

Minkyung Baek

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

4,329
citations

567281

15
h-index

526287

27
g-index

38
all docs

38
docs citations

38
times ranked

3561
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate prediction of protein structures and interactions using a three-track neural network. <i>Science</i> , 2021, 373, 871-876.	12.6	2,843
2	Computed structures of core eukaryotic protein complexes. <i>Science</i> , 2021, 374, eabm4805.	12.6	316
3	Improved protein structure refinement guided by deep learning based accuracy estimation. <i>Nature Communications</i> , 2021, 12, 1340.	12.8	160
4	Prediction of homoprotein and heteroprotein complexes by protein docking and template-based modeling: A CASP-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 323-348.	2.6	148
5	GalaxyHomomer: a web server for protein homo-oligomer structure prediction from a monomer sequence or structure. <i>Nucleic Acids Research</i> , 2017, 45, W320-W324.	14.5	102
6	Blind prediction of homo- and hetero-protein complexes: The CASP13-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1200-1221.	2.6	99
7	The challenge of modeling protein assemblies: the CASP12-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 257-273.	2.6	85
8	Deep learning and protein structure modeling. <i>Nature Methods</i> , 2022, 19, 13-14.	19.0	75
9	Assessment of protein model structure accuracy estimation in CASP13: Challenges in the era of deep learning. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1351-1360.	2.6	54
10	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> , 2021, 17, 2000-2010.	5.3	52
11	GalaxyDock BP2 score: a hybrid scoring function for accurate protein-ligand docking. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 653-666.	2.9	44
12	GalaxyTongDock: Symmetric and asymmetric <i>ab initio</i> protein-protein docking web server with improved energy parameters. <i>Journal of Computational Chemistry</i> , 2019, 40, 2413-2417.	3.3	41
13	Protein tertiary structure prediction and refinement using deep learning and Rosetta in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1722-1733.	2.6	40
14	Structure of the phosphoinositide 3-kinase (PI3K) p110 β -p101 complex reveals molecular mechanism of GPCR activation. <i>Science Advances</i> , 2021, 7, .	10.3	25
15	Accurate protein structure prediction: what comes next?. <i>Biodesign</i> , 2021, 9, 47-50.	0.4	25
16	Absolute binding free energies for octa-acids and guests in SAMPL5. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 107-118.	2.9	16
17	Protein oligomer modeling guided by predicted interchain contacts in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1824-1833.	2.6	16
18	GalaxyDock3: Protein-ligand docking that considers the full ligand conformational flexibility. <i>Journal of Computational Chemistry</i> , 2019, 40, 2739-2748.	3.3	15

#	ARTICLE	IF	CITATIONS
19	Structural Basis for the Enantioselectivity of Esterase Est-Y29 toward (<i>S</i>)-Ketoprofen. ACS Catalysis, 2019, 9, 755-767.	11.2	14
20	Absolute binding free energy calculations of CBClip host-guest systems in the SAMPL5 blind challenge. Journal of Computer-Aided Molecular Design, 2017, 31, 71-85.	2.9	13
21	GalaxyHeteromer: protein heterodimer structure prediction by template-based and <i>ab initio</i> docking. Nucleic Acids Research, 2021, 49, W237-W241.	14.5	11
22	Template-based modeling and <i>ab initio</i> refinement of protein oligomer structures using GALAXY in CAPRI round 30. Proteins: Structure, Function and Bioinformatics, 2017, 85, 399-407.	2.6	10
23	Prediction of protein oligomer structures using GALAXY in CASP13. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1233-1240.	2.6	6
24	Novel Compound Heterozygote Mutation in <i>IL10RA</i> in a Patient With Very Early-Onset Inflammatory Bowel Disease. Inflammatory Bowel Diseases, 2019, 25, 498-509.	1.9	6
25	Structure prediction of biological assemblies using GALAXY in CAPRI rounds 38-45. Proteins: Structure, Function and Bioinformatics, 2020, 88, 1009-1017.	2.6	5
26	Binding Site Prediction of Proteins with Organic Compounds or Peptides Using GALAXY Web Servers. Methods in Molecular Biology, 2016, 1414, 33-45.	0.9	4
27	Modeling Protein Homo-Oligomer Structures with GalaxyHomomer Web Server. Methods in Molecular Biology, 2020, 2165, 127-137.	0.9	2
28	Cover Image, Volume 85, Issue 3. Proteins: Structure, Function and Bioinformatics, 2017, 85, C4.	2.6	0
29	Improving Docking Performance of Large Flexible Ligands using Hot Spot Information Predicted by Fragment Docking. Biophysical Journal, 2018, 114, 55a.	0.5	0