

Vikram Khipple Mulligan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/497066/vikram-khipple-mulligan-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35 papers	2,431 citations	19 h-index	36 g-index
36 ext. papers	3,373 ext. citations	14 avg, IF	4.84 L-index

#	Paper	IF	Citations
35	Ensuring scientific reproducibility in bio-macromolecular modeling via extensive, automated benchmarks. <i>Nature Communications</i> , 2021 , 12, 6947	17.4	0
34	Computationally designed peptide macrocycle inhibitors of New Delhi metallo- β -lactamase 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	17
33	MHCEpitopeEnergy, a Flexible Rosetta-Based Biotherapeutic Deimmunization Platform. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2368-2382	6.1	6
32	Current directions in combining simulation-based macromolecular modeling approaches with deep learning. <i>Expert Opinion on Drug Discovery</i> , 2021 , 16, 1025-1044	6.2	3
31	Anchor extension: a structure-guided approach to design cyclic peptides targeting enzyme active sites. <i>Nature Communications</i> , 2021 , 12, 3384	17.4	12
30	XENet: Using a new graph convolution to accelerate the timeline for protein design on quantum computers. <i>PLoS Computational Biology</i> , 2021 , 17, e1009037	5	2
29	The emerging role of computational design in peptide macrocycle drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2020 , 15, 833-852	6.2	15
28	Better together: Elements of successful scientific software development in a distributed collaborative community. <i>PLoS Computational Biology</i> , 2020 , 16, e1007507	5	15
27	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , 2020 , 17, 665-680	21.6	165
26	Computational design of mixed chirality peptide macrocycles with internal symmetry. <i>Protein Science</i> , 2020 , 29, 2433-2445	6.3	9
25	De novo design of bioactive protein switches. <i>Nature</i> , 2019 , 572, 205-210	50.4	113
24	Programmable design of orthogonal protein heterodimers. <i>Nature</i> , 2019 , 565, 106-111	50.4	87
23	A systematic study of minima in alanine dipeptide. <i>Journal of Computational Chemistry</i> , 2019 , 40, 297-309	3.5	15
22	Accurate computational design of multipass transmembrane proteins. <i>Science</i> , 2018 , 359, 1042-1046	33.3	93
21	A computational method for the design of nested proteins by loop-directed domain insertion. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, 354-369	4.2	1
20	The Rosetta All-Atom Energy Function for Macromolecular Modeling and Design. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3031-3048	6.4	486
19	De novo design of covalently constrained mesosize protein scaffolds with unique tertiary structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10852-10857	11.5	44

18	Global analysis of protein folding using massively parallel design, synthesis, and testing. <i>Science</i> , 2017 , 357, 168-175	33.3	241
17	Comprehensive computational design of ordered peptide macrocycles. <i>Science</i> , 2017 , 358, 1461-1466	33.3	96
16	Accurate de novo design of hyperstable constrained peptides. <i>Nature</i> , 2016 , 538, 329-335	50.4	231
15	Simultaneous Optimization of Biomolecular Energy Functions on Features from Small Molecules and Macromolecules. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 6201-6212	6.4	199
14	Computational design of an unnatural amino acid dependent metalloprotein with atomic level accuracy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13393-9	16.4	84
13	Protein misfolding in the late-onset neurodegenerative diseases: common themes and the unique case of amyotrophic lateral sclerosis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 1285-303	4.2	62
12	Early steps in oxidation-induced SOD1 misfolding: implications for non-amyloid protein aggregation in familial ALS. <i>Journal of Molecular Biology</i> , 2012 , 421, 631-52	6.5	38
11	Analyzing complicated protein folding kinetics rapidly by analytical Laplace inversion using a Tikhonov regularization variant. <i>Analytical Biochemistry</i> , 2012 , 421, 181-90	3.1	7
10	ALS-causing SOD1 mutations promote production of copper-deficient misfolded species. <i>Journal of Molecular Biology</i> , 2011 , 409, 839-52	6.5	33
9	CCM3/PDCD10 heterodimerizes with germinal center kinase III (GCKIII) proteins using a mechanism analogous to CCM3 homodimerization. <i>Journal of Biological Chemistry</i> , 2011 , 286, 25056-64	5.4	50
8	Prion disease susceptibility is affected by beta-structure folding propensity and local side-chain interactions in PrP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19808-13	11.5	102
7	Conversion of Abeta42 into a folded soluble native-like protein using a semi-random library of amphipathic helices. <i>Journal of Molecular Biology</i> , 2010 , 396, 1284-94	6.5	10
6	Denaturational stress induces formation of zinc-deficient monomers of Cu,Zn superoxide dismutase: implications for pathogenesis in amyotrophic lateral sclerosis. <i>Journal of Molecular Biology</i> , 2008 , 383, 424-36	6.5	40
5	Correction: Drosophila melanogaster Cad99C, the orthologue of human Usher cadherin PCDH15, regulates the length of microvilli. <i>Journal of Cell Biology</i> , 2005 , 171, 1085-1085	7.3	78
4	Drosophila melanogaster Cad99C, the orthologue of human Usher cadherin PCDH15, regulates the length of microvilli. <i>Journal of Cell Biology</i> , 2005 , 171, 549-58	7.3	59
3	The Rosetta all-atom energy function for macromolecular modeling and design		3
2	Designing Peptides on a Quantum Computer		13
1	Ensuring scientific reproducibility in bio-macromolecular modeling via extensive, automated benchmarks		2

