

Daniela Vullo

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338
papers

14,544
citations

64
h-index

94
g-index

343
ext. papers

15,319
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
338	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
337	Discovery of a new family of carbonic anhydrases in the malaria pathogen Plasmodium falciparum--the β -carbonic anhydrases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4389-4396	2.9	258
336	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
335	Carbonic anhydrase in the scleractinian coral <i>Stylophora pistillata</i> : characterization, localization, and role in biomineralization. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25475-25484	5.4	192
334	Structure and inhibition of the CO ₂ -sensing carbonic anhydrase Can2 from the pathogenic fungus <i>Cryptococcus neoformans</i> . <i>Journal of Molecular Biology</i> , 2009 , 385, 1207-20	6.5	176
333	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
332	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
331	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
330	Carbonic anhydrase inhibitors: inhibition of isozymes I, II, and IX with triazole-linked O-glycosides of benzene sulfonamides. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 1651-7	8.3	169
329	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
328	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
327	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
326	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
325	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
324	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
323	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
322	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

321	Carbonic anhydrase inhibitors. Inhibition of tumor-associated isozyme IX by halogenosulfanilamide and halogenophenylaminobenzolamide derivatives. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2187-96	8.3	133
320	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3102-8	2.9	129
319	Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 971-6	2.9	128
318	Carbonic anhydrase inhibitors: inhibition of the transmembrane isozyme XIV with sulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3828-33	2.9	125
317	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. <i>Chemistry - A European Journal</i> , 2006 , 12, 7057-66	4.8	122
316	Designing of Novel Carbonic Anhydrase Inhibitors and Activators. <i>Current Medicinal Chemistry Cardiovascular and Hematological Agents</i> , 2004 , 2, 49-68		119
315	Dithiocarbamates strongly inhibit the Eclass carbonic anhydrases from Mycobacterium tuberculosis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 407-11	5.6	118
314	A spectroscopic study of the reaction of NAMI, a novel ruthenium(III)anti-neoplastic complex, with bovine serum albumin. <i>FEBS Journal</i> , 2000 , 267, 1206-13		117
313	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
312	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
311	Synthesis and carbonic anhydrase inhibitory properties of sulfamides structurally related to dopamine. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 2925-31	3.4	112
310	Carbonic anhydrase inhibitors. Inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, IX, and XII with Schiff's bases incorporating chromone and aromatic sulfonamide moieties, and their zinc complexes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3096-101	2.9	106
309	Carbonic anhydrase inhibitors. Cloning, characterization, and inhibition studies of a new beta-carbonic anhydrase from Mycobacterium tuberculosis. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3116-20	8.3	98
308	Cloning, characterization, and inhibition studies of a beta-carbonic anhydrase from Brucella suis. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 2277-85	8.3	97
307	Out of the active site binding pocket for carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2015 , 51, 302-5	5.8	96
306	An Ecarbonic anhydrase from the thermophilic bacterium Sulphurihydrogenibium azorense is the fastest enzyme known for the CO ₂ hydration reaction. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1465-9	3.4	96
305	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
304	DNA cloning, characterization, and inhibition studies of an Ecarbonic anhydrase from the pathogenic bacterium Vibrio cholerae. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 10742-8	8.3	91

303	Sildenafil is a strong activator of mammalian carbonic anhydrase isoforms I-XIV. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 5791-5	3.4	91
302	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
301	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
300	Structural and inhibition insights into carbonic anhydrase CDCA1 from the marine diatom <i>Thalassiosira weissflogii</i> . <i>Biochimie</i> , 2012 , 94, 1232-41	4.6	88
299	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
298	Natural product-based phenols as novel probes for mycobacterial and fungal carbonic anhydrases. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1682-92	8.3	85
297	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
296	Crystal structure and kinetic studies of a tetrameric type II β -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 2449-56		83
295	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
294	Natural product coumarins that inhibit human carbonic anhydrases. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1539-43	3.4	82
293	Synthesis and biological evaluation of a ^{99m}Tc -labelled sulfonamide conjugate for in vivo visualization of carbonic anhydrase IX expression in tumor hypoxia. <i>Nuclear Medicine and Biology</i> , 2010 , 37, 557-64	2.1	81
292	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
291	Cloning, characterization, and inhibition studies of a β -carbonic anhydrase from <i>Leishmania donovani chagasi</i> , the protozoan parasite responsible for leishmaniasis. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 7372-81	8.3	79
290	Cyclic secondary sulfonamides: unusually good inhibitors of cancer-related carbonic anhydrase enzymes. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 3522-31	8.3	74
289	Targeting carbonic anhydrase IX by nitroimidazole based sulfamides enhances the therapeutic effect of tumor irradiation: a new concept of dual targeting drugs. <i>Radiotherapy and Oncology</i> , 2013 , 108, 523-8	5.3	74
288	Carbonic anhydrase inhibitors: inhibition of transmembrane, tumor-associated isozyme IX, and cytosolic isozymes I and II with aliphatic sulfamates. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 5471-7	8.3	74
287	A new β -carbonic anhydrase from <i>Brucella suis</i> , its cloning, characterization, and inhibition with sulfonamides and sulfamates, leading to impaired pathogen growth. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1172-8	3.4	72
286	Anion inhibition studies of an β -carbonic anhydrase from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 5630-4	2.9	71

