

Robert McKenna

List of Publications by Year in descending order

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242
papers

10,781
citations

19655

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48312

88
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all docs

248
docs citations

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times ranked

7570
citing authors

#	ARTICLE	IF	CITATIONS
1	Dithiocarbamates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Action in Vivo. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1721-1730.	6.4	211
2	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.	4.1	200
3	Structure of Adeno-Associated Virus Serotype 8, a Gene Therapy Vector. <i>Journal of Virology</i> , 2007, 81, 12260-12271.	3.4	199
4	Entrapment of Carbon Dioxide in the Active Site of Carbonic Anhydrase II. <i>Journal of Biological Chemistry</i> , 2008, 283, 30766-30771.	3.4	197
5	Asparagine synthetase: Function, structure, and role in disease. <i>Journal of Biological Chemistry</i> , 2017, 292, 19952-19958.	3.4	197
6	Structural annotation of human carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 267-277.	5.2	189
7	Carbonic Anhydrases: Role in pH Control and Cancer. <i>Metabolites</i> , 2018, 8, 19.	2.9	180
8	Anticonvulsant/antiepileptic carbonic anhydrase inhibitors: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2013, 23, 717-724.	5.0	172
9	Structure determination of feline panleukopenia virus empty particles. <i>Proteins: Structure, Function and Bioinformatics</i> , 1993, 16, 155-171.	2.6	167
10	Solvent-Mediated Proton Transfer in Catalysis by Carbonic Anhydrase. <i>Accounts of Chemical Research</i> , 2007, 40, 669-675.	15.6	167
11	Structurally Mapping the Diverse Phenotype of Adeno-Associated Virus Serotype 4. <i>Journal of Virology</i> , 2006, 80, 11556-11570.	3.4	165
12	Structural Insight into the Unique Properties of Adeno-Associated Virus Serotype 9. <i>Journal of Virology</i> , 2012, 86, 6947-6958.	3.4	163
13	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. <i>Chemical Communications</i> , 2012, 48, 1868.	4.1	157
14	Atomic Crystal and Molecular Dynamics Simulation Structures of Human Carbonic Anhydrase II: Insights into the Proton Transfer Mechanism. <i>Biochemistry</i> , 2007, 46, 2930-2937.	2.5	155
15	Structure and Dynamics of Adeno-Associated Virus Serotype 1 VP1-Unique N-Terminal Domain and Its Role in Capsid Trafficking. <i>Journal of Virology</i> , 2013, 87, 4974-4984.	3.4	151
16	Structural and Kinetic Characterization of Active-Site Histidine as a Proton Shuttle in Catalysis by Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2005, 44, 1097-1105.	2.5	146
17	A Short, Strong Hydrogen Bond in the Active Site of Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2010, 49, 249-251.	2.5	138
18	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1828-1840.	3.0	126

