of the catalytic domain of the tumor-associated human carbonic anhydrase IX. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16233-8	11.5	399
632	Ureido-substituted benzenesulfonamides potently inhibit carbonic anhydrase IX and show antimetastatic activity in a model of breast cancer metastasis. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1896-902	8.3	391
631	Unexpected nanomolar inhibition of carbonic anhydrase by COX-2-selective celecoxib: new pharmacological opportunities due to related binding site recognition. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 550-7	8.3	381
630	Protease inhibitors of the sulfonamide type: anticancer, antiinflammatory, and antiviral agents. <i>Medicinal Research Reviews</i> , 2003 , 23, 535-58	14.4	320
629	Deciphering the mechanism of carbonic anhydrase inhibition with coumarins and thiocoumarins. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 335-44	8.3	311
628	Carbonic anhydrase inhibitors. Synthesis of water-soluble, topically effective, intraocular pressure-lowering aromatic/heterocyclic sulfonamides containing cationic or anionic moieties: is the tail more important than the ring?. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 2641-50	8.3	250
627	Carbonic anhydrase activators: X-ray crystallographic and spectroscopic investigations for the interaction of isozymes I and II with histamine. <i>Biochemistry</i> , 1997 , 36, 10384-92	3.2	246
626	Carbonic anhydrase inhibitors: E7070, a sulfonamide anticancer agent, potently inhibits cytosolic isozymes I and II, and transmembrane, tumor-associated isozyme IX. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 217-23	2.9	235
625	Antiglaucoma carbonic anhydrase inhibitors: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 705-16	6.8	232
624	Applications of carbonic anhydrase inhibitors and activators in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2002 , 12, 217-242	6.8	228

623	Carbonic anhydrase inhibitors: sulfonamides as antitumor agents?. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 703-14	3.4	225
622	Biochemical characterization of CA IX, one of the most active carbonic anhydrase isozymes. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27799-27809	5.4	224
621	Antiobesity carbonic anhydrase inhibitors: a literature and patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 725-35	6.8	213
620	Carbonic anhydrase inhibitors: SAR and X-ray crystallographic study for the interaction of sugar sulfamates/sulfamides with isozymes I, II and IV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 841-5	2.9	209
619	Sulfonamides and sulfonylated derivatives as anticancer agents. <i>Current Cancer Drug Targets</i> , 2002 , 2, 55-75	2.8	209
618	Carbonic anhydrase and matrix metalloproteinase inhibitors: 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. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 3177-87	8.3	202
617	Glycosyl coumarin carbonic anhydrase IX and XII inhibitors strongly attenuate the growth of primary breast tumors. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 8271-7	8.3	201
616	Carbonic anhydrase inhibitors. Inhibition of the transmembrane isozyme XII with sulfonamides-a new target for the design of antitumor and antiglaucoma drugs?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 963-9	2.9	199
615	Highly active antiretroviral therapy: current state of the art, new agents and their pharmacological interactions useful for improving therapeutic outcome. <i>Current Pharmaceutical Design</i> , 2005 , 11, 1805-43	3.3	199
614	Dithiocarbamates strongly inhibit carbonic anhydrases and show antiglaucoma action in vivo. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 1721-30	8.3	195
613	Carbonic anhydrase IX: a new druggable target for the design of antitumor agents. <i>Medicinal Research Reviews</i> , 2008 , 28, 445-63	14.4	192
612	Carbonic anhydrase inhibitors. Design of fluorescent sulfonamides as probes of tumor-associated carbonic anhydrase IX that inhibit isozyme IX-mediated acidification of hypoxic tumors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 4834-41	8.3	192
611	Characterization of CA XIII, a novel member of the carbonic anhydrase isozyme family. <i>Journal of Biological Chemistry</i> , 2004 , 279, 2719-27	5.4	187
610	Carbonic anhydrase inhibitors: X-ray and molecular modeling study for the interaction of a fluorescent antitumor sulfonamide with isozyme II and IX. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8329-35	16.4	186
609	Polyamines inhibit carbonic anhydrases by anchoring to the zinc-coordinated water molecule. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 5511-22	8.3	184
608	Selective hydrophobic pocket binding observed within the carbonic anhydrase II active site accommodate different 4-substituted-ureido-benzenesulfonamides and correlate to inhibitor potency. <i>Chemical Communications</i> , 2010 , 46, 8371-3	5.8	180
607	Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with aromatic and heterocyclic sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 1005-9	2.9	176
606	Sulfocoumarins (1,2-benzoxathiine-2,2-dioxides): a class of potent and isoform-selective inhibitors of tumor-associated carbonic anhydrases. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 293-300	8.3	174

605	Imaging of CA IX with fluorescent labelled sulfonamides distinguishes hypoxic and (re)-oxygenated cells in a xenograft tumour model. <i>Radiotherapy and Oncology</i> , 2009 , 92, 423-8	5.3	173
604	Carbonic anhydrase inhibitors: interactions of phenols with the 12 catalytically active mammalian isoforms (CA I-XIV). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 1583-7	2.9	170
603	Sulfamates and their therapeutic potential. <i>Medicinal Research Reviews</i> , 2005 , 25, 186-228	14.4	169
602	Sulfonamides: a patent review (2008 - 2012). <i>Expert Opinion on Therapeutic Patents</i> , 2012 , 22, 747-58	6.8	167
601	Carbonic Anhydrase Inhibitors. <i>Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents</i> , 2001 , 1, 61-97		167
600	Carbonic anhydrase inhibitors. Zonisamide is an effective inhibitor of the cytosolic isozyme II and mitochondrial isozyme V: solution and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2315-20	2.9	166
599	Carbonic anhydrase inhibitors. The mitochondrial isozyme VB as a new target for sulfonamide and sulfamate inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 7860-6	8.3	161
598	Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24 Suppl 1, 1-39	5.6	153
597	Therapeutic potential of sulfamides as enzyme inhibitors. <i>Medicinal Research Reviews</i> , 2006 , 26, 767-92	14.4	153
596	Carbonic anhydrase inhibitors: stacking with Phe131 determines active site binding region of inhibitors as exemplified by the X-ray crystal structure of a membrane-impermeant antitumor sulfonamide complexed with isozyme II. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 5721-7	8.3	150
595	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. <i>Chemical Communications</i> , 2012 , 48, 1868-70	5.8	149
594	Modulation of carbonic anhydrase activity and its applications in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2004 , 14, 667-702	6.8	148
593	Carbonic anhydrase inhibitors: synthesis of water-soluble, topically effective intraocular pressure lowering aromatic/heterocyclic sulfonamides containing 8-quinoline-sulfonyl moieties: is the tail more important than the ring?. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 2397-406	3.4	148
592	Carbonic anhydrase inhibitors: the beta-carbonic anhydrase from <i>Helicobacter pylori</i> is a new target for sulfonamide and sulfamate inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 3585-94	2.9	146
591	Carbonic anhydrase inhibitors: synthesis of water-soluble, aminoacyl/dipeptidyl sulfonamides possessing long-lasting intraocular pressure-lowering properties via the topical route. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 3690-700	8.3	146
590	Carbonic anhydrase inhibitors. Part 37. Novel classes of isozyme I and II inhibitors and their mechanism of action. Kinetic and spectroscopic investigations on native and cobalt-substituted enzymes. <i>European Journal of Medicinal Chemistry</i> , 1996 , 31, 1001-1010	6.8	146
589	Carbonic anhydrase inhibitors. Design of selective, membrane-impermeant inhibitors targeting the human tumor-associated isozyme IX. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 2337-47	8.3	145
588	Specific inhibition of carbonic anhydrase IX activity enhances the in vivo therapeutic effect of tumor irradiation. <i>Radiotherapy and Oncology</i> , 2011 , 99, 424-31	5.3	144

587	Nonaromatic sulfonamide group as an ideal anchor for potent human carbonic anhydrase inhibitors: role of hydrogen-bonding networks in ligand binding and drug design. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 3583-7	8.3	144
586	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 7255-8	2.9	143
585	Carbonic anhydrase inhibitors and activators and their use in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2006 , 16, 1627-1664	6.8	143
584	Carbonic anhydrase inhibitors: 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. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 7024-31	8.3	142
583	Carbonic anhydrase inhibitors: the first selective, membrane-impermeant inhibitors targeting the tumor-associated isozyme IX. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 869-73	2.9	140
582	Carbonic anhydrase inhibitors - Part 49: Synthesis of substituted ureido and thioureido derivatives of aromatic/heterocyclic sulfonamides with increased affinities for isozyme I. <i>European Journal of Medicinal Chemistry</i> , 1998 , 33, 83-93	6.8	139
581	Imaging the hypoxia surrogate marker CA IX requires expression and catalytic activity for binding fluorescent sulfonamide inhibitors. <i>Radiotherapy and Oncology</i> , 2007 , 83, 367-73	5.3	138
580	Carbonic anhydrase inhibitors: synthesis of membrane-impermeant low molecular weight sulfonamides possessing in vivo selectivity for the membrane-bound versus cytosolic isozymes. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 292-300	8.3	138
579	Carbonic anhydrase inhibitors: DNA cloning and inhibition studies of the alpha-carbonic anhydrase from <i>Helicobacter pylori</i> , a new target for developing sulfonamide and sulfamate gastric drugs. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 2117-26	8.3	137
578	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 231-4	2.9	137
577	Carbonic anhydrase inhibitors: water-soluble 4-sulfamoylphenylthioureas as topical intraocular pressure-lowering agents with long-lasting effects. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 4884-92	8.3	137
576	Carbonic anhydrase inhibitors. Antioxidant polyphenols effectively inhibit mammalian isoforms I-XV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5050-3	2.9	135
575	Metalloantibiotics: synthesis and antibacterial activity of cobalt(II), copper(II), nickel(II) and zinc(II) complexes of kefzol. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 79-84	5.6	135
574	Carbonic anhydrase inhibitors. Inhibition of mitochondrial isozyme V with aromatic and heterocyclic sulfonamides. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 1272-9	8.3	135
573	Rosmarinic acid inhibits some metabolic enzymes including glutathione S-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 1698-702	5.6	134
572	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. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2197-204	8.3	134
571	Sulfonamides and their isosters as carbonic anhydrase inhibitors. <i>Future Medicinal Chemistry</i> , 2014 , 6, 1149-65	4.1	133
570	Carbonic anhydrase inhibitors. Inhibition of tumor-associated isozyme IX by halogenosulfanilamide and halogenophenylaminobenzamide derivatives. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2187-96	8.3	133

- 569 Proton NOE studies on dicopper(II) dicobalt(II) superoxide dismutase. *Inorganic Chemistry*, **1989**, 28, 4650-4656
- 568 Carbonic anhydrase inhibitors [Part 29 1: Interaction of isozymes I, II and IV with benzamide-like derivatives. *European Journal of Medicinal Chemistry*, **1998**, 33, 739-751 6.8 130
- 567 Metal binding and antibacterial activity of ciprofloxacin complexes. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2005**, 20, 303-7 5.6 130
- 566 Zinc complexes of benzothiazole-derived Schiff bases with antibacterial activity. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2003**, 18, 259-63 5.6 130
- 565 Carbonic anhydrase inhibitors: anticonvulsant sulfonamides incorporating valproyl and other lipophilic moieties. *Journal of Medicinal Chemistry*, **2002**, 45, 312-20 8.3 129
- 564 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, 3102-8 2.9 129
- 563 Characterization of cobalt(II) bovine carbonic anhydrase and of its derivatives. *Journal of the American Chemical Society*, **1978**, 100, 4873-4877 16.4 129
- 562 Bacterial protease inhibitors. *Medicinal Research Reviews*, **2002**, 22, 329-72 14.4 128
- 561 Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 971-6 2.9 128
- 560 Carbonic anhydrase inhibitors: 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, 4542-51 8.3 128
- 559 Carbonic anhydrase inhibitors. A general approach for the preparation of water-soluble sulfonamides incorporating polyamino-polycarboxylate tails and of their metal complexes possessing long-lasting, topical intraocular pressure-lowering properties. *Journal of Medicinal Chemistry*, **2002**, 45, 1466-76 8.3 127
- 558 ESI mass spectrometry and X-ray diffraction studies of adducts between anticancer platinum drugs and hen egg white lysozyme. *Chemical Communications*, **2007**, 156-8 5.8 126
- 557 Carbonic anhydrase inhibitors: inhibition of the transmembrane isozyme XIV with sulfonamides. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 3828-33 2.9 125
- 556 Antimetastatic effect of sulfamate carbonic anhydrase IX inhibitors in breast carcinoma xenografts. *Journal of Medicinal Chemistry*, **2012**, 55, 5591-600 8.3 123
- 555 Carbonic anhydrase activators. Activation of isozymes I, II, IV, VA, VII, and XIV with l- and d-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, 7057-66 4.8 122
- 554 Carbonic anhydrase inhibitors [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 6.8 120
- 553 Carbonic anhydrase IX from cancer-associated fibroblasts drives epithelial-mesenchymal transition in prostate carcinoma cells. *Cell Cycle*, **2013**, 12, 1791-801 4.7 119
- 552 Designing of Novel Carbonic Anhydrase Inhibitors and Activators. *Current Medicinal Chemistry Cardiovascular and Hematological Agents*, **2004**, 2, 49-68 119

