

Colin A Smith

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.

27 papers	16,325 citations	19 h-index	32 g-index
32 ext. papers	18,609 ext. citations	6.5 avg, IF	5.62 L-index

#	Paper	IF	Citations
27	Free energy calculations of ALS-causing SOD1 mutants reveal common perturbations to stability and dynamics along the maturation pathway. <i>Protein Science</i> , 2021 , 30, 1804-1817	6.3	2
26	Resolving overlapped signals with automated FitNMR analytical peak modeling. <i>Journal of Magnetic Resonance</i> , 2020 , 318, 106773	3	2
25	Enhancing NMR derived ensembles with kinetics on multiple timescales. <i>Journal of Biomolecular NMR</i> , 2020 , 74, 27-43	3	5
24	Mechanistic Insights into Microsecond Time-Scale Motion of Solid Proteins Using Complementary N and H Relaxation Dispersion Techniques. <i>Journal of the American Chemical Society</i> , 2019 , 141, 858-869	16.4	28
23	Recent advances in measuring the kinetics of biomolecules by NMR relaxation dispersion spectroscopy. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 628, 81-91	4.1	19
22	Personalised estimation of a woman's most fertile days. <i>European Journal of Contraception and Reproductive Health Care</i> , 2016 , 21, 323-8	1.8	13
21	Allosteric switch regulates protein-protein binding through collective motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3269-74	11.5	45
20	Population shuffling of protein conformations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 207-104	10.4	50
19	A Web Resource for Standardized Benchmark Datasets, Metrics, and Rosetta Protocols for Macromolecular Modeling and Design. <i>PLoS ONE</i> , 2015 , 10, e0130433	3.7	58
18	ORIUM: optimized RDC-based Iterative and Unified Model-free analysis. <i>Journal of Biomolecular NMR</i> , 2014 , 58, 287-301	3	17
17	Design of a phosphorylatable PDZ domain with peptide-specific affinity changes. <i>Structure</i> , 2013 , 21, 54-64	5.2	14
16	Flexible backbone sampling methods to model and design protein alternative conformations. <i>Methods in Enzymology</i> , 2013 , 523, 61-85	1.7	36
15	ROSETTA3: an object-oriented software suite for the simulation and design of macromolecules. <i>Methods in Enzymology</i> , 2011 , 487, 545-74	1.7	1216
14	Predicting the tolerated sequences for proteins and protein interfaces using RosettaBackrub flexible backbone design. <i>PLoS ONE</i> , 2011 , 6, e20451	3.7	73
13	RosettaBackrub--a web server for flexible backbone protein structure modeling and design. <i>Nucleic Acids Research</i> , 2010 , 38, W569-75	20.1	94
12	Structure-based prediction of the peptide sequence space recognized by natural and synthetic PDZ domains. <i>Journal of Molecular Biology</i> , 2010 , 402, 460-74	6.5	84
11	A simple model of backbone flexibility improves modeling of side-chain conformational variability. <i>Journal of Molecular Biology</i> , 2008 , 380, 757-74	6.5	60

10	Backrub-like backbone simulation recapitulates natural protein conformational variability and improves mutant side-chain prediction. <i>Journal of Molecular Biology</i> , 2008 , 380, 742-56	6.5	232
9	New method for the assessment of all drug-like pockets across a structural genome. <i>Journal of Computational Biology</i> , 2008 , 15, 231-40	1.7	19
8	Metabolomics relative quantitation with mass spectrometry using chemical derivatization and isotope labeling. <i>Spectroscopy</i> , 2008 , 22, 327-343		15
7	Discovery of novel inhibitors targeting enoyl-acyl carrier protein reductase in <i>Plasmodium falciparum</i> by structure-based virtual screening. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 358, 686-91	3.4	38
6	Solvent-dependent metabolite distribution, clustering, and protein extraction for serum profiling with mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 743-52	7.8	336
5	XCMS: processing mass spectrometry data for metabolite profiling using nonlinear peak alignment, matching, and identification. <i>Analytical Chemistry</i> , 2006 , 78, 779-87	7.8	3048
4	Phospholipid capture combined with non-linear chromatographic correction for improved serum metabolite profiling. <i>Metabolomics</i> , 2006 , 2, 145-154	4.7	24
3	Insights into the human CD59 complement binding interface toward engineering new therapeutics. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34073-9	5.4	26
2	METLIN: a metabolite mass spectral database. <i>Therapeutic Drug Monitoring</i> , 2005 , 27, 747-51	3.2	1623
1	Bioconductor: open software development for computational biology and bioinformatics. <i>Genome Biology</i> , 2004 , 5, R80	18.3	9148