

# Jeffery B Klauda

## List of Publications by Year in Descending Order

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

131  
papers

10,732  
citations

41  
h-index

103  
g-index

155  
ext. papers

13,758  
ext. citations

3.7  
avg, IF

6.43  
L-index

#	Paper	IF	Citations
131	GraphVAMPNet, using graph neural networks and variational approach to Markov processes for dynamical modeling of biomolecules.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 184103	3.9	2
130	Symmetric and Asymmetric Models for the Plasma Membrane: A Simulation Study. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 11418-11431	3.4	0
129	Variational embedding of protein folding simulations using Gaussian mixture variational autoencoders. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 194108	3.9	3
128	Location and Conformational Ensemble of Menaquinone and Menaquinol, and Protein-Lipid Modulations in Archaeal Membranes. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4714-4725	3.4	3
127	A replica exchange umbrella sampling (REUS) approach to predict host-guest binding free energies in SAMPL8 challenge. <i>Journal of Computer-Aided Molecular Design</i> , <b>2021</b> , 35, 667-677	4.2	1
126	Impact of PIP2 Lipids, Force Field Parameters, and Mutational Analysis on the Binding of the Osh4B Domain. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5296-5308	3.4	
125	Considerations of Recent All-Atom Lipid Force Field Development. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5676-5682	3.4	1
124	Estimating localization of various statins within a POPC bilayer. <i>Chemistry and Physics of Lipids</i> , <b>2021</b> , 236, 105074	3.7	3
123	Simulations of Diabetic and Non-Diabetic Peripheral Nerve Myelin Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 6201-6213	3.4	0
122	CHARMM36 Lipid Force Field with Explicit Treatment of Long-Range Dispersion: Parametrization and Validation for Phosphatidylethanolamine, Phosphatidylglycerol, and Ether Lipids. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1581-1595	6.4	8
121	Semi-automated Optimization of the CHARMM36 Lipid Force Field to Include Explicit Treatment of Long-Range Dispersion. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1562-1580	6.4	6
120	Exploring dynamics and network analysis of spike glycoprotein of SARS-COV-2. <i>Biophysical Journal</i> , <b>2021</b> , 120, 2902-2913	2.9	9
119	CHARMM-GUI Supports Hydrogen Mass Repartitioning and Different Protonation States of Phosphates in Lipopolysaccharides. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 831-839	6.1	10
118	Interfacial properties of aqueous solutions of butanol isomers and cyclohexane. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 513, 112551	2.5	1
117	Update of the CHARMM36 United Atom Chain Model for Hydrocarbons and Phospholipids. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 6797-6812	3.4	6
116	Rapid, quantitative therapeutic screening for Alzheimer's enzymes enabled by optimal signal transduction with transistors. <i>Analyst</i> , <b>2020</b> , 145, 2925-2936	5	2
115	Critical Sequence Hot-spots for Binding of nCoV-2019 to ACE2 as Evaluated by Molecular Simulations <b>2020</b> ,		3

