

# David J Wales

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4098123/david-j-wales-publications-by-year.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.

314  
papers

19,530  
citations

71  
h-index

132  
g-index

325  
ext. papers

21,112  
ext. citations

5.7  
avg, IF

7.34  
L-index

#	Paper	IF	Citations
3 <sup>14</sup>	The Energy Landscape Perspective: Encoding Structure and Function for Biomolecules.. <i>Frontiers in Molecular Biosciences</i> , <b>2022</b> , 9, 820792	5.6	0
3 <sup>13</sup>	Characterising the area under the curve loss function landscape. <i>Machine Learning: Science and Technology</i> , <b>2022</b> , 3, 015019	5.1	
3 <sup>12</sup>	Elucidating the solution structure of the K-means cost function using energy landscape theory.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 054109	3.9	
3 <sup>11</sup>	On the capacity and superposition of minima in neural network loss function landscapes. <i>Machine Learning: Science and Technology</i> , <b>2022</b> , 3, 025004	5.1	0
3 <sup>10</sup>	The energy landscape perspective: cutting a Gordian knot. <i>Frontiers of Nanoscience</i> , <b>2022</b> , 1-18	0.7	
3 <sup>09</sup>	Nearly reducible finite Markov chains: Theory and algorithms. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 140901	3.9	4
3 <sup>08</sup>	Energy Landscapes for Electronic Structure. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 151-169	6.9	10
3 <sup>07</sup>	Crystal Structure Prediction for Benzene Using Basin-Hopping Global Optimization. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 3776-3784	2.8	2
3 <sup>06</sup>	Surface Chirality Influences Molecular Rotation upon Desorption. <i>Physical Review Letters</i> , <b>2021</b> , 126, 166101	7.4	2
3 <sup>05</sup>	Side-Chain Polarity Modulates the Intrinsic Conformational Landscape of Model Dipeptides. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5809-5822	3.4	
3 <sup>04</sup>	Graph transformation and shortest paths algorithms for finite Markov chains. <i>Physical Review E</i> , <b>2021</b> , 103, 063306	2.4	1
3 <sup>03</sup>	Numerical analysis of first-passage processes in finite Markov chains exhibiting metastability. <i>Physical Review E</i> , <b>2021</b> , 104, 015301	2.4	3
3 <sup>02</sup>	Systematic Evaluation of ReaxFF Reactive Force Fields for Biochemical Applications. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 497-514	6.4	2
3 <sup>01</sup>	The energy landscapes of bidisperse particle assemblies on a sphere. <i>Soft Matter</i> , <b>2021</b> , 17, 9019-9027	3.6	1
3 <sup>00</sup>	Development of ReaxFF Reactive Force Field for Aqueous Iron-Sulfur Clusters with Applications to Stability and Reactivity in Water. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 1204-1214	6.1	1
299	Minimal Design Principles for Icosahedral Virus Capsids. <i>ACS Nano</i> , <b>2021</b> , 15, 14873-14884	16.7	0
298	Rotational Dynamics of Desorption: Methane and Ethane at Stepped and Kinked Platinum Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 27938-27948	3.8	1

297	Perspective: new insights from loss function landscapes of neural networks. <i>Machine Learning: Science and Technology</i> , <b>2020</b> , 1, 023002	5.1	1
296	Defining, Calculating, and Converging Observables of a Kinetic Transition Network. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 2661-2679	6.4	13
295	Counterion-Trapped-Molecules: From High Polarity and Enriched IR Spectra to Induced Isomerization. <i>ChemPhysChem</i> , <b>2020</b> , 21, 348-355	3.2	4
294	Affinity-Selected Bicyclic Peptide G-Quadruplex Ligands Mimic a Protein-like Binding Mechanism. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 8367-8373	16.4	8
293	Energy Landscapes of Deoxyxylo- and Xylo-Nucleic Acid Octamers. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 4062-4068	3.4	3
292	Optimal dimensionality reduction of Markov chains using graph transformation. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 244108	3.9	3
291	A multifunnel energy landscape encodes the competing $\beta$ helix and $\beta$ hairpin conformations for a designed peptide. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 1359-1370	3.6	3
290	Flip rearrangement in the water pentamer: Analysis of electronic structure. <i>International Journal of Quantum Chemistry</i> , <b>2020</b> , 120, e26124	2.1	3
289	Multifunnel Energy Landscapes for Phosphorylated Translation Repressor 4E-BP2 and Its Mutants. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 800-810	6.4	3
288	Energy Landscape for the Membrane Fusion Pathway in Influenza A Hemagglutinin From Discrete Path Sampling. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 575195	5	3
287	Rare events and first passage time statistics from the energy landscape. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 134115	3.9	9
286	A well-behaved theoretical framework for ReaxFF reactive force fields. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 021102	3.9	6
285	Efficient and exact sampling of transition path ensembles on Markovian networks. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 024121	3.9	7
284	Improving double-ended transition state searches for soft-matter systems. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 034104	3.9	1
283	Protein energy landscape exploration with structure-based models. <i>Current Opinion in Structural Biology</i> , <b>2020</b> , 64, 145-151	8.1	3
282	Fragility and correlated dynamics in supercooled liquids. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 124501	3.9	1
281	Archetypal landscapes for deep neural networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21857-21864	11.5	4
280	Structural transitions in the RNA 7SK 5' hairpin and their effect on HEXIM binding. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 373-389	20.1	8

