

Brian G Miller

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.

39
papers

1,029
citations

19
h-index

32
g-index

39
ext. papers

1,148
ext. citations

5.8
avg, IF

4.6
L-index

#	Paper	IF	Citations
39	Nanosecond-Timescale Dynamics and Conformational Heterogeneity in Human GCK Regulation and Disease. <i>Biophysical Journal</i> , 2020 , 118, 1109-1118	2.9	2
38	Analysis of Interactions Stabilized by Fusicoccin A Reveals an Expanded Suite of Potential 14-3-3 Binding Partners. <i>ACS Chemical Biology</i> , 2020 , 15, 305-310	4.9	6
37	Selenolysine: A New Tool for Traceless Isopeptide Bond Formation. <i>Chemistry - A European Journal</i> , 2020 , 26, 4952-4957	4.8	5
36	Vertical Investigations of Enzyme Evolution Using Ancestral Sequence Reconstruction 2020 , 640-653		1
35	Probing the 14-3-3 Isoform-Specificity Profile of Protein-Protein Interactions Stabilized by Fusicoccin A. <i>ACS Omega</i> , 2020 , 5, 25029-25035	3.9	4
34	Molecular and cellular regulation of human glucokinase. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 663, 199-213	4.1	39
33	Mechanistic Origins of Enzyme Activation in Human Glucokinase Variants Associated with Congenital Hyperinsulinism. <i>Biochemistry</i> , 2018 , 57, 1632-1639	3.2	9
32	Short Total Synthesis of [N]-Cylindrospermopsins from NHCl Enables Precise Quantification of Freshwater Cyanobacterial Contamination. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6027-6032	16.4	19
31	Biliverdin Reductase B Dynamics Are Coupled to Coenzyme Binding. <i>Journal of Molecular Biology</i> , 2018 , 430, 3234-3250	6.5	13
30	Antidiabetic Disruptors of the Glucokinase-Glucokinase Regulatory Protein Complex Reorganize a Coulombic Interface. <i>Biochemistry</i> , 2017 , 56, 3150-3157	3.2	5
29	Biochemical and biophysical investigations of the interaction between human glucokinase and pro-apoptotic BAD. <i>PLoS ONE</i> , 2017 , 12, e0171587	3.7	4
28	Kinetic Basis of Carbohydrate-Mediated Inhibition of Human Glucokinase by the Glucokinase Regulatory Protein. <i>Biochemistry</i> , 2016 , 55, 2899-902	3.2	4
27	Conformational heterogeneity and intrinsic disorder in enzyme regulation: Glucokinase as a case study. <i>Intrinsically Disordered Proteins</i> , 2015 , 3, e1011008		10
26	Dual allosteric activation mechanisms in monomeric human glucokinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11553-8	11.5	34
25	Kinetic Cooperativity in Human Pancreatic Glucokinase Originates from Millisecond Dynamics of the Small Domain. <i>Angewandte Chemie</i> , 2015 , 127, 8247-8250	3.6	6
24	Kinetic Cooperativity in Human Pancreatic Glucokinase Originates from Millisecond Dynamics of the Small Domain. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8129-32	16.4	25
23	Role of connecting loop I in catalysis and allosteric regulation of human glucokinase. <i>Protein Science</i> , 2014 , 23, 915-22	6.3	8

22	Structural basis for regulation of human glucokinase by glucokinase regulatory protein. <i>Biochemistry</i> , 2013 , 52, 6232-9	3.2	36
21	Enantioselective synthesis of tatanans A-C and reinvestigation of their glucokinase-activating properties. <i>Nature Chemistry</i> , 2013 , 5, 410-6	17.6	39
20	Small-Molecule Allosteric Activation of Human Glucokinase in the Absence of Glucose. <i>ACS Medicinal Chemistry Letters</i> , 2013 , 4,	4.3	18
19	Enzyme recruitment and the evolution of new metabolic potential. <i>FASEB Journal</i> , 2013 , 27, 203.2	0.9	
18	Homotropic allosteric regulation in monomeric mammalian glucokinase. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 519, 103-11	4.1	33
17	Cooperativity in monomeric enzymes with single ligand-binding sites. <i>Bioorganic Chemistry</i> , 2012 , 43, 44-50	5.1	72
16	Order-disorder transitions govern kinetic cooperativity and allostery of monomeric human glucokinase. <i>PLoS Biology</i> , 2012 , 10, e1001452	9.7	43
15	Assessing and Exploiting the Persistence of Substrate Ambiguity in Modern Protein Catalysts 2011 , 343-362		
14	Direct evidence of conformational heterogeneity in human pancreatic glucokinase from high-resolution nuclear magnetic resonance. <i>Biochemistry</i> , 2010 , 49, 7969-71	3.2	26
13	Global fit analysis of glucose binding curves reveals a minimal model for kinetic cooperativity in human glucokinase. <i>Biochemistry</i> , 2010 , 49, 8902-11	3.2	22
12	Evolutionary bases of carbohydrate recognition and substrate discrimination in the ROK protein family. <i>Journal of Molecular Evolution</i> , 2010 , 70, 545-56	3.1	33
11	L-glyceraldehyde 3-phosphate reductase from <i>Escherichia coli</i> is a heme binding protein. <i>Bioorganic Chemistry</i> , 2010 , 38, 37-41	5.1	1
10	Activating mutations in the human glucokinase gene revealed by genetic selection. <i>Biochemistry</i> , 2009 , 48, 814-6	3.2	22
9	23-Residue C-terminal alpha-helix governs kinetic cooperativity in monomeric human glucokinase. <i>Biochemistry</i> , 2009 , 48, 6157-65	3.2	21
8	A metabolic bypass of the triosephosphate isomerase reaction. <i>Biochemistry</i> , 2008 , 47, 7983-5	3.2	19
7	Divergent evolution of function in the ROK sugar kinase superfamily: role of enzyme loops in substrate specificity. <i>Biochemistry</i> , 2007 , 46, 13564-72	3.2	24
6	OMP decarboxylase--An enigma persists. <i>Bioorganic Chemistry</i> , 2007 , 35, 465-9	5.1	27
5	The mutability of enzyme active-site shape determinants. <i>Protein Science</i> , 2007 , 16, 1965-8	6.3	7

4	Reconstitution of a defunct glycolytic pathway via recruitment of ambiguous sugar kinases. <i>Biochemistry</i> , 2005 , 44, 10776-83	3-2	41
3	Identifying latent enzyme activities: substrate ambiguity within modern bacterial sugar kinases. <i>Biochemistry</i> , 2004 , 43, 6387-92	3-2	76
2	Catalytic proficiency: the unusual case of OMP decarboxylase. <i>Annual Review of Biochemistry</i> , 2002 , 71, 847-85	29.1	231
1	Dissecting a charged network at the active site of orotidine-5]-phosphate decarboxylase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 15174-6	5-4	44