551	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: stereospecific recognition within the active site of an enzyme and its consequences for the drug design. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3019-27	8.3	116
550	COX-2 selective inhibitors, carbonic anhydrase inhibition and anticancer properties of sulfonamides belonging to this class of pharmacological agents. <i>Mini-Reviews in Medicinal Chemistry</i> , 2004 , 4, 625-32	3.2	116
549	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. <i>Current Medicinal Chemistry</i> , 2007 , 14, 2734-48	4.3	115
548	Unsymmetrical 1,1Mdisubstituted ferrocenes: synthesis of Co(ii), Cu(ii), Ni(ii) and Zn(ii) chelates of ferrocenyl -1-thiadiazolo-1Mtriazole, -1-thiadiazolo-1Mtriazole and -1-tetrazolo-1Mtriazole with antimicrobial properties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 261-6	5.6	115
547	Carbonic anhydrase inhibitors: inhibition of mammalian isoforms I-XIV with a series of substituted phenols including paracetamol and salicylic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 7424-8	3.4	114
546	Carbonic anhydrase: An insight into the zinc binding site and into the active cavity through metal substitution 1982 , 45-92		114
545	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. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 850-4	8.3	110
544	Carbonic anhydrase inhibitors. Inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with SchiffMbases incorporating chromone and aromatic sulfonamide moieties, and their zinc complexes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3096-101	2.9	106
543	Carbonic anhydrase inhibitors: synthesis of sulfonamides incorporating dtpa tails and of their zinc complexes with powerful topical antiglaucoma properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001 , 11, 575-82	2.9	106
542	Carbonic anhydrase inhibitors: guaiacol and catechol derivatives effectively inhibit certain human carbonic anhydrase isoenzymes (hCA I, II, IX and XII). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 586-91	5.6	105
541	Novel therapies for glaucoma: a patent review 2007 - 2011. <i>Expert Opinion on Therapeutic Patents</i> , 2012 , 22, 79-88	6.8	104
540	Proton NMR spectroscopy and the electronic structure of the high potential iron-sulfur protein from <i>Chromatium vinosum</i> . <i>Journal of the American Chemical Society</i> , 1991 , 113, 1237-1245	16.4	104
539	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1828-40	3.4	103
538	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. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 1095-101	5.6	101
537	Novel coumarins and 2-thioxo-coumarins as inhibitors of the tumor-associated carbonic anhydrases IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 2266-73	3.4	101
536	Single-crystal ESR spectra of copper(II) complexes with geometries intermediate between a square pyramid and a trigonal bipyramid. <i>Inorganic Chemistry</i> , 1978 , 17, 3194-3197	5.1	100
535	Carbonic anhydrase inhibitor coated gold nanoparticles selectively inhibit the tumor-associated isoform IX over the cytosolic isozymes I and II. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16130-1	16.4	99
534	Bacterial proteases: current therapeutic use and future prospects for the development of new antibiotics. <i>Expert Opinion on Therapeutic Patents</i> , 2001 , 11, 221-259	6.8	99

533	Carbonic anhydrase inhibitors. Cloning, characterization, and inhibition studies of a new beta-carbonic anhydrase from <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3116-20	8.3	98
532	Cloning, characterization, and inhibition studies of a beta-carbonic anhydrase from <i>Brucella suis</i> . <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 2277-85	8.3	97
531	An α -carbonic anhydrase from the thermophilic bacterium <i>Sulphurihydrogenibium azorense</i> is the fastest enzyme known for the CO ₂ hydration reaction. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1465-9	3.4	96
530	Design and Synthesis of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDs-CAIs) for the Treatment of Rheumatoid Arthritis. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 1159-1170	8.3	94
529	Carbonic anhydrase inhibitors: Hypoxia-activatable sulfonamides incorporating disulfide bonds that target the tumor-associated isoform IX. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 5544-51	8.3	93
528	DNA cloning, characterization, and inhibition studies of an α -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 10742-8	8.3	91
527	Crystal structure of a blue laccase from <i>Lentinus tigrinus</i> : evidences for intermediates in the molecular oxygen reductive splitting by multicopper oxidases. <i>BMC Structural Biology</i> , 2007 , 7, 60	2.7	91
526	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5136-41	2.9	91
525	Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 74, 164-75	4.2	90
524	Carbonic anhydrase inhibitors: cloning, characterization, and inhibition studies of the cytosolic isozyme III with sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 7229-36	3.4	90
523	Carbonic anhydrase inhibitors: inhibition of the beta-class enzymes from the fungal pathogens <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with simple anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 5066-70	2.9	90
522	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5427-33	2.9	90
521	Dithiocarbamates are strong inhibitors of the beta-class fungal carbonic anhydrases from <i>Cryptococcus neoformans</i> , <i>Candida albicans</i> and <i>Candida glabrata</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 859-62	2.9	89
520	X-ray structure of the first α -extremo- α -carbonic anhydrase: a dimeric enzyme from the thermophilic bacterium <i>Sulphurihydrogenibium yellowstonense</i> YO3AOP1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 1150-9		89
519	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. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1381-9	3.4	89
518	Carbonic anhydrase inhibitors: Valdecoxib binds to a different active site region of the human isoform II as compared to the structurally related cyclooxygenase II "selective" inhibitor celecoxib. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 437-42	2.9	89
517	Investigations of the esterase, phosphatase, and sulfatase activities of the cytosolic mammalian carbonic anhydrase isoforms I, II, and XIII with 4-nitrophenyl esters as substrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2267-71	2.9	88
516	Combining the tail and the ring approaches for obtaining potent and isoform-selective carbonic anhydrase inhibitors: solution and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 334-40	3.4	86

515	Carbonic anhydrase inhibitors--Part 94. 1,3,4-thiadiazole-2-sulfonamide derivatives as antitumor agents?. <i>European Journal of Medicinal Chemistry</i> , 2000 , 35, 867-74	6.8	86
514	Glaucoma and the applications of carbonic anhydrase inhibitors. <i>Sub-Cellular Biochemistry</i> , 2014 , 75, 349-59	5.9	86
513	Biochemical properties of a new β -carbonic anhydrase from the human pathogenic bacterium, <i>Vibrio cholerae</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 23-7	5.6	85
512	Molecular cloning, characterization, and inhibition studies of the Rv1284 beta-carbonic anhydrase from <i>Mycobacterium tuberculosis</i> with sulfonamides and a sulfamate. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 2226-32	8.3	85
511	Antiviral sulfonamide derivatives. <i>Mini-Reviews in Medicinal Chemistry</i> , 2004 , 4, 189-200	3.2	84
510	Crystal structure of the blue multicopper oxidase from the white-rot fungus <i>Trametes trogii</i> complexed with p-toluate. <i>Inorganica Chimica Acta</i> , 2008 , 361, 4129-4137	2.7	83
509	Inhibition of the alpha- and beta-carbonic anhydrases from the gastric pathogen <i>Helicobacter pylori</i> with anions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 388-91	5.6	82
508	Xanthates and trithiocarbonates strongly inhibit carbonic anhydrases and show antiglaucoma effects in vivo. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 4691-700	8.3	82
507	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. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 3105-19	3.4	82
506	Carbonic anhydrase activators: L-Adrenaline plugs the active site entrance of isozyme II, activating better isoforms I, IV, VA, VII, and XIV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 628-35	2.9	82
505	Carbonic anhydrase inhibitors: aromatic and heterocyclic sulfonamides incorporating adamantyl moieties with strong anticonvulsant activity. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 2717-26	3.4	82
504	Cloning, characterization, and sulfonamide and thiol inhibition studies of an β -carbonic anhydrase from <i>Trypanosoma cruzi</i> , the causative agent of Chagas disease. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 1761-71	8.3	81
503	Carbonic anhydrase inhibitors. DNA cloning, characterization, and inhibition studies of the human secretory isoform VI, a new target for sulfonamide and sulfamate inhibitors. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 381-8	8.3	80
502	Investigation of Cu ₂ Co ₂ SOD and its anion derivatives. Proton NMR and electronic spectra. <i>Journal of the American Chemical Society</i> , 1985 , 107, 4391-4396	16.4	80
501	Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 689-721	5.6	79
500	Carbonic anhydrase inhibitors: inhibition of the beta-class enzyme from the yeast <i>Saccharomyces cerevisiae</i> with sulfonamides and sulfamates. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 1158-63	3.4	78
499	The development of topically acting carbonic anhydrase inhibitors as antiglaucoma agents. <i>Current Pharmaceutical Design</i> , 2008 , 14, 649-54	3.3	78
498	Antibacterial Schiff bases of oxalyl-hydrazine/diamide incorporating pyrrolyl and salicylyl moieties and of their zinc(II) complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 1-7	5.6	78

- 497 Carbonic anhydrase inhibitors. Inhibition of the prokariotic beta and gamma-class enzymes from Archaea with sulfonamides. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 6001-6 2.9 77
- 496 Discovery of low nanomolar and subnanomolar inhibitors of the mycobacterial beta-carbonic anhydrases Rv1284 and Rv3273. *Journal of Medicinal Chemistry*, **2009**, 52, 4063-7 8.3 75
- 495 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, 483-9 3.4 75
- 494 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, 941-6 5.6 74
- 493 Carbonic anhydrase inhibitors. X-ray crystal studies of the carbonic anhydrase II-trithiocarbonate adduct--an inhibitor mimicking the sulfonamide and urea binding to the enzyme. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 474-8 2.9 74
- 492 Carbonic anhydrase inhibitors. Sulfonamide diuretics revisited--old leads for new applications?. *Organic and Biomolecular Chemistry*, **2008**, 6, 2499-506 3.9 74
- 491 Carbonic anhydrase activators: the first X-ray crystallographic study of an adduct of isoform I. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 5152-6 2.9 74
- 490 Carbonic anhydrase inhibitors: inhibition of transmembrane, tumor-associated isozyme IX, and cytosolic isozymes I and II with aliphatic sulfamates. *Journal of Medicinal Chemistry*, **2003**, 46, 5471-7 8.3 74
- 489 The proteoglycan region of the tumor-associated carbonic anhydrase isoform IX acts as an intrinsic buffer optimizing CO₂ hydration at acidic pH values characteristic of solid tumors. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 5825-8 2.9 73
- 488 Carbonic anhydrase activation and the drug design. *Current Pharmaceutical Design*, **2008**, 14, 708-15 3.3 73
- 487 Carbonic anhydrase inhibitors: inhibition of cytosolic isozymes I and II with sulfamide derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 837-40 2.9 73
- 486 A new β -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, 1172-8 3.4 72
- 485 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, 294-8 5.6 71
- 484 Anion inhibition studies of an β -carbonic anhydrase from the thermophilic bacterium *Sulfurihydrogenibium yellowstonense* YO3AOP1. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 5630-4 2.9 71
- 483 Dihalogenated sulfanilamides and benzolamides are effective inhibitors of the three β -class carbonic anhydrases from *Mycobacterium tuberculosis*. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 384-7 5.6 71
- 482 The β -carbonic anhydrases from *Mycobacterium tuberculosis* as drug targets. *Current Pharmaceutical Design*, **2010**, 16, 3300-9 3.3 70
- 481 Carbonic anhydrase inhibitors [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 6.8 70
- 480 New zinc binding motifs in the design of selective carbonic anhydrase inhibitors. *Mini-Reviews in Medicinal Chemistry*, **2006**, 6, 921-36 3.2 70

479	Arylsulfonyl-N,N-diethyl-dithiocarbamates: a novel class of antitumor agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 1887-91	2.9	70
478	The first activation study of a bacterial carbonic anhydrase (CA). The thermostable β CA from <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1 is highly activated by amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 6324-7	2.9	69
477	Inhibition of the β carbonic anhydrase from <i>Streptococcus pneumoniae</i> by inorganic anions and small molecules: Toward innovative drug design of antiinfectives?. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 243-8	3.4	69
476	Design of zinc binding functions for carbonic anhydrase inhibitors. <i>Current Pharmaceutical Design</i> , 2008 , 14, 615-21	3.3	69
475	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/membrane-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating hydrazino moieties. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 2121-5	8.3	69
474	Carbonic anhydrase inhibitors: the first QSAR study on inhibition of tumor-associated isoenzyme IX with aromatic and heterocyclic sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 3283-90	3.0	69
473	Inhibition of the β class carbonic anhydrases from <i>Mycobacterium tuberculosis</i> with carboxylic acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 392-6	5.6	68
472	Carbonic anhydrase activators: design of high affinity isozymes I, II, and IV activators, incorporating tri-/tetrasubstituted-pyridinium-azole moieties. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 504-10	8.3	68
471	Secondary and tertiary sulfonamides: a patent review (2008 - 2012). <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 203-13	6.8	67
470	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 4376-81	2.9	66
469	Fungal laccase, cellobiose dehydrogenase, and chemical mediators: combined actions for the decolorization of different classes of textile dyes. <i>Bioresource Technology</i> , 2008 , 99, 7003-10	11	66
468	Anticonvulsant 4-aminobenzenesulfonamide derivatives with branched-alkylamide moieties: X-ray crystallography and inhibition studies of human carbonic anhydrase isoforms I, II, VII, and XIV. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 3977-81	8.3	65
467	The sulfamide motif in the design of enzyme inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2006 , 16, 27-47	6.8	65
466	The protein tyrosine kinase inhibitors imatinib and nilotinib strongly inhibit several mammalian alpha-carbonic anhydrase isoforms. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 4102-6	2.9	64
465	Carbonic anhydrase inhibitors: N-(p-sulfamoylphenyl)-alpha-D-glycopyranosylamines as topically acting antiglaucoma agents in hypertensive rabbits. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 225-9	2.9	64
464	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2347-52	2.9	64
463	Inhibition studies with anions and small molecules of two novel β carbonic anhydrases from the bacterial pathogen <i>Salmonella enterica</i> serovar Typhimurium. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 3591-5	2.9	63
462	Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 462-73	8.3	62

