Daniela Vullo

List of Publications by Year in Descending Order

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

338 papers	14,544 citations	64 h-index	94 g-index
343 ext. papers	15,319 ext. citations	4.5 avg, IF	6.39 L-index

#	Paper	IF	Citations
338	First studies on tumor associated carbonic anhydrases IX and XII monoclonal antibodies conjugated to small molecule inhibitors.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 592-596	5.6	4
337	A Series of Thiadiazolyl-Benzenesulfonamides Incorporating an Aromatic Tail as Isoform-Selective, Potent Carbonic Anhydrase II/XII Inhibitors.. *ChemMedChem*, **2022**, e202200056	3.7	0
336	Synthesis, biological evaluation, and in silico studies of potential activators of apoptosis and carbonic anhydrase inhibitors on isatin-5-sulfonamide scaffold.. *European Journal of Medicinal Chemistry*, **2021**, 228, 113997	6.8	3
335	An anion and small molecule inhibition study of the carbonic anhydrase from. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1088-1092	5.6	5
334	Design, synthesis, and biological evaluation of selective hCA IX inhibitors **2021**, 63-78		
333	One-Pot Procedure for the Synthesis of Asymmetric Substituted Ureido Benzene Sulfonamides as Effective Inhibitors of Carbonic Anhydrase Enzymes.. *Journal of Medicinal Chemistry*, **2021**,	8.3	1
332	Anion Inhibition Studies of the Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete. *Metabolites*, **2020**, 10,	5.6	3
331	Structural and biochemical characterization of novel carbonic anhydrases from Phaeodactylum tricornutum. *Acta Crystallographica Section D: Structural Biology*, **2020**, 76, 676-686	5.5	6
330	Sulfonamide Inhibition Studies of the Class Carbonic Anhydrase CAS3 from the Filamentous Ascomycete. *Molecules*, **2020**, 25,	4.8	3
329	Discovery of New 1,1SBiphenyl-4-sulfonamides as Selective Subnanomolar Human Carbonic Anhydrase II Inhibitors. *ACS Medicinal Chemistry Letters*, **2020**, 11, 633-637	4.3	1
328	inhibition of -carbonic anhydrase 3 with Mono- and dithiocarbamates and evaluation of their toxicity using zebrafish developing embryos. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 65-71	5.6	11
327	Unconventional amino acids in medicinal chemistry: First report on taurine merged within carbonic anhydrase inhibitors. *Bioorganic Chemistry*, **2020**, 103, 104236	5.1	6
326	Seeking new approach for therapeutic treatment of cholera disease via inhibition of bacterial carbonic anhydrases: experimental and theoretical studies for sixteen benzenesulfonamide derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 1186-1192	5.6	7
325	Exploration of the residues modulating the catalytic features of human carbonic anhydrase XIII by a site-specific mutagenesis approach. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 1506-1510	5.6	6
324	Cloning, Purification, and Characterization of a Carbonic Anhydrase from , an Opportunistic Pathogen Involved in Dandruff and Seborrheic Dermatitis. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
323	Synthesis and Evaluation of Carbonic Anhydrase Inhibitors with Carbon Monoxide Releasing Properties for the Management of Rheumatoid Arthritis. *Journal of Medicinal Chemistry*, **2019**, 62, 7233-7249	8.3	26
322	A computer-assisted discovery of novel potential anti-obesity compounds as selective carbonic anhydrase VA inhibitors. *European Journal of Medicinal Chemistry*, **2019**, 181, 111565	6.8	17