114	Exploring dynamics and network analysis of spike glycoprotein of SARS-COV-2 <b>2020</b> ,		4
113	How Do Ethanolamine Plasmalogens Contribute to Order and Structure of Neurological Membranes?. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 828-839	3.4	10
112	Microsecond-timescale simulations suggest 5-HT-mediated preactivation of the 5-HT serotonin receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 405-414	11.5	14
111	Molecular dynamics simulations of ethanol permeation through single and double-lipid bilayers. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 125101	3.9	7
110	Critical Sequence Hotspots for Binding of Novel Coronavirus to Angiotensin Converter Enzyme as Evaluated by Molecular Simulations. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 10034-10047	3.4	39
109	Membrane permeability of small molecules from unbiased molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 124107	3.9	15
108	CHARMM-GUI Nanodisc Builder for modeling and simulation of various nanodisc systems. <i>Journal of Computational Chemistry</i> , <b>2019</b> , 40, 893-899	3.5	27
107	Isothermal Titration Calorimetry of Be with Phosphatidylserine Models Guides All-Atom Force-Field Development for Lipid-Ion Interactions. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 1554-1565	3.4	1
106	Reproducible Performance Improvements to Monolayer MoS Transistors through Exposed Material Forming Gas Annealing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16683-16692	9.5	13
105	Physical Properties of Bacterial Outer Membrane Models: Neutron Reflectometry & Molecular Simulation. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1095-1104	2.9	16
104	Mannobiose-Grafting Shifts PEI Charge and Biphasic Dependence on pH. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1800423	2.6	6
103	Structure and Permeability of Ceramide Bilayers and Multilayers. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 2525-2535	3.4	11
102	Setting Up All-Atom Molecular Dynamics Simulations to Study the Interactions of Peripheral Membrane Proteins with Model Lipid Bilayers. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1949, 325-339	1.4	4
101	Quantum capacitance-limited MoS biosensors enable remote label-free enzyme measurements. <i>Nanoscale</i> , <b>2019</b> , 11, 15622-15632	7.7	10
100	Probing the pH Effects on Sugar Binding to a Polysaccharide Lyase. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 7123-7136	3.4	3
99	Molecular Structure of the Long Periodicity Phase in the Stratum Corneum. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16930-16943	16.4	20
98	Developing and Testing of Lipid Force Fields with Applications to Modeling Cellular Membranes. <i>Chemical Reviews</i> , <b>2019</b> , 119, 6227-6269	68.1	48
97	Modeling Lipid Membranes <b>2019</b> , 741-759		

96	Effect of Membrane Lipid Packing on Stable Binding of the ALPS Peptide. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 1418-1429	6.4	14
95	CHARMM-GUI Membrane Builder for Complex Biological Membrane Simulations with Glycolipids and Lipoglycans. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 775-786	6.4	152
94	Simulations of Pure Ceramide and Ternary Lipid Mixtures as Simple Interior Stratum Corneum Models. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 2757-2768	3.4	21
93	Comparison of Additive and Polarizable Models with Explicit Treatment of Long-Range Lennard-Jones Interactions Using Alkane Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 948-958	6.4	31
92	Investigation of phase transitions of saturated phosphocholine lipid bilayers via molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 1489-1501	3.8	37
91	Parameterization of the CHARMM All-Atom Force Field for Ether Lipids and Model Linear Ethers. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 6744-6754	3.4	18
90	Aggregation of modified hexabenzocoronenes as models for early stage asphaltene self-assembly. <i>Molecular Simulation</i> , <b>2018</b> , 44, 992-1003	2	2
89	Simulations of simple Bovine and Homo sapiens outer cortex ocular lens membrane models with a majority concentration of cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 2134-2144	3.8	13
88	Engineering the Microbial Cell Membrane To Improve Bioproduction. <i>ACS Symposium Series</i> , <b>2018</b> , 25-39	0.4	2
87	Modeling inner plasma membrane in planktonic and biofilm modes. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 215102	3.9	4
86	Perspective: Computational modeling of accurate cellular membranes with molecular resolution. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 220901	3.9	9
85	Models for the Stratum Corneum Lipid Matrix: Effects of Ceramide Concentration, Ceramide Hydroxylation, and Free Fatty Acid Protonation. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11996-12008	3.4	11
84	The Role of Lipid Interactions in Simulations of the Hemolysin Ion-Channel-Forming Toxin. <i>Biophysical Journal</i> , <b>2018</b> , 115, 1720-1730	2.9	7
83	Preferred Binding Mechanism of Osh4R Amphipathic Lipid-Packing Sensor Motif, Insights from Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 9713-9723	3.4	11
82	Structural Events in a Bacterial Uniporter Leading to Translocation of Glucose to the Cytosol. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 3337-3352	6.5	7
81	Examination of Mixtures Containing Sphingomyelin and Cholesterol by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 4833-4844	3.4	33
80	Molecular Simulations of Mixed Lipid Bilayers with Sphingomyelin, Glycerophospholipids, and Cholesterol. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 5197-5208	3.4	37
79	Simulations of simple linoleic acid-containing lipid membranes and models for the soybean plasma membranes. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 215103	3.9	13

