

David J Wales

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314
papers

19,530
citations

71
h-index

132
g-index

325
ext. papers

21,112
ext. citations

5.7
avg, IF

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L-index

#	Paper	IF	Citations
314	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> , 1997 , 101, 5111-5116	2.8	2197
313	Theoretical studies of icosahedral C ₆₀ and some related species. <i>Chemical Physics Letters</i> , 1986 , 128, 501-503	2.5	1603
312	Global optimization of clusters, crystals, and biomolecules. <i>Science</i> , 1999 , 285, 1368-72	33.3	881
311	Archetypal energy landscapes. <i>Nature</i> , 1998 , 394, 758-760	50.4	469
310	Global minima of water clusters (H ₂ O) _n , n ≤ 1, described by an empirical potential. <i>Chemical Physics Letters</i> , 1998 , 286, 65-72	2.5	375
309	The effect of the range of the potential on the structures of clusters. <i>Journal of Chemical Physics</i> , 1995 , 103, 4234-4249	3.9	352
308	Defect migration in crystalline silicon. <i>Physical Review B</i> , 1999 , 59, 3969-3980	3.3	336
307	Discrete path sampling. <i>Molecular Physics</i> , 2002 , 100, 3285-3305	1.7	309
306	A doubly nudged elastic band method for finding transition states. <i>Journal of Chemical Physics</i> , 2004 , 120, 2082-94	3.9	295
305	The double-funnel energy landscape of the 38-atom Lennard-Jones cluster. <i>Journal of Chemical Physics</i> , 1999 , 110, 6896-6906	3.9	249
304	Energy Landscapes: Applications to Clusters, Biomolecules and Glasses 2004 ,		231
303	Prediction of Sepsis in the Intensive Care Unit With Minimal Electronic Health Record Data: A Machine Learning Approach. <i>JMIR Medical Informatics</i> , 2016 , 4, e28	3.6	224
302	Evolution of the potential energy surface with size for Lennard-Jones clusters. <i>Journal of Chemical Physics</i> , 1999 , 111, 8417-8428	3.9	206
301	Structural consequences of the range of the interatomic potential A menagerie of clusters. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 4233-4243		198
300	Thermodynamics of Global Optimization. <i>Physical Review Letters</i> , 1998 , 80, 1357-1360	7.4	193
299	Coexistence in small inert gas clusters. <i>Molecular Physics</i> , 1993 , 78, 151-171	1.7	185
298	Concerted hydrogen-bond breaking by quantum tunneling in the water hexamer prism. <i>Science</i> , 2016 , 351, 1310-3	33.3	182

297	A microscopic basis for the global appearance of energy landscapes. <i>Science</i> , 2001 , 293, 2067-70	33.3	179
296	Virulence-associated substitution D222G in the hemagglutinin of 2009 pandemic influenza A(H1N1) virus affects receptor binding. <i>Journal of Virology</i> , 2010 , 84, 11802-13	6.6	171
295	Some further applications of discrete path sampling to cluster isomerization. <i>Molecular Physics</i> , 2004 , 102, 891-908	1.7	163
294	Thermodynamics and the global optimization of Lennard-Jones clusters. <i>Journal of Chemical Physics</i> , 1998 , 109, 8143-8153	3.9	163
293	Energy landscapes: calculating pathways and rates. <i>International Reviews in Physical Chemistry</i> , 2006 , 25, 237-282	7	161
292	Saddle points and dynamics of Lennard-Jones clusters, solids, and supercooled liquids. <i>Journal of Chemical Physics</i> , 2002 , 116, 3777-3788	3.9	157
291	From Topographies to Dynamics on Multidimensional Potential Energy Surfaces of Atomic Clusters. <i>Science</i> , 1996 , 271, 963-966	33.3	157
290	Potential energy and free energy landscapes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20765-76	3.4	152
289	Theoretical study of water trimer. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11180-11190	16.4	148
288	Statistical thermodynamics. Taking a walk on a landscape. <i>Science</i> , 2001 , 293, 612-3	33.3	143
287	Thermodynamics and kinetics of aggregation for the GNNQQNY peptide. <i>Journal of the American Chemical Society</i> , 2007 , 129, 16005-14	16.4	139
286	Calculation of thermodynamic properties of small Lennard-Jones clusters incorporating anharmonicity. <i>Journal of Chemical Physics</i> , 1995 , 102, 9659-9672	3.9	139
285	Free energy landscapes of model peptides and proteins. <i>Journal of Chemical Physics</i> , 2003 , 118, 3891-3897	3.9	136
284	Transition states and rearrangement mechanisms from hybrid eigenvector-following and density functional theory.. <i>Chemical Physics Letters</i> , 2001 , 341, 185-194	2.5	136
283	The energy landscape as a unifying theme in molecular science. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005 , 363, 357-75; discussion 375-7	3	135
282	Structure, Dynamics, and Thermodynamics of Clusters: Tales from Topographic Potential Surfaces. <i>Science</i> , 1996 , 271, 925-929	33.3	131
281	Finding pathways between distant local minima. <i>Journal of Chemical Physics</i> , 2005 , 122, 234903	3.9	130
280	Folding of the GB1 hairpin peptide from discrete path sampling. <i>Journal of Chemical Physics</i> , 2004 , 121, 1080-90	3.9	130