461	Biochemical characterization of the β -carbonic anhydrase from the oral pathogen <i>Porphyromonas gingivalis</i> , PgiCA. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 532-7	5.6	62
460	Polypharmacology of sulfonamides: pazopanib, a multitargeted receptor tyrosine kinase inhibitor in clinical use, potently inhibits several mammalian carbonic anhydrases. <i>Chemical Communications</i> , 2012 , 48, 8177-9	5.8	62
459	7-Substituted-sulfocoumarins are isoform-selective, potent carbonic anhydrase II inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4502-10	3.4	62
458	Which carbonic anhydrases are targeted by the antiepileptic sulfonamides and sulfamates?. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 317-21	2.9	62
457	Novel aromatic/heterocyclic sulfonamides and their metal complexes as inhibitors of carbonic anhydrase isozymes I, II and IV. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1997 , 12, 37-51		62
456	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with the antipsychotic drug sulpiride. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 337-41	2.9	62
455	Antibacterial Co(II), Cu(II), Ni(II) and Zn(II) complexes of thiadiazole derived furanyl, thiophenyl and pyrrolyl Schiff bases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 117-22	5.6	61
454	Carbonic anhydrase inhibitors: sulfonamides incorporating furan-, thiophene- and pyrrole-carboxamido groups possess strong topical intraocular pressure lowering properties as aqueous suspensions. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 2145-55	3.4	61
453	Proton NMR spectra of oxidized high-potential iron-sulfur protein (HiPIP) from <i>Rhodocyclus gelatinosus</i> . A model for oxidized HiPIPs. <i>Inorganic Chemistry</i> , 1991 , 30, 4517-4524	5.1	61
452	The extremo- β -carbonic anhydrase from the thermophilic bacterium <i>Sulfurihydrogenibium azorense</i> is highly inhibited by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4521-5	3.4	60
451	Anion inhibition studies of the fastest carbonic anhydrase (CA) known, the extremo-CA from the bacterium <i>Sulfurihydrogenibium azorense</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7142-5	2.9	60
450	Carbonic anhydrase activators: kinetic and X-ray crystallographic study for the interaction of D- and L-tryptophan with the mammalian isoforms I-XIV. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 8373-8	3.4	60
449	Carbonic anhydrase activators: human isozyme II is strongly activated by oligopeptides incorporating the carboxyterminal sequence of the bicarbonate anion exchanger AE1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 1177-80	2.9	60
448	Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with carboxylates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 573-8	2.9	60
447	Carbonic anhydrase activators: high affinity isozymes I, II, and IV activators, incorporating a beta-alanyl-histidine scaffold. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 284-91	8.3	60
446	Carbonic anhydrase inhibitors. Interaction of indapamide and related diuretics with 12 mammalian isozymes and X-ray crystallographic studies for the indapamide-isozyme II adduct. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2567-73	2.9	59
445	A highly catalytically active β -carbonic anhydrase from the pathogenic anaerobe <i>Porphyromonas gingivalis</i> and its inhibition profile with anions and small molecules. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 4067-71	2.9	58
444	Carbonic anhydrase activation enhances object recognition memory in mice through phosphorylation of the extracellular signal-regulated kinase in the cortex and the hippocampus. <i>Neuropharmacology</i> , 2017 , 118, 148-156	5.5	57

443	Coumarinyl-substituted sulfonamides strongly inhibit several human carbonic anhydrase isoforms: solution and crystallographic investigations. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 4873-8	3.4	57
442	Characterization of the first beta-class carbonic anhydrase from an arthropod (<i>Drosophila melanogaster</i>) and phylogenetic analysis of beta-class carbonic anhydrases in invertebrates. <i>BMC Biochemistry</i> , 2010 , 11, 28	4.8	57
441	Carbonic anhydrase inhibitors. Inhibition of the zinc and cobalt γ -class enzyme from the archaeon <i>Methanosarcina thermophila</i> with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 3327-3331	2.9	57
440	Cloning, characterization and anion inhibition study of the β -class carbonic anhydrase (TweCA) from the marine diatom <i>Thalassiosira weissflogii</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 531-7	3.4	56
439	Carbonic anhydrase inhibitors: Inhibition of the new membrane-associated isoform XV with phenols. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 3593-6	2.9	56
438	An update in the development of HIV entry inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 1273-89	3	56
437	Carbonic anhydrase inhibitors: topical sulfonamide antiglaucoma agents incorporating secondary amine moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 673-6	2.9	56
436	Protease inhibitors: synthesis of potent bacterial collagenase and matrix metalloproteinase inhibitors incorporating N-4-nitrobenzylsulfonylglycine hydroxamate moieties. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 1858-65	8.3	56
435	Carbonic anhydrase inhibitors: Schiff bases of aromatic and heterocyclic sulfonamides and their metal complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 263-7	5.6	55
434	Carbonic anhydrase inhibitors: aromatic sulfonamides and disulfonamides act as efficient tumor growth inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 597-610		55
433	Nuclear relaxation in the magnetic coupled system Cu ₂ Co ₂ SOD. Histidine-44 is detached upon anion binding. <i>Journal of the American Chemical Society</i> , 1987 , 109, 2328-2334	16.4	55
432	5- and 6-membered (thio)lactones are prodrug type carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 267-70	2.9	54
431	Carbonic anhydrase inhibitors. Part 43. Schiff bases derived from aromatic sulfonamides: towards more specific inhibitors for membrane-bound versus cytosolic isozymes. <i>European Journal of Medicinal Chemistry</i> , 1997 , 32, 445-452	6.8	54
430	Targeting cysteine residues of biomolecules: new approaches for the design of antiviral and anticancer drugs. <i>Current Medicinal Chemistry</i> , 2002 , 9, 1167-85	4.3	54
429	Jahn-Teller distortions of tris(ethylenediamine)copper(II) complexes. <i>Inorganic Chemistry</i> , 1977 , 16, 1973-1976	5.1	54
428	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. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 1214-21	3.4	53
427	Carbonic anhydrase inhibitors. inhibition of cytosolic isozymes I and II and transmembrane, cancer-associated isozyme IX with anions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 403-6	5.6	53
426	The extreme- β -carbonic anhydrase (CA) from <i>Sulfurihydrogenibium azorense</i> , the fastest CA known, is highly activated by amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 1087-90	2.9	52

425	Carbonic anhydrase inhibitors: 4-sulfamoyl-benzenecarboxamides and 4-chloro-3-sulfamoyl-benzenecarboxamides with strong topical antiglaucoma properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001 , 11, 1787-91	2.9	52
424	Carbonic anhydrase catalyzes cyanamide hydration to urea: is it mimicking the physiological reaction?. <i>Journal of Biological Inorganic Chemistry</i> , 1999 , 4, 528-36	3.7	52
423	A class of sulfonamides with strong inhibitory action against the β -carbonic anhydrase from <i>Trypanosoma cruzi</i> . <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 5773-81	8.3	51
422	Ureido-substituted sulfamates show potent carbonic anhydrase IX inhibitory and antiproliferative activities against breast cancer cell lines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 4681-5	2.9	51
421	Carbonic anhydrase inhibitors. Inhibition and homology modeling studies of the fungal β -carbonic anhydrase from <i>Candida albicans</i> with sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 4503-9	3.4	51
420	Purification, biochemical properties and substrate specificity of a catechol 1,2-dioxygenase from a phenol degrading <i>Acinetobacter radioresistens</i> . <i>FEBS Letters</i> , 1997 , 416, 61-4	3.8	51
419	The α -carbonic anhydrase from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1 is highly susceptible to inhibition by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1534-8	3.4	50
418	Anion inhibition studies of the β -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 1636-8	2.9	50
417	Phosphodiesterase 5 inhibitors--drug design and differentiation based on selectivity, pharmacokinetic and efficacy profiles. <i>Current Pharmaceutical Design</i> , 2006 , 12, 3459-65	3.3	50
416	New selective carbonic anhydrase IX inhibitors: synthesis and pharmacological evaluation of diarylpyrazole-benzenesulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1451-64	3.4	49
415	Carbonic anhydrase inhibitors. Comparison of chlorthalidone and indapamide X-ray crystal structures in adducts with isozyme II: when three water molecules and the keto-enol tautomerism make the difference. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 322-8	8.3	49
414	The development of topically acting carbonic anhydrase inhibitors as anti-glaucoma agents. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 849-54	3	49
413	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3302-6	2.9	49
412	Carbonic anhydrase inhibitors. Arylsulfonylureido- and arylureido-substituted aromatic and heterocyclic sulfonamides: towards selective inhibitors of carbonic anhydrase isozyme I. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1999 , 14, 343-63		49
411	Inhibition studies of a β -carbonic anhydrase from <i>Brucella suis</i> with a series of water soluble glycosyl sulfanilamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 2178-82	2.9	48
410	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 367-72	2.9	48
409	Six-coordinate copper complexes with g. <i>Coordination Chemistry Reviews</i> , 1979 , 29, 67-84	23.2	48
408	Monothiocarbamates Strongly Inhibit Carbonic Anhydrases in Vitro and Possess Intraocular Pressure Lowering Activity in an Animal Model of Glaucoma. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 5857-67	8.3	47

407	Sulfonamide inhibition studies of the β -carbonic anhydrase from the diatom <i>Thalassiosira weissflogii</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 275-9	2.9	47
406	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. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 303-8	5.6	47
405	Carbonic anhydrase inhibitors. Inhibition of the beta-class enzyme from the methanoarchaeon <i>Methanobacterium thermoautotrophicum</i> (Cab) with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 4563-7	2.9	47
404	Carbonic anhydrase inhibitors. Part 71. Synthesis and ocular pharmacology of a new class of water-soluble, topically effective intraocular pressure lowering sulfonamides incorporating picolinoyl moieties. <i>European Journal of Pharmaceutical Sciences</i> , 1999 , 8, 317-28	5.1	47
403	Effects of planar and tetrahedral distortions on the ESR parameters of bis(salicylaldiminato)copper(II) complexes. <i>Inorganic Chemistry</i> , 1980 , 19, 2198-2200	5.1	47
402	Sulfonamide inhibition studies of the β -carbonic anhydrase from the oral pathogen <i>Porphyromonas gingivalis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 240-4	2.9	46
401	New chemotypes acting as isozyme-selective carbonic anhydrase inhibitors with low affinity for the offtarget cytosolic isoform II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 2182-5	2.9	46
400	Structural insights on carbonic anhydrase inhibitory action, isoform selectivity, and potency of sulfonamides and coumarins incorporating arylsulfonylureido groups. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9152-67	8.3	46
399	Carbonic anhydrase inhibitors: bioreductive nitro-containing sulfonamides with selectivity for targeting the tumor associated isoforms IX and XII. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 3230-7	8.3	46
398	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 4846-51	2.9	46
397	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a topically acting antiglaucoma sulfonamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 2357-61	2.9	46
396	Carbonic anhydrase inhibitors: the first on-resin screening of a 4-sulfamoylphenylthiourea library. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5224-9	8.3	46
395	Sulfonamide derivatives with protease inhibitory action as anticancer, anti-inflammatory and antiviral agents. <i>Expert Opinion on Therapeutic Patents</i> , 2002 , 12, 1307-1327	6.8	46
394	Hypoxia induced CA9 inhibitory targeting by two different sulfonamide derivatives including acetazolamide in human glioblastoma. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 3949-57	3.4	45
393	Anion inhibition studies of the β -carbonic anhydrase from the protozoan pathogen <i>Trypanosoma cruzi</i> , the causative agent of Chagas disease. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4472-6	3.4	45
392	Conformational variability of different sulfonamide inhibitors with thienyl-acetamido moieties attributes to differential binding in the active site of cytosolic human carbonic anhydrase isoforms. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 3732-8	3.4	45
391	Inhibition studies of the β -carbonic anhydrases from the bacterial pathogen <i>Salmonella enterica</i> serovar Typhimurium with sulfonamides and sulfamates. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 5023-30	3.4	45
390	Carbonic anhydrase inhibitors. Inhibition of transmembrane isoforms IX, XII, and XIV with less investigated anions including trithiocarbonate and dithiocarbamate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 1548-50	2.9	45