78	Molecular Dynamics Simulations of Ceramide and Ceramide-Phosphatidylcholine Bilayers. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10091-10104	3.4	18
77	Engineering Escherichia coli membrane phospholipid head distribution improves tolerance and production of biorenewables. <i>Metabolic Engineering</i> , <b>2017</b> , 44, 1-12	9.7	61
76	Two sterols, two bilayers: insights on membrane structure from molecular dynamics. <i>Molecular Simulation</i> , <b>2017</b> , 43, 1179-1188	2	8
75	Dual Action of Hydrotropes at the Water/Oil Interface. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 16423-16431	3.8	17
74	An extensive simulation study of lipid bilayer properties with different head groups, acyl chain lengths, and chain saturations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 3093-3104	3.8	32
73	Influence of Cholesterol on Phospholipid Bilayer Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 11761-11772	3.4	36
72	Bilayer Properties of Lipid A from Various Gram-Negative Bacteria. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1750-1760	6.0	60
71	Influence of Ganglioside GM1 Concentration on Lipid Clustering and Membrane Properties and Curvature. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1987-1999	2.9	29
70	Modeling structural transitions from the periplasmic-open state of lactose permease and interpretations of spin label experiments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 1541-52	3.8	4
69	Probing the Ripple Phase of Lipid Bilayers using Molecular Simulations. <i>Biophysical Journal</i> , <b>2016</b> , 110, 86a	2.9	2
68	CHARMM-GUI Input Generator for NAMD, GROMACS, AMBER, OpenMM, and CHARMM/OpenMM Simulations Using the CHARMM36 Additive Force Field. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 405-13	6.4	1303
67	The simultaneous mass and energy evaporation (SM2E) model. <i>Journal of Occupational and Environmental Hygiene</i> , <b>2016</b> , 13, 243-53	2.9	1
66	Peripheral membrane proteins: Tying the knot between experiment and computation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 1584-93	3.8	32
65	Modeling Lipid Membranes <b>2016</b> , 1-19		
64	CHARMM-GUI Input Generator for NAMD, Gromacs, Amber, Openmm, and CHARMM/OpenMM Simulations using the CHARMM36 Additive Force Field. <i>Biophysical Journal</i> , <b>2016</b> , 110, 641a	2.9	21
63	Effects of Spin-Labels on Membrane Burial Depth of MARCKS-ED Residues. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1600-1603	2.9	
62	Water Orientation at Ceramide/Water Interfaces Studied by Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23692-23697	3.8	11
61	Interplay of Specific Trans- and Juxtamembrane Interfaces in Plexin A3 Dimerization and Signal Transduction. <i>Biochemistry</i> , <b>2016</b> , 55, 4928-38	3.2	3