279	Temperature Controls Guest Uptake and Release from ZnL Tetrahedra. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 14534-14538	16.4	29
278	Nested Basin-Sampling. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 6865-6881	6.4	6
277	Energy Landscapes for Proteins: From Single Funnels to Multifunctional Systems. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1800175	3.5	35
276	Go-Kit: A Tool To Enable Energy Landscape Exploration of Proteins. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 1703-1708	6.1	6
275	Dynamics of an adenine-adenine RNA conformational switch from discrete path sampling. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 125101	3.9	7
274	The Contribution of Backbone Electrostatic Repulsion to DNA Mechanical Properties is Length-Scale-Dependent. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4829-4835	6.4	5
273	Identifying mechanistically distinct pathways in kinetic transition networks. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 124101	3.9	12
272	Energy Landscapes and Hybridization Pathways for DNA Hexamer Duplexes. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6771-6779	6.4	7
271	Tunneling Splittings in Water Clusters from Path Integral Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7300-7304	6.4	15
270	Transforming the Accuracy and Numerical Stability of ReaxFF Reactive Force Fields. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7215-7223	6.4	14
269	Morphological analysis of chiral rod clusters from a coarse-grained single-site chiral potential. <i>Soft Matter</i> , <b>2019</b> , 15, 8147-8155	3.6	1
268	Energy Landscape for Fold-Switching in Regulatory Protein RfaH. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 731-742	6.4	9
267	Path Integral Energy Landscapes for Water Clusters. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 33-42	6.4	9
266	Computational Investigation of RNA A-Bulges Related to the Microtubule-Associated Protein Tau Causing Frontotemporal Dementia and Parkinsonism. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 57-65	3.4	1
265	Energy Landscapes for the Aggregation of A $\beta$ . <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4018-4027	4.2	22
264	Terahertz VRT spectroscopy of the water hexamer-d12 prism: Dramatic enhancement of bifurcation tunneling upon librational excitation. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 094301	3.9	7
263	Exploring Energy Landscapes. <i>Annual Review of Physical Chemistry</i> , <b>2018</b> , 69, 401-425	15.7	62
262	From sticky-hard-sphere to Lennard-Jones-type clusters. <i>Physical Review E</i> , <b>2018</b> , 97, 043309	2.4	13

261	Energy Landscape and Pathways for Transitions between Watson-Crick and Hoogsteen Base Pairing in DNA. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 229-241	6.4	27
260	Kinetics of Molecular Diffusion and Self-Assembly: Glycine on Cu{110}. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 782-797	3.8	4
259	Designing hierarchical molecular complexity: icosahedra of addressable icosahedra. <i>Molecular Physics</i> , <b>2018</b> , 116, 2954-2964	1.7	5
258	Computational Studies of the Mechanical Stability for Single-Strand Break DNA. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 8166-8173	3.4	3
257	Predicting Pathways between Distant Configurations for Biomolecules. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 4271-4278	6.4	5
256	Terahertz VRT Spectroscopy of the Water Hexamer-h12 Cage: Dramatic Libration-Induced Enhancement of Hydrogen Bond Tunneling Dynamics. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 7421-7426	2.8	3
255	Structure, thermodynamics, and rearrangement mechanisms in gold clusters-insights from the energy landscapes framework. <i>Nanoscale</i> , <b>2018</b> , 10, 2004-2016	7.7	25
254	Intrinsically Disordered Landscapes for Human CD4 Receptor Peptide. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11906-11921	3.4	7
253	Energy Landscape of the Designed Protein Top7. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 12282-12291	3.4	7
252	Analysis of the Ub to Ub-CR Transition in Ubiquitin. <i>Biochemistry</i> , <b>2018</b> , 57, 6180-6186	3.2	5
251	Effects of random pinning on the potential energy landscape of a supercooled liquid. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 114503	3.9	9
250	Mutational Basin-Hopping: Combined Structure and Sequence Optimization for Biomolecules. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6169-6173	6.4	9
249	Mapping Surface Hydrophobicity of $\beta$ -Synuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , <b>2018</b> , 18, 7494-7501	11.5	42
248	Proline provides site-specific flexibility for in vivo collagen. <i>Scientific Reports</i> , <b>2018</b> , 8, 13809	4.9	24
247	Loss surface of XOR artificial neural networks. <i>Physical Review E</i> , <b>2018</b> , 97, 052307	2.4	10
246	Energy Landscapes of Mini-Dumbbell DNA Octanucleotides. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 3870-3876	6.4	4
245	Evolved Minimal Frustration in Multifunctional Biomolecules. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 10989-10995	3.4	13
244	Tunneling splittings from path-integral molecular dynamics using a Langevin thermostat. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 234102	3.9	16

