

Ray Luo

List of Publications by Year in descending order

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131
papers

17,605
citations

61857

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13727

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135
docs citations

135
times ranked

18330
citing authors

#	ARTICLE	IF	CITATIONS
1	The Hippo pathway kinases LATS1 and LATS2 attenuate cellular responses to heavy metals through phosphorylating MTF1. <i>Nature Cell Biology</i> , 2022, 24, 74-87.	4.6	22
2	Motif-dependent immune co-receptor interactome profiling by photoaffinity chemical proteomics. <i>Cell Chemical Biology</i> , 2022, 29, 1024-1036.e5.	2.5	8
3	Stress tensor and constant pressure simulation for polarizable Gaussian multipole model. <i>Journal of Chemical Physics</i> , 2022, 156, 114114.	1.2	10
4	Heparin-Assisted Amyloidogenesis Uncovered through Molecular Dynamics Simulations. <i>ACS Omega</i> , 2022, 7, 15132-15144.	1.6	7
5	<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
6	Engineering Embden-Meyerhof-Parnas Glycolysis to Generate Noncanonical Reducing Power. <i>ACS Catalysis</i> , 2022, 12, 8582-8592.	5.5	5
7	Development of a Pantetheine Force Field Library for Molecular Modeling. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 856-868.	2.5	11
8	Recent Force Field Strategies for Intrinsically Disordered Proteins. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1037-1047.	2.5	67
9	Estimating the Roles of Protonation and Electronic Polarization in Absolute Binding Affinity Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2541-2555.	2.3	11
10	Recent Developments in Free Energy Calculations for Drug Discovery. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 712085.	1.6	56
11	Machine-Learned Molecular Surface and Its Application to Implicit Solvent Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6214-6224.	2.3	4
12	Growth-Based, High-Throughput Selection for NADH Preference in an Oxygen-Dependent Biocatalyst. <i>ACS Synthetic Biology</i> , 2021, 10, 2359-2370.	1.9	10
13	A 2,3-dialkoxynaphthalene-based naphthocage. <i>Chemical Communications</i> , 2020, 56, 888-891.	2.2	11
14	Elucidation of WW domain ligand binding specificities in the Hippo pathway reveals STXBP4 as YAP inhibitor. <i>EMBO Journal</i> , 2020, 39, e102406.	3.5	23
15	In Vivo, High-Throughput Selection of Thermostable Cyclohexanone Monooxygenase (CHMO). <i>Catalysts</i> , 2020, 10, 935.	1.6	2
16	Efficient formulation of polarizable Gaussian multipole electrostatics for biomolecular simulations. <i>Journal of Chemical Physics</i> , 2020, 153, 114116.	1.2	19
17	Molecular Basis for Polyketide Ketoreductase Substrate Interactions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7562.	1.8	12
18	Leveraging Oxidative Stress to Regulate Redox Balance-Based, In Vivo Growth Selections for Oxygenase Engineering. <i>ACS Synthetic Biology</i> , 2020, 9, 3124-3133.	1.9	10

