

Jianhan Chen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4924151/jianhan-chen-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,011
citations

31
h-index

53
g-index

90
ext. papers

3,486
ext. citations

6.9
avg, IF

5.79
L-index

#	Paper	IF	Citations
80	Balancing solvation and intramolecular interactions: toward a consistent generalized Born force field. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3728-36	16.4	290
79	Recent advances in implicit solvent-based methods for biomolecular simulations. <i>Current Opinion in Structural Biology</i> , 2008 , 18, 140-8	8.1	266
78	Power generation from ambient humidity using protein nanowires. <i>Nature</i> , 2020 , 578, 550-554	50.4	169
77	Can molecular dynamics simulations provide high-resolution refinement of protein structure?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 67, 922-30	4.2	116
76	Implicit modeling of nonpolar solvation for simulating protein folding and conformational transitions. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 471-81	3.6	116
75	Intrinsic disorder mediates the diverse regulatory functions of the Cdk inhibitor p21. <i>Nature Chemical Biology</i> , 2011 , 7, 214-21	11.7	98
74	Atomistic details of the disordered states of KID and pKID. Implications in coupled binding and folding. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5214-23	16.4	82
73	Revisiting the carboxylic acid dimers in aqueous solution: interplay of hydrogen bonding, hydrophobic interactions, and entropy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 242-9	3.4	81
72	Exploring atomistic details of pH-dependent peptide folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18546-50	11.5	79
71	Bioinspired bio-voltage memristors. <i>Nature Communications</i> , 2020 , 11, 1861	17.4	79
70	Intrinsically disordered p53 extreme C-terminus binds to S100B(beta-beta) through "fly-casting". <i>Journal of the American Chemical Society</i> , 2009 , 131, 2088-9	16.4	77
69	Residual structures, conformational fluctuations, and electrostatic interactions in the synergistic folding of two intrinsically disordered proteins. <i>PLoS Computational Biology</i> , 2012 , 8, e1002353	5	73
68	Towards the physical basis of how intrinsic disorder mediates protein function. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 524, 123-31	4.1	67
67	Electrostatically accelerated encounter and folding for facile recognition of intrinsically disordered proteins. <i>PLoS Computational Biology</i> , 2013 , 9, e1003363	5	67
66	Application of torsion angle molecular dynamics for efficient sampling of protein conformations. <i>Journal of Computational Chemistry</i> , 2005 , 26, 1565-78	3.5	63
65	Electrostatically accelerated coupled binding and folding of intrinsically disordered proteins. <i>Journal of Molecular Biology</i> , 2012 , 422, 674-684	6.5	60
64	Topology-based modeling of intrinsically disordered proteins: balancing intrinsic folding and intermolecular interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 1251-66	4.2	60

63	Structural interpretation of paramagnetic relaxation enhancement-derived distances for disordered protein states. <i>Journal of Molecular Biology</i> , 2009 , 390, 467-77	6.5	60
62	Peptide and protein folding and conformational equilibria: theoretical treatment of electrostatics and hydrogen bonding with implicit solvent models. <i>Advances in Protein Chemistry</i> , 2005 , 72, 173-98		58
61	Model-free analysis of protein dynamics: assessment of accuracy and model selection protocols based on molecular dynamics simulation. <i>Journal of Biomolecular NMR</i> , 2004 , 29, 243-57	3	56
60	Refinement of NMR structures using implicit solvent and advanced sampling techniques. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16038-47	16.4	53
59	Synergistic folding of two intrinsically disordered proteins: searching for conformational selection. <i>Molecular BioSystems</i> , 2012 , 8, 198-209		47
58	Atomistic modelling of scattering data in the Collaborative Computational Project for Small Angle Scattering (CCP-SAS). <i>Journal of Applied Crystallography</i> , 2016 , 49, 1861-1875	3.8	46
57	An Evaluation of Explicit Receptor Flexibility in Molecular Docking Using Molecular Dynamics and Torsion Angle Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 2909-2923	6.4	43
56	Intrinsically disordered proteins in a physics-based world. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 5292-309	6.3	42
55	Molecular basis of PIP-dependent regulation of the Ca-activated chloride channel TMEM16A. <i>Nature Communications</i> , 2019 , 10, 3769	17.4	39
54	Critical importance of length-scale dependence in implicit modeling of hydrophobic interactions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2444-5	16.4	38
53	Hydrophobic gating in BK channels. <i>Nature Communications</i> , 2018 , 9, 3408	17.4	35
52	Generation of native-like protein structures from limited NMR data, modern force fields and advanced conformational sampling. <i>Journal of Biomolecular NMR</i> , 2005 , 31, 59-64	3	35
51	Accelerate Sampling in Atomistic Energy Landscapes Using Topology-Based Coarse-Grained Models. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 918-23	6.4	32
50	FoldGPCR: structure prediction protocol for the transmembrane domain of G protein-coupled receptors from class A. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 2189-201	4.2	31
49	Application of solid-state NMR restraint potentials in membrane protein modeling. <i>Journal of Magnetic Resonance</i> , 2008 , 193, 68-76	3	28
48	Modulation of the disordered conformational ensembles of the p53 transactivation domain by cancer-associated mutations. <i>PLoS Computational Biology</i> , 2015 , 11, e1004247	5	27
47	EGCG binds intrinsically disordered N-terminal domain of p53 and disrupts p53-MDM2 interaction. <i>Nature Communications</i> , 2021 , 12, 986	17.4	27
46	An inner activation gate controls TMEM16F phospholipid scrambling. <i>Nature Communications</i> , 2019 , 10, 1846	17.4	25

