

Anna Di Fiore

List of Publications by Year in descending order

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62
papers

4,518
citations

136885

32
h-index

138417

58
g-index

63
all docs

63
docs citations

63
times ranked

3304
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple Binding Modes of Inhibitors to Carbonic Anhydrases: How to Design Specific Drugs Targeting 15 Different Isoforms?. <i>Chemical Reviews</i> , 2012, 112, 4421-4468.	23.0	1,056
2	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, 16233-16238.	3.3	451
3	Biochemical Characterization of CA IX, One of the Most Active Carbonic Anhydrase Isozymes. <i>Journal of Biological Chemistry</i> , 2008, 283, 27799-27809.	1.6	258
4	Inhibition of carbonic anhydrase IX targets primary tumors, metastases, and cancer stem cells: Three for the price of one. <i>Medicinal Research Reviews</i> , 2018, 38, 1799-1836.	5.0	207
5	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, 2315-2320.	1.0	176
6	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. <i>Expert Opinion on Emerging Drugs</i> , 2008, 13, 383-392.	1.0	165
7	Carbonic Anhydrase Inhibitors: A 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, 5721-5727.	2.9	157
8	Are Carbonic Anhydrase Inhibitors Suitable for Obtaining Antiobesity Drugs ?. <i>Current Pharmaceutical Design</i> , 2008, 14, 655-660.	0.9	150
9	The zinc coordination pattern in the β -carbonic anhydrase from <i>Plasmodium falciparum</i> is different from all other carbonic anhydrase genetic families. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1385-1389.	1.0	108
10	Carbonic Anhydrase Inhibitors: A Hypoxia-Activatable Sulfonamides Incorporating Disulfide Bonds that Target the Tumor-Associated Isoform IX. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5544-5551.	2.9	100
11	X-ray structure of the first 'extremo- β -carbonic anhydrase', a dimeric enzyme from the thermophilic bacterium <i>Sulfurihydrogenibium yellowstonense</i> YO3AOP1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1150-1159.	2.5	100
12	2-Substituted Estradiol Bis-sulfamates, Multitargeted Antitumor Agents: A Synthesis, In Vitro SAR, Protein Crystallography, and In Vivo Activity. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 7683-7696.	2.9	98
13	Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 164-175.	1.5	97
14	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, 437-442.	1.0	93
15	Crystal structure of the C183S/C217S mutant of human CA VII in complex with acetazolamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 5023-5026.	1.0	81
16	Crystal structure of the most catalytically effective carbonic anhydrase enzyme known, SazCA from the thermophilic bacterium <i>Sulfurihydrogenibium azorense</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2002-2006.	1.0	72
17	Benzoxaborole as a new chemotype for carbonic anhydrase inhibition. <i>Chemical Communications</i> , 2016, 52, 11983-11986.	2.2	69
18	Thermostable Carbonic Anhydrases in Biotechnological Applications. <i>International Journal of Molecular Sciences</i> , 2015, 16, 15456-15480.	1.8	66

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19	Hydroxamate represents a versatile zinc binding group for the development of new carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2012, 48, 8838.	2.2	63
20	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, 1560-1564.	1.0	53
21	Structure-Activity Relationships of C-17 Cyano-Substituted Estratrienes as Anticancer Agents. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1295-1308.	2.9	50
22	Carbonic anhydrase inhibitors: X-ray crystallographic studies for the binding of N-substituted benzenesulfonamides to human isoform II. <i>Chemical Communications</i> , 2011, 47, 11636.	2.2	50
23	The Importance of Dynamic Effects on the Enzyme Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 17953-17960.	1.6	49
24	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 1937-1942.	1.0	40
25	Probing Molecular Interactions between Human Carbonic Anhydrases (hCAs) and a Novel Class of Benzenesulfonamides. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4316-4326.	2.9	40
26	Anticancer steroid sulfatase inhibitors: synthesis of a potent fluorinated second-generation agent, <i>in vitro</i> and <i>in vivo</i> activities, molecular modeling, and protein crystallography. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 2435-2444.	1.9	39
27	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, 1726-1731.	1.0	38
28	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, 2669-2674.	1.0	35
29	Insights into the role of reactive sulfhydryl groups of Carbonic Anhydrase III and VII during oxidative damage. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 5-12.	2.5	35
30	Structure and Stability of the Non-covalent Swapped Dimer of Bovine Seminal Ribonuclease. <i>Journal of Biological Chemistry</i> , 2004, 279, 36753-36760.	1.6	33
31	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> , 2006, 16, 6204-6208.	1.0	32
32	Recent Advances in Structural Studies of the Carbonic Anhydrase Family: The Crystal Structure of Human CA IX and CA XIII. <i>Current Pharmaceutical Design</i> , 2010, 16, 3246-3254.	0.9	32
33	Protective Role of Carbonic Anhydrases III and VII in Cellular Defense Mechanisms upon Redox Unbalance. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-9.	1.9	32
34	Structural Analysis of BldR from <i>Sulfolobus solfataricus</i> Provides Insights into the Molecular Basis of Transcriptional Activation in Archaea by MarR Family Proteins. <i>Journal of Molecular Biology</i> , 2009, 388, 559-569.	2.0	31
35	Exploring structural properties of potent human carbonic anhydrase inhibitors bearing a 4-(cycloalkylamino-1-carbonyl)benzenesulfonamide moiety. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 443-452.	2.6	31
36	The Role of the Hinge Loop in Domain Swapping. <i>Journal of Biological Chemistry</i> , 2005, 280, 13771-13778.	1.6	29