- 279 Stationary points and dynamics in high-dimensional systems. *Journal of Chemical Physics*, **2003**, 119, 12409-12416
- 278 The Structure and Stability of Atomic Liquids: From Clusters to Bulk. *Science*, **1996**, 271, 484-487 33.3 126
- 277 Energy Landscapes: From Clusters to Biomolecules. *Advances in Chemical Physics*, **2007**, 1-111 124
- 276 The effect of the range of the potential on the structure and stability of simple liquids: from clusters to bulk, from sodium to. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, 4859-4894 1.3 120
- 275 How the range of pair interactions governs features of multidimensional potentials. *Journal of Chemical Physics*, **1990**, 93, 8745-8756 3.9 120
- 274 Free energy barriers to melting in atomic clusters. *Journal of Chemical Physics*, **1994**, 101, 1460-1476 3.9 119
- 273 Transmembrane structures for Alzheimer's A β (1-42) oligomers. *Journal of the American Chemical Society*, **2010**, 132, 13300-12 16.4 116
- 272 Energy landscapes: some new horizons. *Current Opinion in Structural Biology*, **2010**, 20, 3-10 8.1 116
- 271 Quantum partition functions from classical distributions: Application to rare-gas clusters. *Journal of Chemical Physics*, **2001**, 114, 7312-7329 3.9 114
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- 269 Structure and energetics of model metal clusters. *Journal of Chemical Physics*, **1992**, 96, 8520-8534 3.9 113
- 268 Energy landscape of a model protein. *Journal of Chemical Physics*, **1999**, 111, 6610-6616 3.9 107
- 267 Structural relaxation in Morse clusters: Energy landscapes. *Journal of Chemical Physics*, **1999**, 110, 328-334 3.9 106
- 266 Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. *Journal of Membrane Biology*, **2015**, 248, 611-40 2.3 101
- 265 Free energy surfaces from an extended harmonic superposition approach and kinetics for alanine dipeptide. *Chemical Physics Letters*, **2008**, 466, 105-115 2.5 100
- 264 Chaos in small clusters of inert gas atoms. *Journal of Chemical Physics*, **1992**, 96, 1376-1390 3.9 99
- 263 Structure and dynamics of spherical crystals characterized for the Thomson problem. *Physical Review B*, **2006**, 74, 3.3 97
- 262 Energy landscapes of some model glass formers. *Physical Review B*, **2001**, 64, 3.3 96