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19	Environment-Specific Force Field for Intrinsically Disordered and Ordered Proteins. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2257-2267.	2.5	55
20	Well-Balanced Force Field <i>ff14</i> CMAP for Folded and Disordered Proteins. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6769-6780.	2.3	43
21	Extensive tests and evaluation of the CHARMM36IDPSFF force field for intrinsically disordered proteins and folded proteins. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21918-21931.	1.3	37
22	Improved Poisson-Boltzmann Methods for High-Performance Computing. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6190-6202.	2.3	10
23	Molecular basis for interactions between an acyl carrier protein and a ketosynthase. <i>Nature Chemical Biology</i> , 2019, 15, 669-671.	3.9	41
24	Heterogeneous Dielectric Implicit Membrane Model for the Calculation of MMPBSA Binding Free Energies. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3041-3056.	2.5	27
25	Computational structural enzymology methodologies for the study and engineering of fatty acid synthases, polyketide synthases and nonribosomal peptide synthetases. <i>Methods in Enzymology</i> , 2019, 622, 375-409.	0.4	11
26	Dynamical important residue network (DIRN): network inference via conformational change. <i>Bioinformatics</i> , 2019, 35, 4664-4670.	1.8	12
27	An efficient second-order poisson-boltzmann method. <i>Journal of Computational Chemistry</i> , 2019, 40, 1257-1269.	1.5	7
28	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
29	Robustness and Efficiency of Poisson-Boltzmann Modeling on Graphics Processing Units. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 409-420.	2.5	9
30	Computational Analysis for the Rational Design of Anti-Amyloid Beta (A β) Antibodies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4521-4536.	1.2	8
31	An Oxetane-Based Polyketide Surrogate To Probe Substrate Binding in a Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2018, 140, 4961-4964.	6.6	21
32	Engineering a Coenzyme A Detour To Expand the Product Scope and Enhance the Selectivity of the Ehrlich Pathway. <i>ACS Synthetic Biology</i> , 2018, 7, 2758-2764.	1.9	1
33	Regulation of the Hippo Pathway by Phosphatidic Acid-Mediated Lipid-Protein Interaction. <i>Molecular Cell</i> , 2018, 72, 328-340.e8.	4.5	74
34	Computational Studies of Intrinsically Disordered Proteins. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10455-10469.	1.2	24
35	Improved Accuracy and Convergence of Intrinsically Disordered Protein Molecular Dynamics Simulations Using the <i>ff14</i> IDPSFF Force Field. <i>Biophysical Journal</i> , 2018, 114, 432a.	0.2	1
36	Intrinsically disordered protein-specific force field <i>CHARMM36</i> IDPSFF. <i>Chemical Biology and Drug Design</i> , 2018, 92, 1722-1735.	1.5	62

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37	Development of a High-Throughput, <i>In Vivo</i> Selection Platform for NADPH-Dependent Reactions Based on Redox Balance Principles. <i>ACS Synthetic Biology</i> , 2018, 7, 1715-1721.	1.9	33
38	Order-disorder transition of intrinsically disordered kinase inducible transactivation domain of CREB. <i>Journal of Chemical Physics</i> , 2018, 148, 225101.	1.2	5
39	Crystal Structure of StnA for the Biosynthesis of Antitumor Drug Streptonigrin Reveals a Unique Substrate Binding Mode. <i>Scientific Reports</i> , 2017, 7, 40254.	1.6	5
40	The IDP-Specific Force Field <i>ff14IDPSFF</i> Improves the Conformer Sampling of Intrinsically Disordered Proteins. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1166-1178.	2.5	157
41	Allosteric Autoinhibition Pathway in Transcription Factor ERG: Dynamics Network and Mutant Experimental Evaluations. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1153-1165.	2.5	12
42	A Continuum Poisson-Boltzmann Model for Membrane Channel Proteins. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3398-3412.	2.3	19
43	Conformation dynamics of the intrinsically disordered protein c-Myb with the <i>ff99IDPs</i> force field. <i>RSC Advances</i> , 2017, 7, 29713-29721.	1.7	17
44	Numerical interpretation of molecular surface field in dielectric modeling of solvation. <i>Journal of Computational Chemistry</i> , 2017, 38, 1057-1070.	1.5	10
45	Ionic Solution: What Goes Right and Wrong with Continuum Solvation Modeling. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11169-11179.	1.2	9
46	Acceleration of Linear Finite-Difference Poisson-Boltzmann Methods on Graphics Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3378-3387.	2.3	13
47	Allosteric pathways in tetrahydrofolate sensing riboswitch with dynamics correlation network. <i>Molecular BioSystems</i> , 2017, 13, 156-164.	2.9	6
48	<i>ff14IDPs</i> force field improving the conformation sampling of intrinsically disordered proteins. <i>Chemical Biology and Drug Design</i> , 2017, 89, 5-15.	1.5	67
49	Exploring a multi-scale method for molecular simulation in continuum solvent model: Explicit simulation of continuum solvent as an incompressible fluid. <i>Journal of Chemical Physics</i> , 2017, 147, 214112.	1.2	3
50	Recent Developments and Applications of the MMPBSA Method. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 87.	1.6	374
51	Dynamics Correlation Network for Allosteric Switching of PreQ1 Riboswitch. <i>Scientific Reports</i> , 2016, 6, 31005.	1.6	24
52	Synergistic Allosteric Mechanism of Fructose-1,6-bisphosphate and Serine for Pyruvate Kinase M2 via Dynamics Fluctuation Network Analysis. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1184-1192.	2.5	33
53	Calculating protein-ligand binding affinities with MMPBSA: Method and error analysis. <i>Journal of Computational Chemistry</i> , 2016, 37, 2436-2446.	1.5	169
54	Modeling Membrane Protein-Ligand Binding Interactions: The Human Purinergic Platelet Receptor. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12293-12304.	1.2	24

