

Yong Duan

List of Publications by Year in descending order

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95
papers

14,216
citations

87723

38
h-index

45213

90
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all docs

95
docs citations

95
times ranked

14434
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress tensor and constant pressure simulation for polarizable Gaussian multipole model. <i>Journal of Chemical Physics</i> , 2022, 156, 114114.	1.2	10
2	<i>PyRESP</i> : A Program for Electrostatic Parameterizations of Additive and Induced Dipole Polarizable Force Fields. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3654-3670.	2.3	12
3	Efficient formulation of polarizable Gaussian multipole electrostatics for biomolecular simulations. <i>Journal of Chemical Physics</i> , 2020, 153, 114116.	1.2	19
4	C1188D mutation abolishes specific recognition between MLL1 CXXC domain and CpG site by inducing conformational switch of flexible N-terminal. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1401-1412.	1.5	1
5	Key residues in TLR4-MD2 tetramer formation identified by free energy simulations. <i>PLoS Computational Biology</i> , 2019, 15, e1007228.	1.5	11
6	Development of Polarizable Gaussian Model for Molecular Mechanical Calculations I: Atomic Polarizability Parameterization To Reproduce <i>ab Initio</i> Anisotropy. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1146-1158.	2.3	26
7	Assessment of the transmembrane domain structures in GPCR Dock 2013 models. <i>Journal of Structural Biology</i> , 2018, 201, 210-220.	1.3	1
8	7 Å–7 RMSD matrix: A new method for quantitative comparison of the transmembrane domain structures in the G-protein coupled receptors. <i>Journal of Structural Biology</i> , 2017, 199, 87-101.	1.3	4
9	Insights into Ligand Binding to PreQ1 Riboswitch Aptamer from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2014, 9, e92247.	1.1	26
10	Robust Gene Dysregulation in Alzheimer's Disease Brains. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 587-597.	1.2	15
11	Conformational Elasticity can Facilitate TALE–DNA Recognition. <i>Advances in Protein Chemistry and Structural Biology</i> , 2014, 94, 347-364.	1.0	5
12	Stable Closure of the Cytoplasmic Half-Channel Is Required for Efficient Proton Transport at Physiological Membrane Potentials in the Bacteriorhodopsin Catalytic Cycle. <i>Biochemistry</i> , 2014, 53, 2380-2390.	1.2	3
13	Hidden Risk Genes with High-Order Intragenic Epistasis in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 1039-1056.	1.2	34
14	iBIG: An Integrative Network Tool for Supporting Human Disease Mechanism Studies. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 166-171.	3.0	7
15	Deprotonation of D96 in Bacteriorhodopsin Opens the Proton Uptake Pathway. <i>Structure</i> , 2013, 21, 290-297.	1.6	35
16	VERIFICATION OF THE GENERALIZED BORN MODEL AT SHORT DISTANCES. <i>Journal of Mechanics in Medicine and Biology</i> , 2013, 13, 1340020.	0.3	0
17	Characteristic Transformation of Blood Transcriptome in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 35, 373-386.	1.2	36
18	Chromosome 19p in Alzheimer's Disease: When Genome Meets Transcriptome. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 245-250.	1.2	5

