

James T Macdonald

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,101
citations

471509

17
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

1583
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-Free Protein Synthesis as a Prototyping Platform for Mammalian Synthetic Biology. <i>ACS Synthetic Biology</i> , 2020, 9, 144-156.	3.8	31
2	Rapid acquisition and model-based analysis of cell-free transcription-translation reactions from nonmodel bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4340-E4349.	7.1	162
3	Atomic Structure of Type VI Contractile Sheath from <i>Pseudomonas aeruginosa</i> . <i>Structure</i> , 2018, 26, 329-336.e3.	3.3	29
4	Cell-free synthetic biology for <i>in vitro</i> prototype engineering. <i>Biochemical Society Transactions</i> , 2017, 45, 785-791.	3.4	37
5	Computational Sequence Design with R2oDNA Designer. <i>Methods in Molecular Biology</i> , 2017, 1651, 249-262.	0.9	12
6	Delineation of metabolic gene clusters in plant genomes by chromatin signatures. <i>Nucleic Acids Research</i> , 2016, 44, 2255-2265.	14.5	66
7	Development of a <i>Bacillus subtilis</i> cell-free transcription-translation system for prototyping regulatory elements. <i>Metabolic Engineering</i> , 2016, 38, 370-381.	7.0	112
8	Synthetic beta-solenoid proteins with the fragment-free computational design of a beta-hairpin extension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10346-10351.	7.1	28
9	Computational protein design with backbone plasticity. <i>Biochemical Society Transactions</i> , 2016, 44, 1523-1529.	3.4	16
10	Developments in the Tools and Methodologies of Synthetic Biology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 60.	4.1	78
11	Structural and Mechanistic Insight into the <i>Listeria monocytogenes</i> Two-enzyme Lipoteichoic Acid Synthesis System. <i>Journal of Biological Chemistry</i> , 2014, 289, 28054-28069.	3.4	25
12	One-pot DNA construction for synthetic biology: the Modular Overlap-Directed Assembly with Linkers (MODAL) strategy. <i>Nucleic Acids Research</i> , 2014, 42, e7-e7.	14.5	99
13	R2oDNA Designer: Computational Design of Biologically Neutral Synthetic DNA Sequences. <i>ACS Synthetic Biology</i> , 2014, 3, 525-528.	3.8	63
14	High-quality protein backbone reconstruction from alpha carbons using Gaussian mixture models. <i>Journal of Computational Chemistry</i> , 2013, 34, 1881-1889.	3.3	52
15	Validating a Coarse-Grained Potential Energy Function through Protein Loop Modelling. <i>PLoS ONE</i> , 2013, 8, e65770.	2.5	14
16	Structural basis for the recognition and cleavage of abasic DNA in <i>Neisseria meningitidis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16852-16857.	7.1	19
17	Analytic Markovian Rates for Generalized Protein Structure Evolution. <i>PLoS ONE</i> , 2012, 7, e34228.	2.5	7
18	Computational design approaches and tools for synthetic biology. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 1-13.	1.3	74

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19	<i>De novo</i> backbone scaffolds for protein design. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 1311-1325.	2.6	37
20	Probing the "Dark Matter" of Protein Fold Space. <i>Structure</i> , 2009, 17, 1244-1252.	3.3	85
21	Unfolding crystallins: The destabilizing role of a β -hairpin cysteine in β 2-crystallin by simulation and experiment. <i>Protein Science</i> , 2005, 14, 1282-1292.	7.6	30
22	Comparison of Generalised Born/Surface Area with Periodic Boundary Simulations to Study Protein Unfolding. <i>Molecular Simulation</i> , 2004, 30, 333-340.	2.0	2
23	Electron momentum states and bremsstrahlung radiation from the ultraintense field ionization of atoms. <i>Optics Express</i> , 2004, 12, 3911.	3.4	19