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55	Synergistic Modification Induced Specific Recognition between Histone and TRIM24 via Fluctuation Correlation Network Analysis. <i>Scientific Reports</i> , 2016, 6, 24587.	1.6	15
56	Charge Central Interpretation of the Full Nonlinear PB Equation: Implications for Accurate and Scalable Modeling of Solvation Interactions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8707-8721.	1.2	8
57	Structural Insights into Anthranilate Priming during Type II Polyketide Biosynthesis. <i>ACS Chemical Biology</i> , 2016, 11, 95-103.	1.6	25
58	Recognition Mechanism between Lac Repressor and DNA with Correlation Network Analysis. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2844-2856.	1.2	12
59	Comprehensive Structural and Biochemical Analysis of the Terminal Myxalamid Reductase Domain for the Engineered Production of Primary Alcohols. <i>Chemistry and Biology</i> , 2015, 22, 1018-1029.	6.2	56
60	A semi-implicit augmented IIM for Navier-Stokes equations with open, traction, or free boundary conditions. <i>Journal of Computational Physics</i> , 2015, 297, 182-193.	1.9	10
61	Test and Evaluation of ϵ -FF99IDPs Force Field for Intrinsically Disordered Proteins. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 1021-1029.	2.5	68
62	Applications of MMPBSA to Membrane Proteins I: Efficient Numerical Solutions of Periodic Poisson-Boltzmann Equation. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2187-2199.	2.5	27
63	Biological applications of classical electrostatics methods. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1440008.	1.8	16
64	Recent progress in adapting Poisson-Boltzmann methods to molecular simulations. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1430001.	1.8	25
65	New Force Field on Modeling Intrinsically Disordered Proteins. <i>Chemical Biology and Drug Design</i> , 2014, 84, 253-269.	1.5	110
66	Specific Recognition Mechanism between RNA and the KH3 Domain of Nova-2 Protein. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12426-12434.	1.2	7
67	A multi-scale method for dynamics simulation in continuum solvent models. I: Finite-difference algorithm for Navier-Stokes equation. <i>Chemical Physics Letters</i> , 2014, 616-617, 67-74.	1.2	11
68	Numerical Poisson-Boltzmann model for continuum membrane systems. <i>Chemical Physics Letters</i> , 2013, 555, 274-281.	1.2	26
69	Electrostatic forces in the Poisson-Boltzmann systems. <i>Journal of Chemical Physics</i> , 2013, 139, 094106.	1.2	27
70	Exploring a charge-central strategy in the solution of Poisson's equation for biomolecular applications. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 129-141.	1.3	17
71	Kink turn sRNA folding upon L7Ae binding using molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18510.	1.3	13
72	Exploring accurate Poisson-Boltzmann methods for biomolecular simulations. <i>Computational and Theoretical Chemistry</i> , 2013, 1024, 34-44.	1.1	35

