

Sergey Ovchinnikov

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.

52 papers	4,162 citations	27 h-index	56 g-index
56 ext. papers	8,392 ext. citations	15 avg, IF	5.91 L-index

#	Paper	IF	Citations
52	Interpreting Potts and Transformer Protein Models Through the Lens of Simplified Attention. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2022 , 27, 34-45	1.3	1
51	Computed structures of core eukaryotic protein complexes. <i>Science</i> , 2021 , 374, eabm4805	33.3	51
50	De novo protein design by deep network hallucination. <i>Nature</i> , 2021 ,	50.4	33
49	Protein sequence design by conformational landscape optimization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	29
48	Accurate prediction of protein structures and interactions using a three-track neural network. <i>Science</i> , 2021 , 373, 871-876	33.3	522
47	Structure-based protein design with deep learning. <i>Current Opinion in Chemical Biology</i> , 2021 , 65, 136-144	4.7	3
46	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , 2020 , 17, 665-680	21.6	165
45	Structure determination of the HgcAB complex using metagenome sequence data: insights into microbial mercury methylation. <i>Communications Biology</i> , 2020 , 3, 320	6.7	8
44	Improved protein structure prediction using predicted interresidue orientations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1496-1503	11.5	496
43	Structural basis of ER-associated protein degradation mediated by the Hrd1 ubiquitin ligase complex. <i>Science</i> , 2020 , 368,	33.3	60
42	Development of a dual-functional conjugate of antigenic peptide and Fc-III mimetics (DCAF) for targeted antibody blocking. <i>Chemical Science</i> , 2019 , 10, 3271-3280	9.4	7
41	A structural and data-driven approach to engineering a plant cytochrome P450 enzyme. <i>Science China Life Sciences</i> , 2019 , 62, 873-882	8.5	6
40	A demonstration of unsupervised machine learning in species delimitation. <i>Molecular Phylogenetics and Evolution</i> , 2019 , 139, 106562	4.1	36
39	Template-based modeling by ClusPro in CASP13 and the potential for using co-evolutionary information in docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019 , 87, 1241-1248	4.2	7
38	Protein interaction networks revealed by proteome coevolution. <i>Science</i> , 2019 , 365, 185-189	33.3	112
37	Structurally Mapping Endogenous Heme in the CcmCDE Membrane Complex for Cytochrome c Biogenesis. <i>Journal of Molecular Biology</i> , 2018 , 430, 1065-1080	6.5	11
36	Protein homology model refinement by large-scale energy optimization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3054-3059	11.5	49

35	Protein structure prediction using Rosetta in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86 Suppl 1, 113-121	4.2	63
34	Automatic structure prediction of oligomeric assemblies using Robetta in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86 Suppl 1, 283-291	4.2	29
33	An analysis and evaluation of the WeFold collaborative for protein structure prediction and its pipelines in CASP11 and CASP12. <i>Scientific Reports</i> , 2018 , 8, 9939	4.9	16
32	De novo design of a fluorescence-activating E-barrel. <i>Nature</i> , 2018 , 561, 485-491	50.4	156
31	Protein structure determination using metagenome sequence data. <i>Science</i> , 2017 , 355, 294-298	33.3	346
30	Overcoming an optimization plateau in the directed evolution of highly efficient nerve agent bioscavengers. <i>Protein Engineering, Design and Selection</i> , 2017 , 30, 333-345	1.9	41
29	Origins of coevolution between residues distant in protein 3D structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9122-9127	11.5	92
28	Cryo-EM structure of the protein-conducting ERAD channel Hrd1 in complex with Hrd3. <i>Nature</i> , 2017 , 548, 352-355	50.4	117
27	Applications of contact predictions to structural biology. <i>IUCrJ</i> , 2017 , 4, 291-300	4.7	30
26	New insights into substrate folding preference of plant OSCs. <i>Science Bulletin</i> , 2016 , 61, 1407-1412	10.6	8
25	Catalytic efficiencies of directly evolved phosphotriesterase variants with structurally different organophosphorus compounds in vitro. <i>Archives of Toxicology</i> , 2016 , 90, 2711-2724	5.8	35
24	Structure prediction using sparse simulated NOE restraints with Rosetta in CASP11. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84 Suppl 1, 181-8	4.2	11
23	Structural insights into SAM domain-mediated tankyrase oligomerization. <i>Protein Science</i> , 2016 , 25, 1744-1752	4.52	15
22	Improved de novo structure prediction in CASP11 by incorporating coevolution information into Rosetta. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84 Suppl 1, 67-75	4.2	82
21	Structure of a bd oxidase indicates similar mechanisms for membrane-integrated oxygen reductases. <i>Science</i> , 2016 , 352, 583-6	33.3	101
20	Computation and Functional Studies Provide a Model for the Structure of the Zinc Transporter hZIP4. <i>Journal of Biological Chemistry</i> , 2015 , 290, 17796-17805	5.4	51
19	Large-scale determination of previously unsolved protein structures using evolutionary information. <i>ELife</i> , 2015 , 4, e09248	8.9	173
18	Robust and accurate prediction of residue-residue interactions across protein interfaces using evolutionary information. <i>ELife</i> , 2014 , 3, e02030	8.9	397

17	Author response: Robust and accurate prediction of residue-residue interactions across protein interfaces using evolutionary information 2014 ,		3
16	Assessing the utility of coevolution-based residue-residue contact predictions in a sequence- and structure-rich era. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15674-9	11.5	423
15	ColabFold - Making protein folding accessible to all		2
14	Deep learning methods for designing proteins scaffolding functional sites		4
13	Structures of core eukaryotic protein complexes		7
12	End-to-end learning of multiple sequence alignments with differentiable Smith-Waterman		2
11	De novo protein design by deep network hallucination		26
10	Protein sequence design by explicit energy landscape optimization		4
9	Design of proteins presenting discontinuous functional sites using deep learning		8
8	Transformer protein language models are unsupervised structure learners		26
7	Single Layers of Attention Suffice to Predict Protein Contacts		7
6	Improved protein structure prediction using predicted inter-residue orientations		17
5	Accurate prediction of protein structures and interactions using a 3-track network		9
4	ColabFold - Making protein folding accessible to all		114
3	A structural biology community assessment of AlphaFold 2 applications		19
2	State-of-the-Art Estimation of Protein Model Accuracy using AlphaFold		4
1	ColabFold: making protein folding accessible to all. <i>Nature Methods</i> ,	21.6	129