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19	Functional Networking of Human Divergently Paired Genes (DPGs). <i>PLoS ONE</i> , 2013, 8, e78896.	1.1	3
20	Schiff Base Switch II Precedes the Retinal Thermal Isomerization in the Photocycle of Bacteriorhodopsin. <i>PLoS ONE</i> , 2013, 8, e69882.	1.1	7
21	Down-Regulation of Energy Metabolism in Alzheimer's Disease is a Protective Response of Neurons to the Microenvironment. <i>Journal of Alzheimer's Disease</i> , 2012, 28, 389-402.	1.2	44
22	Development of Polarizable Models for Molecular Mechanical Calculations. 3. Polarizable Water Models Conforming to Thole Polarization Screening Schemes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7999-8008.	1.2	49
23	Development of Polarizable Models for Molecular Mechanical Calculations. 4. van der Waals Parametrization. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7088-7101.	1.2	60
24	Concerted Perturbation Observed in a Hub Network in Alzheimer's Disease. <i>PLoS ONE</i> , 2012, 7, e40498.	1.1	91
25	The protein folding network indicates that the ultrafast folding mutant of villin headpiece subdomain has a deeper folding funnel. <i>Journal of Chemical Physics</i> , 2011, 134, 205104.	1.2	13
26	Development of Polarizable Models for Molecular Mechanical Calculations II: Induced Dipole Models Significantly Improve Accuracy of Intermolecular Interaction Energies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3100-3111.	1.2	116
27	Alzheimer's Disease Drug Candidates Stabilize A β Protein Native Structure by Interacting with the Hydrophobic Core. <i>Biophysical Journal</i> , 2011, 100, 1076-1082.	0.2	27
28	Development of Polarizable Models for Molecular Mechanical Calculations I: Parameterization of Atomic Polarizability. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3091-3099.	1.2	137
29	Probing the stability-limiting regions of an antibody single-chain variable fragment: a molecular dynamics simulation study. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 649-657.	1.0	24
30	Trends in template/fragment-free protein structure prediction. <i>Theoretical Chemistry Accounts</i> , 2011, 128, 3-16.	0.5	48
31	Retinal release from opsin in molecular dynamics simulations. <i>Journal of Molecular Recognition</i> , 2011, 24, 350-358.	1.1	33
32	Folding Network of Villin Headpiece Subdomain. <i>Biophysical Journal</i> , 2010, 99, 3374-3384.	0.2	15
33	Cholic acid micelles "controlling" the size of the aqueous cavity by PEGylation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1589.	1.3	13
34	Dual folding pathways of an α -protein from all-atom ab initio folding simulations. <i>Journal of Chemical Physics</i> , 2009, 131, 165105.	1.2	22
35	Polarization effects in molecular mechanical force fields. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 333102.	0.7	236
36	Ligand Entry and Exit Pathways in the β -Adrenergic Receptor. <i>Journal of Molecular Biology</i> , 2009, 392, 1102-1115.	2.0	94

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37	HIV Co-Receptor CCR5: Structure and Interactions with Inhibitors. <i>Infectious Disorders - Drug Targets</i> , 2009, 9, 279-288.	0.4	6
38	Binding modes of CCR5-targeting HIV entry inhibitors: Partial and full antagonists. <i>Journal of Molecular Graphics and Modelling</i> , 2008, 26, 1287-1295.	1.3	25
39	Effects of Posttranslational Modifications on the Structure and Dynamics of Histone H3 N-Terminal Peptide. <i>Biophysical Journal</i> , 2008, 94, 4579-4585.	0.2	33
40	Two-Way Effects between Hydrogen Bond and Intramolecular Resonance Effect: An Ab Initio Study on Complexes of Formamide and Its Derivatives with Water. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5436-5447.	1.1	19
41	The Binding of Thioflavin T and Its Neutral Analog BTA-1 to Protofibrils of the Alzheimer's Disease A β 16-22 Peptide Probed by Molecular Dynamics Simulations. <i>Journal of Molecular Biology</i> , 2008, 384, 718-729.	2.0	132
42	Folding processes of the B domain of protein A to the native state observed in all-atom <i>ab initio</i> folding simulations. <i>Journal of Chemical Physics</i> , 2008, 128, 235105.	1.2	35
43	The fast-folding HP35 double mutant has a substantially reduced primary folding free energy barrier. <i>Journal of Chemical Physics</i> , 2008, 129, 155104.	1.2	24
44	Conformational Changes in Protein Function. <i>Methods in Molecular Biology</i> , 2008, 443, 258-275.	0.4	6
45	Protein Folding and Unfolding by All-Atom Molecular Dynamics Simulations. <i>Methods in Molecular Biology</i> , 2008, 443, 277-295.	0.4	5
46	Folding free-energy landscape of villin headpiece subdomain from molecular dynamics simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4925-4930.	3.3	217
47	Statistical properties and kinetics of end-end contact formation of unfolded polypeptides: A systematic molecular dynamics study. <i>Journal of Chemical Physics</i> , 2007, 126, 045108.	1.2	5
48	Two-stage Folding of HP-35 from Ab Initio Simulations. <i>Journal of Molecular Biology</i> , 2007, 370, 196-206.	2.0	83
49	Dual Binding Modes of Congo Red to Amyloid Protofibril Surface Observed in Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2007, 129, 1225-1232.	6.6	163
50	Ab Initio Folding of Albumin Binding Domain from All-Atom Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5458-5463.	1.2	39
51	Accurate ab Initio Study on the Hydrogen-Bond Pairs in Protein Secondary Structures. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1527-1537.	2.3	35
52	Chromophore Channeling in the G-Protein Coupled Receptor Rhodopsin. <i>Journal of the American Chemical Society</i> , 2007, 129, 6970-6971.	6.6	69
53	Improved sampling methods for molecular simulation. <i>Current Opinion in Structural Biology</i> , 2007, 17, 187-191.	2.6	110
54	New-Generation Amber United-Atom Force Field. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13166-13176.	1.2	176