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19	Structural Characterization of the Dual Glycan Binding Adeno-Associated Virus Serotype 6. <i>Journal of Virology</i> , 2010, 84, 12945-12957.	3.4	120
20	Comparative Analysis of Adeno-Associated Virus Capsid Stability and Dynamics. <i>Journal of Virology</i> , 2013, 87, 13150-13160.	3.4	114
21	Hypoxia-induced carbonic anhydrase IX facilitates lactate flux in human breast cancer cells by non-catalytic function. <i>Scientific Reports</i> , 2015, 5, 13605.	3.3	109
22	Targeting Carbonic Anhydrase IX Activity and Expression. <i>Molecules</i> , 2015, 20, 2323-2348.	3.8	103
23	Update on carbonic anhydrase inhibitors: a patent review (2008 – 2011). <i>Expert Opinion on Therapeutic Patents</i> , 2012, 22, 903-915.	5.0	102
24	Insights towards sulfonamide drug specificity in α -carbonic anhydrases. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1526-1533.	3.0	102
25	Capsid Antibodies to Different Adeno-Associated Virus Serotypes Bind Common Regions. <i>Journal of Virology</i> , 2013, 87, 9111-9124.	3.4	102
26	Structural and Kinetic Analysis of the Chemical Rescue of the Proton Transfer Function of Carbonic Anhydrase II. <i>Biochemistry</i> , 2001, 40, 1741-1748.	2.5	101
27	Neutron Diffraction of Acetazolamide-Bound Human Carbonic Anhydrase II Reveals Atomic Details of Drug Binding. <i>Journal of the American Chemical Society</i> , 2012, 134, 14726-14729.	13.7	100
28	Heparin binding induces conformational changes in Adeno-associated virus serotype 2. <i>Journal of Structural Biology</i> , 2009, 165, 146-156.	2.8	98
29	Structural study of interaction between brinzolamide and dorzolamide inhibition of human carbonic anhydrases. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 7210-7215.	3.0	98
30	Non-Classical Inhibition of Carbonic Anhydrase. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1150.	4.1	98
31	Carbonic Anhydrase Inhibitors Drug Design. <i>Sub-Cellular Biochemistry</i> , 2014, 75, 291-323.	2.4	96
32	Thermal Stability as a Determinant of AAV Serotype Identity. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 6, 171-182.	4.1	95
33	High-resolution structure of human carbonic anhydrase II complexed with acetazolamide reveals insights into inhibitor drug design. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 992-995.	0.7	93
34	Cancer Drug Development of Carbonic Anhydrase Inhibitors beyond the Active Site. <i>Molecules</i> , 2018, 23, 1045.	3.8	93
35	Intramolecular proton shuttle supports not only catalytic but also noncatalytic function of carbonic anhydrase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3071-3076.	7.1	92
36	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, 3105-3119.	3.0	90

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37	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.	1.9	88
38	Mapping a Neutralizing Epitope onto the Capsid of Adeno-Associated Virus Serotype 8. <i>Journal of Virology</i> , 2012, 86, 7739-7751.	3.4	86
39	Elucidation of the Proton Transport Mechanism in Human Carbonic Anhydrase II. <i>Journal of the American Chemical Society</i> , 2009, 131, 7598-7608.	13.7	84
40	Speeding Up Proton Transfer in a Fast Enzyme: Kinetic and Crystallographic Studies on the Effect of Hydrophobic Amino Acid Substitutions in the Active Site of Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2007, 46, 3803-3813.	2.5	83
41	Neutron Structure of Human Carbonic Anhydrase II: Implications for Proton Transfer. <i>Biochemistry</i> , 2010, 49, 415-421.	2.5	82
42	Structural Determinants of Tissue Tropism and In Vivo Pathogenicity for the Parvovirus Minute Virus of Mice. <i>Journal of Virology</i> , 2005, 79, 10931-10943.	3.4	79
43	Human Bocavirus Capsid Structure: Insights into the Structural Repertoire of the Parvoviridae. <i>Journal of Virology</i> , 2010, 84, 5880-5889.	3.4	79
44	Structural Studies of Adeno-Associated Virus Serotype 8 Capsid Transitions Associated with Endosomal Trafficking. <i>Journal of Virology</i> , 2011, 85, 11791-11799.	3.4	78
45	Biochemical and Physical Characterization of Parvovirus Minute Virus of Mice Virus-like Particles. <i>Virology</i> , 2000, 267, 299-309.	2.4	75
46	Sulfonamide Inhibitors of Human Carbonic Anhydrases Designed through a Three-Tails Approach: Improving Ligand/Isoform Matching and Selectivity of Action. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 7422-7444.	6.4	75
47	Sub-2-Å... Ewald curvature corrected structure of an AAV2 capsid variant. <i>Nature Communications</i> , 2018, 9, 3628.	12.8	73
48	Human Carbonic Anhydrase III: Structural and Kinetic Study of Catalysis and Proton Transfer. <i>Biochemistry</i> , 2005, 44, 10046-10053.	2.5	72
49	Host-Selected Amino Acid Changes at the Sialic Acid Binding Pocket of the Parvovirus Capsid Modulate Cell Binding Affinity and Determine Virulence. <i>Journal of Virology</i> , 2006, 80, 1563-1573.	3.4	72
50	Polylysine Induces an Antiparallel Actin Dimer That Nucleates Filament Assembly. <i>Journal of Biological Chemistry</i> , 2002, 277, 20999-21006.	3.4	70
51	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, 4376-4381.	2.2	70
52	Carbonic Anhydrase: An Efficient Enzyme with Possible Global Implications. <i>International Journal of Chemical Engineering</i> , 2013, 2013, 1-6.	2.4	70
53	Design of a Carbonic Anhydrase IX Active-Site Mimic To Screen Inhibitors for Possible Anticancer Properties. <i>Biochemistry</i> , 2009, 48, 1322-1331.	2.5	69
54	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, 3977-3981.	6.4	69