243	Exotic bilayer crystals in a strong magnetic field. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	3
242	Machine learning prediction for classification of outcomes in local minimisation. <i>Chemical Physics Letters</i> , <b>2017</b> , 667, 158-164	2.5	6
241	Atomic clusters with addressable complexity. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 054306	3.9	7
240	Transforming the Energy Landscape of a Coiled-Coil Peptide via Point Mutations. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 1468-1477	6.4	12
239	What Makes Telomeres Unique?. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 2207-2219	3.4	12
238	Exploring biomolecular energy landscapes. <i>Chemical Communications</i> , <b>2017</b> , 53, 6974-6988	5.8	48
237	Energy landscapes and dynamics of glycine on Cu(110). <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 16600-16605	3.6	1
236	Energy landscapes for machine learning. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 12585-12603	3.6	57
235	Decoding heat capacity features from the energy landscape. <i>Physical Review E</i> , <b>2017</b> , 95, 030105	2.4	21
234	Improving Computational Predictions of Single-Stranded RNA Tetramers with Revised Torsional Parameters for the Amber Force Field. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 2989-2999	3.4	17
233	Defining and quantifying frustration in the energy landscape: Applications to atomic and molecular clusters, biomolecules, jammed and glassy systems. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 124103	3.9	17
232	Dynamics and thermodynamics of the coronene octamer described by coarse-grained potentials. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1884-1895	3.6	14
231	Pathways for diffusion in the potential energy landscape of the network glass former SiO. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 152726	3.9	13
230	Structure and Thermodynamics of Metal Clusters on Atomically Smooth Substrates. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5402-5407	6.4	7
229	Optimal Alignment of Structures for Finite and Periodic Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 4914-4931	6.4	16
228	Properties of kinetic transition networks for atomic clusters and glassy solids. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25498-25508	3.6	10
227	Prediction of early unplanned intensive care unit readmission in a UK tertiary care hospital: a cross-sectional machine learning approach. <i>BMJ Open</i> , <b>2017</b> , 7, e017199	3	50
226	Exploiting sparsity in free energy basin-hopping. <i>Chemical Physics Letters</i> , <b>2017</b> , 685, 288-293	2.5	2

225	Machine learning landscapes and predictions for patient outcomes. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 170175	3.3	3
224	Multifunctional energy landscape for a DNA G-quadruplex: An evolved molecular switch. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 152715	3.9	22
223	Decoupled Associative and Dissociative Processes in Strong yet Highly Dynamic Host-Guest Complexes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12985-12993	16.4	43
222	A stress tensor eigenvector projection space for the (H <sub>2</sub> O) <sub>5</sub> potential energy surface. <i>Chemical Physics Letters</i> , <b>2017</b> , 667, 25-31	2.5	19
221	Probing helical transitions in a DNA duplex. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 19, 878-892	3.6	18
220	Turning intractable counting into sampling: Computing the configurational entropy of three-dimensional jammed packings. <i>Physical Review E</i> , <b>2016</b> , 93, 012906	2.4	45
219	Kinetic Transition Networks for the Thomson Problem and Smale's Seventh Problem. <i>Physical Review Letters</i> , <b>2016</b> , 117, 028301	7.4	15
218	Energy landscapes for a machine-learning prediction of patient discharge. <i>Physical Review E</i> , <b>2016</b> , 93, 063310	2.4	14
217	Structure, Thermodynamics, and Folding Pathways for a Tryptophan Zipper as a Function of Local Rigidification. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 6109-6117	6.4	5
216	GPU-Accelerated Exploration of Biomolecular Energy Landscapes. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 6182-6191	6.4	15
215	Coarse-Grained Simulations Complemented by Atomistic Molecular Dynamics Provide New Insights into Folding and Unfolding of Human Telomeric G-Quadruplexes. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 6077-6097	6.4	35
214	Energy landscapes for a machine learning application to series data. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 124119	3.9	19
213	Energetically favoured defects in dense packings of particles on spherical surfaces. <i>Soft Matter</i> , <b>2016</b> , 12, 5708-17	3.6	22
212	Rovibrational transitions of the methane-water dimer from intermolecular quantum dynamical computations. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 22816-26	3.6	20
211	Structure and torsional dynamics of the water octamer from THz laser spectroscopy near 215 $\mu$ m. <i>Science</i> , <b>2016</b> , 352, 1194-7	33.3	58
210	Grand and Semigrand Canonical Basin-Hopping. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 902-9	6.4	21
209	Concerted hydrogen-bond breaking by quantum tunneling in the water hexamer prism. <i>Science</i> , <b>2016</b> , 351, 1310-3	33.3	182
208	Rate constants, timescales, and free energy barriers. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2016</b> , 41,	3.8	11