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55	Phenol Red Interacts with the Protofibril-Like Oligomers of an Amyloidogenic Hexapeptide NFGAIL through Both Hydrophobic and Aromatic Contacts. <i>Biophysical Journal</i> , 2006, 91, 3664-3672.	0.2	61
56	Molecular Dynamics Simulations and Free Energy Analyses on the Dimer Formation of an Amyloidogenic Heptapeptide from Human β 2-Microglobulin: Implication for the Protofibril Structure. <i>Journal of Molecular Biology</i> , 2006, 356, 1049-1063.	2.0	28
57	Folding Transition-State and Denatured-State Ensembles of FSD-1 from Folding and Unfolding Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22001-22008.	1.2	15
58	Strike a balance: Optimization of backbone torsion parameters of AMBER polarizable force field for simulations of proteins and peptides. <i>Journal of Computational Chemistry</i> , 2006, 27, 781-790.	1.5	159
59	Grow to Fit Molecular Dynamics (G2FMD): an ab initio method for protein side-chain assignment and refinement. <i>Protein Engineering, Design and Selection</i> , 2006, 19, 55-65.	1.0	15
60	Comparison between Generalized-Born and Poisson-Boltzmann methods in physics-based scoring functions for protein structure prediction. <i>Journal of Molecular Modeling</i> , 2005, 12, 101-110.	0.8	32
61	Statistical characterization of salt bridges in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 60, 732-739.	1.5	66
62	Incorporating intermolecular distance into protein-protein docking. <i>Protein Engineering, Design and Selection</i> , 2005, 17, 837-845.	1.0	7
63	Convergence of replica exchange molecular dynamics. <i>Journal of Chemical Physics</i> , 2005, 123, 154105.	1.2	107
64	DIRECT INTERACTION ENERGY: A COMPUTATIONAL QUANTITY FOR PARAMETERIZATION OF CONDENSED-PHASE FORCE FIELDS AND ITS APPLICATION TO HYDROGEN BONDING. <i>Journal of Theoretical and Computational Chemistry</i> , 2005, 04, 689-705.	1.8	9
65	Elongation of Ordered Peptide Aggregate of an Amyloidogenic Hexapeptide NFGAIL Observed in Molecular Dynamics Simulations with Explicit Solvent. <i>Journal of the American Chemical Society</i> , 2005, 127, 13530-13537.	6.6	77
66	Denatured-State Ensemble and the Early-Stage Folding of the G29A Mutant of the B-Domain of Protein A. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9073-9081.	1.2	25
67	The Role of Phe in the Formation of Well-Ordered Oligomers of Amyloidogenic Hexapeptide (NFGAIL) Observed in Molecular Dynamics Simulations with Explicit Solvent. <i>Biophysical Journal</i> , 2005, 88, 2897-2906.	0.2	60
68	Large-Scale Conformational Dynamics of the HIV-1 Integrase Core Domain and Its Catalytic Loop Mutants. <i>Biophysical Journal</i> , 2005, 88, 3133-3146.	0.2	58
69	Loop Conformation and Dynamics of the Escherichia coli HPPK Apo-Enzyme and Its Binary Complex with MgATP. <i>Biophysical Journal</i> , 2005, 89, 95-106.	0.2	21
70	Multiple Roles of a Conserved GAF Domain Tyrosine Residue in Cyanobacterial and Plant Phytochromes. <i>Biochemistry</i> , 2005, 44, 15203-15215.	1.2	89
71	Characterizing the Rate-Limiting Step of Trp-Cage Folding by All-Atom Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13855-13865.	1.2	59
72	Distinguish protein decoys by Using a scoring function based on a new AMBER force field, short molecular dynamics simulations, and the generalized born solvent model. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 620-634.	1.5	256