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55	Structural Insights into Adeno-Associated Virus Serotype 5. <i>Journal of Virology</i> , 2013, 87, 11187-11199.	3.4	69
56	Saccharin: A lead compound for structure-based drug design of carbonic anhydrase IX inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 849-854.	3.0	69
57	Chemical Rescue in Catalysis by Human Carbonic Anhydrases II and III. <i>Biochemistry</i> , 2002, 41, 3235-3242.	2.5	65
58	Structure of Human Carnitine Acetyltransferase. <i>Journal of Biological Chemistry</i> , 2003, 278, 13159-13165.	3.4	64
59	Adeno-Associated Virus Serotype 1 (AAV1)- and AAV5-Antibody Complex Structures Reveal Evolutionary Commonalities in Parvovirus Antigenic Reactivity. <i>Journal of Virology</i> , 2015, 89, 1794-1808.	3.4	64
60	Coumarinyl-substituted sulfonamides strongly inhibit several human carbonic anhydrase isoforms: solution and crystallographic investigations. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4873-4878.	3.0	63
61	Lactate flux in astrocytes is enhanced by a non-catalytic action of carbonic anhydrase II. <i>Journal of Physiology</i> , 2012, 590, 2333-2351.	2.9	63
62	Characterization of the Adeno-Associated Virus 1 and 6 Sialic Acid Binding Site. <i>Journal of Virology</i> , 2016, 90, 5219-5230.	3.4	63
63	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.	3.0	63
64	Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1314-1319.	2.8	61
65	Identification of the Sialic Acid Structures Recognized by Minute Virus of Mice and the Role of Binding Affinity in Virulence Adaptation. <i>Journal of Biological Chemistry</i> , 2006, 281, 25670-25677.	3.4	60
66	Elucidating the role of metal ions in carbonic anhydrase catalysis. <i>Nature Communications</i> , 2020, 11, 4557.	12.8	60
67	Structure activity study of carbonic anhydrase IX: Selective inhibition with ureido-substituted benzenesulfonamides. <i>European Journal of Medicinal Chemistry</i> , 2017, 132, 184-191.	5.5	58
68	Chemical Rescue of Enzymes: Proton Transfer in Mutants of Human Carbonic Anhydrase II. <i>Journal of the American Chemical Society</i> , 2011, 133, 6223-6234.	13.7	56
69	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.	3.0	56
70	Short α^2 peptides attenuate α^2 toxicity in vivo. <i>Journal of Experimental Medicine</i> , 2018, 215, 283-301.	8.5	56
71	Inhibition of Carbonic Anhydrase II by Thioxolone: A Mechanistic and Structural Study. <i>Biochemistry</i> , 2008, 47, 3174-3184.	2.5	54
72	Kinetic and structural characterization of thermostabilized mutants of human carbonic anhydrase II. <i>Protein Engineering, Design and Selection</i> , 2012, 25, 347-355.	2.1	54