207	Dynamical properties of two- and three-dimensional colloidal clusters of six particles. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 12725-32	3.6	1
206	Prediction of Sepsis in the Intensive Care Unit With Minimal Electronic Health Record Data: A Machine Learning Approach. <i>JMIR Medical Informatics</i> , <b>2016</b> , 4, e28	3.6	224
205	Dynamics of a molecular glass former: Energy landscapes for diffusion in ortho-terphenyl. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 024505	3.9	23
204	Quantum tunneling splittings from path-integral molecular dynamics. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 114108	3.9	24
203	Energy landscapes and persistent minima. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 054109	3.9	8
202	Coarse-graining the structure of polycyclic aromatic hydrocarbons clusters. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13736-40	3.6	18
201	Conformational Energy Landscape of the Ritonavir Molecule. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4331-40	3.4	9
200	Self-assembly of colloidal magnetic particles: energy landscapes and structural transitions. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 26579-26585	3.6	13
199	Structural analysis of high-dimensional basins of attraction. <i>Physical Review E</i> , <b>2016</b> , 94, 031301	2.4	12
198	QTAIM and stress tensor interpretation of the (H O) potential energy surface. <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 2712-2721	3.5	8
197	Impurity effects on solid-solid transitions in atomic clusters. <i>Nanoscale</i> , <b>2016</b> , 8, 18326-18340	7.7	13
196	Potential energy landscapes of tetragonal pyramid molecules. <i>Chemical Physics Letters</i> , <b>2016</b> , 664, 5-9	2.5	3
195	The potential energy landscape for crystallisation of a Lennard-Jones fluid. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2016</b> , 2016, 074001	1.9	10
194	Trapping of hydrogen atoms inside small beryllium clusters and their ions. <i>Chemical Physics Letters</i> , <b>2016</b> , 659, 282-288	2.5	0
193	Preventing Structural Rearrangements on Battery Cycling: A First-Principles Investigation of the Effect of Dopants on the Migration Barriers in Layered Li <sub>0.5</sub> MnO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 19521-19530	3.8	11
192	Free energy basin-hopping. <i>Chemical Physics Letters</i> , <b>2015</b> , 625, 1-4	2.5	18
191	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , <b>2015</b> , 248, 611-40	2.3	101
190	Mapping Structural Changes in Electrode Materials: Application of the Hybrid Eigenvector-Following Density Functional Theory (DFT) Method to Layered Li <sub>0.5</sub> MnO <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5550-5561	9.6	13



189	Design of a Kagome lattice from soft anisotropic particles. <i>Soft Matter</i> , <b>2015</b> , 11, 6663-8	3.6	5
188	Exploring the potential energy landscape of the Thomson problem via Newton homotopies. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 194113	3.9	9
187	Equilibrium molecular thermodynamics from Kirkwood sampling. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 6155-69	3.4	1
186	Structures and Energy Landscapes of Hydrated Sulfate Clusters. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 2377-84	6.4	27
185	Exploiting the potential energy landscape to sample free energy. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2015</b> , 5, 273-289	7.9	10
184	Quasi-combinatorial energy landscapes for nanoalloy structure optimisation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28331-8	3.6	20
183	Analysis of the Contrasting Pathogenicities Induced by the D222G Mutation in 1918 and 2009 Pandemic Influenza A Viruses. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 2307-14	6.4	3
182	How to make a porphyrin flip: dynamics of asymmetric porphyrin oligomers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27094-102	3.6	
181	Markov state modeling and dynamical coarse-graining via discrete relaxation path sampling. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 044119	3.9	8
180	Computational investigation of RNA CUG repeats responsible for myotonic dystrophy 1. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 4943-58	6.4	16
179	Intrinsically disordered energy landscapes. <i>Scientific Reports</i> , <b>2015</b> , 5, 10386	4.9	54
178	Response to "Comment on 'Exploring the potential energy landscape of the Thomson problem via Newton homotopies'" [J. Chem. Phys. 143, 247101 (2015)]. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 247102 <sup>3,9</sup>		
177	Hydroxyproline Ring Pucker Causes Frustration of Helix Parameters in the Collagen Triple Helix. <i>Scientific Reports</i> , <b>2015</b> , 5, 12556	4.9	25
176	Perspective: Insight into reaction coordinates and dynamics from the potential energy landscape. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 130901	3.9	66
175	Energy landscapes of a hairpin peptide including NMR chemical shift restraints. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 20250-8	3.6	3
174	Chemistry, geometry, and defects in two dimensions. <i>ACS Nano</i> , <b>2014</b> , 8, 1081-5	16.7	13
173	A conformational factorisation approach for estimating the binding free energies of macromolecules. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2842-53	3.6	16
172	Exploring energy landscapes: from molecular to mesoscopic systems. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5014-25	3.6	15