- 261 Rearrangements of model (H₂O)₈ and (H₂O)₂₀ clusters. *Journal of Chemical Physics*, **1993**, 98, 7257-7268, 9 96
- 260 Global optimization and folding pathways of selected alpha-helical proteins. *Journal of Chemical Physics*, **2005**, 123, 234901 3.9 89
- 259 Folding pathways and rates for the three-stranded beta-sheet peptide Beta3s using discrete path sampling. *Journal of Physical Chemistry B*, **2008**, 112, 8760-9 3.4 86
- 258 Rearrangements of the water trimer. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 2505 84
- 257 Locating stationary points for clusters in cartesian coordinates. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 1305 83
- 256 Equilibrium thermodynamics from basin-sampling. *Journal of Chemical Physics*, **2006**, 124, 044102 3.9 82
- 255 Coexistence and phase separation in clusters: From the small to the not-so-small regime. *Journal of Chemical Physics*, **1995**, 103, 3061-3070 3.9 81
- 254 On potential energy surfaces and relaxation to the global minimum. *Journal of Chemical Physics*, **1996**, 105, 8428-8445 3.9 79
- 253 Theoretical study of the water tetramer. *Journal of Chemical Physics*, **1997**, 106, 7193-7207 3.9 78
- 252 Surveying a potential energy surface by eigenvector-following. *Zeitschrift Für Physik D-Atoms Molecules and Clusters*, **1997**, 40, 194-197 78
- 251 Energy landscapes of model polyanilines. *Journal of Chemical Physics*, **2002**, 117, 1363-1376 3.9 78
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- 249 Structural relaxation in atomic clusters: master equation dynamics. *Physical Review E*, **1999**, 60, 3701-18 2.4 74
- 248 An order parameter approach to coexistence in atomic clusters. *Journal of Chemical Physics*, **1995**, 102, 9673-9688 3.9 74
- 247 The favored cluster structures of model glass formers. *Journal of Chemical Physics*, **2003**, 118, 2792 3.9 72
- 246 Finding saddle points for clusters. *Journal of Chemical Physics*, **1989**, 91, 7002-7010 3.9 72
- 245 Energy landscapes for diffusion: analysis of cage-breaking processes. *Journal of Chemical Physics*, **2008**, 129, 164507 3.9 71
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242	Crystals of binary Lennard-Jones solids. <i>Physical Review B</i> , 2001 , 64,	3.3	69
241	Basins of attraction for stationary points on a potential-energy surface. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 653		68
240	Perspective: Insight into reaction coordinates and dynamics from the potential energy landscape. <i>Journal of Chemical Physics</i> , 2015 , 142, 130901	3.9	66
239	Energy landscapes of model glasses. II. Results for constant pressure. <i>Journal of Chemical Physics</i> , 2003 , 118, 4583-4593	3.9	66
238	Instanton calculations of tunneling splittings for water dimer and trimer. <i>Journal of Chemical Physics</i> , 2011 , 135, 124109	3.9	65
237	Exploring Energy Landscapes. <i>Annual Review of Physical Chemistry</i> , 2018 , 69, 401-425	15.7	62
236	Theoretical study of rearrangements in water dimer and trimer. <i>Molecular Physics</i> , 2002 , 100, 2793-2806	1.7	62
235	Defect motifs for spherical topologies. <i>Physical Review B</i> , 2009 , 79,	3.3	59
234	Structure and torsional dynamics of the water octamer from THz laser spectroscopy near 215 fm. <i>Science</i> , 2016 , 352, 1194-7	33.3	58
233	Decoding the energy landscape: extracting structure, dynamics and thermodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 2877-99	3	58
232	Energy landscapes of clusters bound by short-ranged potentials. <i>ChemPhysChem</i> , 2010 , 11, 2491-4	3.2	58
231	Energy landscapes for machine learning. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12585-12603	3.6	57
230	Chemistry. Pinning down the water hexamer. <i>Science</i> , 2012 , 336, 814-5	33.3	57
229	Characterization of anharmonicities on complex potential energy surfaces: Perturbation theory and simulation. <i>Journal of Chemical Physics</i> , 2001 , 115, 9627-9636	3.9	56
228	Intrinsically disordered energy landscapes. <i>Scientific Reports</i> , 2015 , 5, 10386	4.9	54
227	Symmetry, near-symmetry and energetics. <i>Chemical Physics Letters</i> , 1998 , 285, 330-336	2.5	54
226	Local interpretation of chaotic dynamics in a many-body classical Hamiltonian system (Ar ₃). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991 , 24, L351-L357	1.3	53