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73	Evidence for pH-Dependent Protease Activity in the Adeno-Associated Virus Capsid. <i>Journal of Virology</i> , 2012, 86, 11877-11885.	3.4	53
74	Water Networks in Fast Proton Transfer during Catalysis by Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2013, 52, 125-131.	2.5	53
75	Adeno-Associated Virus Capsid Proteins May Play a Role in Transcription and Second-Strand Synthesis of Recombinant Genomes. <i>Journal of Virology</i> , 2014, 88, 1071-1079.	3.4	53
76	Discovery of \hat{I}^2 -Adrenergic Receptors Blockerâ€“Carbonic Anhydrase Inhibitor Hybrids for Multitargeted Antiglaucoma Therapy. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 5380-5394.	6.4	53
77	Neutron Structure of Human Carbonic Anhydrase II: A Hydrogen-Bonded Water Network â€œSwitchâ€œIs Observed between pH 7.8 and 10.0. <i>Biochemistry</i> , 2011, 50, 9421-9423.	2.5	52
78	The Structure of Carbonic Anhydrase IX Is Adapted for Low-pH Catalysis. <i>Biochemistry</i> , 2016, 55, 4642-4653.	2.5	51
79	Structural Insights into Carbonic Anhydrase IX Isoform Specificity of Carbohydrate-Based Sulfamates. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 8635-8645.	6.4	50
80	Sequestration of carbon dioxide by the hydrophobic pocket of the carbonic anhydrases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 326-331.	2.3	49
81	Carbonic Anhydrase Inhibition with Benzenesulfonamides and Tetrafluorobenzenesulfonamides Obtained via Click Chemistry. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 927-930.	2.8	48
82	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, 3732-3738.	3.0	47
83	Structure of neurotropic adeno-associated virus AAVrh.8. <i>Journal of Structural Biology</i> , 2015, 192, 21-36.	2.8	47
84	Differential expression and function of CAIX and CAXII in breast cancer: A comparison between tumorgraft models and cells. <i>PLoS ONE</i> , 2018, 13, e0199476.	2.5	47
85	A Class of 4-Sulfamoylphenyl- \hat{I} %-aminoalkyl Ethers with Effective Carbonic Anhydrase Inhibitory Action and Antiglaucoma Effects. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9673-9686.	6.4	46
86	Inclusion of a 5-fluorouracil moiety in nitrogenous bases derivatives as human carbonic anhydrase IX and XII inhibitors produced a targeted action against MDA-MB-231 and T47D breast cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2020, 190, 112112.	5.5	46
87	Completion of the AAV Structural Atlas: Serotype Capsid Structures Reveals Clade-Specific Features. <i>Viruses</i> , 2021, 13, 101.	3.3	46
88	The Role of Select Subtype Polymorphisms on HIV-1 Protease Conformational Sampling and Dynamics. <i>Journal of Biological Chemistry</i> , 2014, 289, 17203-17214.	3.4	43
89	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1271-1274.	0.7	42
90	Role of Hydrophilic Residues in Proton Transfer during Catalysis by Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2008, 47, 12028-12036.	2.5	41

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91	Carbonic anhydrase inhibitors: a review on the progress of patent literature (2011–2016). <i>Expert Opinion on Therapeutic Patents</i> , 2016, 26, 947-956.	5.0	40
92	"To Be or Not to Be" Protonated: Atomic Details of Human Carbonic Anhydrase-Clinical Drug Complexes by Neutron Crystallography and Simulation. <i>Structure</i> , 2018, 26, 383-390.e3.	3.3	40
93	Transport Activity of the Sodium Bicarbonate Cotransporter NBCe1 Is Enhanced by Different Isoforms of Carbonic Anhydrase. <i>PLoS ONE</i> , 2011, 6, e27167.	2.5	39
94	Structure of an Enteric Pathogen, Bovine Parvovirus. <i>Journal of Virology</i> , 2015, 89, 2603-2614.	3.4	39
95	Cryo-electron Microscopy Reconstruction and Stability Studies of the Wild Type and the R432A Variant of Adeno-associated Virus Type 2 Reveal that Capsid Structural Stability Is a Major Factor in Genome Packaging. <i>Journal of Virology</i> , 2016, 90, 8542-8551.	3.4	39
96	The Escherichia coli Clamp Loader Can Actively Pry Open the β^2 -Sliding Clamp. <i>Journal of Biological Chemistry</i> , 2011, 286, 42704-42714.	3.4	38
97	Structural and catalytic characterization of a thermally stable and acid-stable variant of human carbonic anhydrase II containing an engineered disulfide bond. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1414-1422.	2.5	38
98	Structure–Activity Relationships of Benzenesulfonamide-Based Inhibitors towards Carbonic Anhydrase Isoform Specificity. <i>ChemBioChem</i> , 2017, 18, 213-222.	2.6	38
99	Comparative Analysis of the Capsid Structures of AAVrh.10, AAVrh.39, and AAV8. <i>Journal of Virology</i> , 2020, 94, .	3.4	38
100	Production, purification, crystallization and preliminary X-ray structural studies of adeno-associated virus serotype 5. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 917-921.	0.7	37
101	Apo-Human Carbonic Anhydrase II Revisited: Implications of the Loss of a Metal in Protein Structure, Stability, and Solvent Network. <i>Biochemistry</i> , 2009, 48, 7365-7372.	2.5	37
102	Structural Insights into Human Bocaparvoviruses. <i>Journal of Virology</i> , 2017, 91, .	3.4	37
103	Crystallography and Its Impact on Carbonic Anhydrase Research. <i>International Journal of Medicinal Chemistry</i> , 2018, 2018, 1-21.	2.2	37
104	High-Resolution Structural Characterization of a New Adeno-associated Virus Serotype 5 Antibody Epitope toward Engineering Antibody-Resistant Recombinant Gene Delivery Vectors. <i>Journal of Virology</i> , 2019, 93, .	3.4	37
105	Carbonic Anhydrases and Their Biotechnological Applications. <i>Biomolecules</i> , 2013, 3, 553-562.	4.0	36
106	Joint neutron crystallographic and NMR solution studies of Tyr residue ionization and hydrogen bonding: Implications for enzyme-mediated proton transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5673-5678.	7.1	36
107	Origins of Enhanced Proton Transport in the Y7F Mutant of Human Carbonic Anhydrase II. <i>Journal of the American Chemical Society</i> , 2008, 130, 11399-11408.	13.7	35
108	Tricyclic Sulfonamides Incorporating Benzothiopyrano[4,3-c]pyrazole and Pyridothiopyrano[4,3-c]pyrazole Effectively Inhibit β^1 - and β^2 -Carbonic Anhydrase: X-ray Crystallography and Solution Investigations on 15 Isoforms. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 9619-9629.	6.4	35