171	Observation time scale, free-energy landscapes, and molecular symmetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 617-22	11.5	44
170	An inversion-relaxation approach for sampling stationary points of spin model Hamiltonians. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 194104	3.9	7
169	Benchmarks for Characterization of Minima, Transition States, and Pathways in Atomic, Molecular, and Condensed Matter Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5476-82	6.4	38
168	Energy landscapes of planar colloidal clusters. <i>Nanoscale</i> , <b>2014</b> , 6, 10717-26	7.7	18
167	Structure prediction for multicomponent materials using biminima. <i>Physical Review Letters</i> , <b>2014</b> , 113, 156102	7.4	20
166	Proton transfer pathways, energy landscape, and kinetics in creatine-water systems. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 1969-75	3.4	5
165	Design principles for Bernal spirals and helices with tunable pitch. <i>Nanoscale</i> , <b>2014</b> , 6, 9448-56	7.7	23
164	Communication: Analysing kinetic transition networks for rare events. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 041104	3.9	19
163	Communication: Newton homotopies for sampling stationary points of potential energy landscapes. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 121104	3.9	13
162	Superposition Enhanced Nested Sampling. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	18
161	Communication: optimal parameters for basin-hopping global optimization based on Tsallis statistics. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 071101	3.9	6
160	Certification and the potential energy landscape. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 224114	3.9	5
159	Energy landscapes, folding mechanisms, and kinetics of RNA tetraloop hairpins. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 18052-61	16.4	37
158	Superposition-Enhanced Estimation of Optimal Temperature Spacings for Parallel Tempering Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5599-5605	6.4	8
157	A left-handed building block self-assembles into right- and left-handed helices. <i>RSC Advances</i> , <b>2013</b> , 3, 12905	3.7	14
156	Investigation of terahertz vibration-rotation tunneling spectra for the water octamer. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 6960-6	2.8	44
155	Exploring Energy Landscapes: Metrics, Pathways, and Normal-Mode Analysis for Rigid-Body Molecules. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4026-34	6.4	17
154	Energy landscapes, structural topologies and rearrangement mechanisms in clusters of dipolar particles. <i>Soft Matter</i> , <b>2013</b> , 9, 5407	3.6	28

153	Symmetrisation schemes for global optimisation of atomic clusters. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3965-76	3.6	51
152	Surveying a complex potential energy landscape: Overcoming broken ergodicity using basin-sampling. <i>Chemical Physics Letters</i> , <b>2013</b> , 584, 1-9	2.5	51
151	Designing a Bernal spiral from patchy colloids. <i>ACS Nano</i> , <b>2013</b> , 7, 1246-56	16.7	35
150	Communication: Certifying the potential energy landscape. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 17110-19	3.9	16
149	Visualizing basins of attraction for different minimization algorithms. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 12717-23	3.4	34
148	Communication: a new paradigm for structure prediction in multicomponent systems. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 221101	3.9	28
147	Energy landscapes and global thermodynamics for alanine peptides. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 121909	3.9	19
146	Quasi-Continuous Interpolation Scheme for Pathways between Distant Configurations. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 5020-34	6.4	27
145	Mode-specificity and transition state-specific energy redistribution in the chemisorption of CH <sub>4</sub> on Ni{100}. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 15879-87	3.6	29
144	A Local Rigid Body Framework for Global Optimization of Biomolecules. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 5159-65	6.4	32
143	Bond-selective energy redistribution in the chemisorption of CH <sub>3</sub> D and CD <sub>3</sub> H on Pt{110}-(1 $\times$ 1): A first-principles molecular dynamics study. <i>Computational and Theoretical Chemistry</i> , <b>2012</b> , 990, 144-151	2	18
142	Evolution of the potential energy landscape with static pulling force for two model proteins. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 8394-411	3.4	29
141	Beryllium cluster cages endohedrally doped by hydrogen: H <sub>2</sub> @Ben (8 h 14). <i>International Journal of Quantum Chemistry</i> , <b>2012</b> , 112, 3068-3075	2.1	3
140	Decoding the energy landscape: extracting structure, dynamics and thermodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2012</b> , 370, 2877-99	3	58
139	Chemistry. Pinning down the water hexamer. <i>Science</i> , <b>2012</b> , 336, 814-5	33.3	57
138	Energy landscapes of colloidal clusters: thermodynamics and rearrangement mechanisms. <i>Nanoscale</i> , <b>2012</b> , 4, 1085-100	7.7	50
137	Chaotic dynamics near steep transition states. <i>Molecular Physics</i> , <b>2012</b> , 110, 1839-1848	1.7	4
136	Energy landscape and global optimization for a frustrated model protein. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 11525-9	3.4	29