321	Mechanisms of action of carbonic anhydrase inhibitors **2019**, 187-222		1
320	Pseudomonas aeruginosa β-carbonic anhydrase, psCA1, is required for calcium deposition and contributes to virulence. *Cell Calcium*, **2019**, 84, 102080	4	16
319	State of the Art on Carbonic Anhydrase Modulators for Biomedical Purposes. *Current Medicinal Chemistry*, **2019**, 26, 2558-2573	4.3	9
318	SLC-0111 enaminone analogs, 3/4-(3-aryl-3-oxopropenyl) aminobenzenesulfonamides, as novel selective subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform IX. *Bioorganic Chemistry*, **2019**, 83, 549-558	5.1	40
317	Anion inhibition studies of a beta carbonic anhydrase from the malaria mosquito Anopheles gambiae. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 359-363	5.6	5
316	Sulfonamide inhibition studies of two β-carbonic anhydrases from the ascomycete fungus Sordaria macrospora, CAS1 and CAS2. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 390-396	5.6	9
315	Protonography and anion inhibition profile of the β-carbonic anhydrase (CruCA4) identified in the Mediterranean red coral Corallium rubrum. *Bioorganic Chemistry*, **2018**, 76, 281-287	5.1	10
314	Novel sulfonamide incorporating piperazine, aminoalcohol and 1,3,5-triazine structural motifs with carbonic anhydrase I, II and IX inhibitory action. *Bioorganic Chemistry*, **2018**, 77, 25-37	5.1	24
313	Biochemical, biophysical and molecular dynamics studies on the proteoglycan-like domain of carbonic anhydrase IX. *Cellular and Molecular Life Sciences*, **2018**, 75, 3283-3296	10.3	13
312	Resolution of co-eluting isomers of anti-inflammatory drugs conjugated to carbonic anhydrase inhibitors from plasma in liquid chromatography by energy-resolved tandem mass spectrometry. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 671-679	5.6	14
311	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
310	Structural Mapping of Anion Inhibitors to β-Carbonic Anhydrase psCA3 from Pseudomonas aeruginosa. *ChemMedChem*, **2018**, 13, 2024-2029	3.7	19
309	Sulphonamide inhibition studies of the β-carbonic anhydrase from the bacterial pathogen Clostridium perfringens. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 31-36	5.6	12
308	Comparison of the amine/amino acid activation profiles of the α- and β-carbonic anhydrases from the pathogenic bacterium Burkholderia pseudomallei. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 25-30	5.6	15
307	Design and Synthesis of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDs-CAIs) for the Treatment of Rheumatoid Arthritis. *Journal of Medicinal Chemistry*, **2017**, 60, 1159-1170	8.3	94
306	Carbonic anhydrases activation with 3-amino-1H-1,2,4-triazole-1-carboxamides: Discovery of subnanomolar isoform II activators. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 1681-1686	3.4	23
305	Carbonic anhydrase activation enhances object recognition memory in mice through phosphorylation of the extracellular signal-regulated kinase in the cortex and the hippocampus. *Neuropharmacology*, **2017**, 118, 148-156	5.5	57
304	Biochemical characterization of the native β-carbonic anhydrase purified from the mantle of the Mediterranean mussel, Mytilus galloprovincialis. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 632-639	5.6	24

303	Comparison of the anion inhibition profiles of the β and ε carbonic anhydrases from the pathogenic bacterium Burkholderia pseudomallei. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 2010-2015	3.4	6
302	N-Substituted and ring opened saccharin derivatives selectively inhibit transmembrane, tumor-associated carbonic anhydrases IX and XII. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 3583-3589	3.4	29
301	Kinetic properties and affinities for sulfonamide inhibitors of an ε carbonic anhydrase (CruCA4) involved in coral biomineralization in the Mediterranean red coral Corallium rubrum. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 3525-3530	3.4	11
300	Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 677-683	3.4	29
299	Production and covalent immobilisation of the recombinant bacterial carbonic anhydrase (SspCA) onto magnetic nanoparticles. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 759-766	5.6	19
298	3H-1,2-benzoxathiepine 2,2-dioxides: a new class of isoform-selective carbonic anhydrase inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 767-775	5.6	32
297	Sulfonamide inhibition profiles of the ε carbonic anhydrase from the pathogenic bacterium Francisella tularensis responsible of the febrile illness tularemia. *Bioorganic and Medicinal Chemistry* , **2017**, 25, 3555-3561	3.4	14
296	Synthesis of new 3-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-benzenesulfonamides with strong inhibition properties against the tumor associated carbonic anhydrases IX and XII. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 2782-2788	3.4	11
295	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 2569-2576	3.4	62
294	Sulfonamide inhibition profile of the ε carbonic anhydrase identified in the genome of the pathogenic bacterium Burkholderia pseudomallei the etiological agent responsible of melioidosis. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 490-495	2.9	21
293	Dithiocarbamates effectively inhibit the ε carbonic anhydrase from the dandruff-producing fungus Malassezia globosa. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 1260-1265	3.4	33
292	Sequence Analysis, Kinetic Constants, and Anion Inhibition Profile of the Nacrein-Like Protein (CgiNAP2X1) from the Pacific Oyster Magallana gigas (Ex-Crassostrea gigas). *Marine Drugs*, **2017**, 15,	6	2
291	Potent and Selective Carboxylic Acid Inhibitors of Tumor-Associated Carbonic Anhydrases IX and XII. *Molecules*, **2017**, 23,	4.8	8
290	Activation Profile Analysis of CruCA4, an εCarbonic Anhydrase Involved in Skeleton Formation of the Mediterranean Red Coral, Corallium rubrum. *Molecules*, **2017**, 23,	4.8	3
289	Cloning, expression and purification of the ε carbonic anhydrase from the mantle of the Mediterranean mussel, Mytilus galloprovincialis. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 1029-1035	5.6	11
288	Exploring Heteroaryl-pyrazole Carboxylic Acids as Human Carbonic Anhydrase XII Inhibitors. *ACS Medicinal Chemistry Letters*, **2017**, 8, 941-946	4.3	16
287	Inhibition of the ε carbonic anhydrase from the dandruff-producing fungus Malassezia globosa with monothiocarbamates. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 1064-1070	5.6	31
286	Anion inhibitors of the ε carbonic anhydrase from the pathogenic bacterium responsible of tularemia, Francisella tularensis. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 4800-4804	3.4	10

