

# Hahnbeom Park

## List of Publications by Citations

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**Version:** 2024-04-18

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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.

48  
papers

4,509  
citations

27  
h-index

62  
g-index

62  
ext. papers

7,511  
ext. citations

8.5  
avg, IF

5.92  
L-index

#	Paper	IF	Citations
48	Accurate prediction of protein structures and interactions using a three-track neural network. <i>Science</i> , <b>2021</b> , 373, 871-876	33.3	522
47	Improved protein structure prediction using predicted interresidue orientations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1496-1503	11.5	496
46	The Rosetta All-Atom Energy Function for Macromolecular Modeling and Design. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 3031-3048	6.4	486
45	GalaxyRefine: Protein structure refinement driven by side-chain repacking. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, W384-8	20.1	403
44	Protein structure determination using metagenome sequence data. <i>Science</i> , <b>2017</b> , 355, 294-298	33.3	346
43	GalaxyWEB server for protein structure prediction and refinement. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, W294-7	24.7	335
42	Simultaneous Optimization of Biomolecular Energy Functions on Features from Small Molecules and Macromolecules. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 6201-6212	6.4	199
41	Large-scale determination of previously unsolved protein structures using evolutionary information. <i>ELife</i> , <b>2015</b> , 4, e09248	8.9	173
40	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , <b>2020</b> , 17, 665-680	21.6	165
39	De novo design of a fluorescence-activating E-barrel. <i>Nature</i> , <b>2018</b> , 561, 485-491	50.4	156
38	Advances in GPCR modeling evaluated by the GPCR Dock 2013 assessment: meeting new challenges. <i>Structure</i> , <b>2014</b> , 22, 1120-1139	5.2	136
37	Community-wide assessment of protein-interface modeling suggests improvements to design methodology. <i>Journal of Molecular Biology</i> , <b>2011</b> , 414, 289-302	6.5	114
36	Community-wide evaluation of methods for predicting the effect of mutations on protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 1980-7	4.2	78
35	Protein loop modeling by using fragment assembly and analytical loop closure. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 3428-36	4.2	77
34	The FALC-Loop web server for protein loop modeling. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, W210-4	20.1	72
33	GalaxyTBM: template-based modeling by building a reliable core and refining unreliable local regions. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 198	3.6	64
32	Protein structure prediction using Rosetta in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86 Suppl 1, 113-121	4.2	63

31	Protein loop modeling using a new hybrid energy function and its application to modeling in inaccurate structural environments. <i>PLoS ONE</i> , <b>2014</b> , 9, e113811	3.7	54
30	Improved protein structure refinement guided by deep learning based accuracy estimation. <i>Nature Communications</i> , <b>2021</b> , 12, 1340	17.4	50
29	Protein homology model refinement by large-scale energy optimization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3054-3059	11.5	49
28	Refinement of unreliable local regions in template-based protein models. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2012</b> , 80, 1974-86	4.2	47
27	Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 620-32	4.2	43
26	Strength of Calpha-H...O=C hydrogen bonds in transmembrane proteins. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 1041-8	3.4	35
25	Transmembrane signaling of chemotaxis receptor tar: insights from molecular dynamics simulation studies. <i>Biophysical Journal</i> , <b>2011</b> , 100, 2955-63	2.9	32
24	High-resolution protein-protein docking by global optimization: recent advances and future challenges. <i>Current Opinion in Structural Biology</i> , <b>2015</b> , 35, 24-31	8.1	30
23	GalaxyGemini: a web server for protein homo-oligomer structure prediction based on similarity. <i>Bioinformatics</i> , <b>2013</b> , 29, 1078-80	7.2	30
22	Automatic structure prediction of oligomeric assemblies using Robetta in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86 Suppl 1, 283-291	4.2	29
21	High-accuracy refinement using Rosetta in CASP13. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1276-1282	4.2	26
20	Sampling and energy evaluation challenges in ligand binding protein design. <i>Protein Science</i> , <b>2017</b> , 26, 2426-2437	6.3	23
19	Refinement of protein termini in template-based modeling using conformational space annealing. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79, 2725-34	4.2	19
18	Efficient consideration of coordinated water molecules improves computational protein-protein and protein-ligand docking discrimination. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008103	5	19
17	CASP11 refinement experiments with ROSETTA. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84 Suppl 1, 314-22	4.2	18
16	Improved protein structure prediction using predicted inter-residue orientations		17
15	The origin of consistent protein structure refinement from structural averaging. <i>Structure</i> , <b>2015</b> , 23, 1123-8	5.2	14
14	Force Field Optimization Guided by Small Molecule Crystal Lattice Data Enables Consistent Sub-Angstrom Protein-Ligand Docking. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 2000-2010	6.4	12

13	Prediction of Protein Mutational Free Energy: Benchmark and Sampling Improvements Increase Classification Accuracy. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 558247	5.8	11
12	Structure prediction using sparse simulated NOE restraints with Rosetta in CASP11. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84 Suppl 1, 181-8	4.2	11
11	Improved protein structure refinement guided by deep learning based accuracy estimation		10
10	Accurate prediction of protein structures and interactions using a 3-track network		9
9	Protein tertiary structure prediction and refinement using deep learning and Rosetta in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1722-1733	4.2	9
8	How does a registry change in dyneins coiled-coil stalk drive binding of dynein to microtubules?. <i>Biochemistry</i> , <b>2011</b> , 50, 7629-36	3.2	5
7	Conformational Sampling of Flexible Ligand-binding Protein Loops. <i>Bulletin of the Korean Chemical Society</i> , <b>2012</b> , 33, 770-774	1.2	4
6	Protein oligomer modeling guided by predicted interchain contacts in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1824-1833	4.2	4
5	Accurate protein structure prediction: what comes next?. <i>Biodesign</i> , <b>2021</b> , 9, 47-50	0	4
4	The Rosetta all-atom energy function for macromolecular modeling and design		3
3	Efficient consideration of coordinated water molecules improves computational protein-protein and protein-ligand docking		3
2	GalaxyGPCRloop: Template-Based and Ab Initio Structure Sampling of the Extracellular Loops of G-Protein-Coupled Receptors. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 1234-1243	6.1	3
1	Prediction of protein mutational free energy: benchmark and sampling improvements increase classification accuracy		1