60	Biophysical Changes of Lipid Membranes in the Presence of Ethanol at Varying Concentrations. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 13134-41	3.4	21
59	Modeling Yeast Organelle Membranes and How Lipid Diversity Influences Bilayer Properties. <i>Biochemistry</i> , <b>2015</b> , 54, 6852-61	3.2	42
58	Probing the importance of lipid diversity in cell membranes via molecular simulation. <i>Chemistry and Physics of Lipids</i> , <b>2015</b> , 192, 12-22	3.7	43
57	CHARMM-GUI HMMM Builder for Membrane Simulations with the Highly Mobile Membrane-Mimetic Model. <i>Biophysical Journal</i> , <b>2015</b> , 109, 2012-22	2.9	60
56	Insight into Early-Stage Unfolding of GPI-Anchored Human Prion Protein. <i>Biophysical Journal</i> , <b>2015</b> , 109, 2090-100	2.9	14
55	Molecular dynamics simulations of palmitoyloleoylphosphatidylglycerol bilayers. <i>Molecular Simulation</i> , <b>2015</b> , 41, 948-954	2	8
54	Molecular dynamics simulations of cholesterol-rich membranes using a coarse-grained force field for cyclic alkanes. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 243144	3.9	44
53	How Tolerant are Membrane Simulations with Mismatch in Area per Lipid between Leaflets?. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3466-77	6.4	44
52	Lipopolysaccharide membrane building and simulation. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1273, 391-406	4	31
51	ST-analyzer: a web-based user interface for simulation trajectory analysis. <i>Journal of Computational Chemistry</i> , <b>2014</b> , 35, 957-63	3.5	11
50	Lipid-linked oligosaccharides in membranes sample conformations that facilitate binding to oligosaccharyltransferase. <i>Biophysical Journal</i> , <b>2014</b> , 107, 1885-1895	2.9	17
49	CHARMM-GUI Membrane Builder toward realistic biological membrane simulations. <i>Journal of Computational Chemistry</i> , <b>2014</b> , 35, 1997-2004	3.5	1004
48	Preferred orientations of phosphoinositides in bilayers and their implications in protein recognition mechanisms. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4315-25	3.4	21
47	A systematic molecular dynamics simulation study of temperature dependent bilayer structural properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 2520-9	3.8	63
46	CHARMM all-atom additive force field for sphingomyelin: elucidation of hydrogen bonding and of positive curvature. <i>Biophysical Journal</i> , <b>2014</b> , 107, 134-45	2.9	138
45	CHARMM36 united atom chain model for lipids and surfactants. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 547-56	3.4	99
44	Mesoscale phenomena in ternary solutions of tertiary butyl alcohol, water, and propylene oxide. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 5994-6006	3.4	32
43	E. coli outer membrane and interactions with OmpLA. <i>Biophysical Journal</i> , <b>2014</b> , 106, 2493-502	2.9	97

42	Mesoscale inhomogeneities in aqueous solutions of small amphiphilic molecules. <i>Faraday Discussions</i> , <b>2013</b> , 167, 217-38	3.6	69
41	Molecular dynamics and NMR spectroscopy studies of E. coli lipopolysaccharide structure and dynamics. <i>Biophysical Journal</i> , <b>2013</b> , 105, 1444-55	2.9	125
40	CHARMM-GUI micelle builder for pure/mixed micelle and protein/micelle complex systems. <i>Journal of Chemical Information and Modeling</i> , <b>2013</b> , 53, 2171-80	6.1	61
39	Influence of ester-modified lipids on bilayer structure. <i>Langmuir</i> , <b>2013</b> , 29, 14196-203	4	14
38	Molecular dynamics simulations of the Cx26 hemichannel: insights into voltage-dependent loop-gating. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1341-51	2.9	32
37	Membrane models of E. coli containing cyclic moieties in the aliphatic lipid chain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 1205-10	3.8	72
36	Improving the CHARMM force field for polyunsaturated fatty acid chains. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 9424-31	3.4	102
35	Membrane-binding mechanism of a peripheral membrane protein through microsecond molecular dynamics simulations. <i>Journal of Molecular Biology</i> , <b>2012</b> , 423, 847-61	6.5	32
34	Update of the cholesterol force field parameters in CHARMM. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 203-10	3.4	147
33	Lipid membranes with a majority of cholesterol: applications to the ocular lens and aquaporin 0. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 6455-64	3.4	38
32	Orientation of fluorescent lipid analogue BODIPY-PC to probe lipid membrane properties: insights from molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 6157-65	3.4	24
31	Gas Hydrate Structure and Pressure Predictions Based on an Updated Fugacity-Based Model with the PSRK Equation of State. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 148-157	3.9	32
30	Lipid chain branching at the iso- and anteiso-positions in complex Chlamydia membranes: a molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 323-31	3.8	41
29	Cholesterol flip-flop: insights from free energy simulation studies. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 13342-8	3.4	97
28	Sterol binding and membrane lipid attachment to the Osh4 protein of yeast. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 13562-73	3.4	4
27	Probing the periplasmic-open state of lactose permease in response to sugar binding and proton translocation. <i>Journal of Molecular Biology</i> , <b>2010</b> , 404, 506-21	6.5	28
26	Update of the CHARMM all-atom additive force field for lipids: validation on six lipid types. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 7830-43	3.4	2654
25	Binding and release of cholesterol in the Osh4 protein of yeast. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 75, 468-77	4.2	29