285	Synthesis and biological evaluation of histamine Schiff bases as carbonic anhydrase I, II, IV, VII, and IX activators. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 1305-1312	5.6	41
284	Anion inhibition profiles of the Ecarbonic anhydrase from the pathogenic bacterium Burkholderia pseudomallei responsible of melioidosis and highly drug resistant to common antibiotics. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 575-580	3.4	11
283	Burkholderia pseudomallei Ecarbonic anhydrase is strongly activated by amino acids and amines. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 77-80	2.9	23
282	5-Substituted-benzylsulfanyl-thiophene-2-sulfonamides with effective carbonic anhydrase inhibitory activity: Solution and crystallographic investigations. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 857-863	3.4	10
281	New approach of delivering cytotoxic drugs towards CAIX expressing cells: A concept of dual-target drugs. *European Journal of Medicinal Chemistry*, **2017**, 127, 691-702	6.8	18
280	Comparison of the Sulfonamide Inhibition Profiles of the and ECarbonic Anhydrases from the Pathogenic Bacterium Burkholderia pseudomallei. *Molecules*, **2017**, 22,	4.8	21
279	Identification and characterization of a novel zebrafish () pentraxin-carbonic anhydrase. *PeerJ*, **2017** , 5, e4128	3.1	5
278	Expression and characterization of a recombinant psychrophilic Ecarbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus Nostoc. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 810-7	5.6	6
277	Effects of dipotassium-trioxohydroxytetrafluorotriborate, K2[B3O3F4OH], on cell viability and gene expression of common human cancer drug targets in a melanoma cell line. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 999-1004	5.6	5
276	Indazole, Pyrazole, and Oxazole Derivatives Targeting Nitric Oxide Synthases and Carbonic Anhydrases. *ChemMedChem*, **2016**, 11, 1695-9	3.7	23
275	Anion inhibition profiles of the complete domain of the Ecarbonic anhydrase from Plasmodium falciparum. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 4410-4414	3.4	30
274	Active Components of Essential Oils as Anti-Obesity Potential Drugs Investigated by in Silico Techniques. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 5295-300	5.7	26
273	Monothiocarbamates Strongly Inhibit Carbonic Anhydrases in Vitro and Possess Intraocular Pressure Lowering Activity in an Animal Model of Glaucoma. *Journal of Medicinal Chemistry*, **2016**, 59, 5857-67	8.3	47
272	1,2-Benzisothiazole Derivatives Bearing 4-, 5-, or 6-Alkyl/arylcarboxamide Moieties Inhibit Carbonic Anhydrase Isoform IX (CAIX) and Cell Proliferation under Hypoxic Conditions. *Journal of Medicinal Chemistry*, **2016**, 59, 6547-52	8.3	15
271	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
270	A Divalent PAMAM-Based Matrix Metalloproteinase/Carbonic Anhydrase Inhibitor for the Treatment of Dry Eye Syndrome. *Chemistry - A European Journal*, **2016**, 22, 1714-21	4.8	11
269	Dithiocarbamates with potent inhibitory activity against the Saccharomyces cerevisiae Ecarbonic anhydrase. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 132-6	5.6	15
268	Carbonic anhydrase activators: Activation of the Ecarbonic anhydrase from Malassezia globosa with amines and amino acids. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 1381-5	2.9	26