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73	Conformational Selection and Induced Fit in Specific Antibody and Antigen Recognition: SPE7 as a Case Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4912-4923.	1.2	36
74	Poisson-Boltzmann Implicit Solvation Models. <i>Annual Reports in Computational Chemistry</i> , 2012, , 149-162.	0.9	12
75	Dielectric pressure in continuum electrostatic solvation of biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15917.	1.3	26
76	Reducing Grid Dependence in Finite-Difference Poisson-Boltzmann Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2741-2751.	2.3	58
77	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
78	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
79	Atomistic Mechanism of MicroRNA Translation Upregulation via Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2012, 7, e43788.	1.1	13
80	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
81	On-the-Fly Numerical Surface Integration for Finite-Difference Poisson-Boltzmann Methods. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3608-3619.	2.3	24
82	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
83	Dielectric boundary force in numerical Poisson-Boltzmann methods: Theory and numerical strategies. <i>Chemical Physics Letters</i> , 2011, 514, 368-373.	1.2	30
84	Exploring a coarse-grained distributive strategy for finite-difference Poisson-Boltzmann calculations. <i>Journal of Molecular Modeling</i> , 2011, 17, 1985-1996.	0.8	13
85	Virtual screening using molecular simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1940-1951.	1.5	171
86	Assessment of linear finite-difference Poisson-Boltzmann solvers. <i>Journal of Computational Chemistry</i> , 2010, 31, 1689-1698.	1.5	73
87	A Revised Density Function for Molecular Surface Calculation in Continuum Solvent Models. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1157-1169.	2.3	28
88	Performance of Nonlinear Finite-Difference Poisson-Boltzmann Solvers. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 203-211.	2.3	89
89	Balancing Simulation Accuracy and Efficiency with the Amber United Atom Force Field. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2886-2893.	1.2	8
90	Widespread but Small-Scale Changes in the Structural and Dynamic Properties of Vaccinia Virus Poly(A) Polymerase upon Association with Its Processivity Factor in Solution. <i>Biochemistry</i> , 2010, 49, 6247-6262.	1.2	4

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91	Quantitative analysis of Poisson-Boltzmann implicit solvent in molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1194-1202.	1.3	43
92	On removal of charge singularity in Poisson-Boltzmann equation. <i>Journal of Chemical Physics</i> , 2009, 130, 145101.	1.2	47
93	Structural and functional implications of p53 missense cancer mutations. <i>PMC Biophysics</i> , 2009, 2, 5.	2.2	17
94	Achieving energy conservation in Poisson-Boltzmann molecular dynamics: Accuracy and precision with finite-difference algorithms. <i>Chemical Physics Letters</i> , 2009, 468, 112-118.	1.2	50
95	Molecular mechanisms of functional rescue mediated by P53 tumor suppressor mutations. <i>Biophysical Chemistry</i> , 2009, 145, 37-44.	1.5	10
96	Roles of Boundary Conditions in DNA Simulations: Analysis of Ion Distributions with the Finite-Difference Poisson-Boltzmann Method. <i>Biophysical Journal</i> , 2009, 97, 554-562.	0.2	26
97	Impact of low-frequency hotspot mutation R282Q on the structure of p53 DNA-binding domain as revealed by crystallography at 1.54 Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 471-477.	2.5	8
98	All-Atom Computer Simulations of Amyloid Fibrils Disaggregation. <i>Biophysical Journal</i> , 2008, 95, 5037-5047.	0.2	29
99	Protein Stability Prediction: A Poisson-Boltzmann Approach. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1875-1883.	1.2	20
100	Continuum Polarizable Force Field within the Poisson-Boltzmann Framework. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7675-7688.	1.2	26
101	Inhibition Kinetics and Emodin Cocrystal Structure of a Type II Polyketide Ketoreductase. <i>Biochemistry</i> , 2008, 47, 1837-1847.	1.2	57
102	Continuum treatment of electronic polarization effect. <i>Journal of Chemical Physics</i> , 2007, 126, 094103.	1.2	20
103	Implicit Nonpolar Solvent Models. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12263-12274.	1.2	206
104	Binding Induced Folding in p53-MDM2 Complex. <i>Journal of the American Chemical Society</i> , 2007, 129, 2930-2937.	6.6	107
105	Molecular Dynamics Simulations of p53 DNA-Binding Domain. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11538-11545.	1.2	60
106	New-Generation Amber United-Atom Force Field. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13166-13176.	1.2	176
107	How Well Does Poisson-Boltzmann Implicit Solvent Agree with Explicit Solvent? A Quantitative Analysis. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18680-18687.	1.2	153
108	Force field influences in β -hairpin folding simulations. <i>Protein Science</i> , 2006, 15, 2642-2655.	3.1	63

