

# Chaok Seok

## List of Publications by Citations

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108  
papers

4,360  
citations

32  
h-index

64  
g-index

113  
ext. papers

5,537  
ext. citations

6.1  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
108	GalaxyRefine: Protein structure refinement driven by side-chain repacking. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, W384-8	20.1	403
107	Use of the Weighted Histogram Analysis Method for the Analysis of Simulated and Parallel Tempering Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2007</b> , 3, 26-41	6.4	367
106	GalaxyWEB server for protein structure prediction and refinement. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, W294-7	24.7	335
105	Pulsating tubules from noncovalent macrocycles. <i>Science</i> , <b>2012</b> , 337, 1521-6	33.3	250
104	Using quaternions to calculate RMSD. <i>Journal of Computational Chemistry</i> , <b>2004</b> , 25, 1849-57	3.5	239
103	A kinematic view of loop closure. <i>Journal of Computational Chemistry</i> , <b>2004</b> , 25, 510-28	3.5	206
102	GalaxyPepDock: a protein-peptide docking tool based on interaction similarity and energy optimization. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, W431-5	20.1	149
101	Developing a Fully Glycosylated Full-Length SARS-CoV-2 Spike Protein Model in a Viral Membrane. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 7128-7137	3.4	131
100	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
99	Prediction of homoprotein and heteroprotein complexes by protein docking and template-based modeling: A CASP-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84 Suppl 1, 323-48	4.2	111
98	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
97	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
96	The FALC-Loop web server for protein loop modeling. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, W210-4	20.1	72
95	The flexibility in the proline ring couples to the protein backbone. <i>Protein Science</i> , <b>2005</b> , 14, 1011-8	6.3	68
94	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
93	GalaxyHomomer: a web server for protein homo-oligomer structure prediction from a monomer sequence or structure. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, W320-W324	20.1	63
92	Blind prediction of homo- and hetero-protein complexes: The CASP13-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1200-1221	4.2	58

91	The challenge of modeling protein assemblies: the CASP12-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86 Suppl 1, 257-273	4.2	56
90	GalaxyRefineComplex: Refinement of protein-protein complex model structures driven by interface repacking. <i>Scientific Reports</i> , <b>2016</b> , 6, 32153	4.9	55
89	GalaxySite: ligand-binding-site prediction by using molecular docking. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, W210-4	20.1	55
88	Effective protein model structure refinement by loop modeling and overall relaxation. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84 Suppl 1, 293-301	4.2	54
87	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
86	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
85	De novo protein structure prediction by dynamic fragment assembly and conformational space annealing. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79, 2403-17	4.2	46
84	GalaxyDock2: protein-ligand docking using beta-complex and global optimization. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 2647-56	3.5	44
83	GalaxyDock: protein-ligand docking with flexible protein side-chains. <i>Journal of Chemical Information and Modeling</i> , <b>2012</b> , 52, 3225-32	6.1	44
82	Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 620-32	4.2	43
81	Resultants and loop closure. <i>International Journal of Quantum Chemistry</i> , <b>2006</b> , 106, 176-189	2.1	39
80	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
79	Cooperativity and specificity of Cys2His2 zinc finger protein-DNA interactions: a molecular dynamics simulation study. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 7662-71	3.4	33
78	Insertion-duplication mutagenesis in <i>Streptococcus pneumoniae</i> : targeting fragment length is a critical parameter in use as a random insertion tool. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 4796-802	4.8	33
77	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
76	GalaxyRefine2: simultaneous refinement of inaccurate local regions and overall protein structure. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, W451-W455	20.1	31
75	Nucleation in n-alkanes: A density-functional approach. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 7982-7990	9	31
74	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

73	What stabilizes close arginine pairing in proteins?. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5844-533.6	30
72	GalaxyDock BP2 score: a hybrid scoring function for accurate protein-ligand docking. <i>Journal of Computer-Aided Molecular Design</i> , <b>2017</b> , 31, 653-666	4.2 30
71	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
70	LigDockCSA: protein-ligand docking using conformational space annealing. <i>Journal of Computational Chemistry</i> , <b>2011</b> , 32, 3226-32	3.5 29
69	Assessment of protein model structure accuracy estimation in CASP13: Challenges in the era of deep learning. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1351-1360	4.2 28
68	Measured and predicted affinities of binding and relative potencies to activate the AhR of PAHs and their alkylated analogues. <i>Chemosphere</i> , <b>2015</b> , 139, 23-9	8.4 27
67	Structure, Dynamics, Receptor Binding, and Antibody Binding of the Fully Glycosylated Full-Length SARS-CoV-2 Spike Protein in a Viral Membrane. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 2479-2487	6.4 26
66	Galaxy7TM: flexible GPCR-ligand docking by structure refinement. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, W502-c61	25
65	Transition between B-DNA and Z-DNA: free energy landscape for the B-Z junction propagation. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 9872-81	3.4 24
64	A statistical rescoring scheme for protein-ligand docking: Consideration of entropic effect. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 70, 1074-83	4.2 24
63	Switchable Nanoporous Sheets by the Aqueous Self-Assembly of Aromatic Macrobicycles. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6554-6557	3.6 21
62	GalaxyTongDock: Symmetric and asymmetric ab initio protein-protein docking web server with improved energy parameters. <i>Journal of Computational Chemistry</i> , <b>2019</b> , 40, 2413-2417	3.5 20
61	Biophysical and functional characterization of Norrin signaling through Frizzled4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8787-8792	11.5 20
60	Phase transitions in AgI. <i>Physical Review B</i> , <b>1997</b> , 56, 11485-11492	3.3 20
59	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
58	Polymer melts and polymer solutions near patterned surfaces. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 6443-6451	3.9 19
57	Crystal Structure of Streptococcus pyogenes Cas1 and Its Interaction with Csn2 in the Type II CRISPR-Cas System. <i>Structure</i> , <b>2016</b> , 24, 70-79	5.2 18
56	MOPED: method for optimizing physical energy parameters using decoys. <i>Journal of Computational Chemistry</i> , <b>2003</b> , 24, 89-97	3.5 18