267	Sulfonamide inhibition studies of the β-carbonic anhydrase from the gammaproteobacterium Thiomicrospira crunogena XCL-2, TcruCA. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 401-405	2.9	1
266	Cloning, characterization and anion inhibition studies of a β-carbonic anhydrase from the Antarctic bacterium Colwellia psychrerythraea. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 835-40	3.4	38
265	A new procedure for the cloning, expression and purification of the β-carbonic anhydrase from the pathogenic yeast Malassezia globosa, an anti-dandruff drug target. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1156-61	5.6	22
264	Discovery of Strecker-type α-aminonitriles as a new class of human carbonic anhydrase inhibitors using differential scanning fluorimetry. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1707-11	5.6	4
263	PET Imaging of Carbonic Anhydrase IX Expression of HT-29 Tumor Xenograft Mice with (68)Ga-Labeled Benzenesulfonamides. *Molecular Pharmaceutics*, **2016**, 13, 1137-46	5.6	41
262	Sulfonamide inhibition studies of the β-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 1115-20	3.4	51
261	Sulfonamide inhibition studies of the β-carbonic anhydrase from the Antarctic bacterium Colwellia psychrerythraea. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 1253-9	2.9	11
260	Anion inhibition studies of the β-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 1406-10	2.9	18
259	Sulfonamide inhibition studies of the β-carbonic anhydrase from the newly discovered bacterium Enterobacter sp. B13. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 1821-6	2.9	5
258	Comparison of the sulfonamide inhibition profiles of the β- and γ-carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 1941-6	2.9	42
257	Kinetic and docking studies of cytosolic/tumor-associated carbonic anhydrase isozymes I, II and IX with some hydroxylic compounds. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1214-20	5.6	2
256	Sulfonamides incorporating heteropolycyclic scaffolds show potent inhibitory action against carbonic anhydrase isoforms I, II, IX and XII. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 921-7	3.4	17
255	Cloning, expression and biochemical characterization of a β-carbonic anhydrase from the soil bacterium Enterobacter sp. B13. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1111-8	5.6	5
254	Salts of 5-amino-2-sulfonamide-1,3,4-thiadiazole, a structural and analog of acetazolamide, show interesting carbonic anhydrase inhibitory properties, diuretic, and anticonvulsant action. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1102-10	5.6	7
253	Discovery of New Potential Anti-Infective Compounds Based on Carbonic Anhydrase Inhibitors by Rational Target-Focused Repurposing Approaches. *ChemMedChem*, **2016**, 11, 1904-14	3.7	41
252	In Vivo Evaluation of Selective Carbonic Anhydrase Inhibitors as Potential Anticonvulsant Agents. *ChemMedChem*, **2016**, 11, 1812-8	3.7	23
251	N-Nitrosulfonamides: A new chemotype for carbonic anhydrase inhibition. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3612-7	3.4	29
250	A substituted sulfonamide and its Co (II), Cu (II), and Zn (II) complexes as potential antifungal agents. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 51-62	5.6	40