225	Symmetrisation schemes for global optimisation of atomic clusters. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3965-76	3.6	51
224	Surveying a complex potential energy landscape: Overcoming broken ergodicity using basin-sampling. <i>Chemical Physics Letters</i> , 2013 , 584, 1-9	2.5	51
223	The structure of (C60) _N clusters. <i>Chemical Physics Letters</i> , 1996 , 262, 167-174	2.5	51
222	Prediction of early unplanned intensive care unit readmission in a UK tertiary care hospital: a cross-sectional machine learning approach. <i>BMJ Open</i> , 2017 , 7, e017199	3	50
221	Energy landscapes of colloidal clusters: thermodynamics and rearrangement mechanisms. <i>Nanoscale</i> , 2012 , 4, 1085-100	7.7	50
220	How many dimensions are required to approximate the potential energy landscape of a model protein?. <i>Journal of Chemical Physics</i> , 2005 , 122, 84714	3.9	49
219	Exploring biomolecular energy landscapes. <i>Chemical Communications</i> , 2017 , 53, 6974-6988	5.8	48
218	Emergent complexity from simple anisotropic building blocks: shells, tubes, and spirals. <i>ACS Nano</i> , 2010 , 4, 219-28	16.7	48
217	Simulations of rigid bodies in an angle-axis framework. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1970-6	3.6	48
216	Relaxation dynamics of C60. <i>Journal of Chemical Physics</i> , 1998 , 109, 6691-6700	3.9	48
215	Turning intractable counting into sampling: Computing the configurational entropy of three-dimensional jammed packings. <i>Physical Review E</i> , 2016 , 93, 012906	2.4	45
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213	Investigation of terahertz vibration-rotation tunneling spectra for the water octamer. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 6960-6	2.8	44
212	Connectivity in the potential energy landscape for binary Lennard-Jones systems. <i>Journal of Chemical Physics</i> , 2009 , 130, 194508	3.9	44
211	Graph transformation method for calculating waiting times in Markov chains. <i>Journal of Chemical Physics</i> , 2006 , 124, 234110	3.9	44
210	Ab initio study of rearrangements between C60 fullerenes. <i>Chemical Physics Letters</i> , 2003 , 374, 125-131	2.5	44
209	Decoupled Associative and Dissociative Processes in Strong yet Highly Dynamic Host-Guest Complexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12985-12993	16.4	43
208	Pathways for dissociative methane chemisorption on Pt{110}(1×1). <i>Physical Review B</i> , 2005 , 71,	3.3	42

207	Mapping Surface Hydrophobicity of β -Synuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018 , 18, 7494-7501	11.5	42
206	Dynamics and thermodynamics of supercooled liquids and glasses from a model energy landscape. <i>Physical Review B</i> , 2001 , 63,	3.3	41
205	Global minima of transition metal clusters described by Finnis-Binclair potentials: A comparison with semi-empirical molecular orbital theory. <i>Philosophical Magazine</i> , 2009 , 89, 3311-3332	1.6	39
204	The dynamics of structural transitions in sodium chloride clusters. <i>Journal of Chemical Physics</i> , 1999 , 111, 11070-11079	3.9	39
203	Benchmarks for Characterization of Minima, Transition States, and Pathways in Atomic, Molecular, and Condensed Matter Systems. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 5476-82	6.4	38
202	Comparison of double-ended transition state search methods. <i>Journal of Chemical Physics</i> , 2007 , 127, 134102	3.9	38
201	Energy landscapes, folding mechanisms, and kinetics of RNA tetraloop hairpins. <i>Journal of the American Chemical Society</i> , 2014 , 136, 18052-61	16.4	37
200	The energy landscape, folding pathways and the kinetics of a knotted protein. <i>PLoS Computational Biology</i> , 2010 , 6, e1000835	5	37
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194	Energy Landscapes for Proteins: From Single Funnels to Multifunctional Systems. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800175	3.5	35
193	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> , 2016 , 12, 6077-6097	6.4	35
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190	Comparison of kinetic Monte Carlo and molecular dynamics simulations of diffusion in a model glass former. <i>Journal of Chemical Physics</i> , 2004 , 120, 8134-43	3.9	35

189	Visualizing basins of attraction for different minimization algorithms. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12717-23	3.4	34
188	Kinetic analysis of discrete path sampling stationary point databases. <i>Molecular Physics</i> , 2006 , 104, 1497-1507	3.4	34
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181	Temperature Controls Guest Uptake and Release from ZnL Tetrahedra. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14534-14538	16.4	29
180	Mode-specificity and transition state-specific energy redistribution in the chemisorption of CH ₄ on Ni{100}. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15879-87	3.6	29
179	Evolution of the potential energy landscape with static pulling force for two model proteins. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8394-411	3.4	29
178	Energy landscape and global optimization for a frustrated model protein. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11525-9	3.4	29
177	Energy landscapes, structural topologies and rearrangement mechanisms in clusters of dipolar particles. <i>Soft Matter</i> , 2013 , 9, 5407	3.6	28
176	Communication: a new paradigm for structure prediction in multicomponent systems. <i>Journal of Chemical Physics</i> , 2013 , 139, 221101	3.9	28
175	Pathways for dissociative ethane chemisorption on Pt{110} (1 × 1) using density functional theory. <i>Chemical Physics Letters</i> , 2005 , 413, 289-293	2.5	28
174	Structures and Energy Landscapes of Hydrated Sulfate Clusters. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2377-84	6.4	27
173	Energy Landscape and Pathways for Transitions between Watson-Crick and Hoogsteen Base Pairing in DNA. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 229-241	6.4	27
172	Quasi-Continuous Interpolation Scheme for Pathways between Distant Configurations. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 5020-34	6.4	27