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109	Structural and catalytic effects of proline substitution and surface loop deletion in the extended active site of human carbonic anhydrase <sc>II</sc>. FEBS Journal, 2015, 282, 1445-1457.	4.7	35
110	CAIX forms a transport metabolon with monocarboxylate transporters in human breast cancer cells. Oncogene, 2020, 39, 1710-1723.	5.9	35
111	Structural and kinetic analysis of proton shuttle residues in the active site of human carbonic anhydrase III. Proteins: Structure, Function and Bioinformatics, 2007, 68, 337-343.	2.6	33
112	Selective inhibition of carbonic anhydrase IX over carbonic anhydrase XII in breast cancer cells using benzene sulfonamides: Disconnect between activity and growth inhibition. PLoS ONE, 2018, 13, e0207417.	2.5	32
113	Adeno-Associated Virus (AAV) Capsid Stability and Liposome Remodeling During Endo/Lysosomal pH Trafficking. Viruses, 2020, 12, 668.	3.3	32
114	Structural insights and functional implications of choline acetyltransferase. Journal of Structural Biology, 2004, 148, 226-235.	2.8	31
115	Structural insight into activity enhancement and inhibition of H64A carbonic anhydrase II by imidazoles. IUCr, 2014, 1, 129-135.	2.2	31
116	The structure of AAVrh32.33, a novel gene delivery vector. Journal of Structural Biology, 2014, 186, 308-317.	2.8	31
117	Analysis of the Binding Moiety Mediating the Interaction between Monocarboxylate Transporters and Carbonic Anhydrase II. Journal of Biological Chemistry, 2015, 290, 4476-4486.	3.4	30
118	Tracking solvent and protein movement during CO ₂ release in carbonic anhydrase II crystals. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5257-5262.	7.1	30
119	Structural and Kinetic Study of the Extended Active Site for Proton Transfer in Human Carbonic Anhydrase II. Biochemistry, 2010, 49, 6394-6399.	2.5	29
120	Characterization of AAV-Specific Affinity Ligands: Consequences for Vector Purification and Development Strategies. Molecular Therapy - Methods and Clinical Development, 2020, 19, 362-373.	4.1	29
121	Structural Characterization of H-1 Parvovirus: Comparison of Infectious Virions to Empty Capsids. Journal of Virology, 2013, 87, 5128-5140.	3.4	28
122	An intramolecular lock facilitates folding and stabilizes the tertiary structure of <i>Streptococcus mutans</i> adhesin P1. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15746-15751.	7.1	28
123	Mapping Antigenic Epitopes on the Human Bocavirus Capsid. Journal of Virology, 2016, 90, 4670-4680.	3.4	28
124	Neutron structure of human carbonic anhydrase II in complex with methazolamide: mapping the solvent and hydrogen-bonding patterns of an effective clinical drug. IUCr, 2016, 3, 319-325.	2.2	27
125	â€œA Sweet Combinationâ€ Developing Saccharin and Acesulfame K Structures for Selectively Targeting the Tumor-Associated Carbonic Anhydrases IX and XII. Journal of Medicinal Chemistry, 2020, 63, 321-333.	6.4	27
126	Crystal Structure of Carbonic Anhydrase II in Complex with an Activating Ligand: Implications in Neuronal Function. Molecular Neurobiology, 2018, 55, 7431-7437.	4.0	26