249	Anion inhibition profiles of □ □and □carbonic anhydrases from the pathogenic bacterium Vibrio cholerae. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3413-7	3.4	45
248	PEGylated Bis-Sulfonamide Carbonic Anhydrase Inhibitors Can Efficiently Control the Growth of Several Carbonic Anhydrase IX-Expressing Carcinomas. *Journal of Medicinal Chemistry*, **2016**, 59, 5077-88	8.3	45
247	An Unusual Natural Product Primary Sulfonamide: Synthesis, Carbonic Anhydrase Inhibition, and Protein X-ray Structures of Psammaplin C. *Journal of Medicinal Chemistry*, **2016**, 59, 5462-70	8.3	29
246	Benzoxaborole as a new chemotype for carbonic anhydrase inhibition. *Chemical Communications*, **2016**, 52, 11983-11986	5.8	60
245	Cloning, expression, purification and sulfonamide inhibition profile of the complete domain of the □carbonic anhydrase from Plasmodium falciparum. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 4184-90	2.9	34
244	A failed tentative to design a super carbonic anhydrase having the biochemical properties of the most thermostable CA (SspCA) and the fastest (SazCA) enzymes. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 989-94	5.6	11
243	Plasmonic Particles that Hit Hypoxic Cells. *Advanced Functional Materials*, **2015**, 25, 316-323	15.6	34
242	Dipotassium-trioxohydroxytetrafluorotriborate, K[B□□□OH], is a potent inhibitor of human carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 341-4	5.6	23
241	Biochemical characterization of recombinant □carbonic anhydrase (PgiCAb) identified in the genome of the oral pathogenic bacterium Porphyromonas gingivalis. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 366-70	5.6	64
240	[(18)F]VM4-037 MicroPET Imaging and Biodistribution of Two In Vivo CAIX-Expressing Tumor Models. *Molecular Imaging and Biology*, **2015**, 17, 615-9	3.8	38
239	Synthesis of sulfonamide conjugates of Cu(II), Ga(III), In(III), Re(V) and Zn(II) complexes: carbonic anhydrase inhibition studies and cellular imaging investigations. *Dalton Transactions*, **2015**, 44, 4859-73	4.3	27
238	Trimeric Radiofluorinated Sulfonamide Derivatives to Achieve In Vivo Selectivity for Carbonic Anhydrase IX-Targeted PET Imaging. *Journal of Nuclear Medicine*, **2015**, 56, 1434-40	8.9	42
237	Sulfonamide inhibition studies of the □carbonic anhydrase from the Antarctic bacterium Pseudoalteromonas haloplanktis. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 3550-5	2.9	28
236	Mapping Selective Inhibition of the Cancer-Related Carbonic Anhydrase IX Using Structure-Activity Relationships of Glucosyl-Based Sulfamates. *Journal of Medicinal Chemistry*, **2015**, 58, 6630-8	8.3	22
235	Hit Recycling: Discovery of a Potent Carbonic Anhydrase Inhibitor by in Silico Target Fishing. *ACS Chemical Biology*, **2015**, 10, 1964-9	4.9	16
234	Eriocitrin and Apigenin as New Carbonic Anhydrase VA Inhibitors from a Virtual Screening of Calabrian Natural Products. *Planta Medica*, **2015**, 81, 533-40	3.1	28
233	Cloning, characterization and anion inhibition studies of a new □carbonic anhydrase from the Antarctic bacterium Pseudoalteromonas haloplanktis. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4405-4409	3.4	25
232	Structure and inhibition studies of a type II beta-carbonic anhydrase psCA3 from Pseudomonas aeruginosa. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4831-4838	3.4	49