171	New results for phase transitions from catastrophe theory. <i>Journal of Chemical Physics</i> , 2004 , 120, 11090-9	3.9	27
170	Symmetrization of the AMBER and CHARMM force fields. <i>Journal of Computational Chemistry</i> , 2010 , 31, 1402-9	3.5	26
169	Hydroxyproline Ring Pucker Causes Frustration of Helix Parameters in the Collagen Triple Helix. <i>Scientific Reports</i> , 2015 , 5, 12556	4.9	25
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166	Structure, thermodynamics, and rearrangement mechanisms in gold clusters-insights from the energy landscapes framework. <i>Nanoscale</i> , 2018 , 10, 2004-2016	7.7	25
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163	Proline provides site-specific flexibility for in vivo collagen. <i>Scientific Reports</i> , 2018 , 8, 13809	4.9	24
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161	Dynamics of a molecular glass former: Energy landscapes for diffusion in ortho-terphenyl. <i>Journal of Chemical Physics</i> , 2016 , 145, 024505	3.9	23
160	Energy Landscapes for the Aggregation of A β . <i>Journal of the American Chemical Society</i> , 2018 , 140, 4018-4027	4.7	22
159	Energetically favoured defects in dense packings of particles on spherical surfaces. <i>Soft Matter</i> , 2016 , 12, 5708-17	3.6	22
158	Multifunctional energy landscape for a DNA G-quadruplex: An evolved molecular switch. <i>Journal of Chemical Physics</i> , 2017 , 147, 152715	3.9	22
157	Archetypal energy landscapes: dynamical diagnosis. <i>Journal of Chemical Physics</i> , 2005 , 122, 024103	3.9	22
156	Decoding heat capacity features from the energy landscape. <i>Physical Review E</i> , 2017 , 95, 030105	2.4	21
155	Grand and Semigrand Canonical Basin-Hopping. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 902-9	6.4	21
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153	Quasi-combinatorial energy landscapes for nanoalloy structure optimisation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28331-8	3.6	20
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151	Structure prediction for multicomponent materials using biminima. <i>Physical Review Letters</i> , 2014 , 113, 156102	7.4	20
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149	Energy landscapes for a machine learning application to series data. <i>Journal of Chemical Physics</i> , 2016 , 144, 124119	3.9	19
148	A stress tensor eigenvector projection space for the (H ₂ O) ₅ potential energy surface. <i>Chemical Physics Letters</i> , 2017 , 667, 25-31	2.5	19
147	Communication: Analysing kinetic transition networks for rare events. <i>Journal of Chemical Physics</i> , 2014 , 141, 041104	3.9	19
146	Energy landscapes and global thermodynamics for alanine peptides. <i>Journal of Chemical Physics</i> , 2013 , 139, 121909	3.9	19
145	Mechanisms for H ₂ Reduction on the PdO{101} Surface and the Pd{100}-(B B)R27O Surface Oxide. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16757-16765	3.8	19
144	Correlation effects and super-Arrhenius diffusion in binary Lennard-Jones mixtures. <i>Physical Review B</i> , 2006 , 74,	3.3	19
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142	Free energy basin-hopping. <i>Chemical Physics Letters</i> , 2015 , 625, 1-4	2.5	18
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140	Superposition Enhanced Nested Sampling. <i>Physical Review X</i> , 2014 , 4,	9.1	18
139	Bond-selective energy redistribution in the chemisorption of CH ₃ D and CD ₃ H on Pt{110}-(1x1): A first-principles molecular dynamics study. <i>Computational and Theoretical Chemistry</i> , 2012 , 990, 144-151	2	18
138	Coarse-graining the structure of polycyclic aromatic hydrocarbons clusters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13736-40	3.6	18
137	Improving Computational Predictions of Single-Stranded RNA Tetramers with Revised Torsional Parameters for the Amber Force Field. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 2989-2999	3.4	17
136	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> , 2017 , 146, 124103	3.9	17

135	Exploring Energy Landscapes: Metrics, Pathways, and Normal-Mode Analysis for Rigid-Body Molecules. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4026-34	6.4	17
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132	A conformational factorisation approach for estimating the binding free energies of macromolecules. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2842-53	3.6	16
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