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127	<i>Pseudomonas aeruginosa</i> \hat{I}^2 -carbonic anhydrase, psCA1, is required for calcium deposition and contributes to virulence. <i>Cell Calcium</i> , 2019, 84, 102080.	2.4	26
128	A non-catalytic function of carbonic anhydrase IX contributes to the glycolytic phenotype and pH regulation in human breast cancer cells. <i>Biochemical Journal</i> , 2019, 476, 1497-1513.	3.7	26
129	Membrane-anchored carbonic anhydrase IV interacts with monocarboxylate transporters via their chaperones CD147 and GP70. <i>Journal of Biological Chemistry</i> , 2019, 294, 593-607.	3.4	26
130	Structural Basis of Nanomolar Inhibition of Tumor-Associated Carbonic Anhydrase IX: X-Ray Crystallographic and Inhibition Study of Lipophilic Inhibitors with Acetazolamide Backbone. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 13064-13075.	6.4	26
131	Actin crystal dynamics: structural implications for F-actin nucleation, polymerization, and branching mediated by the anti-parallel dimer. <i>Journal of Structural Biology</i> , 2004, 146, 291-301.	2.8	25
132	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.	6.4	25
133	In Vitro Evaluation of ESE-15-ol, an Estradiol Analogue with Nanomolar Antimitotic and Carbonic Anhydrase Inhibitory Activity. <i>PLoS ONE</i> , 2012, 7, e52205.	2.5	25
134	Carbon Dioxide Trapped in a \hat{I}^2 -Carbonic Anhydrase. <i>Biochemistry</i> , 2015, 54, 6631-6638.	2.5	24
135	Atomic structure of a rationally engineered gene delivery vector, AAV2.5. <i>Journal of Structural Biology</i> , 2018, 203, 236-241.	2.8	24
136	Overview of the Carbonic Anhydrase Family. <i>Sub-Cellular Biochemistry</i> , 2014, 75, 3-5.	2.4	24
137	Production, purification, crystallization and preliminary X-ray analysis of adeno-associated virus serotype 8. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 558-561.	0.7	23
138	Structural Insights into the Extracytoplasmic Thiamine-Binding Lipoprotein p37 of <i>Mycoplasma hyorhinis</i> . <i>Journal of Bacteriology</i> , 2009, 191, 2585-2592.	2.2	23
139	Effect of incorporating a thiophene tail in the scaffold of acetazolamide on the inhibition of human carbonic anhydrase isoforms I, II, IX and XII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5646-5649.	2.2	23
140	Exploring Heteroaryl-pyrazole Carboxylic Acids as Human Carbonic Anhydrase XII Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 941-946.	2.8	23
141	Parvovirus Capsid Structures Required for Infection: Mutations Controlling Receptor Recognition and Protease Cleavages. <i>Journal of Virology</i> , 2017, 91, .	3.4	23
142	Characterization of a novel variant in siblings with Asparagine Synthetase Deficiency. <i>Molecular Genetics and Metabolism</i> , 2018, 123, 317-325.	1.1	23
143	Structural Mapping of Anion Inhibitors to \hat{I}^2 -Carbonic Anhydrase psCA3 from <i>Pseudomonas aeruginosa</i> . <i>ChemMedChem</i> , 2018, 13, 2024-2029.	3.2	23
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