55	Sclerostin inhibits Wnt signaling through tandem interaction with two LRP6 ectodomains. <i>Nature Communications</i> , <b>2020</b> , 11, 5357	17.4	18
54	Self-Dissociating Tubules from Helical Stacking of Noncovalent Macrocycles. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8649-8653	3.6	17
53	Prediction of protein assemblies, the next frontier: The CASP14-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1800-1823	4.2	17
52	An analysis and evaluation of the WeFold collaborative for protein structure prediction and its pipelines in CASP11 and CASP12. <i>Scientific Reports</i> , <b>2018</b> , 8, 9939	4.9	16
51	Polymer blends near patterned surfaces. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 6452-6460	3.9	16
50	Absolute binding free energies for octa-acids and guests in SAMPL5 : Evaluating binding free energies for octa-acid and guest complexes in the SAMPL5 blind challenge. <i>Journal of Computer-Aided Molecular Design</i> , <b>2017</b> , 31, 107-118	4.2	15
49	Prediction of Molecular Electronic Transitions Using Random Forests. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 5984-5994	6.1	14
48	Factors affecting redox potential and differential sensitivity of SoxR to redox-active compounds. <i>Molecular Microbiology</i> , <b>2015</b> , 97, 808-21	4.1	13
47	Benchmarking predictions of allostery in liver pyruvate kinase in CAGI4. <i>Human Mutation</i> , <b>2017</b> , 38, 1123-1131	4.1	12
46	Rotational superposition and least squares: the SVD and quaternions approaches yield identical results. Reply to the preceding comment by G. Kneller. <i>Journal of Computational Chemistry</i> , <b>2005</b> , 26, 1663-5	3.5	12
45	Simultaneous refinement of inaccurate local regions and overall structure in the CASP12 protein model refinement experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86 Suppl 1, 168-176	4.2	12
44	Structure of vaccinia virus A46, an inhibitor of TLR4 signaling pathway, shows the conformation of VIPER motif. <i>Protein Science</i> , <b>2014</b> , 23, 906-14	6.3	11
43	Discovery, design and synthesis of Y-shaped peroxisome proliferator-activated receptor agonists as potent anti-obesity agents in vivo. <i>European Journal of Medicinal Chemistry</i> , <b>2012</b> , 53, 190-202	6.8	10
42	Order - disorder transition in : a density functional approach. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 87-102	1.8	10
41	Analytic density-functional self-consistent-field theory of diblock copolymers near patterned surfaces. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 7174-82	3.9	10
40	Assessment of protein model structure accuracy estimation in CASP14: Old and new challenges. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1940-1948	4.2	10
39	GalaxySagittarius: Structure- and Similarity-Based Prediction of Protein Targets for Druglike Compounds. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 3246-3254	6.1	9
38	Evaluation of GalaxyDock Based on the Community Structure-Activity Resource 2013 and 2014 Benchmark Studies. <i>Journal of Chemical Information and Modeling</i> , <b>2016</b> , 56, 988-95	6.1	9