- 389 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, 4107-12 2.9 45
- 388 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, 2210-5 2.9 45
- 387 Carbonic anhydrase inhibitors: inhibition of human, bacterial, and archaeal isozymes with benzene-1,3-disulfonamides--solution and crystallographic studies. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 4201-7 2.9 45
- 386 Carbonic anhydrase activators: activation of isozyme XIII with amino acids and amines. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 3955-9 2.9 45
- 385 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, 2351-6 2.9 45
- 384 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, 5775-80 2.9 45
- 383 Antimycobacterial activity of 9-sulfonylated/sulfenylated-6-mercaptapurine derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 1675-8 2.9 45
- 382 ¹H-NMR studies on partially and fully reduced 2(4Fe-4S) ferredoxin from *Clostridium pasteurianum*. *FEBS Journal*, **1992**, 204, 831-9 45
- 381 Anion inhibition studies of two new β -carbonic anhydrases from the bacterial pathogen *Legionella pneumophila*. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 1127-32 2.9 44
- 380 A class of 4-sulfamoylphenyl- β -aminoalkyl ethers with effective carbonic anhydrase inhibitory action and antiglaucoma effects. *Journal of Medicinal Chemistry*, **2014**, 57, 9673-86 8.3 44
- 379 Molecular cloning, characterization, and inhibition studies of a β -carbonic anhydrase from *Malassezia globosa*, a potential antidandruff target. *Journal of Medicinal Chemistry*, **2012**, 55, 3513-20 8.3 44
- 378 Carbonic anhydrase activators: activation of the human tumor-associated isozymes IX and XII with amino acids and amines. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 3530-6 3.4 44
- 377 Crystal structure of 4-chlorocatechol 1,2-dioxygenase from the chlorophenol-utilizing gram-positive *Rhodococcus opacus* 1CP. *Journal of Biological Chemistry*, **2004**, 279, 27646-55 5.4 44
- 376 Carbonic anhydrase inhibitors: inhibition of human and murine mitochondrial isozymes V with anions. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 2857-61 2.9 44
- 375 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, 1564-9 3.4 43
- 374 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, 1170-7 8.3 43
- 373 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, 2298-311 3.4 43
- 372 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, 152-8 2.9 43

371	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with N-hydroxysulfamides--a new zinc-binding function in the design of inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2353-8	2.9	43
370	Anion inhibition studies of a β -carbonic anhydrase from <i>Clostridium perfringens</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 6706-10	2.9	42
369	Carbonic anhydrase inhibitors. Inhibition of the fungal beta-carbonic anhydrases from <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with boronic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 2642-5	2.9	42
368	Synthesis and crystallographic analysis of new sulfonamides incorporating NO-donating moieties with potent antiglaucoma action. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 3216-21	2.9	42
367	Carbonic anhydrase activators: the first activation study of the human secretory isoform VI with amino acids and amines. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 5351-7	3.4	42
366	Carbonic anhydrase inhibitors. Inhibition of isoforms I, II, IV, VA, VII, IX, and XIV with sulfonamides incorporating fructopyranose-thioureido tails. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 2685-91	2.9	42
365	Carbonic anhydrase inhibitors. Inhibition of the newly isolated murine isozyme XIII with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5435-9	2.9	42
364	Crystal structure of a zinc-activated variant of human carbonic anhydrase I, CA I Michigan 1: evidence for a second zinc binding site involving arginine coordination. <i>Biochemistry</i> , 2002 , 41, 6237-44	3.2	42
363	Mechanism of cyanamide hydration catalyzed by carbonic anhydrase II suggested by cryogenic X-ray diffraction. <i>Biochemistry</i> , 2000 , 39, 12391-7	3.2	42
362	Sulfonamide inhibition studies of two β -carbonic anhydrases from the bacterial pathogen <i>Legionella pneumophila</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 2939-46	3.4	41
361	SYNTHESIS AND CARBONIC ANHYDRASE INHIBITORY ACTIVITY OF 5-BENZOYLAMIDO- AND 5-(3-NITROBENZOYLAMIDO)- 1,3,4-THIADIAZOLE-2-SULFONAMIDE AND THEIR METAL COMPLEXES. <i>Main Group Metal Chemistry</i> , 1997 , 20,	1.6	41
360	Carbonic anhydrase activators: an activation study of the human mitochondrial isoforms VA and VB with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1336-40	2.9	41
359	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with bis-sulfamates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 579-84	2.9	41
358	Modulation of carbonic anhydrase 9 (CA9) in human brain cancer. <i>Current Pharmaceutical Design</i> , 2010 , 16, 3288-99	3.3	40
357	Cloning, polymorphism, and inhibition of beta-carbonic anhydrase of <i>Helicobacter pylori</i> . <i>Journal of Gastroenterology</i> , 2008 , 43, 849-57	6.9	40
356	Antifungal activity of silver and zinc complexes of sulfadrag derivatives incorporating arylsulfonylureido moieties. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 11, 99-107	5.1	40
355	2D 1H NMR studies of oxidized 2(Fe4S4) ferredoxin from <i>Clostridium pasteurianum</i> . <i>FEBS Letters</i> , 1991 , 289, 253-6	3.8	40
354	Non-peptidic chemokine receptors antagonists as emerging anti-HIV agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 69-76	5.6	39

- 353 Purification and catalytic properties of two catechol 1,2-dioxygenase isozymes from benzoate-grown cells of *Acinetobacter radioresistens*. *The Protein Journal*, **2000**, 19, 709-16 39
- 352 Carbonic anhydrase inhibitors: synthesis of sulfonamides incorporating 2,4,6-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. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 5086-90 39
- 351 Sulfonamides incorporating fluorine and 1,3,5-triazine moieties are effective inhibitors of three Eclass carbonic anhydrases from *Mycobacterium tuberculosis*. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2014**, 29, 686-9 5.6 38
- 350 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, 5086-90 2.9 38
- 349 Crystal structure of the hydroxyquinol 1,2-dioxygenase from *Nocardioides simplex* 3E, a key enzyme involved in polychlorinated aromatics biodegradation. *Journal of Biological Chemistry*, **2005**, 280, 21144-54 5.4 38
- 348 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, 1937-42 2.9 38
- 347 Discovery of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDs-CAIs) for the Management of Rheumatoid Arthritis. *Journal of Medicinal Chemistry*, **2018**, 61, 4961-4977 8.3 37
- 346 Salen and tetrahydrosalen derivatives act as effective inhibitors of the tumor-associated carbonic anhydrase XII—a new scaffold for designing isoform-selective inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 6759-63 2.9 37
- 345 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, 256-60 2.9 37
- 344 Catechol 1,2-dioxygenase from the Gram-positive *Rhodococcus opacus* 1CP: quantitative structure/activity relationship and the crystal structures of native enzyme and catechols adducts. *Journal of Structural Biology*, **2010**, 170, 548-64 3.4 36
- 343 Salicylate 1,2-dioxygenase from *Pseudaminobacter salicylatoxidans*: crystal structure of a peculiar ring-cleaving dioxygenase. *Journal of Molecular Biology*, **2008**, 380, 856-68 6.5 36
- 342 Carbonic anhydrase inhibitors: cloning and sulfonamide inhibition studies of a carboxyterminal truncated alpha-carbonic anhydrase from *Helicobacter pylori*. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 2182-8 2.9 36
- 341 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, 3757-62 2.9 36
- 340 Hydroxyurea is a carbonic anhydrase inhibitor. *Bioorganic and Medicinal Chemistry*, **2003**, 11, 2241-6 3.4 36
- 339 Proton NMR studies of the oxidized and partially reduced 2(4Fe-4S) ferredoxin from *Clostridium pasteurianum*. *Inorganic Chemistry*, **1990**, 29, 1874-1880 5.1 36
- 338 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, 4894-9 3.4 35
- 337 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, 1855-7 2.9 35
- 336 Inhibition of the R1 fragment of the cadmium-containing zeta-class carbonic anhydrase from the diatom *Thalassiosira weissflogii* with anions. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 4745-8² 2.9 35

335	Sulfenamido-sulfonamides as inhibitors of carbonic anhydrase isozymes I, II and IV. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1997 , 12, 175-90		35
334	Carbonic anhydrase inhibitors: binding of an antiglaucoma glycosyl-sulfanilamide derivative to human isoform II and its consequences for the drug design of enzyme inhibitors incorporating sugar moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1726-31	2.9	35
333	Carbonic anhydrase inhibitors: thioxolone versus sulfonamides for obtaining isozyme-selective inhibitors?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 3938-41	2.9	35
332	Carbonic anhydrase inhibitors: copper(II) complexes of polyamino-polycarboxylamido aromatic/heterocyclic sulfonamides are very potent inhibitors of the tumor-associated isoforms IX and XII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 836-41	2.9	35
331	Transition metal acetylsalicylates and their anti-inflammatory activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 87-91	5.6	35
330	Carbonic Anhydrase Inhibitors. Synthesis of Topically Effective Intraocular Pressure Lowering Agents Derived from 5-(β Amino-Alkylcarboxamido)-1,3,4-Thia-Diazole-2-Sulfonamide. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1999 , 15, 23-46		35
329	Plasmonic Particles that Hit Hypoxic Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 316-323	15.6	34
328	Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 2368-76	3.4	34
327	Molecular modeling study for the binding of zonisamide and topiramate to the human mitochondrial carbonic anhydrase isoform VA. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 4152-8	3.4	34
326	Carbonic anhydrase inhibitors. Interaction of the antiepileptic drug sulthiame with twelve mammalian isoforms: kinetic and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 4866-72	2.9	34
325	N-hydroxyurea--a versatile zinc binding function in the design of metalloenzyme inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 4316-20	2.9	34
324	Synthesis of Biologically Active Co(II), Cu(II), Ni(II) and Zn(II) Complexes of Symmetrically 1,1'-Disubstituted Ferrocene-Derived Compounds. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2003 , 33, 241-257		34
323	Protease inhibitors: synthesis of a series of bacterial collagenase inhibitors of the sulfonyl amino acyl hydroxamate type. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 2253-8	8.3	34
322	Binding sites of anions in superoxide dismutase. <i>Journal of the American Chemical Society</i> , 1981 , 103, 7779-7783	16.4	34
321	Single crystal electronic spectra and ligand field parameters of some nickel(II) amine-isothiocyanato and amine-nitrito complexes. <i>Inorganic Chemistry</i> , 1976 , 15, 203-207	5.1	34
320	Kinetic and anion inhibition studies of a β carbonic anhydrase (FbiCA 1) from the C4 plant <i>Flaveria bidentis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 1626-30	2.9	33
319	Carbonic anhydrase inhibitors. Phenacetyl-, pyridylacetyl- and thienylacetyl-substituted aromatic sulfonamides act as potent and selective isoform VII inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3170-3	2.9	33
318	Carbonic anhydrase inhibitors. Inhibition of transmembrane isozymes XII (cancer-associated) and XIV with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1532-7	2.9	33

317	Carbonic anhydrase activators: activation of the archaeal beta-class (Cab) and gamma-class (Cam) carbonic anhydrases with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 6194-8	2.9	33
316	Crystal structure of 3-chlorocatechol 1,2-dioxygenase key enzyme of a new modified ortho-pathway from the Gram-positive <i>Rhodococcus opacus</i> 1CP grown on 2-chlorophenol. <i>Journal of Molecular Biology</i> , 2006 , 360, 788-99	6.5	33
315	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a bis-sulfonamide-two heads are better than one?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 2759-63	2.9	33
314	Carbonic anhydrase inhibitors: synthesis of N-morpholythiocarbonylsulfonylamino aromatic/heterocyclic sulfonamides and their interaction with isozymes I, II and IV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 1117-20	2.9	33
313	Sulfonamide inhibition studies of the β -carbonic anhydrase from the Antarctic cyanobacterium <i>Nostoc commune</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1728-34	3.4	32
312	Sulfonamide inhibition study of the carbonic anhydrases from the bacterial pathogen <i>Porphyromonas gingivalis</i> : the β -class (PgiCAb) versus the α -class (PgiCA) enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 4537-43	3.4	32
311	Tricyclic sulfonamides incorporating benzothioapyrano[4,3-c]pyrazole and pyridothioapyrano[4,3-c]pyrazole effectively inhibit β - and α -carbonic anhydrase: X-ray crystallography and solution investigations on 15 isoforms. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 9619-29	8.3	32
310	Carbonic anhydrase inhibitors. Cloning, characterization and inhibition studies of the cytosolic isozyme III with anions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24, 70-6	5.6	32
309	Carbonic anhydrase inhibitors. Inhibition studies of the human secretory isoform VI with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1037-42	2.9	32
308	Carbonic anhydrase inhibitors: synthesis and topical intraocular pressure lowering effects of fluorine-containing inhibitors devoid of enhanced reactivity. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 2796-804	8.3	32
307	Carbonic anhydrase inhibitors: inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with benzo[b]thiophene 1,1-dioxide sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4872-6	2.9	32
306	Carbonic anhydrase activators. Part 24. High affinity isozymes I, II and IV activators, derivatives of 4-(4-chlorophenylsulfonylureido-amino acyl)ethyl-1H-imidazole. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 10, 29-41	5.1	32
305	X-ray absorption studies on catechol 2,3-dioxygenase from <i>Pseudomonas putida</i> mt2. <i>Biochemistry</i> , 1994 , 33, 10777-84	3.2	32
304	Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of 5-amino-1,3,4-thiadiazole-2-sulfonamide and 5-(4-amino-3-chloro-5-fluorophenylsulfonamido)-1,3,4-thiadiazole-2-sulfonamide to human isoform II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 6264-8	2.9	31
303	Benzolamide is not a membrane-impermeant carbonic anhydrase inhibitor. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 269-73	5.6	31
302	Carbonic anhydrase inhibitors: synthesis of water soluble sulfonamides incorporating a 4-sulfamoylphenylmethylthiourea scaffold, with potent intraocular pressure lowering properties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 333-43	5.6	31
301	Novel carbonic anhydrase isozymes I, II and IV activators incorporating sulfonyl-histamino moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999 , 9, 2043-8	2.9	31
300	New advances in HIV entry inhibitors development. <i>Current Drug Targets Infectious Disorders</i> , 2004 , 4, 339-55		31

