R Dustin Schaeffer

List of Publications by Year
in descending order

24 papers	3,963 citations	567281 15 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	3489 citing authors

#	Article	IF	Citations
1	Accurate prediction of protein structures and interactions using a three-track neural network. Science, 2021, 373, 871-876.	12.6	2,843
2	ECOD: An Evolutionary Classification of Protein Domains. PLoS Computational Biology, 2014, 10, e1003926.	3.2	321
3	Dynameomics: A Comprehensive Database of Protein Dynamics. Structure, 2010, 18, 423-435.	3.3	131
4	Combining experiment and simulation in protein folding: closing the gap for small model systems. Current Opinion in Structural Biology, 2008, 18, 4-9.	5.7	98
5	ECOD: new developments in the evolutionary classification of domains. Nucleic Acids Research, 2017, 45, D296-D302.	14.5	68
6	Manual classification strategies in the <scp>ECOD</scp> database. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1238-1251.	2.6	64
7	Dynameomics: mass annotation of protein dynamics and unfolding in water by high-throughput atomistic molecular dynamics simulations. Protein Engineering, Design and Selection, 2008, 21, 353-368.	2.1	60
8	Protein folds and protein folding. Protein Engineering, Design and Selection, 2011, 24, 11-19.	2.1	59
9	Functional analysis of Rossmann-like domains reveals convergent evolution of topology and reaction pathways. PLoS Computational Biology, 2019, 15, e1007569.	3.2	45
10	Topology evaluation of models for difficult targets in the 14th round of the critical assessment of protein structure prediction (CASP14). Proteins: Structure, Function and Bioinformatics, 2021, 89, 1673-1686.	2.6	35
11	Generation of a consensus protein domain dictionary. Bioinformatics, 2011, 27, 46-54.	4.1	33
12	Target classification in the 14th <scp>round</scp> of the <scp>critical assessment of protein structure prediction</scp> (<scp>CASP14</scp>). Proteins: Structure, Function and Bioinformatics, 2021, 89, 1618-1632.	2.6	32
13	CASP 11 target classification. Proteins: Structure, Function and Bioinformatics, 2016, 84, 20-33.	2.6	31
14	A Fifth of the Protein World: Rossmann-like Proteins as an Evolutionarily Successful Structural unit. Journal of Molecular Biology, 2021, 433, 166788.	4.2	26
15	Classification of proteins with shared motifs and internal repeats in the <scp>ECOD</scp> database. Protein Science, 2016, 25, 1188-1203.	7.6	23
16	Manifestations of Native Topology in the Denatured State Ensemble of <i>Rhodopseudomonas palustris</i> Cytochrome <i>c</i> â€². Biochemistry, 2011, 50, 1029-1041.	2.5	19
17	ECOD: identification of distant homology among multidomain and transmembrane domain proteins. BMC Molecular and Cell Biology, 2019, 20, 18.	2.0	12
18	Completeness and Consistency in Structural Domain Classifications. ACS Omega, 2021, 6, 15698-15707.	3.5	8

#	Article	IF	Citations
19	Assessment of domain interactions in the fourteenth round of the Critical Assessment of Structure Prediction (CASP14). Proteins: Structure, Function and Bioinformatics, 2021, 89, 1700-1710.	2.6	8
20	Estimation of Uncertainties in the Global Distance Test (GDT_TS) for CASP Models. PLoS ONE, 2016, 11, e0154786.	2.5	8
21	Searching ECOD for Homologous Domains by Sequence and Structure. Current Protocols in Bioinformatics, 2018, 61, e45.	25.8	7
22	A sequence family database built on ECOD structural domains. Bioinformatics, 2018, 34, 2997-3003.	4.1	5
23	Dynameomics: protein dynamics and unfolding across fold space. Biomolecular Concepts, 2010, 1, 335-344.	2.2	1
24	Identification of Multiple Folding Pathways Shared by Three-Helix Bundle Proteins. Biophysical Journal, 2010, 98, 636a.	0.5	0