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37	Carbonic anhydrase inhibitors: Crystallographic and solution binding studies for the interaction of a boron-containing aromatic sulfamide with mammalian isoforms α -XV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3601-3605.	1.0	27
38	Faox enzymes inhibited Maillard reaction development during storage both in protein glucose model system and low lactose UHT milk. <i>Amino Acids</i> , 2014, 46, 279-288.	1.2	27
39	X-ray crystallographic and kinetic investigations of 6-sulfamoyl-saccharin as a carbonic anhydrase inhibitor. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4064-4069.	1.5	26
40	The anticonvulsant sulfamide JNJ-26990990 and its S,S-dioxide analog strongly inhibit carbonic anhydrases: solution and X-ray crystallographic studies. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4853-4858.	1.5	26
41	The Crystal Structure of a hCA VII Variant Provides Insights into the Molecular Determinants Responsible for Its Catalytic Behavior. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1571.	1.8	23
42	Human carbonic anhydrases and post-translational modifications: a hidden world possibly affecting protein properties and functions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1450-1461.	2.5	19
43	Biochemical and structural characterisation of a protozoan beta-carbonic anhydrase from <i>Trichomonas vaginalis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1292-1299.	2.5	19
44	The unswapped chain of bovine seminal ribonuclease: Crystal structure of the free and liganded monomeric derivative. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 52, 263-271.	1.5	17
45	Disclosing the Interaction of Carbonic Anhydrase IX with Cullin-Associated NEDD8-Dissociated Protein 1 by Molecular Modeling and Integrated Binding Measurements. <i>ACS Chemical Biology</i> , 2017, 12, 1460-1465.	1.6	17
46	Hydrophobic Substituents of the Phenylmethylsulfamide Moiety Can Be Used for the Development of New Selective Carbonic Anhydrase Inhibitors. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	14
47	Hydroxylamine-O-sulfonamide is a versatile lead compound for the development of carbonic anhydrase inhibitors. <i>Chemical Communications</i> , 2015, 51, 11519-11522.	2.2	10
48	Inhibition of the newly discovered β -carbonic anhydrase from the protozoan pathogen <i>Trichomonas vaginalis</i> with inorganic anions and small molecules. <i>Journal of Inorganic Biochemistry</i> , 2020, 213, 111274.	1.5	10
49	Exploration of the residues modulating the catalytic features of human carbonic anhydrase XIII by a site-specific mutagenesis approach. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1506-1510.	2.5	7
50	Exploring benzoxaborole derivatives as carbonic anhydrase inhibitors: a structural and computational analysis reveals their conformational variability as a tool to increase enzyme selectivity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 1498-1505.	2.5	7
51	Post-translational modifications in tumor-associated carbonic anhydrases. <i>Amino Acids</i> , 2022, 54, 543-558.	1.2	7
52	Looking toward the Rim of the Active Site Cavity of Druggable Human Carbonic Anhydrase Isoforms. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1000-1005.	1.3	6
53	Interaction Studies between Carbonic Anhydrase and a Sulfonamide Inhibitor by Experimental and Theoretical Approaches. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 271-277.	1.3	6
54	Biochemical and Structural Insights into the Winged Helix Domain of P150, the Largest Subunit of the Chromatin Assembly Factor 1. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2160.	1.8	6

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55	Recent Developments of Carbonic Anhydrase Inhibitors as Potential Drugs. BioMed Research International, 2015, 2015, 1-2.	0.9	4
56	Inhibition of the $\hat{\alpha}$ -carbonic anhydrase from the protozoan pathogen <i>Trichomonas vaginalis</i> with sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 330-335.	2.5	4
57	$\hat{\alpha}$ -Carbonic anhydrases. , 2019, , 19-54.		2
58	The crystal structures of 2-(4-benzhydrylpiperazin-1-yl)- <i>N</i> -(4-sulfamoylphenyl)acetamide in complex with human carbonic anhydrase II and VII provide insights into selective CA inhibitor development. New Journal of Chemistry, 2021, 45, 147-152.	1.4	2
59	Design, synthesis and biochemical evaluation of novel carbonic anhydrase inhibitors triggered by structural knowledge on hCA VII. Bioorganic and Medicinal Chemistry, 2021, 44, 116279.	1.4	2
60	Carbonic Anhydrase VII. , 2015, , 151-168.		1
61	$\hat{\alpha}$ - and $\hat{\beta}$ -carbonic anhydrases. , 2019, , 139-148.		1
62	Beta-Carbonic Anhydrase 1 from <i>Trichomonas Vaginalis</i> as New Antiprotozoan Drug Target. Topics in Medicinal Chemistry, 2021, , 1.	0.4	0