299	Inhibition of carbonic anhydrase IX: a new strategy against cancer. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2009 , 9, 693-702	2.2	31
298	6-Substituted 1,2-benzoxathiine-2,2-dioxides are isoform-selective inhibitors of human carbonic anhydrases IX, XII and VA. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 77-80	3.9	30
297	Carbonic anhydrase inhibitors: the X-ray crystal structure of ethoxzolamide complexed to human isoform II reveals the importance of thr200 and gln92 for obtaining tight-binding inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2669-74	2.9	30
296	Carbonic anhydrase inhibitors: topically acting antiglaucoma sulfonamides incorporating esters and amides of 3- and 4-carboxybenzolamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 2867-73	2.9	30
295	Carbonic anhydrase inhibitors. Inhibition of isozymes I, II, IV, V, and IX with anions isosteric and isoelectronic with sulfate, nitrate, and carbonate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 567-71	2.9	30
294	4-toluenesulfonylureido derivatives of amines, amino acids and dipeptides: a novel class of potential antitumor agents. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 11, 325-32	5.1	30
293	Ligand field interpretation of high-spin trigonal-bipyramidal cobalt(II) complexes. <i>Inorganic Chemistry</i> , 1975 , 14, 812-815	5.1	30
292	Inhibition of Eclass cytosolic human carbonic anhydrases I, II, IX and XII, and Eclass fungal enzymes by carboxylic acids and their derivatives: new isoform-I selective nanomolar inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 5801-6	2.9	29
291	Carbonic anhydrase inhibitors. Inhibition studies of a coral secretory isoform by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 5054-8	3.4	29
290	Laccase isoforms with unusual properties from the basidiomycete <i>Steccherinum ochraceum</i> strain 1833. <i>Journal of Applied Microbiology</i> , 2008 , 105, 2065-75	4.7	29
289	Carbonic anhydrase activators: Activation of the human cytosolic isozyme III and membrane-associated isoform IV with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4303-7	2.9	29
288	Protein tyrosine kinase inhibitors as anticancer agents. <i>Expert Opinion on Therapeutic Patents</i> , 2004 , 14, 35-53	6.8	29
287	Therapeutic applications of sulfamates. <i>Expert Opinion on Therapeutic Patents</i> , 2004 , 14, 1273-1308	6.8	29
286	Cysteine-modifying agents: a possible approach for effective anticancer and antiviral drugs. <i>Environmental Health Perspectives</i> , 2002 , 110 Suppl 5, 801-6	8.4	29
285	Carbonic anhydrase inhibitors. Inhibition of the membrane-bound human and bovine isozymes IV with sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 1149-54	2.9	29
284	Protease inhibitors: synthesis and QSAR study of novel classes of nonbasic thrombin inhibitors incorporating sulfonylguanidine and O-methylsulfonylisourea moieties at P1. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 1793-806	8.3	29
283	Sulfonamide inhibition studies of the Ecarbonic anhydrase from the Antarctic bacterium <i>Pseudoalteromonas haloplanktis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3550-5	2.9	28
282	Novel small molecule protein arginine deiminase 4 (PAD4) inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 715-9	2.9	28

281	Carbonic Anhydrases Possess Thioesterase Activity. <i>ACS Medicinal Chemistry Letters</i> , 2015 , 6, 292-5	4.3	28
280	Carbonic anhydrase inhibitors. Inhibition of the β -class enzymes from the fungal pathogens <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with branched aliphatic/aromatic carboxylates and their derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2521-6	2.9	28
279	Carbonic anhydrase inhibitors: design of membrane-impermeant copper(II) complexes of DTPA-, DOTA-, and TETA-tailed sulfonamides targeting the tumor-associated transmembrane isoform IX. <i>ChemMedChem</i> , 2008 , 3, 1780-8	3.7	28
278	3D QSAR selectivity analyses of carbonic anhydrase inhibitors: insights for the design of isozyme selective inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 2737-60	6.1	28
277	Antibacterial cobalt(II), nickel(II) and zinc(II) complexes of nicotinic acid-derived Schiff-bases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 101-6	5.6	28
276	Protease inhibitors - part 5. Alkyl/arylsulfonyl- and arylsulfonylureido-/arylureido- glycine hydroxamate inhibitors of <i>Clostridium histolyticum</i> collagenase. <i>European Journal of Medicinal Chemistry</i> , 2000 , 35, 299-307	6.8	28
275	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). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 139-61		28
274	Carbonic anhydrase inhibitors: inhibition of isozymes I, II and IV by sulfamide and sulfamic acid derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 443-53		28
273	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?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1999 , 14, 457-74		28
272	Superoxide dismutase-thiocyanate: a study of the binding sites of anions on copper(II) in superoxide dismutase. <i>Journal of the American Chemical Society</i> , 1980 , 102, 7349-7353	16.4	28
271	Interaction of cobalt-bovine carbonic anhydrase with the acetate ion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1976 , 452, 239-44	3.8	28
270	Anion inhibition study of the β -class carbonic anhydrase (PgiCAb) from the oral pathogen <i>Porphyromonas gingivalis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4402-4406	2.9	27
269	Inhibition of beta-carbonic anhydrases from the bacterial pathogen <i>Brucella suis</i> with inorganic anions. <i>Journal of Inorganic Biochemistry</i> , 2012 , 110, 36-9	4.2	27
268	Differential decolorization of textile dyes in mixtures and the joint effect of laccase and cellobiose dehydrogenase activities present in extracellular extracts from <i>Funalia trogii</i> . <i>Enzyme and Microbial Technology</i> , 2011 , 49, 465-71	3.8	27
267	Carbonic anhydrase inhibitors: inhibition studies of a coral secretory isoform with inorganic anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 650-3	2.9	27
266	Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isoforms I and II and transmembrane, tumor-associated isoforms IX and XII with boronic acids. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 3649-52	3.4	27
265	Carbonic anhydrase inhibitors. Inhibition of the Rv1284 and Rv3273 beta-carbonic anhydrases from <i>Mycobacterium tuberculosis</i> with diazenylbenzenesulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 4929-32	2.9	27
264	Carbonic anhydrase activators. Part 17. Synthesis and activation study of a series of 1-(1,2,4-triazole-(1H)-3-yl)-2,4,6-trisubstituted-pyridinium salts against isozymes I, II and IV. <i>European Journal of Medicinal Chemistry</i> , 1997 , 32, 911-918	6.8	27

- 263 Carbonic anhydrase inhibitors: ureido and thioureido derivatives of aromatic sulfonamides possessing increased affinities for isozyme I. A novel route to 2,5-disubstituted-1,3,4-thiadiazoles via thioureas, and their interaction with isozymes I, II and IV. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **1998**, 13, 103-23 27
- 262 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, 1538-43 2.9 27
- 261 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, 3933-40 3.4 27
- 260 Carbonic anhydrase activators - part 21. Novel activators of isozymes I, II and IV incorporating carboxamido and ureido histamine moieties. *European Journal of Medicinal Chemistry*, **2000**, 35, 31-9 6.8 27
- 259 Evidence of exchangeable protons in the donor groups of the acidic form of cobalt bovine carbonic anhydrase B. *Biochemical and Biophysical Research Communications*, **1977**, 78, 158-60 3.4 27
- 258 Interaction of cobalt(II) bovine carbonic anhydrase with aniline, benzoate, and anthranilate. *Journal of the American Chemical Society*, **1977**, 99, 581-4 16.4 27
- 257 Role of surfactants in optimizing fluorene assimilation and intermediate formation by *Rhodococcus rhodochrous* VKM B-2469. *Bioresource Technology*, **2009**, 100, 839-44 11 26
- 256 Inhibition of β -carbonic anhydrases with ureido-substituted benzenesulfonamides. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 102-5 2.9 26
- 255 Carbonic anhydrase inhibitors. The beta-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, 2508-11 2.9 26
- 254 Carbonic Anhydrase Inhibitors. Part 46 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 26
- 253 Carbonic anhydrase inhibitors: inhibition of the cytosolic human isozyme VII with anions. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 3139-43 2.9 26
- 252 Carbonic anhydrase inhibitors: inhibition of the membrane-bound human isozyme IV with anions. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 5769-73 2.9 26
- 251 Protease inhibitors. Part 7. Inhibition of *Clostridium histolyticum* collagenase with sulfonylated derivatives of L-valine hydroxamate. *European Journal of Pharmaceutical Sciences*, **2000**, 10, 67-76 5.1 26
- 250 Carbonic anhydrase inhibitors: inhibition of isozymes I, II and IV with N-hydroxysulfonamides—a novel class of intraocular pressure lowering agents. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **1998**, 13, 267-84 26
- 249 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, 407-23 26
- 248 The acid-base equilibria of carbonic anhydrase. *Inorganica Chimica Acta*, **1980**, 46, 85-89 2.7 26
- 247 Cloning, characterization and anion inhibition studies of a new β -carbonic anhydrase from the Antarctic bacterium *Pseudoalteromonas haloplanktis*. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4403-4409²⁵ 3.4 25
- 246 Furazan and furoxan sulfonamides are strong β -carbonic anhydrase inhibitors and potential antiglaucoma agents. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 3913-21 3.4 25

245	Protein-protein interactions: inhibition of mammalian carbonic anhydrases I-XV by the murine inhibitor of carbonic anhydrase and other members of the transferrin family. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 5529-35	8.3	25
244	Pyridinium derivatives of histamine are potent activators of cytosolic carbonic anhydrase isoforms I, II and VII. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 2790-800	3.9	25
243	An inhibitor-like binding mode of a carbonic anhydrase activator within the active site of isoform II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2764-8	2.9	25
242	Carbonic anhydrase inhibitors. Inhibition studies with anions and sulfonamides of a new cytosolic enzyme from the scleractinian coral <i>Stylophora pistillata</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 710-4	2.9	25
241	Sulfonylamido derivatives of aminoglutethimide and their copper(II) complexes: a novel class of antifungal compounds. <i>European Journal of Medicinal Chemistry</i> , 1997 , 32, 901-910	6.8	25
240	A ternary complex of carbonic anhydrase: X-ray crystallographic structure of the adduct of human carbonic anhydrase II with the activator phenylalanine and the inhibitor azide. <i>Inorganica Chimica Acta</i> , 1998 , 275-276, 295-300	2.7	25
239	External pH influences the transcriptional profile of the carbonic anhydrase, CAH-4b in <i>Caenorhabditis elegans</i> . <i>Molecular and Biochemical Parasitology</i> , 2008 , 161, 140-9	1.9	25
238	Carbonic anhydrase inhibitors. Design of anticonvulsant sulfonamides incorporating indane moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5781-6	2.9	25
237	Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozymes IX and XII with a library of aromatic and heteroaromatic sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4862-8	2.8	25
236	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3821-7	2.9	25
235	Protease inhibitors. Part 8: synthesis of potent <i>Clostridium histolyticum</i> collagenase inhibitors incorporating sulfonylated L-alanine hydroxamate moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 637-45	3.4	25
234	Carbonic anhydrase activators: amino acyl/dipeptidyl histamine derivatives bind with high affinity to isozymes I, II and IV and act as efficient activators. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 2915-23	3.4	25
233	¹ H NOE studies of oxidized high potential iron sulfur protein II from <i>Ectothiorhodospira halophila</i> . <i>Inorganica Chimica Acta</i> , 1991 , 180, 171-175	2.7	25
232	Reaction intermediates and redox state changes in a blue laccase from <i>Steccherinum ochraceum</i> observed by crystallographic high/low X-ray dose experiments. <i>Journal of Inorganic Biochemistry</i> , 2012 , 111, 203-9	4.2	24
231	Crystal structures of salicylate 1,2-dioxygenase-substrates adducts: A step towards the comprehension of the structural basis for substrate selection in class III ring cleaving dioxygenases. <i>Journal of Structural Biology</i> , 2012 , 177, 431-8	3.4	24
230	Characterization of an intradiol dioxygenase involved in the biodegradation of the chlorophenoxy herbicides 2,4-D and 2,4,5-T. <i>FEBS Letters</i> , 1997 , 407, 69-72	3.8	24
229	Complexes With Biologically Active Ligands. Part 10 Inhibition of Carbonic Anhydrase Isozymes I and II With Metal Complexes of Imidazo[2,1-b]-1,3,4-Thiadiazole-2-Sulfonamide. <i>Metal-Based Drugs</i> , 1997 , 4, 19-26		24
228	Carbonic anhydrase inhibitors: Selective inhibition of the extracellular, tumor-associated isoforms IX and XII over isozymes I and II with glycosyl-thioureido-sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 5096-100	2.9	24