285	Dihalogenated sulfanilamides and benzolamides are effective inhibitors of the three β -class carbonic anhydrases from Mycobacterium tuberculosis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 384-7	5.6	71
284	Inhibition of carbonic anhydrases with glycosyltriazone benzene sulfonamides. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1945-53	8.3	70
283	Carbonic anhydrase inhibitors with dual-tail moieties to match the hydrophobic and hydrophilic halves of the carbonic anhydrase active site. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 1494-501	8.3	69
282	The first activation study of a bacterial carbonic anhydrase (CA). The thermostable β CA from Sulfurihydrogenibium yellowstonense YO3AOP1 is highly activated by amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 6324-7	2.9	69
281	Inhibition of the β -carbonic anhydrase from Streptococcus pneumoniae 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
280	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
279	Metallocene-based inhibitors of cancer-associated carbonic anhydrase enzymes IX and XII. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 5506-17	8.3	68
278	Inhibition of the β -class carbonic anhydrases from Mycobacterium tuberculosis with carboxylic acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 392-6	5.6	68
277	Generation and characterization of the first inhibitory antibody targeting tumour-associated carbonic anhydrase XII. <i>Cancer Immunology, Immunotherapy</i> , 2011 , 60, 649-58	7.4	67
276	Biochemical characterization of recombinant β -carbonic anhydrase (PgiCAB) identified in the genome of the oral pathogenic bacterium Porphyromonas gingivalis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 366-70	5.6	64
275	Design, synthesis, and evaluation of hydroxamic acid derivatives as promising agents for the management of Chagas disease. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 298-308	8.3	64
274	Inhibition studies with anions and small molecules of two novel β -carbonic anhydrases from the bacterial pathogen Salmonella enterica serovar Typhimurium. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 3591-5	2.9	63
273	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 2569-2576	3.4	62
272	Biochemical characterization of the β -carbonic anhydrase from the oral pathogen Porphyromonas gingivalis, PgiCA. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 532-7	5.6	62
271	The extremo- β -carbonic anhydrase from the thermophilic bacterium Sulfurihydrogenibium azorense is highly inhibited by sulfonamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4521-5	3.4	60
270	Anion inhibition studies of the fastest carbonic anhydrase (CA) known, the extremo-CA from the bacterium Sulfurihydrogenibium azorense. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7142-5	2.9	60
269	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
268	Benzoxaborole as a new chemotype for carbonic anhydrase inhibition. <i>Chemical Communications</i> , 2016 , 52, 11983-11986	5.8	60

267	Carbonic anhydrase inhibitors. Synthesis, and molecular structure of novel series N-substituted NS(2-arylmethylthio-4-chloro-5-methylbenzenesulfonyl)guanidines and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. <i>European Journal of Medicinal Chemistry</i> , 2014 , 71, 135-47	6.8	58
266	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
265	Biochemical characterization of the β -carbonic anhydrase from the marine diatom <i>Thalassiosira weissflogii</i> , TweCA. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 906-11	5.6	58
264	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
263	Inhibition of membrane-associated carbonic anhydrase isozymes IX, XII and XIV with a library of glycoconjugate benzenesulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 987-92	2.9	57
262	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
261	Sulfonamide linked neoglycoconjugates--a new class of inhibitors for cancer-associated carbonic anhydrases. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 2913-26	8.3	55
260	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
259	The extremo- 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
258	Sulfonamide inhibition studies of the β -carbonic anhydrase from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 1115-20	3.4	51
257	The alpha-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
256	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
255	Structure and inhibition studies of a type II beta-carbonic anhydrase psCA3 from <i>Pseudomonas aeruginosa</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 4831-4838	3.4	49
254	Sulfonamide inhibition studies of the β -class carbonic anhydrase from the malaria pathogen <i>Plasmodium falciparum</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 526-31	3.4	48
253	Inhibition studies of a beta-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
252	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
251	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
250	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