45	Multiscale filter diagonalization method for spectral analysis of noisy data with nonlocalized features. <i>Journal of Chemical Physics</i> , 2000 , 112, 4429-4437	3.9	25
44	Multiscale enhanced sampling of intrinsically disordered protein conformations. <i>Journal of Computational Chemistry</i> , 2016 , 37, 550-7	3.5	24
43	Efficiency of Adaptive Temperature-Based Replica Exchange for Sampling Large-Scale Protein Conformational Transitions. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 2849-56	6.4	24
42	Potential conformational heterogeneity of p53 bound to S100B. <i>Journal of Molecular Biology</i> , 2013 , 425, 999-1010	6.5	22
41	Effective Approximation of Molecular Volume Using Atom-Centered Dielectric Functions in Generalized Born Models. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 2790-803	6.4	22
40	Optimization of the GBMV2 implicit solvent force field for accurate simulation of protein conformational equilibria. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1332-1341	3.5	21
39	Amyloid assembly is dominated by misregistered kinetic traps on an unbiased energy landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10322-10328	11.5	21
38	Branched oligopeptides form nanocapsules with lipid vesicle characteristics. <i>Langmuir</i> , 2013 , 29, 14648-54	5.4	20
37	Residual Structures and Transient Long-Range Interactions of p53 Transactivation Domain: Assessment of Explicit Solvent Protein Force Fields. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4708-4720	6.4	17
36	Force-induced unfolding simulations of the human Notch1 negative regulatory region: possible roles of the heterodimerization domain in mechanosensing. <i>PLoS ONE</i> , 2011 , 6, e22837	3.7	17
35	Modulation of Amyloid- β 2 Conformation by Small Molecules Through Nonspecific Binding. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5169-5174	6.4	16
34	Targeting Intrinsically Disordered Proteins through Dynamic Interactions. <i>Biomolecules</i> , 2020 , 10,	5.9	16
33	Residual Structure Accelerates Binding of Intrinsically Disordered ACTR by Promoting Efficient Folding upon Encounter. <i>Journal of Molecular Biology</i> , 2019 , 431, 422-432	6.5	16
32	MEFA (multiepitope fusion antigen)-Novel Technology for Structural Vaccinology, Proof from Computational and Empirical Immunogenicity Characterization of an Enterotoxigenic (ETEC) Adhesin MEFA. <i>Journal of Vaccines & Vaccination</i> , 2017 , 8,		15
31	Enhanced Sampling of Intrinsic Structural Heterogeneity of the BH3-Only Protein Binding Interface of Bcl-xL. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9160-9168	3.4	13
30	HyRes: a coarse-grained model for multi-scale enhanced sampling of disordered protein conformations. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32421-32432	3.6	13
29	Different Anomeric Sugar Bound States of Maltose Binding Protein Resolved by a Cytolysin A Nanopore Tweezer. <i>ACS Nano</i> , 2020 , 14, 1727-1737	16.7	12
28	Replica exchange with guided annealing for accelerated sampling of disordered protein conformations. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1682-9	3.5	12