227	Protease inhibitors: synthesis of clostridium histolyticum collagenase inhibitors incorporating sulfonyl-L-alanine hydroxamate moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 499-502	2.9	24
226	Antifungal activity of Ag(I) and Zn(II) complexes of aminobenzolamide (5-sulfanilylamido-1,3,4-thiadiazole-2-sulfonamide) derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 517-31		24
225	Dipotassium-trioxohydroxytetrafluorotriborate, $K_2[B_3O_6(OH)_3]$, is a potent inhibitor of human carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 341-4	5.6	23
224	Development and ex vivo evaluation of 5-aminolevulinic acid-loaded niosomal formulations for topical photodynamic therapy. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 258-63	6.5	23
223	Metalloenzyme inhibitors for the treatment of Gram-negative bacterial infections: a patent review (2009-2012). <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 777-88	6.8	23
222	Cloning, expression, post-translational modifications and inhibition studies on the latest mammalian carbonic anhydrase isoform, CA XV. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 646-54	8.3	23
221	Carbonic anhydrase inhibitors: inhibition of isozymes I, II and IV with heterocyclic mercaptans, sulfenamides, sulfonamides and their metal complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1998 , 13, 177-94		23
220	Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with phosphates, carbamoyl phosphate, and the phosphonate antiviral drug foscarnet. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5763-7	2.9	23
219	Transport characteristics of L-carnosine and the anticancer derivative 4-toluenesulfonylureido-carnosine in a human epithelial cell line. <i>Pharmaceutical Research</i> , 2002 , 19, 1337-44	4.5	23
218	Protease inhibitors: synthesis of bacterial collagenase and matrix metalloproteinase inhibitors incorporating arylsulfonylureido and 5-dibenzo-suberenyl/suberyl moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 2227-39	3.4	23
217	Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with organic phosphates and phosphonates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 1683-6	2.9	23
216	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating thioureido-sulfanilyl scaffolds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2359-64	2.9	23
215	Therapeutic applications of serine protease inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2002 , 12, 1181-1214	6.8	23
214	Aliphatic and aromatic inhibitors binding to the active site of catechol 2,3-dioxygenase from <i>Pseudomonas putida</i> mt-2. <i>FEBS Letters</i> , 1994 , 343, 56-60	3.8	23
213	Binding affinity of bicarboxylate ions for cobalt (II) bovine carbonic anhydrase. <i>Bioinorganic Chemistry</i> , 1978 , 9, 93-100		23
212	Anion inhibition study of the β -carbonic anhydrase (CahB1) from the cyanobacterium <i>Coleofasciculus chthonoplastes</i> (ex- <i>Microcoleus chthonoplastes</i>). <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1667-71	3.4	22
211	The salicylate 1,2-dioxygenase as a model for a conventional gentisate 1,2-dioxygenase: crystal structures of the G106A mutant and its adducts with gentisate and salicylate. <i>FEBS Journal</i> , 2013 , 280, 1643-52	5.7	22
210	Serendipitous fragment-based drug discovery: ketogenic diet metabolites and statins effectively inhibit several carbonic anhydrases. <i>Chemical Communications</i> , 2012 , 48, 3551-3	5.8	22

209	Metal binding functions in the design of carbonic anhydrase inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 835-48	3	22
208	Protease inhibitors: synthesis of matrix metalloproteinase and bacterial collagenase inhibitors incorporating 5-amino-2-mercapto-1,3,4-thiadiazole zinc binding functions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 2667-72	2.9	22
207	Agents that target cysteine residues of biomolecules and their therapeutic potential. <i>Expert Opinion on Therapeutic Patents</i> , 2001 , 11, 765-787	6.8	22
206	Advances in the NMR investigation of paramagnetic molecules in solution. <i>Coordination Chemistry Reviews</i> , 1992 , 120, 1-28	23.2	22
205	Static/dynamic distortions of the tris(1,2-diaminoethane)copper(II) cation [Cu(en) ₃] ²⁺ . Crystal structures of the salts [Cu(en) ₃][SO ₄] at 120 K and of [Cu(en) ₃]Cl ₂ ·0.75 en at 298 K. <i>Journal of the Chemical Society Dalton Transactions</i> , 1979 , 1409-1414		22
204	Inhibition studies of new ureido-substituted sulfonamides incorporating a GABA moiety against human carbonic anhydrase isoforms I-XIV. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 6768-75	3.4	21
203	Carbonic anhydrase activators: activation of human isozymes I, II and IX with phenylsulfonylhydrazido l-histidine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 2440-3	2.9	21
202	Carbonic anhydrase inhibitors: synthesis and inhibition studies against mammalian isoforms I-XV with a series of 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 9113-20	3.4	21
201	Carbonic anhydrase inhibitors. Inhibition of cytosolic isozymes I and II and transmembrane, cancer-associated isozyme IX with lipophilic sulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 333-8	5.6	21
200	Carbonic anhydrase activators. The selective serotonin reuptake inhibitors fluoxetine, sertraline and citalopram are strong activators of isozymes I and II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 2765-8	2.9	21
199	Small molecule antagonists of chemokine receptors as emerging anti-HIV agents. <i>Expert Opinion on Therapeutic Patents</i> , 2001 , 11, 1245-1252	6.8	21
198	Carbonic anhydrase inhibitors: synthesis of Schiff bases of hydroxybenzaldehydes with aromatic sulfonamides and their reactions with arylsulfonyl isocyanates. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 533-46		21
197	Spectroscopic investigation of copper(II) bovine carbonic anhydrase and its inhibitor derivatives. <i>Journal of the Chemical Society Dalton Transactions</i> , 1978 , 1269		21
196	Synthesis of sulfonamides with effective inhibitory action against <i>Porphyromonas gingivalis</i> carbonic anhydrase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4006-10	2.9	20
195	Flavones and structurally related 4-chromenones inhibit carbonic anhydrases by a different mechanism of action compared to coumarins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 3063-69	2.9	20
194	Carbonic anhydrase I and II activation with mono- and dihalogenated histamine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4884-7	2.9	20
193	Antiglaucoma Carbonic Anhydrase Inhibitors as Ophthalmologic Drugs		139-153 20
192	Design, solid-phase synthesis, and biological evaluation of novel 1,5-diarylpyrrole-3-carboxamides as carbonic anhydrase IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 7392-401	3.4	20

191	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 999-1005	2.9	20
190	Carbonic anhydrase inhibitors: inhibition of the human transmembrane isozyme XIV with a library of aromatic/heterocyclic sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 6089-93	3.4	20
189	Biodegradation of 2-naphthalensulfonic acid polymers by white-rot fungi: Scale-up into non-sterile packed bed bioreactors. <i>Chemosphere</i> , 2016 , 164, 120-127	8.4	20
188	Inhibition of tumor-associated human carbonic anhydrase isozymes IX and XII by a new class of substituted-phenylacetamido aromatic sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 5228-32	3.4	19
187	Structural effect of phenyl ring compared to thiadiazole based adamantyl-sulfonamides on carbonic anhydrase inhibition. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 2314-2318	3.4	19
186	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. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008 , 23, 101-7	5.6	19
185	Indanesulfonamides as carbonic anhydrase inhibitors and anticonvulsant agents: structure-activity relationship and pharmacological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2008 , 43, 2853-60	6.8	19
184	Carbonic anhydrase inhibitors: inhibition of the human isozymes I, II, VA, and IX with a library of substituted difluoromethanesulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5192-6	2.9	19
183	Biophysical investigation of bacterial aromatic extradiol dioxygenases involved in biodegradation processes. <i>Coordination Chemistry Reviews</i> , 1995 , 144, 321-345	23.2	19
182	Inhibition of human carbonic anhydrase isoforms I-XIV with sulfonamides incorporating fluorine and 1,3,5-triazine moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 6929-36	3.4	18
181	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. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24, 499-505	5.6	18
180	Carbonic anhydrase inhibitors. Diazenylbenzenesulfonamides are potent and selective inhibitors of the tumor-associated isozymes IX and XII over the cytosolic isoforms I and II. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 7093-9	3.4	18
179	A thiabendazole sulfonamide shows potent inhibitory activity against mammalian and nematode alpha-carbonic anhydrases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 1371-5	2.9	18
178	Carbonic anhydrase activators: activation of the beta-carbonic anhydrases from the pathogenic fungi <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with amines and amino acids. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 1034-7	3.4	18
177	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 6332-5	2.9	18
176	Inhibitors of HIV-1 protease: 10 years after. <i>Expert Opinion on Therapeutic Patents</i> , 2006 , 16, 1067-1091	6.8	18
175	Carbonic anhydrase inhibitors. Preparation of potent sulfonamides inhibitors incorporating bile acid tails. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 1551-7	2.9	18
174	Carbonic anhydrase inhibitors. Inhibition of isozymes I, II, IV, V and IX with complex fluorides, chlorides and cyanides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 1909-13	2.9	18

- 173 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 18
- 172 Activation of carbonic anhydrase isozymes. *Exs*, **2000**, 197-219 18
- 171 A new class of inhibitors capable of binding both the acidic and alkaline forms of carbonic anhydrase. *Biochimica Et Biophysica Acta (BBA) - Protein Structure*, **1981**, 668, 16-26 18
- 170 Carbonic anhydrase activators: Activation of the beta-carbonic anhydrase from the pathogenic yeast *Candida glabrata* with amines and amino acids. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 1701-4 2.9 17
- 169 Efficient polycyclic aromatic hydrocarbons dihydroxylation in direct micellar systems. *Biotechnology and Bioengineering*, **2001**, 74, 240-8 4.9 17
- 168 Selective interaction of ferricyanide with cluster I of *Clostridium pasteurianum* 2[Fe₄S₄] ferredoxin. *FEBS Letters*, **1993**, 332, 268-72 3.8 17
- 167 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, 4752-8 3.4 16
- 166 Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7751-64 3.4 16
- 165 Carbonic anhydrase activators: activation of the beta-carbonic anhydrase Nce103 from the yeast *Saccharomyces cerevisiae* with amines and amino acids. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1662-5 2.9 16
- 164 Quantitative structure/activity relationship for the rate of conversion of C4-substituted catechols by catechol-1,2-dioxygenase from *Pseudomonas putida* (arvilla) C1. *FEBS Journal*, **1998**, 257, 92-100 16
- 163 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, 6742-7 3.4 16
- 162 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, 211-7 5.6 16
- 161 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, 563-8 5.6 16
- 160 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, 2418-27 3.4 16
- 159 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 16
- 158 Complexes With Biologically Active Ligands. Part 6 Ni(II) Coordination Compounds of Hydrazine and Heterocyclic Sulfonamides as Inhibitors of the Zinc Enzyme Carbonic Anhydrase. *Metal-Based Drugs*, **1996**, 3, 143-8 16
- 157 Carbonic Anhydrase Interaction With Lipothioars Enites: A Novel Class of Isozymes I and II Inhibitors. *Metal-Based Drugs*, **1996**, 3, 263-8 16
- 156 Dithiocarbamates with potent inhibitory activity against the *Saccharomyces cerevisiae* carbonic anhydrase. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 132-6 5.6 15

155	Fluorescent sulfonamide carbonic anhydrase inhibitors incorporating 1,2,3-triazole moieties: Kinetic and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 104-12	3.4	15
154	Anion inhibition studies of two α -carbonic anhydrases from <i>Lotus japonicus</i> , LjCAA1 and LjCAA2. <i>Journal of Inorganic Biochemistry</i> , 2014 , 136, 67-72	4.2	15
153	Effect of carbon source on the degradation of 2-naphthalenesulfonic acid polymers mixture by <i>Pleurotus ostreatus</i> in petrochemical wastewater. <i>Process Biochemistry</i> , 2014 , 49, 2272-2278	4.8	15
152	Carbonic anhydrase inhibitors. The nematode α -carbonic anhydrase of <i>Caenorhabditis elegans</i> CAH-4b is highly inhibited by 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 3212-5	3.4	15
151	3-phenyl-1H-indole-5-sulfonamides: structure-based drug design of a promising class of carbonic anhydrase inhibitors. <i>Current Pharmaceutical Design</i> , 2010 , 16, 3317-26	3.3	15
150	Functionalized Derivatives of Benzocrown Ethers, II. Supramolecular Complexes of L-Amino Acids as Efficient Activators of the Zinc Enzyme Carbonic Anhydrase. <i>Liebigs Annalen</i> , 1997 , 1997, 1853-1859		15
149	Combined action of a bacterial monooxygenase and a fungal laccase for the biodegradation of mono- and poly-aromatic hydrocarbons. <i>Bioresource Technology</i> , 2008 , 99, 8353-9	11	15
148	Carbonic anhydrase inhibitors: inhibition of human cytosolic isozyme II and mitochondrial isozyme V with a series of benzene sulfonamide derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5703-7	2.9	15
147	Protease inhibitors. Part 12. Synthesis of potent matrix metalloproteinase and bacterial collagenase inhibitors incorporating sulfonylated N-4-nitrobenzyl-beta-alanine hydroxamate moieties. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 11, 69-79	5.1	15
146	Carbonic anhydrase inhibitors. Part 91. Metal complexes of heterocyclic sulfonamides as potential pharmacological agents in the treatment of gastric Acid secretion imbalances. <i>Metal-Based Drugs</i> , 2000 , 7, 57-62		15
145	Carbonic anhydrase inhibitors. Part 79. Synthesis of topically acting sulfonamides incorporating GABA moieties in their molecule, with long-lasting intraocular pressure-lowering properties. <i>European Journal of Pharmaceutical Sciences</i> , 1999 , 9, 185-99	5.1	15
144	Single crystal ESR study of the Cu(en)3SO4 complex. <i>Inorganica Chimica Acta</i> , 1974 , 11, L17-L19	2.7	15
143	Synthesis and inhibition potency of novel ureido benzenesulfonamides incorporating GABA as tumor-associated carbonic anhydrase IX and XII inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 205-11	5.6	14
142	Peptidomimetics as protein arginine deiminase 4 (PAD4) inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 466-71	5.6	14
141	Inhibition of V-ATPase and carbonic anhydrases as interference strategy with tumor acidification processes. <i>Current Pharmaceutical Design</i> , 2012 , 18, 1407-13	3.3	14
140	XAS characterization of the active sites of novel intradiol ring-cleaving dioxygenases: hydroxyquinol and chlorocatechol dioxygenases. <i>FEBS Letters</i> , 1998 , 433, 58-62	3.8	14
139	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 2795-801	2.9	14
138	Carbonic anhydrase inhibitors: design of spin-labeled sulfonamides incorporating TEMPO moieties as probes for cytosolic or transmembrane isozymes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 3475-80	2.9	14