24	CHARMM-GUI Membrane Builder for mixed bilayers and its application to yeast membranes. <i>Biophysical Journal</i> , <b>2009</b> , 97, 50-8	2.9	891
23	Chapter 1 Considerations for Lipid Force Field Development. <i>Current Topics in Membranes</i> , <b>2008</b> , 1-48	2.2	51
22	Rotation of lipids in membranes: molecular dynamics simulation, 31P spin-lattice relaxation, and rigid-body dynamics. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3074-83	2.9	81
21	Collective and noncollective models of NMR relaxation in lipid vesicles and multilayers. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 5924-9	3.4	44
20	CHARMMing: a new, flexible web portal for CHARMM. <i>Journal of Chemical Information and Modeling</i> , <b>2008</b> , 48, 1920-9	6.1	105
19	CHARMM Force Field Parameters for Nitroalkanes and Nitroarenes. <i>Journal of Chemical Theory and Computation</i> , <b>2008</b> , 4, 107-15	6.4	10
18	Long-range Lennard-Jones and electrostatic interactions in interfaces: application of the isotropic periodic sum method. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4393-400	3.4	71
17	Sugar binding in lactose permease: anomeric state of a disaccharide influences binding structure. <i>Journal of Molecular Biology</i> , <b>2007</b> , 367, 1523-34	6.5	30
16	Dynamical motions of lipids and a finite size effect in simulations of bilayers. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 144710	3.9	106
15	Simulation-based methods for interpreting x-ray data from lipid bilayers. <i>Biophysical Journal</i> , <b>2006</b> , 90, 2796-807	2.9	188
14	Hierarchical modeling N <sub>2</sub> adsorption on the surface of and within a C <sub>60</sub> crystal: from quantum mechanics to molecular simulation. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 4731-7	3.4	13
13	Adjacent gauche stabilization in linear alkanes: implications for polymer models and conformational analysis. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 15684-6	3.4	50
12	A comparative study of nitrogen physisorption on different C <sub>70</sub> crystal structures using an ab initio based potential. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17267-73	3.4	4
11	Global Distribution of Methane Hydrate in Ocean Sediment. <i>Energy &amp; Fuels</i> , <b>2005</b> , 19, 459-470	4.1	374
10	An ab initio study on the torsional surface of alkanes and its effect on molecular simulations of alkanes and a DPPC bilayer. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5300-11	3.4	279
9	HM-IE: Quantum Chemical Hybrid Methods for Calculating Interaction Energies. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 107-112	2.8	43
8	Hierarchical Modeling O <sub>2</sub> and N <sub>2</sub> Adsorption in C <sub>168</sub> Schwarzite: From Quantum Mechanics to Molecular Simulation. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9852-9860	3.4	14
7	An ab Initio Study on the Effect of Carbon Surface Curvature and Ring Structure on N <sub>2</sub> (O <sub>2</sub> )-Carbon Intermolecular Potentials. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9842-9851	3.4	29

6	Phase behavior of clathrate hydrates: a model for single and multiple gas component hydrates. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 27-41	4.4	147
5	Monte Carlo Simulation of O <sub>2</sub> and N <sub>2</sub> Adsorption in Nanoporous Carbon (C168 Schwarzite). <i>Langmuir</i> , <b>2003</b> , 19, 3512-3518	4	30
4	Predictions of gas hydrate phase equilibria and amounts in natural sediment porous media. <i>Marine and Petroleum Geology</i> , <b>2003</b> , 20, 459-470	4.7	57
3	Ab Initio Intermolecular Potentials for Gas Hydrates and Their Predictions. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 5722-5732	3.4	73
2	Modeling Gas Hydrate Phase Equilibria in Laboratory and Natural Porous Media. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 4197-4208	3.9	73
1	A Fugacity Model for Gas Hydrate Phase Equilibria. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 3377-3386	3.9	208