231	The carbonic anhydrase from the malaria mosquito Anopheles gambiae is highly inhibited by sulfonamides. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2303-9	3.4	20
230	Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2368-76	3.4	34
229	7-Amino-3,4-dihydro-1H-quinolin-2-one, a compound similar to the substituted coumarins, inhibits carbonic anhydrases without hydrolysis of the lactam ring. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 773-7	5.6	21
228	Sulfonamide inhibition studies of the carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 1728-34	3.4	32
227	Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms I-XIV. *Organic and Biomolecular Chemistry*, **2015**, 13, 6453-7	3.9	12
226	C-glycosides incorporating the 6-methoxy-2-naphthyl moiety are selective inhibitors of fungal and bacterial carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 857-61	5.6	23
225	Design and Validation of FRESH, a Drug Discovery Paradigm Resting on Robust Chemical Synthesis. *ACS Medicinal Chemistry Letters*, **2015**, 6, 518-22	4.3	10
224	Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. *Journal of Medicinal Chemistry*, **2015**, 58, 4039-45	8.3	28
223	Anion inhibition studies of the dandruff-producing fungus Malassezia globosa carbonic anhydrase MgCA. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5194-8	2.9	25
222	Discovery of 1,1SBiphenyl-4-sulfonamides as a New Class of Potent and Selective Carbonic Anhydrase XIV Inhibitors. *Journal of Medicinal Chemistry*, **2015**, 58, 8564-72	8.3	34
221	Ascaris lumbricoides carbonic anhydrase: a potential target enzyme for treatment of ascariasis. *Parasites and Vectors*, **2015**, 8, 479	4	20
220	Phosphate Chemical Probes Designed for Location Specific Inhibition of Intracellular Carbonic Anhydrases. *Journal of Medicinal Chemistry*, **2015**, 58, 7580-90	8.3	9
219	Anion and sulfonamide inhibition studies of an carbonic anhydrase from the Antarctic hemoglobinless fish Chionodraco hamatus. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5485-9	2.9	1
218	Interaction of carbonic anhydrase isozymes I, II, and IX with some pyridine and phenol hydrazinecarbothioamide derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5636-41	2.9	34
217	Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against and and class enzymes. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 6794-8	3.4	26
216	Sulfonamide inhibition studies of the class carbonic anhydrase from the malaria pathogen Plasmodium falciparum. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 526-31	3.4	48
215	Inhibition of human carbonic anhydrase isozymes I, II, IX and XII with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 52-6	5.6	38
214	Out of the active site binding pocket for carbonic anhydrase inhibitors. *Chemical Communications*, **2015**, 51, 302-5	5.8	96

213	Crystal structure and kinetic studies of a tetrameric type II carbonic anhydrase from the pathogenic bacterium Vibrio cholerae. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 2449-56		83
212	Exploration of anionic inhibition of the carbonic anhydrase from Thiomicrospira crunogena XCL-2 gammaproteobacterium: A potential bio-catalytic agent for industrial CO2 removal. *Chemical Engineering Science*, **2015**, 138, 575-580	4.4	10
211	Hydroxylamine-O-sulfonamide is a versatile lead compound for the development of carbonic anhydrase inhibitors. *Chemical Communications*, **2015**, 51, 11519-22	5.8	9
210	Carbonic Anhydrase Glycoinhibitors belonging to the Aminoxysulfonamide Series. *ACS Medicinal Chemistry Letters*, **2015**, 6, 819-21	4.3	8
209	Design and synthesis of benzothiazole-6-sulfonamides acting as highly potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4989-4999	3.4	23
208	Cloning, characterization and anion inhibition studies of a carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 4970-4975	2.9	12
207	N-glycosyl-N-hydroxysulfamides as potent inhibitors of Brucella suis carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 1010-2	5.6	6
206	Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7751-64	3.4	16
205	Inhibition of carbonic anhydrases from Brucella suis with C-cinnamoyl glycosides incorporating the phenol moiety. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 1017-20	5.6	13
204	Carbonic anhydrase inhibitors with dual-tail moieties to match the hydrophobic and hydrophilic halves of the carbonic anhydrase active site. *Journal of Medicinal Chemistry*, **2015**, 58, 1494-501	8.3	69
203	Benzenesulfonamide bearing 1,2,4-triazole scaffolds as potent inhibitors of tumor associated carbonic anhydrase isoforms hCA IX and hCA XII. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 1873-82	3.4	37
202	Anion inhibition study of the carbonic anhydrase (CahB1) from the cyanobacterium Coleofasciculus chthonoplastes (ex-Microcoleus chthonoplastes). *Bioorganic and Medicinal Chemistry*, **2014**, 22, 1667-71	3.4	22
201	Carbonic anhydrase inhibitors. Inhibition of human cytosolic isoforms I and II with (reduced) Schiff's bases incorporating sulfonamide, carboxylate and carboxymethyl moieties. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 2867-74	3.4	22
200	Structure-based screening for the discovery of new carbonic anhydrase VII inhibitors. *European Journal of Medicinal Chemistry*, **2014**, 71, 105-11	6.8	41
199	Combining the tail and the ring approaches for obtaining potent and isoform-selective carbonic anhydrase inhibitors: solution and X-ray crystallographic studies. *Bioorganic and Medicinal Chemistry* , **2014**, 22, 334-40	3.4	86
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