37	Template-based modeling and ab initio refinement of protein oligomer structures using GALAXY in CAPRI round 30. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2017</b> , 85, 399-407	4.2	9
36	Absolute binding free energy calculations of CBClip host-guest systems in the SAMPL5 blind challenge. <i>Journal of Computer-Aided Molecular Design</i> , <b>2017</b> , 31, 71-85	4.2	9
35	Template-Based Prediction of Protein-Peptide Interactions by Using GalaxyPepDock. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1561, 37-47	1.4	9
34	GalaxyDock3: Protein-ligand docking that considers the full ligand conformational flexibility. <i>Journal of Computational Chemistry</i> , <b>2019</b> , 40, 2739-2748	3.5	8
33	Potential Application of Alchemical Free Energy Simulations to Discriminate GPCR Ligand Efficacy. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 1255-66	6.4	8
32	Mechanism of Ag <sup>+</sup> ordering in AgI. <i>Physical Review B</i> , <b>1998</b> , 58, 5146-5148	3.3	8
31	Structural Basis for the Enantioselectivity of Esterase Est-Y29 toward (S)-Ketoprofen. <i>ACS Catalysis</i> , <b>2019</b> , 9, 755-767	13.1	8
30	Modeling SARS-CoV-2 proteins in the CASP-commons experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1987-1996	4.2	8
29	Aldehyde-alcohol dehydrogenase undergoes structural transition to form extended spiroosomes for substrate channeling. <i>Communications Biology</i> , <b>2020</b> , 3, 298	6.7	6
28	Prediction of protein oligomer structures using GALAXY in CASP13. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1233-1240	4.2	6
27	Alternative zinc-binding sites explain the redox sensitivity of zinc-containing anti-sigma factors. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 1644-52	4.2	6
26	Cell-cell adhesion in metazoans relies on evolutionarily conserved features of the E-catenin/E-catenin-binding interface. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 16477-16490	5.4	6
25	Bulk and surface nucleation of the order-disorder transition in. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 45-60	1.8	6
24	Protein Loop Modeling Using Fragment Assembly. <i>Journal of the Korean Physical Society</i> , <b>2008</b> , 52, 1137-1142	1.42	6
23	Parameter optimization for the Gaussian model of protein folding. <i>Polymer</i> , <b>2002</b> , 43, 495-501	3.9	5
22	Developing a Fully-glycosylated Full-length SARS-CoV-2 Spike Protein Model in a Viral Membrane <b>2020</b> ,		4
21	GalaxyWater-wKGB: Prediction of Water Positions on Protein Structure Using wKGB Statistical Potential. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 2283-2293	6.1	4
20	GalaxyHeteromer: protein heterodimer structure prediction by template-based and ab initio docking. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, W237-W241	20.1	4

19	Binding Site Prediction of Proteins with Organic Compounds or Peptides Using GALAXY Web Servers. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1414, 33-45	1.4	4
18	Accurate protein structure prediction: what comes next?. <i>BioDesign</i> , <b>2021</b> , 9, 47-50	0	4
17	Novel Compound Heterozygote Mutation in IL10RA in a Patient With Very Early-Onset Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , <b>2019</b> , 25, 498-509	4.5	3
16	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
15	Symmetry-related residues as promising hotspots for the evolution of oligomeric enzymes. <i>Chemical Science</i> , <b>2021</b> , 12, 5091-5101	9.4	3
14	New molecular interaction of IIA(Ntr) and HPr from <i>Burkholderia pseudomallei</i> identified by X-ray crystallography and docking studies. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 1499-508	4.2	2
13	Contribution of Counterion Entropy to the Salt-Induced Transition Between B-DNA and Z-DNA. <i>Bulletin of the Korean Chemical Society</i> , <b>2012</b> , 33, 3719-3726	1.2	2
12	Structure prediction of biological assemblies using GALAXY in CAPRI rounds 38-45. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, 1009-1017	4.2	2
11	Discovery of a transdermally deliverable pentapeptide for activating AdipoR1 to promote hair growth. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13790	12	2
10	Dynamic Interactions of Fully Glycosylated SARS-CoV-2 Spike Protein with Various Antibodies. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 6559-6569	6.4	2
9	A pGpG-specific phosphodiesterase regulates cyclic di-GMP signaling in <i>Vibrio cholerae</i> .. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101626	5.4	1
8	MOLGENGO: Finding Novel Molecules with Desired Electronic Properties by Capitalizing on Their Global Optimization. <i>ACS Omega</i> , <b>2021</b> , 6, 27454-27465	3.9	1
7	Structure, Dynamics, Receptor Binding, and Antibody Binding of Fully-glycosylated Full-length SARS-CoV-2 Spike Protein in a Viral Membrane		1
6	Structural basis of neuropeptide Y signaling through Y1 receptor.. <i>Nature Communications</i> , <b>2022</b> , 13, 853	17.4	1
5	GalaxyWater-CNN: Prediction of Water Positions on the Protein Structure by a 3D-Convolutional Neural Network. <i>Journal of Chemical Information and Modeling</i> ,	6.1	1
4	Protein oligomer structure prediction using GALAXY in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1844-1851	4.2	0
3	Modeling Protein Homo-Oligomer Structures with GalaxyHomomer Web Server. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2165, 127-137	1.4	0
2	GalaxyDomDock: An Ab Initio Domain-Domain Docking Web Server for Multi-domain Protein Structure Prediction. <i>Journal of Molecular Biology</i> , <b>2022</b> , 167508	6.5	0

1 Cover Image, Volume 85, Issue 3. *Proteins: Structure, Function and Bioinformatics*, **2017**, 85, C4-C4

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