- 137 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, 3327-31 2.9 14
- 136 Antimycobacterial activity of 3,4-dichlorophenyl-ureas, N,N-diphenyl-ureas and related derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2001**, 16, 425-32 14
- 135 Carbonic anhydrase inhibitors: the membrane-associated isoform XV is highly inhibited by inorganic anions. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1155-8 2.9 13
- 134 Evaluation of an FIA Operated Amperometric Bacterial Biosensor, Based on *Pseudomonas Putida* F1 for the Detection of Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). *Analytical Letters*, **2005**, 38, 1531-1547 2.2 13
- 133 Cyclodextrin complexes of sulfonamide carbonic anhydrase inhibitors as long-lasting topically acting antiglaucoma agents. *Journal of Pharmaceutical Sciences*, **2002**, 91, 2211-9 3.9 13
- 132 Design of weakly basic thrombin inhibitors incorporating novel P1 binding functions: molecular and X-ray crystallographic studies. *Biochemistry*, **2003**, 42, 9013-21 3.2 13
- 131 Protease inhibitors: synthesis of bacterial collagenase and matrix metalloproteinase inhibitors incorporating succinyl hydroxamate and iminodiacetic acid hydroxamate moieties. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2003**, 18, 233-42 5.6 13
- 130 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, 471-86 13
- 129 Polymetallic macromolecules are potential contrast agents of improved efficiency. *Magnetic Resonance in Medicine*, **1994**, 31, 58-60 4.4 13
- 128 Proton magnetic resonance spectra of six-coordinate iron(II), cobalt(II), and nickel(II) complexes with pyridine-n-oxide and benzamide. *Inorganica Chimica Acta*, **1972**, 6, 185-187 2.7 13
- 127 Carbonic Anhydrase Activators **2004**, 317-352 13
- 126 Kinetic and X-ray crystallographic investigations of substituted 2-thio-6-oxo-1,6-dihydropyrimidine-benzenesulfonamides acting as carbonic anhydrase inhibitors. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3643-8 3.4 12
- 125 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, 2931-4 2.9 12
- 124 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, 2975-9 2.9 12
- 123 The antifungal activity of sulfonylamido derivatives of 2-aminophenoxathiin and related compounds. *European Journal of Medicinal Chemistry*, **1998**, 33, 821-830 6.8 12
- 122 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, 419-42 12
- 121 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, 125-33 12
- 120 Paramagnetic Metal Centers in Proteins Investigated through Heterocorrelated NMR Spectroscopy. *Journal of Magnetic Resonance Series B*, **1994**, 104, 95-98 12

119	1H NMR studies of Chromatium vinosum cytochrome c 1990 , 282, 84-90	4.1	12
118	Single crystal polarized electronic spectra of a five-coordinate macrocyclic complex of nickel(II). <i>Inorganica Chimica Acta</i> , 1977 , 21, 223-227	2.7	12
117	Carbonic Anhydrase Inhibitors in Dermatology 2004 , 303-315		12
116	The metal-binding properties of ovotransferrin. An investigation of cobalt(II) derivatives.. <i>Journal of Biological Chemistry</i> , 1986 , 261, 1139-1146	5.4	12
115	Sulphonamide inhibition studies of the β carbonic anhydrase from the bacterial pathogen <i>Clostridium perfringens</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 31-36	5.6	12
114	Dioxygen, an unexpected carbonic anhydrase ligand. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 999-1005	5.6	12
113	Sulfonamide inhibition studies of the β carbonic anhydrase from the Antarctic bacterium <i>Colwellia psychrerythraea</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 1253-9	2.9	11
112	The generation of a 1-hydroxy-2-naphthoate 1,2-dioxygenase by single point mutations of salicylate 1,2-dioxygenase--rational design of mutants and the crystal structures of the A85H and W104Y variants. <i>Journal of Structural Biology</i> , 2012 , 180, 563-71	3.4	11
111	Enzymatic decolorization of spent textile dyeing baths composed by mixtures of synthetic dyes and additives. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 395-405	5.7	11
110	Synthesis of rhodamine B-benzenesulfonamide conjugates and their inhibitory activity against human β and bacterial/fungal β carbonic anhydrases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5210-3	2.9	11
109	Carbonic anhydrase activators. Activation of the membrane-associated isoform XV with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3430-3	2.9	11
108	QSAR studies for the inhibition of the transmembrane carbonic anhydrase isozyme XIV with sulfonamides using PRECLAV software. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24, 337-49	5.6	11
107	Targeting Bacterial Metalloenzymes: A New Strategy for the Development of Anti-Infective Agents. <i>Anti-Infective Agents in Medicinal Chemistry</i> , 2008 , 7, 169-179		11
106	Carbonic anhydrase inhibitors with strong topical antiglaucoma properties incorporating a 4-(2-aminopyrimidin-4-yl-amino)-benzenesulfonamide scaffold. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 9-18	5.6	11
105	Carbonic anhydrase inhibitors - part 78(#). Synthesis of water-soluble sulfonamides incorporating beta-alanyl moieties, possessing long lasting-intraocular pressure lowering properties via the topical route. <i>European Journal of Medicinal Chemistry</i> , 2000 , 35, 309-21	6.8	11
104	Carbonic anhydrase inhibitors [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. <i>European Journal of Medicinal Chemistry</i> , 1999 , 34, 799-808	6.8	11
103	Carbonic anhydrase inhibitors. Part 60(#). The topical intraocular pressure-lowering properties of metal complexes of a heterocyclic sulfonamide: influence of the metal ion upon biological activity. <i>European Journal of Medicinal Chemistry</i> , 1999 , 34, 585-95	6.8	11
102	Protease inhibitors - Part 3. Synthesis of non-basic thrombin inhibitors incorporating pyridinium-sulfanilylguanidine moieties at the P1 site. <i>European Journal of Medicinal Chemistry</i> , 1999 , 34, 939-952	6.8	11

101	The unusual behavior of the inhibitor S(+)(1-amino-2-phenylethyl)phosphonic acid towards carboxypeptidase A. <i>Journal of Inorganic Biochemistry</i> , 1990 , 40, 227-35	4.2	11
100	Characterization of oxovanadium(IV) substituted bovine carbonic anhydrase B. <i>Inorganica Chimica Acta</i> , 1979 , 36, 9-12	2.7	11
99	Carbon-13 longitudinal relaxation times of acetate ion in the presence of metal-substituted bovine carbonic anhydrases. <i>Journal of the Chemical Society Dalton Transactions</i> , 1977 , 1962		11
98	Stereochemistry of cobalt(II) in cobalt bovine carbonic anhydrase and its derivatives. <i>Inorganica Chimica Acta</i> , 1977 , 22, L23-L24	2.7	11
97	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. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 4560-4565	3.4	10
96	Sulfonamide inhibition studies of the α -carbonic anhydrase from <i>Drosophila melanogaster</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 2797-801	2.9	10
95	Carbonic anhydrase inhibitors: binding of indanesulfonamides to the human isoform II. <i>ChemMedChem</i> , 2008 , 3, 473-7	3.7	10
94	Protease inhibitors: Synthesis of L-alanine hydroxamate sulfonylated derivatives as inhibitors of clostridium histolyticum collagenase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 111-28		10
93	Crystallization and preliminary crystallographic analysis of the hydroxyquinol 1,2-dioxygenase from <i>Nocardioides simplex</i> 3E: a novel dioxygenase involved in the biodegradation of polychlorinated aromatic compounds. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 901-3		10
92	Substrate, substrate analogue, and inhibitor interactions with the ferrous active site of catechol 2,3-dioxygenase monitored through XAS studies. <i>FEBS Letters</i> , 1994 , 350, 207-12	3.8	10
91	A thermodynamic and spectroscopic study of the complexes of the undecapeptide Substance P, of its N-terminal fragment and of model pentapeptides containing two prolyl residues with copper ions. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991 , 1651		10
90	Ligand Field Parameters. <i>Israel Journal of Chemistry</i> , 1976 , 15, 189-199	3.4	10
89	Proton relaxation of water solutions containing copper carbonic anhydrase. <i>Inorganica Chimica Acta</i> , 1977 , 23, L15-L16	2.7	10
88	Cyclodextrin complexation highly enhances efficacy of arylsulfonylureido benzenesulfonamide carbonic anhydrase inhibitors as a topical antiglaucoma agents. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 6223-7	3.4	9
87	Structural modulation of the biological activity of gold nanoparticles functionalized with a carbonic anhydrase inhibitor. <i>European Physical Journal E</i> , 2013 , 36, 48	1.5	9
86	Zinc Binding Functions in the Design of Carbonic Anhydrase Inhibitors		9
85	Carbonic anhydrase inhibitors. Interaction of the antitumor sulfamate EMD 486019 with twelve mammalian carbonic anhydrase isoforms: Kinetic and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4282-6	2.9	9
84	Crystal analysis of aromatic sulfonamide binding to native and (Zn) ₂ adduct of human carbonic anhydrase I Michigan 1. <i>Inorganica Chimica Acta</i> , 2002 , 339, 135-144	2.7	9

83	Carbonic anhydrase inhibitors: allylsulfonamide, styrene sulfonamide, N-allyl sulfonamides and some of their Si, Ge, and B derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001 , 16, 475-89		9
82	Arylsulfonyl-N,N-dialkyl-dithiocarbamates as tumor cell growth inhibitors: novel agents targeting beta-tubulin?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001 , 16, 55-63		9
81	Direct micellar systems as a tool to improve the efficiency of aromatic substrate conversion for fine chemicals production. <i>Journal of Inorganic Biochemistry</i> , 2000 , 79, 103-8	4.2	9
80	Carbonic Anhydrase Inhibitors Part 72 Synthesis and Antiglaucoma Properties of Metal Complexes of p-Fluorobenzolamide. <i>Metal-Based Drugs</i> , 1999 , 6, 67-73		9
79	Interactions between alpha-amino acids and cobalt(II) bovine-carbonic anhydrase. <i>Bioinorganic Chemistry</i> , 1977 , 7, 225-31		9
78	A 31P NMR study of phosphate in presence of cobalt(II)- and copper(II)- substituted bovine carbonic anhydrase B. <i>FEBS Letters</i> , 1978 , 93, 251-4	3.8	9
77	X-ray structures of 4-chlorocatechol 1,2-dioxygenase adducts with substituted catechols: new perspectives in the molecular basis of intradiol ring cleaving dioxygenases specificity. <i>Journal of Structural Biology</i> , 2013 , 181, 274-82	3.4	8
76	¹ H NMR ganglioside ceramide resonance region on the differential diagnosis of low and high malignancy of brain gliomas. <i>Cellular and Molecular Neurobiology</i> , 1997 , 17, 521-35	4.6	8
75	Carbonic anhydrase inhibitors: aliphatic N-phosphorylated sulfamates--a novel zinc-anchoring group leading to nanomolar inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 275-8	5.6	8
74	Redox state and carbonic anhydrase isozyme IX expression in human renal cell carcinoma: biochemical and morphological investigations. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 287-91	5.6	8
73	Carbonic anhydrase inhibitors; phosphoryl-sulfonamides--a new class of high affinity inhibitors of isozymes I and II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 297-310		8
72	Density functional description of the early stages of the dioxygenation of [(MeC(CH ₂ PPh ₂) ₃)M(catecholate)] ⁺ complexes [M = Co(III), Ir(III)]: toward a rationalization of the catalytic mechanism of ring-opening dioxygenases. <i>Inorganic Chemistry</i> , 2000 , 39, 1418-25	5.1	8
71	Carbonic anhydrase inhibitors: synthesis and inhibition against isozymes I, II and IV of topically acting antiglaucoma sulfonamides incorporating cis-5-norbornene-endo-3-carboxy-2-carboxamido moieties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001 , 16, 113-23		8
70	Carbonic Anhydrase Inhibitors. Part 55 Metal Complexes of 1,3,4-Thiadiazole-2-Sulfonamide Derivatives: In Vitro Inhibition Studies With Carbonic Anhydrase Isozymes I, II and IV. <i>Metal-Based Drugs</i> , 1998 , 5, 103-14		8
69	EXAFS investigation on the iron(III) binding sites of hen phosvitin. <i>Inorganic Chemistry</i> , 1990 , 29, 124-127	5.1	8
68	CD and EXAFS study of the interaction between phosvitin and copper(II) ions. <i>Journal of Inorganic Biochemistry</i> , 1988 , 34, 221-239	4.2	8
67	The electronic spectra of cobalt(II) bovine carbonic anhydrase. <i>Inorganica Chimica Acta</i> , 1979 , 36, L431-L432		8
66	Different behavior of sulfonamides with respect to copper-substituted bovine and human carbonic anhydrases. <i>Journal of Inorganic Biochemistry</i> , 1982 , 16, 155-60	4.2	8