135	Coupled linear and rotary motion in supramolecular helix handedness inversion. <i>Soft Matter</i> , <b>2011</b> , 7, 2325	3.6	16
134	A survey of the potential energy surface for the (benzene) <sub>13</sub> cluster. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 21362-6	3.6	10
133	Mode-Specific Chemisorption of CH <sub>4</sub> on Pt{110}-(1 × 1) Explored by First-Principles Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 21832-21842	3.8	33
132	Instanton calculations of tunneling splittings for water dimer and trimer. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 124109	3.9	65
131	Virulence-associated substitution D222G in the hemagglutinin of 2009 pandemic influenza A(H1N1) virus affects receptor binding. <i>Journal of Virology</i> , <b>2010</b> , 84, 11802-13	6.6	171
130	Interpolation schemes for peptide rearrangements. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 054101	3.9	13
129	Energy Landscapes and Structure Prediction Using Basin-Hopping <b>2010</b> , 29-54		5
128	The energy landscape, folding pathways and the kinetics of a knotted protein. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000835	5	37
127	Transmembrane structures for Alzheimer's Aβ(1-42) oligomers. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13300-12	16.4	116
126	Emergent complexity from simple anisotropic building blocks: shells, tubes, and spirals. <i>ACS Nano</i> , <b>2010</b> , 4, 219-28	16.7	48
125	Energy landscapes: some new horizons. <i>Current Opinion in Structural Biology</i> , <b>2010</b> , 20, 3-10	8.1	116
124	Energy landscapes of clusters bound by short-ranged potentials. <i>ChemPhysChem</i> , <b>2010</b> , 11, 2491-4	3.2	58
123	Symmetrization of the AMBER and CHARMM force fields. <i>Journal of Computational Chemistry</i> , <b>2010</b> , 31, 1402-9	3.5	26
122	Defect motifs for spherical topologies. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	59
121	Rational design of helical architectures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 20164-20167	11.5	36
120	Mechanisms for H <sub>2</sub> Reduction on the PdO{101} Surface and the Pd{100}-(√3 × √3)R27°-O Surface Oxide. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16757-16765	3.8	19
119	Calculating rate constants and committor probabilities for transition networks by graph transformation. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 204111	3.9	69
118	Refined kinetic transition networks for the GB1 hairpin peptide. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3341-54	3.6	36

117	Connectivity in the potential energy landscape for binary Lennard-Jones systems. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 194508	3.9	44
116	Global minima of transition metal clusters described by FinnisSinclair potentials: A comparison with semi-empirical molecular orbital theory. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 3311-3332	1.6	39
115	Simulations of rigid bodies in an angle-axis framework. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 1970-6	3.6	48
114	Energy landscapes for shells assembled from pentagonal and hexagonal pyramids. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2098-104	3.6	35
113	Energy landscapes for diffusion: analysis of cage-breaking processes. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 164507	3.9	71
112	Folding pathways and rates for the three-stranded beta-sheet peptide Beta3s using discrete path sampling. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 8760-9	3.4	86
111	Protein structure prediction using basin-hopping. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 225106	3.9	37
110	Free energy surfaces from an extended harmonic superposition approach and kinetics for alanine dipeptide. <i>Chemical Physics Letters</i> , <b>2008</b> , 466, 105-115	2.5	100
109	THE ENERGY LANDSCAPE AS A COMPUTATIONAL TOOL <b>2008</b> , 321-330		7
108	Thermodynamics and kinetics of aggregation for the GNNQQNY peptide. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 16005-14	16.4	139
107	Comparison of double-ended transition state search methods. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 134102	3.9	38
106	Energy Landscapes: From Clusters to Biomolecules. <i>Advances in Chemical Physics</i> , <b>2007</b> , 1-111		124
105	Geometry optimization for peptides and proteins: comparison of Cartesian and internal coordinates. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 234105	3.9	6
104	Kinetic analysis of discrete path sampling stationary point databases. <i>Molecular Physics</i> , <b>2006</b> , 104, 1497-1507	1.7	34
103	Structure and dynamics of spherical crystals characterized for the Thomson problem. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	97
102	Correlation effects and super-Arrhenius diffusion in binary Lennard-Jones mixtures. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	19
101	Equilibrium thermodynamics from basin-sampling. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 044102	3.9	82
100	Super-Arrhenius diffusion in an undercooled binary Lennard-Jones liquid results from a quantifiable correlation effect. <i>Physical Review Letters</i> , <b>2006</b> , 96, 057802	7.4	21

99	Potential energy and free energy landscapes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 20765-76	3.4	152
98	Energy landscapes: calculating pathways and rates. <i>International Reviews in Physical Chemistry</i> , <b>2006</b> , 25, 237-282	7	161
97	Graph transformation method for calculating waiting times in Markov chains. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 234110	3.9	44
96	The energy landscape as a unifying theme in molecular science. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2005</b> , 363, 357-75; discussion 375-7	3	135
95	How many dimensions are required to approximate the potential energy landscape of a model protein?. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 84714	3.9	49
94	Finding pathways between distant local minima. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 234903	3.9	130
93	Global optimization and folding pathways of selected alpha-helical proteins. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 234901	3.9	89
92	Pathways for dissociative ethane chemisorption on Pt{110} (1x) using density functional theory. <i>Chemical Physics Letters</i> , <b>2005</b> , 413, 289-293	2.5	28
91	Archetypal energy landscapes: dynamical diagnosis. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 024103	3.9	22
90	An ab initio study of tunneling splittings in the water trimer. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 044303	3.9	25
89	Diagnosing broken ergodicity using an energy fluctuation metric. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 134504	3.9	14
88	Pathways for dissociative methane chemisorption on Pt{110}(1x). <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	42
87	Energy Landscapes, Self-Assembly and Viruses. <i>Journal of Theoretical Medicine</i> , <b>2005</b> , 6, 107-110		1
86	Energy landscapes and properties of biomolecules. <i>Physical Biology</i> , <b>2005</b> , 2, S86-93	3	36
85	Comparison of kinetic Monte Carlo and molecular dynamics simulations of diffusion in a model glass former. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 8134-43	3.9	35
84	An ab initio study of tunneling splittings in the water dimer. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 5993-99	3.9	24
83	Analysis of cooperativity and localization for atomic rearrangements. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 6689-97	3.9	20
82	New results for phase transitions from catastrophe theory. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 11090-9	3.9	27