27	Combined Monte Carlo/torsion-angle molecular dynamics for ensemble modeling of proteins, nucleic acids and carbohydrates. <i>Journal of Molecular Graphics and Modelling</i> , 2017 , 73, 179-190	2.8	11
26	Specific PIP binding promotes calcium activation of TMEM16A chloride channels. <i>Communications Biology</i> , 2021 , 4, 259	6.7	10
25	Dynamics of the BH3-Only Protein Binding Interface of Bcl-xL. <i>Biophysical Journal</i> , 2015 , 109, 1049-57	2.9	9
24	Structural characterization of two pore-forming peptides: consequences of introducing a C-terminal tryptophan. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 2238-50	4.2	7
23	Accelerating the Generalized Born with Molecular Volume and Solvent Accessible Surface Area Implicit Solvent Model Using Graphics Processing Units. <i>Journal of Computational Chemistry</i> , 2020 , 41, 830-838	3.5	7
22	The Levinthal Problem in Amyloid Aggregation: Sampling of a Flat Reaction Space. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 1576-1586	3.4	6
21	Organization and Structure of Branched Amphipathic Oligopeptide Bilayers. <i>Langmuir</i> , 2016 , 32, 9883-914	4	6
20	Hydrophobic dewetting in gating and regulation of transmembrane protein ion channels. <i>Journal of Chemical Physics</i> , 2020 , 153, 110901	3.9	5
19	Necessity of high-resolution for coarse-grained modeling of flexible proteins. <i>Journal of Computational Chemistry</i> , 2016 , 37, 1725-33	3.5	5
18	Cancer-Associated Mutations Perturb the Disordered Ensemble and Interactions of the Intrinsically Disordered p53 Transactivation Domain. <i>Journal of Molecular Biology</i> , 2021 , 433, 167048	6.5	5
17	Effects of flanking loops on membrane insertion of transmembrane helices: a role for peptide conformational equilibrium. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8330-9	3.4	4
16	Modulation of p53 Transactivation Domain Conformations by Ligand Binding and Cancer-Associated Mutations. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2020 , 25, 195-206	1.3	4
15	Atomistic Peptide Folding Simulations Reveal Interplay of Entropy and Long-Range Interactions in Folding Cooperativity. <i>Scientific Reports</i> , 2018 , 8, 13668	4.9	3
14	Advanced Sampling Methods for Multiscale Simulation of Disordered Proteins and Dynamic Interactions. <i>Biomolecules</i> , 2021 , 11,	5.9	3
13	Conformational Flexibility and pH Effects on Anisotropic Growth of Sheet-Like Assembly of Amphiphilic Peptides. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4470-9	1.3	2
12	Accelerating atomistic simulations of proteins using multiscale enhanced sampling with independent tempering. <i>Journal of Computational Chemistry</i> , 2021 , 42, 358-364	3.5	2
11	Positional Isomers of a Non-Nucleoside Substrate Differentially Affect Myosin Function. <i>Biophysical Journal</i> , 2020 , 119, 567-580	2.9	1
10	Free energy analysis of conductivity and charge selectivity of M2GlyR-derived synthetic channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 2319-25	3.8	1

9	Efficacy of independence sampling in replica exchange simulations of ordered and disordered proteins. <i>Journal of Computational Chemistry</i> , 2017 , 38, 2632-2640	3.5	1
8	Implicit Solvent Force-Field Optimization 167-190		1
7	Computing Energy Levels by Inversion of Imaginary-Time Cross-Correlation Functions \square <i>Journal of Physical Chemistry A</i> , 2003 , 107, 7175-7180	2.8	1
6	Expression and Characterization of Stress Responsive Peptide-1; an Inducer of Antimicrobial Peptide Synthesis 2019 , 4, 42-52		1
5	Physics-based modeling provides predictive understanding of selectively promiscuous substrate binding by Hsp70 chaperones. <i>PLoS Computational Biology</i> , 2021 , 17, e1009567	5	1
4	Aromatic interactions with membrane modulate human BK channel activation. <i>ELife</i> , 2020 , 9,	8.9	1
3	Specific PIP2 Binding Promotes Calcium Activation of TMEM16A Chloride Channels		1
2	Intrinsically Disordered N-terminal Domain (NTD) of p53 Interacts with Mitochondrial PTP Regulator Cyclophilin D.. <i>Journal of Molecular Biology</i> , 2022 , 434, 167552	6.5	1
1	Atomistic Glimpse of the Orderly Chaos of One Protein. <i>Biophysical Journal</i> , 2015 , 109, 1511-2	2.9	