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109	Is Poisson-Boltzmann theory insufficient for protein folding simulations?. Journal of Chemical Physics, 2006, 124, 034902.	1.2	44
110	Functional Census of Mutation Sequence Spaces: The Example of p53 Cancer Rescue Mutants. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 114-125.	1.9	28
111	The Amber biomolecular simulation programs. Journal of Computational Chemistry, 2005, 26, 1668-1688.	1.5	7,742
112	Overcoming entropic barrier with coupled sampling at dual resolutions. Journal of Chemical Physics, 2005, 123, 194904.	1.2	49
113	Enhanced ab initio protein folding simulations in Poisson-Boltzmann molecular dynamics with self-guiding forces. Journal of Molecular Graphics and Modelling, 2004, 22, 415-424.	1.3	46
114	Physical scoring function based on AMBER force field and Poisson-Boltzmann implicit solvent for protein structure prediction. Proteins: Structure, Function and Bioinformatics, 2004, 56, 475-486.	1.5	46
115	Interplay of secondary structures and side-chain contacts in the denatured state of BBA1. Journal of Chemical Physics, 2004, 121, 2412-2421.	1.2	20
116	A point-charge force field for molecular mechanics simulations of proteins based on condensed-phase quantum mechanical calculations. Journal of Computational Chemistry, 2003, 24, 1999-2012.	1.5	4,028
117	A Poisson-Boltzmann dynamics method with nonperiodic boundary condition. Journal of Chemical Physics, 2003, 119, 11035-11047.	1.2	155
118	Accelerated Poisson-Boltzmann calculations for static and dynamic systems. Journal of Computational Chemistry, 2002, 23, 1244-1253.	1.5	421
119	Interpreting trends in the binding of cyclic ureas to HIV-1 protease. Journal of Molecular Biology, 2001, 309, 507-517.	2.0	39
120	The Physical Basis of Nucleic Acid Base Stacking in Water. Biophysical Journal, 2001, 80, 140-148.	0.2	87
121	An Analysis of the Interactions between the Sem ⁵ SH3 Domain and Its Ligands Using Molecular Dynamics, Free Energy Calculations, and Sequence Analysis. Journal of the American Chemical Society, 2001, 123, 3986-3994.	6.6	130
122	Ligand-receptor docking with the Mining Minima optimizer. Journal of Computer-Aided Molecular Design, 2001, 15, 157-171.	1.3	51
123	Comparison of generalized born and poisson models: Energetics and dynamics of HIV protease. Journal of Computational Chemistry, 2000, 21, 295-309.	1.5	98
124	Modeling Molecular Recognition: Theory and Application. Journal of Biomolecular Structure and Dynamics, 2000, 17, 89-94.	2.0	5
125	Synthetic Adenine Receptors: A Direct Calculation of Binding Affinity and Entropy. Journal of the American Chemical Society, 2000, 122, 2934-2937.	6.6	49
126	Nucleic acid base-pairing and N-methylacetamide self-association in chloroform: affinity and conformation. Biophysical Chemistry, 1999, 78, 183-193.	1.5	36

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127	Strength of Solvent-Exposed Salt-Bridges. <i>Journal of Physical Chemistry B</i> , 1999, 103, 727-736.	1.2	71
128	Computational Study of KNI-272, a Potent Inhibitor of HIV-1 Protease: On the Mechanism of Preorganization. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1031-1044.	1.2	19
129	pKaShifts in Small Molecules and HIV Protease: Electrostatics and Conformation. <i>Journal of the American Chemical Society</i> , 1998, 120, 6138-6146.	6.6	55
130	Dielectric Screening Treatment of Electrostatic Solvation. <i>Journal of Physical Chemistry B</i> , 1997, 101, 11226-11236.	1.2	37
131	Confronting the problem of interconnected structural changes in the comparative modeling of proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 23, 327-336.	1.5	25