81	A doubly nudged elastic band method for finding transition states. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 2082-94	3.9	295
80	Folding of the GB1 hairpin peptide from discrete path sampling. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 1080-90	3.9	130
79	Some further applications of discrete path sampling to cluster isomerization. <i>Molecular Physics</i> , <b>2004</b> , 102, 891-908	1.7	163
78	Supercooled Lennard-Jones liquids and glasses: a kinetic Monte Carlo approach. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 336, 218-222	3.9	14
77	Energy Landscapes: Applications to Clusters, Biomolecules and Glasses <b>2004</b> ,		231
76	Exploring Energy Landscapes with Monte Carlo Methods. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	0	2
75	Comment on Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids[J. Chem. Phys. 116, 10297 (2002)]. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 5263-5264	3.9	17
74	Ab initio study of rearrangements between C60 fullerenes. <i>Chemical Physics Letters</i> , <b>2003</b> , 374, 125-131	2.5	44
73	The free energy landscape and dynamics of met-enkephalin. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 9947-9955	3.9	71
72	Free energy landscapes of model peptides and proteins. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3891-3897	3.9	136
71	The favored cluster structures of model glass formers. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 2792	3.9	72
70	Stationary points and dynamics in high-dimensional systems. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 12409-12416	3.9	166
69	Energy landscapes of model glasses. II. Results for constant pressure. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 4583-4593	3.9	66
68	Saddle points and dynamics of Lennard-Jones clusters, solids, and supercooled liquids. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 3777-3788	3.9	157
67	Theoretical study of rearrangements in water dimer and trimer. <i>Molecular Physics</i> , <b>2002</b> , 100, 2793-2806	1.7	62
66	Energy landscapes of model polyanines. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 1363-1376	3.9	78
65	Bifurcation tunneling dynamics in the water trimer. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 8823-8835	3.9	32
64	Discrete path sampling. <i>Molecular Physics</i> , <b>2002</b> , 100, 3285-3305	1.7	309

63	Transition states and rearrangement mechanisms from hybrid eigenvector-following and density functional theory.. <i>Chemical Physics Letters</i> , <b>2001</b> , 341, 185-194	2.5	136
62	Energy landscapes of some model glass formers. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	96
61	Crystals of binary Lennard-Jones solids. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	69
60	Characterization of anharmonicities on complex potential energy surfaces: Perturbation theory and simulation. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 9627-9636	3.9	56
59	Dynamics and thermodynamics of supercooled liquids and glasses from a model energy landscape. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	41
58	Quantum partition functions from classical distributions: Application to rare-gas clusters. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 7312-7329	3.9	114
57	Energy landscapes, global optimization and dynamics of the polyalanine Ac(ala)8NHMe. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 6443-6454	3.9	75
56	A microscopic basis for the global appearance of energy landscapes. <i>Science</i> , <b>2001</b> , 293, 2067-70	33.3	179
55	Statistical thermodynamics. Taking a walk on a landscape. <i>Science</i> , <b>2001</b> , 293, 612-3	33.3	143
54	Potential energy surfaces and coordinate dependence. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 3926-3927	3.9	30
53	Structural relaxation in Morse clusters: Energy landscapes. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 328-334	3.9	106
52	Evolution of the potential energy surface with size for Lennard-Jones clusters. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 8417-8428	3.9	206
51	Energy landscape of a model protein. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 6610-6616	3.9	107
50	Defect migration in crystalline silicon. <i>Physical Review B</i> , <b>1999</b> , 59, 3969-3980	3.3	336
49	Global optimization of clusters, crystals, and biomolecules. <i>Science</i> , <b>1999</b> , 285, 1368-72	33.3	881
48	Structural relaxation in atomic clusters: master equation dynamics. <i>Physical Review E</i> , <b>1999</b> , 60, 3701-18	2.4	74
47	The double-funnel energy landscape of the 38-atom Lennard-Jones cluster. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 6896-6906	3.9	249
46	The dynamics of structural transitions in sodium chloride clusters. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 11070-11079	3.9	39