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73	Solvation effects on alanine dipeptide: A MP2/cc-pVTZ//MP2/6-31G** study of (β , β') energy maps and conformers in the gas phase, ether, and water. <i>Journal of Computational Chemistry</i> , 2004, 25, 1699-1716.	1.5	114
74	The role of plastic β -hairpin and weak hydrophobic core in the stability and unfolding of a full sequence design protein. <i>Journal of Chemical Physics</i> , 2004, 121, 12104-12111.	1.2	24
75	Fs-21 Peptides Can Form Both Single Helix and Helix~Turn~Helix. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7479-7489.	1.2	34
76	Formation of Partially Ordered Oligomers of Amyloidogenic Hexapeptide (NFGAIL) in Aqueous Solution Observed in Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2004, 87, 3000-3009.	0.2	57
77	A point-charge force field for molecular mechanics simulations of proteins based on condensed-phase quantum mechanical calculations. <i>Journal of Computational Chemistry</i> , 2003, 24, 1999-2012.	1.5	4,028
78	Breaking non-native hydrophobic clusters is the rate-limiting step in the folding of an alanine-based peptide. <i>Biopolymers</i> , 2003, 68, 63-75.	1.2	55
79	Ab initio Folding Simulation of the Trp-cage Mini-protein Approaches NMR Resolution. <i>Journal of Molecular Biology</i> , 2003, 327, 711-717.	2.0	157
80	Computational protein folding: From lattice to all-atom. <i>IBM Systems Journal</i> , 2001, 40, 297-309.	3.1	40
81	State of the art in studying protein folding and protein structure prediction using molecular dynamics methods. <i>Journal of Molecular Graphics and Modelling</i> , 2001, 19, 146-149.	1.3	13
82	Does a diol cyclic urea inhibitor of HIV-1 protease bind tighter than its corresponding alcohol form? A study by free energy perturbation and continuum electrostatics calculations. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 145-156.	1.3	12
83	Use of MM-PB/SA in estimating the free energies of proteins: Application to native, intermediates, and unfolded villin headpiece. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 39, 309-316.	1.5	179
84	Calculating Structures and Free Energies of Complex Molecules: Combining Molecular Mechanics and Continuum Models. <i>Accounts of Chemical Research</i> , 2000, 33, 889-897.	7.6	4,098
85	Use of MM-PB/SA in estimating the free energies of proteins: Application to native, intermediates, and unfolded villin headpiece. , 2000, 39, 309.		1
86	Use of MM-PB/SA in estimating the free energies of proteins: Application to native, intermediates, and unfolded villin headpiece. , 2000, 39, 309.		1
87	Use of MM-PB/SA in estimating the free energies of proteins: Application to native, intermediates, and unfolded villin headpiece. , 2000, 39, 309.		5
88	Molecular dynamics and free-energy calculations applied to affinity maturation in antibody 48G7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 14330-14335.	3.3	252
89	Study of the stability and unfolding mechanism of BBA1 by molecular dynamics simulations at different temperatures. <i>Protein Science</i> , 1999, 8, 1292-1304.	3.1	49
90	Pathways to a Protein Folding Intermediate Observed in a 1-Microsecond Simulation in Aqueous Solution. , 1998, 282, 740-744.		1,188

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91	The early stage of folding of villin headpiece subdomain observed in a 200-nanosecond fully solvated molecular dynamics simulation. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9897-9902.	3.3	147
92	Molecular dynamics simulation study of DNA dodecamer d(CGCGAATTCGCG) in solution: conformation and hydration. Journal of Molecular Biology, 1997, 272, 553-572.	2.0	100
93	Dynamic Contributions to the DNA Binding Entropy of theEcoRI andEcoRV Restriction Endonucleases. Journal of Molecular Biology, 1996, 264, 546-555.	2.0	26
94	Gradient SHAKE: An improved method for constrained energy minimization in macromolecular simulations. Journal of Computational Chemistry, 1995, 16, 1351-1356.	1.5	11
95	Molecular Dynamics Simulations Suggest That TheEcoRI Kink is an Example of Molecular Strain. Journal of Biomolecular Structure and Dynamics, 1994, 12, 487-525.	2.0	17