

# Brian P Mahon

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

939  
citations

516215

16  
h-index

525886

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonic Anhydrases: Role in pH Control and Cancer. <i>Metabolites</i> , 2018, 8, 19.	1.3	180
2	Targeting Carbonic Anhydrase IX Activity and Expression. <i>Molecules</i> , 2015, 20, 2323-2348.	1.7	103
3	Probing the Surface of Human Carbonic Anhydrase for Clues towards the Design of Isoform Specific Inhibitors. <i>BioMed Research International</i> , 2015, 2015, 1-15.	0.9	88
4	Saccharin: A lead compound for structure-based drug design of carbonic anhydrase IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 849-854.	1.4	69
5	Kinetic and X-ray crystallographic investigations on carbonic anhydrase isoforms I, II, IX and XII of a thioureido analog of SLC-0111. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 976-981.	1.4	63
6	Structure activity study of carbonic anhydrase IX: Selective inhibition with ureido-substituted benzenesulfonamides. <i>European Journal of Medicinal Chemistry</i> , 2017, 132, 184-191.	2.6	58
7	The Structure of Carbonic Anhydrase IX Is Adapted for Low-pH Catalysis. <i>Biochemistry</i> , 2016, 55, 4642-4653.	1.2	51
8	Structural Insights into Carbonic Anhydrase IX Isoform Specificity of Carbohydrate-Based Sulfamates. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 8635-8645.	2.9	50
9	Structure-Activity Relationships of Benzenesulfonamide-Based Inhibitors towards Carbonic Anhydrase Isoform Specificity. <i>ChemBioChem</i> , 2017, 18, 213-222.	1.3	38
10	Defective Hydrophobic Sliding Mechanism and Active Site Expansion in HIV-1 Protease Drug Resistant Variant Gly48Thr/Leu89Met: Mechanisms for the Loss of Saquinavir Binding Potency. <i>Biochemistry</i> , 2015, 54, 422-433.	1.2	27
11	Mapping Selective Inhibition of the Cancer-Related Carbonic Anhydrase IX Using Structure-Activity Relationships of Glucosyl-Based Sulfamates. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6630-6638.	2.9	25
12	Exploring Heteroaryl-pyrazole Carboxylic Acids as Human Carbonic Anhydrase XII Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 941-946.	1.3	23
13	Crystal Structure of Cleaved Serp-1, a Myxomavirus-Derived Immune Modulating Serpin: Structural Design of Serpin Reactive Center Loop Peptides with Improved Therapeutic Function. <i>Biochemistry</i> , 2018, 57, 1096-1107.	1.2	22
14	A sucrose-binding site provides a lead towards an isoform-specific inhibitor of the cancer-associated enzyme carbonic anhydrase IX. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 1352-1358.	0.4	21
15	Effects of Hinge-region Natural Polymorphisms on Human Immunodeficiency Virus-Type 1 Protease Structure, Dynamics, and Drug Pressure Evolution. <i>Journal of Biological Chemistry</i> , 2016, 291, 22741-22756.	1.6	20
16	Structural and biophysical characterization of the $\hat{\pm}$ -carbonic anhydrase from the gammaproteobacterium <i>Thiomicrospira crunogena</i> XCL-2: insights into engineering thermostable enzymes for CO <sub>2</sub> sequestration. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1745-1756.	2.5	16
17	Active-site solvent replenishment observed during human carbonic anhydrase II catalysis. <i>IUCr</i> , 2018, 5, 93-102.	1.0	15
18	Using neutron crystallography to elucidate the basis of selective inhibition of carbonic anhydrase by saccharin and a derivative. <i>Journal of Structural Biology</i> , 2019, 205, 147-154.	1.3	13

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19	Exploration of anionic inhibition of the $\hat{\pm}$ -carbonic anhydrase from <i>Thiomicrospira crunogena</i> XCL-2 gammaproteobacterium: A potential bio-catalytic agent for industrial CO <sub>2</sub> removal. <i>Chemical Engineering Science</i> , 2015, 138, 575-580.	1.9	11
20	Activity and anion inhibition studies of the $\hat{\pm}$ -carbonic anhydrase from <i>Thiomicrospira crunogena</i> XCL-2 Gammaproteobacterium. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4937-4940.	1.0	8
21	How Microtubules Build the Spindle Branch by Branch. <i>Annual Review of Cell and Developmental Biology</i> , 2022, 38, 1-23.	4.0	8
22	Observed surface lysine acetylation of human carbonic anhydrase II expressed in <i>Escherichia coli</i> . <i>Protein Science</i> , 2015, 24, 1800-1807.	3.1	6
23	Targeting aggressive cancers with an artificial sweetener: could saccharin be a lead compound in anticancer therapy?. <i>Future Oncology</i> , 2015, 11, 2117-2119.	1.1	6
24	Carbonic anhydrase II microcrystals suitable for XFEL studies. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 327-330.	0.4	6
25	Microbatch Mixing: "Shaken not Stirred", a Method for Macromolecular Microcrystal Production for Serial Crystallography. <i>Crystal Growth and Design</i> , 2016, 16, 6214-6221.	1.4	4
26	Biophysical Characterization of Cancer-Related Carbonic Anhydrase IX. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5277.	1.8	4
27	Sulfonamide inhibition studies of the $\hat{\pm}$ -carbonic anhydrase from the gammaproteobacterium <i>Thiomicrospira crunogena</i> XCL-2, TcrCA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 401-405.	1.0	2