45	Rearrangements of Water Dimer and Hexamer. <i>Springer Series in Cluster Physics</i> , <b>1999</b> , 86-110		15
44	Symmetry, near-symmetry and energetics. <i>Chemical Physics Letters</i> , <b>1998</b> , 285, 330-336	2.5	54
43	Global minima of water clusters (H <sub>2</sub> O) <sub>n</sub> , n≥1, described by an empirical potential. <i>Chemical Physics Letters</i> , <b>1998</b> , 286, 65-72	2.5	375
42	Archetypal energy landscapes. <i>Nature</i> , <b>1998</b> , 394, 758-760	50.4	469
41	Relaxation dynamics of C <sub>60</sub> . <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 6691-6700	3.9	48
40	Thermodynamics of Global Optimization. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1357-1360	7.4	193
39	Thermodynamics and the global optimization of Lennard-Jones clusters. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 8143-8153	3.9	163
38	Rearrangements and tunneling in water clusters. <i>Advances in Molecular Vibrations and Collision Dynamics</i> , <b>1998</b> , 365-396		10
37	Theoretical study of the water tetramer. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 7193-7207	3.9	78
36	Structural consequences of the range of the interatomic potential A menagerie of clusters. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 4233-4243		198
35	Global Optimization by Basin-Hopping and the Lowest Energy Structures of Lennard-Jones Clusters Containing up to 110 Atoms. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 5111-5116	2.8	2197
34	Surveying a potential energy surface by eigenvector-following. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1997</b> , 40, 194-197		78
33	Structural predictions for (C <sub>60</sub> ) <sub>N</sub> clusters with an all-atom potential. <i>Chemical Physics Letters</i> , <b>1997</b> , 269, 408-412	2.5	31
32	What can calculations employing empirical potentials teach us about bare transition-metal clusters?. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1996</b> , 611		33
31	The Structure and Stability of Atomic Liquids: From Clusters to Bulk. <i>Science</i> , <b>1996</b> , 271, 484-487	33.3	126
30	Structure, Dynamics, and Thermodynamics of Clusters: Tales from Topographic Potential Surfaces. <i>Science</i> , <b>1996</b> , 271, 925-929	33.3	131
29	From Topographies to Dynamics on Multidimensional Potential Energy Surfaces of Atomic Clusters. <i>Science</i> , <b>1996</b> , 271, 963-966	33.3	157
28	Rearrangements of the water trimer. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 2505		84

27	The structure of (C60)N clusters. <i>Chemical Physics Letters</i> , <b>1996</b> , 262, 167-174	2.5	51
26	Theoretical study of the water pentamer. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 6957-6971	3.9	114
25	On potential energy surfaces and relaxation to the global minimum. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 8428-8445	3.9	79
24	The effect of the range of the potential on the structure and stability of simple liquids: from clusters to bulk, from sodium to. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1996</b> , 29, 4859-4894	1.3	120
23	Magic numbers and growth sequences of small face-centered-cubic and decahedral clusters. <i>Chemical Physics Letters</i> , <b>1995</b> , 247, 339-347	2.5	14
22	An order parameter approach to coexistence in atomic clusters. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 9673-9688	3.9	74
21	Coexistence and phase separation in clusters: From the small to the not-so-small regime. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 3061-3070	3.9	81
20	Calculation of thermodynamic properties of small Lennard-Jones clusters incorporating anharmonicity. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 9659-9672	3.9	139
19	Reaction path zero-point energy from diffusion Monte Carlo calculations. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 1592-1596	3.9	14
18	The effect of the range of the potential on the structures of clusters. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 4234-4249	3.9	352
17	Free energy barriers to melting in atomic clusters. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 1460-1476	3.9	119
16	Clusters of C60 molecules. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1994</b> , 90, 1061		36
15	Coexistence in small inert gas clusters. <i>Molecular Physics</i> , <b>1993</b> , 78, 151-171	1.7	185
14	Theoretical study of water trimer. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 11180-11190	16.4	148
13	Locating stationary points for clusters in cartesian coordinates. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1993</b> , 89, 1305		83
12	Rearrangements of model (H2O)8 and (H2O)20 clusters. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 7257-7268	9	96
11	Structure and dynamics of model Ag and Pt clusters. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1993</b> , 26, 258-260		8
10	Chaos in small clusters of inert gas atoms. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 1376-1390	3.9	99

9	Structure and energetics of model symmetric and asymmetric decahedra. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1992</b> , 65, 1079-1096		11
8	Structure and energetics of model metal clusters. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 8520-8534	3.9	113
7	Basins of attraction for stationary points on a potential-energy surface. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1992</b> , 88, 653		68
6	When do gradient optimisations converge to saddle points?. <i>Chemical Physics Letters</i> , <b>1992</b> , 190, 447-452.	2.5	14
5	Local interpretation of chaotic dynamics in a many-body classical Hamiltonian system (Ar <sub>3</sub> ). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1991</b> , 24, L351-L357	1.3	53
4	How the range of pair interactions governs features of multidimensional potentials. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 8745-8756	3.9	120
3	Finding saddle points for clusters. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 7002-7010	3.9	72
2	Closed-shell structures and the building game. <i>Chemical Physics Letters</i> , <b>1987</b> , 141, 478-484	2.5	25
1	Theoretical studies of icosahedral C <sub>60</sub> and some related species. <i>Chemical Physics Letters</i> , <b>1986</b> , 128, 501-503	2.5	1603