249	Structural insights into carbonic anhydrase IX isoform specificity of carbohydrate-based sulfamates. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 8635-45	8.3	47
248	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
247	Carbonic anhydrase VII is S-glutathionylated without loss of catalytic activity and affinity for sulfonamide inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 1560-4	2.9	46
246	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
245	A prodrug approach toward cancer-related carbonic anhydrase inhibition. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 9623-34	8.3	46
244	Carbonic anhydrase inhibitors: benzenesulfonamides incorporating cyanoacrylamide moieties are low nanomolar/subnanomolar inhibitors of the tumor-associated isoforms IX and XII. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1396-403	3.4	46
243	Carbonic anhydrase inhibitors. Phenols incorporating 2- or 3-pyridyl-ethenylcarbonyl and tertiary amine moieties strongly inhibit <i>Saccharomyces cerevisiae</i> β -carbonic anhydrase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 495-9	5.6	46
242	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
241	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
240	S-glycosyl primary sulfonamides--a new structural class for selective inhibition of cancer-associated carbonic anhydrases. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 6421-32	8.3	45
239	Carbonic anhydrase activators: activation of the human isoforms VII (cytosolic) and XIV (transmembrane) with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 4107-12	2.9	45
238	Carbonic anhydrase activators: activation of isozyme XIII with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 3955-9	2.9	45
237	Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with fluorine-containing sulfonamides. The first subnanomolar CA IX inhibitor discovered. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 2351-6	2.9	45
236	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides derived from 4-isothiocyanato-benzolamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5775-80	2.9	45
235	Anion inhibition profiles of β and γ -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 3413-7	3.4	45
234	PEGylated Bis-Sulfonamide Carbonic Anhydrase Inhibitors Can Efficiently Control the Growth of Several Carbonic Anhydrase IX-Expressing Carcinomas. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 5077-88	8.3	45
233	Ethylene bis-imidazoles are highly potent and selective activators for isozymes VA and VII of carbonic anhydrase, with a potential nootropic effect. <i>Chemical Communications</i> , 2014 , 50, 5980-3	5.8	44
232	Anion inhibition studies of two new β -carbonic anhydrases from the bacterial pathogen <i>Legionella pneumophila</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 1127-32	2.9	44

231	Inhibition of the α -carbonic anhydrases from <i>Mycobacterium tuberculosis</i> with C-cinnamoyl glycosides: identification of the first inhibitor with anti-mycobacterial activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 740-3	2.9	44
230	Molecular cloning, characterization, and inhibition studies of a β -carbonic anhydrase from <i>Malassezia globosa</i> , a potential antidandruff target. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 3513-20	8.3	44
229	Carbonic anhydrase activators: activation of the human tumor-associated isozymes IX and XII with amino acids and amines. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 3530-6	3.4	44
228	Carbonic anhydrase inhibitors: inhibition of human and murine mitochondrial isozymes V with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 2857-61	2.9	44
227	Mono-/dihydroxybenzoic acid esters and phenol pyridinium derivatives as inhibitors of the mammalian carbonic anhydrase isoforms I, II, VII, IX, XII and XIV. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1564-9	3.4	43
226	Carbonic anhydrase activators: gold nanoparticles coated with derivatized histamine, histidine, and carnosine show enhanced activatory effects on several mammalian isoforms. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1170-7	8.3	43
225	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
224	Trimeric Radiofluorinated Sulfonamide Derivatives to Achieve In Vivo Selectivity for Carbonic Anhydrase IX-Targeted PET Imaging. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1434-40	8.9	42
223	Comparison of the sulfonamide inhibition profiles of the α and β -carbonic anhydrases from the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 1941-6	2.9	42
222	Inhibition of carbonic anhydrases from the extremophilic bacteria <i>Sulfurihydrogenibium yellowstonense</i> (SspCA) and <i>S. azorensis</i> (SazCA) with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 1941-6	3.4	42
221	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
220	Identification of 3,4-Dihydroisoquinoline-2(1H)-sulfonamides as potent carbonic anhydrase inhibitors: synthesis, biological evaluation, and enzyme--ligand X-ray studies. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 2401-8	8.3	42
219	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
218	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
217	PET Imaging of Carbonic Anhydrase IX Expression of HT-29 Tumor Xenograft Mice with (68)Ga-Labeled Benzenesulfonamides. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1137-46	5.6	41
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