

Gregory J Crowther

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,540
citations

304743

22
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical genetics of <i>Plasmodium falciparum</i> . <i>Nature</i> , 2010, 465, 311-315.	27.8	515
2	Genomic-scale prioritization of drug targets: the TDR Targets database. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 900-907.	46.4	282
3	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016, 12, e1005763.	4.7	244
4	Formate as the Main Branch Point for Methylophilic Metabolism in <i>Methylobacterium extorquens</i> AM1. <i>Journal of Bacteriology</i> , 2008, 190, 5057-5062.	2.2	146
5	Identification of Attractive Drug Targets in Neglected-Disease Pathogens Using an In Silico Approach. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e804.	3.0	141
6	Acidosis inhibits oxidative phosphorylation in contracting human skeletal muscle in vivo. <i>Journal of Physiology</i> , 2003, 553, 589-599.	2.9	130
7	TDR Targets: a chemogenomics resource for neglected diseases. <i>Nucleic Acids Research</i> , 2012, 40, D1118-D1127.	14.5	109
8	Limits to sustainable muscle performance: interaction between glycolysis and oxidative phosphorylation. <i>Journal of Experimental Biology</i> , 2001, 204, 3189-3194.	1.7	74
9	Identification of inhibitors for putative malaria drug targets among novel antimalarial compounds. <i>Molecular and Biochemical Parasitology</i> , 2011, 175, 21-29.	1.1	69
10	Altered energetic properties in skeletal muscle of men with well-controlled insulin-dependent (type 1) diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E655-E662.	3.5	66
11	Identification of a Fourth Formate Dehydrogenase in <i>Methylobacterium extorquens</i> AM1 and Confirmation of the Essential Role of Formate Oxidation in Methylophilicity. <i>Journal of Bacteriology</i> , 2007, 189, 9076-9081.	2.2	64
12	Control of glycolysis in contracting skeletal muscle. II. Turning it off. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E74-E79.	3.5	62
13	Control of glycolysis in contracting skeletal muscle. I. Turning it on. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E67-E73.	3.5	61
14	A Systems Biology Approach Uncovers Cellular Strategies Used by <i>Methylobacterium extorquens</i> AM1 During the Switch from Multi- to Single-Carbon Growth. <i>PLoS ONE</i> , 2010, 5, e14091.	2.5	50
15	Fragment-Based Screening of a Natural Product Library against 62 Potential Malaria Drug Targets Employing Native Mass Spectrometry. <i>ACS Infectious Diseases</i> , 2018, 4, 431-444.	3.8	50
16	Analysis of Gene Islands Involved in Methanopterin-Linked C 1 Transfer Reactions Reveals New Functions and Provides Evolutionary Insights. <i>Journal of Bacteriology</i> , 2005, 187, 4607-4614.	2.2	46
17	Biochemical Screening of Five Protein Kinases from <i>Plasmodium falciparum</i> against 14,000 Cell-Active Compounds. <i>PLoS ONE</i> , 2016, 11, e0149996.	2.5	44
18	Buffer Optimization of Thermal Melt Assays of <i>Plasmodium</i> Proteins for Detection of Small-Molecule Ligands. <i>Journal of Biomolecular Screening</i> , 2009, 14, 700-707.	2.6	42

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19	Using Science Songs to Enhance Learning: An Interdisciplinary Approach. <i>CBE Life Sciences Education</i> , 2012, 11, 26-30.	2.3	41
20	<i>Plasmodium</i> Gametocyte Inhibition Identified from a Natural-Product-Based Fragment Library. <i>ACS Chemical Biology</i> , 2013, 8, 2654-2659.	3.4	39
21	Use of thermal melt curves to assess the quality of enzyme preparations. <i>Analytical Biochemistry</i> , 2010, 399, 268-275.	2.4	30
22	Expression of proteins in <i>Escherichia coli</i> as fusions with maltose-binding protein to rescue non-expressed targets in a high-throughput protein-expression and purification pipeline. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1006-1009.	0.7	25
23	A functional biopsy of muscle properties in sprinters and distance runners. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 1719-1724.	0.4	23
24	Characterization of Sphinganine Kinase Activity in Corn Shoot Microsomes. <i>Archives of Biochemistry and Biophysics</i> , 1997, 337, 284-290.	3.0	21
25	Cofactor-Independent Phosphoglycerate Mutase from Nematodes Has Limited Druggability, as Revealed by Two High-Throughput Screens. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2628.	3.0	19
26	Re: Misconceptions Are "So Yesterday!" <i>CBE Life Sciences Education</i> , 2014, 13, 3-5.	2.3	18
27	Bioaffinity Mass Spectrometry Screening. <i>Journal of Biomolecular Screening</i> , 2016, 21, 194-200.	2.6	17
28	Leveraging the power of music to improve science education. <i>International Journal of Science Education</i> , 2016, 38, 73-95.	1.9	17
29	Fiber recruitment affects oxidative recovery measurements of human muscle in vivo. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 1733-1737.	0.4	14
30	The SingAboutScience.org database: An educational resource for instructors and students. <i>Biochemistry and Molecular Biology Education</i> , 2012, 40, 19-22.	1.2	12
31	Amino Acid Jazz: Amplifying Biochemistry Concepts with Content-Rich Music. <i>Journal of Chemical Education</i> , 2013, 90, 1479-1483.	2.3	12
32	Which way do the ions go? A graph-drawing exercise for understanding electrochemical gradients. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2017, 41, 556-559.	1.6	11
33	A Mechanism-Based Whole-Cell Screening Assay to Identify Inhibitors of Protein Export in <i>Escherichia coli</i> by the Sec Pathway. <i>Journal of Biomolecular Screening</i> , 2012, 17, 535-541.	2.6	8
34	The Bacterial Sec Pathway of Protein Export: Screening and Follow-Up. <i>Journal of Biomolecular Screening</i> , 2015, 20, 921-926.	2.6	7
35	Songwriting to learn: how high school science fair participants use music to communicate personally relevant scientific concepts. <i>International Journal of Science Education, Part B: Communication and Public Engagement</i> , 2018, 8, 307-324.	1.5	6
36	Making Material More Memorable with Music. <i>American Biology Teacher</i> , 2013, 75, 713-714.	0.2	5

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37	Tunes in the Zoom Room: Remote Learning via Videoconference Discussions of Physiology Songs ^{â€}. Journal of Microbiology and Biology Education, 2021, 22, .	1.0	4
38	Is memorization the name of the game? Undergraduatesâ€™ perceptions of the usefulness of physiology songs. American Journal of Physiology - Advances in Physiology Education, 2020, 44, 104-112.	1.6	3
39	Songwriting to Learn: Can Students Learn A&P by Writing Content-Rich Lyrics?. HAPS Educator, 2017, 21, 119-123.	0.2	3
40	Poem: A is for alanine. Biochemistry and Molecular Biology Education, 2005, 33, 418-418.	1.2	1
41	Teaching the Core Concepts of Physiology: What, Why, and How. CBE Life Sciences Education, 2017, 16, fe7.	2.3	1