65	Evidence of exchangeable protons in the acidic form of manganese(II) bovine carbonic anhydrase B. <i>FEBS Letters</i> , 1978 , 87, 92-4	3.8	8
64	Phenylethynylbenzenesulfonamide regioisomers strongly and selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic isoforms I and II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5892-6	2.9	7
63	Purification and inhibition studies with anions and sulfonamides of an α -carbonic anhydrase from the Antarctic seal <i>Leptonychotes weddellii</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1847-51	3.4	7
62	Complexes with biologically active ligands. Part 9 metal complexes of 5-benzoylamino- and 5-(3-nitrobenzoyl-amino)-1,3,4-thiadiazole-2-sulfonamide as carbonic anhydrase inhibitors. <i>Metal-Based Drugs</i> , 1997 , 4, 1-7		7
61	Carbonic anhydrase inhibitors. Inhibition of human tumor-associated isozymes IX and cytosolic isozymes I and II with some 1,3,4-oxadiazole-thiols. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2006 , 21, 351-9	5.6	7
60	Nonionic Micelles Promote Whole Cell Bioconversion of Aromatic Substrates in an Aqueous Environment. <i>Langmuir</i> , 2002 , 18, 6015-6020	4	7
59	Sulfonylamido derivatives of 2-aminophenoxathiin-10,10-dioxide and related compounds possess antifungal action due to the possible inhibition of lanosterol-14- α -demethylase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1998 , 13, 291-310		7
58	Characterization of the biological conversion of naphthalene to (+)-cis-(1R,2S)-dihydroxy-1,2-dihydronaphthalene in direct micellar systems. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999 , 7, 263-272		7
57	Application of 2D 1H NMR spectroscopy to the study of the brain, spinal cord, and sciatic nerve. <i>Molecular and Chemical Neuropathology</i> , 1993 , 19, 1-13		7
56	Sulfonamide carbonic anhydrase inhibitors: Zinc coordination and tail effects influence inhibitory efficacy and selectivity for different isoforms. <i>Inorganica Chimica Acta</i> , 2018 , 470, 128-132	2.7	6
55	Drug Design Studies of Carbonic Anhydrase Activators		6
54	Carbonic anhydrase inhibitors: the very weak inhibitors dithiothreitol, beta-mercaptoethanol, tris(carboxyethyl)phosphine and threitol interfere with the binding of sulfonamides to isozymes II and IX. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 1898-903	2.9	6
53	Density functional characterization of the chemoselective oxidation of catechol by using molecular oxygen: thermodynamics of the reaction between [(triphos)Ir(dtbc)] ⁺ and O ₂ . <i>Chemistry - A European Journal</i> , 2003 , 9, 3015-23	4.8	6
52	EXAFS studies of Fe(III)-phosvitin at high metal to protein ratios. <i>BioMetals</i> , 1994 , 7, 104-8	3.4	6
51	The role of the active site amino acid residues on the catalytic activity of Cu ₂ Zn ₂ SOD. <i>Molecular and Chemical Neuropathology</i> , 1993 , 19, 193-204		6
50	Ytterbium(III) as a CD probe for the investigation of the metal binding sites of transferrins. <i>Inorganica Chimica Acta</i> , 1986 , 124, L15-L17	2.7	6
49	Carbonic Anhydrase Activators		6
48	Carbonic anhydrase inhibitors: Gd(III) complexes of DOTA- and TETA-sulfonamide conjugates targeting the tumor associated carbonic anhydrase isozymes IX and XII. <i>New Journal of Chemistry</i> , 2010 , 34, 2139	3.6	5

47	Experimental and theoretical affinity studies of substituted phenols to chlorocatechol 1,2-dioxygenases: A step toward the comprehension of inhibitor/substrate binding to intradiol dioxygenases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010 , 64, 53-59		5
46	Carbonic anhydrase inhibitors. Inhibition of red blood cell ostrich (<i>Struthio camelus</i>) carbonic anhydrase with a series of aromatic and heterocyclic sulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005 , 20, 383-7	5.6	5
45	Crystallization and preliminary structure analysis of the blue laccase from the ligninolytic fungus <i>Panus tigrinus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 205-7		5
44	Functionalized Derivatives of Benzo-Crown Ethers. Part 4. Antifungal Macrocyclic Supramolecular Complexes of Transition Metal Ions Acting as Lanosterol-14- α -Demethylase Inhibitors. <i>Metal-Based Drugs</i> , 1999 , 6, 101-10		5
43	Copper-cobalt superoxide dismutase: A re-examination of the 1H NMR spectrum through a novel selectively deuteriated derivative. <i>Magnetic Resonance in Chemistry</i> , 1993 , 31, S17-S22	2.1	5
42	Investigation of zinc-deprived bovine superoxide dismutase. <i>Inorganica Chimica Acta</i> , 1984 , 91, 109-111	2.7	5
41	Polyamines and Carbonic Anhydrases. <i>Molecules</i> , 2016 , 21,	4.8	5
40	Crystallization and preliminary X-ray crystallographic analysis of the small subunit of the heterodimeric laccase POXA3b from <i>Pleurotus ostreatus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014 , 70, 76-9	1.1	4
39	INTERACTION OF ISOZYMES I AND II OF CARBONIC ANHYDRASE WITH Ge(IV) AND Sb(III) DERIVATIVES. <i>Main Group Metal Chemistry</i> , 1997 , 20,	1.6	4
38	Preliminary crystallographic analysis of 3-chlorocatechol 1,2-dioxygenase of a new modified ortho-pathway from the Gram-positive <i>Rhodococcus opacus</i> 1CP grown on 2-chlorophenol. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 188-90		4
37	Protease inhibitors. Part 2. Weakly basic thrombin inhibitors incorporating sulfonyl-aminoguanidine moieties as S1 anchoring groups: synthesis and structure-activity correlations. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 235-64		4
36	Carbonic Anhydrase Activity Modulators: Synthesis of Inhibitors and Activators Incorporating 2-substituted-thiazol-4-yl-methyl Scaffolds. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001 , 16, 351-358		4
35	Investigation of the copper?magnesium?alkaline phosphatase system. <i>Inorganica Chimica Acta</i> , 1983 , 78, 19-22	2.7	4
34	Intramolecular ring-stacking interaction between caffeine and bis(1,10-phenanthroline)copper(II) ion: 1H NMR and calorimetric investigations. <i>Inorganica Chimica Acta</i> , 1981 , 56, 73-77	2.7	4
33	Cooperative phenomena in polynuclear metalloproteins. <i>Inorganica Chimica Acta</i> , 1982 , 62, 15-22	2.7	4
32	A comment on the Jahn-Teller effect in the complex $K_2PbCu(NO_2)_6$. <i>Inorganica Chimica Acta</i> , 1975 , 13, L5-L6	2.7	4
31	Single crystal polarized electronic spectra of the complex bis(N-t-butylpyrrole-2-carbaldimino)cobalt(II). <i>Inorganica Chimica Acta</i> , 1975 , 13, 145-148	2.7	4
30	^{13}C Nmr spectra of hexakis pyridine-N-oxide cobalt(II) and nickel(II) complexes. <i>Inorganica Chimica Acta</i> , 1976 , 19, 201-202	2.7	4

29	31P NMR spectra of paramagnetic MBr ₂ (OPPh ₃) ₂ complexes. A breakdown in the validity of the Solomon-Bloembergen equations. <i>Inorganic and Nuclear Chemistry Letters</i> , 1979 , 15, 89-91		4
28	Crystallization and preliminary X-ray crystallographic analysis of hydroquinone dioxygenase from <i>Sphingomonas</i> sp. TTNP3. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 588-90		3
27	Carbonic Anhydrase Activators. Part 19 Spectroscopic and Kinetic Investigations for the Interaction of Isozymes I and II With Primary Amines. <i>Metal-Based Drugs</i> , 1997 , 4, 221-7		3
26	Carbonic anhydrase inhibitors. Part 54: metal complexes of heterocyclic sulfonamides: a new class of antiglaucoma agents. <i>Metal-Based Drugs</i> , 1997 , 4, 307-15		3
25	The antifungal activity of 2,2-diamino-4,4-dithiazole derivatives is due to the possible inhibition of lanosterol-14- α -demethylase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1998 , 14, 49-68		3
24	4-Chlorocatechol 1,2-dioxygenase from the chlorophenol-utilizing Gram-positive <i>Rhodococcus opacus</i> 1CP: crystallization and preliminary crystallographic analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 1074-6		3
23	The antifungal activity of sulfonylated/carboxylated derivatives of dibenzo-1,4-dioxine-2-acetyloxime may be due to inhibition of lanosterol-14 α -demethylase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 557-69		3
22	Protease inhibitors, part 13: Specific, weakly basic thrombin inhibitors incorporating sulfonyl dicyandiamide moieties in their structure. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001 , 16, 1-13		3
21	Synthesis and antifungal activity of metal complexes containing dichloro-tetramorpholino-cyclophosphazatriene. <i>Metal-Based Drugs</i> , 1998 , 5, 287-94		3
20	Complexes with biologically active ligands. Part 11. Synthesis and carbonic anhydrase inhibitory activity of metal complexes of 4,5-disubstituted-3-mercapto-1,2,4-triazole derivatives. <i>Metal-Based Drugs</i> , 1998 , 5, 11-8		3
19	INHIBITION OF CARBONIC ANHYDRASE ISOZYMES I, II AND IV WITH ARSINOLIPIDS. <i>Main Group Metal Chemistry</i> , 1999 , 22,	1.6	3
18	Complexes between pilocarpine and cobalt(II), nickel(II), copper(II), and zinc(II) ions. <i>Journal of Pharmaceutical Sciences</i> , 1980 , 69, 1220-2	3.9	3
17	X-ray and ESR investigation of an elongated octahedral tris-(1, 2-diaminoethane) copper (II) complex. <i>Solid State Communications</i> , 1978 , 26, 749-751	1.6	3
16	Structural basis for the substrate specificity and the absence of dehalogenation activity in 2-chloromuconate cycloisomerase from <i>Rhodococcus opacus</i> 1CP. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 1541-9	4	2
15	X-ray crystallographic and molecular docking studies on a unique chloromuconolactone dehalogenase from <i>Rhodococcus opacus</i> 1CP. <i>Journal of Structural Biology</i> , 2013 , 182, 44-50	3.4	2
14	Carbonic anhydrase inhibitors. N-cyanomethylsulfonamides--a new zinc binding group in the design of inhibitors targeting cytosolic and membrane-anchored isoforms. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2006 , 21, 477-81	5.6	2
13	Protease inhibitors: Part 4. Synthesis of weakly basic thrombin inhibitors incorporating pyridinium-sulfanilylaminoguanidine moieties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2000 , 15, 335-56		2
12	Multinuclear NMR investigation of the metal binding sites of transferrins. <i>Journal of Molecular Structure</i> , 1984 , 113, 191-200	3.4	2

11	Some Structural Aspects of Carbonic Anhydrase. <i>Proceedings in Life Sciences</i> , 1980 , 151-153		2
10	The crystal structures of native hydroquinone 1,2-dioxygenase from <i>Sphingomonas</i> sp. TTNP3 and of substrate and inhibitor complexes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 520-530	4	1
9	Mechanism of action of carbonic anhydrase inhibitors 2019 , 245-255		1
8	INHIBITION OF CARBONIC ANHYDRASE ISOZYMES I, II AND IV WITH ARSANILIC ACID DERIVATIVES. <i>Main Group Metal Chemistry</i> , 1998 , 21,	1.6	1
7	Iron-sulfur Proteins: Part II Valence-specific Assignment in Oxidized Hipip through ¹ H NMR Spectroscopy. <i>Topics in Molecular Organization and Engineering</i> , 1994 , 143-157		1
6	Treatment of NSAPs-rich petrochemical wastewaters using a two-stage combined process of fungi and activated sludge. <i>Environmental Technology (United Kingdom)</i> , 2021 , 42, 3783-3796	2.6	0
5	Heterocyclic urea derivatives and methods of use thereof (WO2010142978). <i>Expert Opinion on Therapeutic Patents</i> , 2012 , 22, 193-7	6.8	
4	Heterocyclic compounds and their uses: a patent evaluation of WO2010151735A2. <i>Expert Opinion on Therapeutic Patents</i> , 2011 , 21, 803-6	6.8	
3	spectroscopic Investigation on a New Class of Inhibitors which Bind either the Acidic or Basic Form of Cobalt Substituted Carbonic Anhydrase. <i>Inorganica Chimica Acta</i> , 1980 , 40, X86	2.7	
2	Predictive Models for the Efficacy of Bioremediation 1997 , 25-37		
1	Next-generation polyamine human carbonic anhydrase inhibitors 2014 , 68-81		