

Michele Parrinello

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/741704/publications.pdf>

Version: 2024-02-01

449
papers

102,369
citations

668

122
h-index

220

308
g-index

466
all docs

466
docs citations

466
times ranked

50609
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymorphic transitions in single crystals: A new molecular dynamics method. <i>Journal of Applied Physics</i> , 1981, 52, 7182-7190.	2.5	14,777
2	Canonical sampling through velocity rescaling. <i>Journal of Chemical Physics</i> , 2007, 126, 014101.	3.0	11,867
3	Unified Approach for Molecular Dynamics and Density-Functional Theory. <i>Physical Review Letters</i> , 1985, 55, 2471-2474.	7.8	9,715
4	Escaping free-energy minima. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12562-12566.	7.1	4,527
5	Quickstep: Fast and accurate density functional calculations using a mixed Gaussian and plane waves approach. <i>Computer Physics Communications</i> , 2005, 167, 103-128.	7.5	4,200
6	Crystal Structure and Pair Potentials: A Molecular-Dynamics Study. <i>Physical Review Letters</i> , 1980, 45, 1196-1199.	7.8	2,873
7	Generalized Neural-Network Representation of High-Dimensional Potential-Energy Surfaces. <i>Physical Review Letters</i> , 2007, 98, 146401.	7.8	2,677
8	Well-Tempered Metadynamics: A Smoothly Converging and Tunable Free-Energy Method. <i>Physical Review Letters</i> , 2008, 100, 020603.	7.8	2,201
9	The nature of the hydrated excess proton in water. <i>Nature</i> , 1999, 397, 601-604.	27.8	1,587
10	PLUMED: A portable plugin for free-energy calculations with molecular dynamics. <i>Computer Physics Communications</i> , 2009, 180, 1961-1972.	7.5	1,448
11	Metadynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 826-843.	14.6	971
12	A hybrid Gaussian and plane wave density functional scheme. <i>Molecular Physics</i> , 1997, 92, 477-487.	1.7	881
13	The nature and transport mechanism of hydrated hydroxide ions in aqueous solution. <i>Nature</i> , 2002, 417, 925-929.	27.8	858
14	Efficient Exploration of Reactive Potential Energy Surfaces Using Car-Parrinello Molecular Dynamics. <i>Physical Review Letters</i> , 2003, 90, 238302.	7.8	719
15	On the Quantum Nature of the Shared Proton in Hydrogen Bonds. <i>Science</i> , 1997, 275, 817-820.	12.6	679
16	Autoionization in Liquid Water. <i>Science</i> , 2001, 291, 2121-2124.	12.6	672
17	Ab initio molecular dynamics simulation of liquid water: Comparison of three gradient-corrected density functionals. <i>Journal of Chemical Physics</i> , 1996, 105, 1142-1152.	3.0	597
18	Study of an F center in molten KCl. <i>Journal of Chemical Physics</i> , 1984, 80, 860-867.	3.0	580

#	ARTICLE	IF	CITATIONS
19	Water Molecule Dipole in the Gas and in the Liquid Phase. <i>Physical Review Letters</i> , 1999, 82, 3308-3311.	7.8	563
20	Structural, electronic, and bonding properties of liquid water from first principles. <i>Journal of Chemical Physics</i> , 1999, 111, 3572-3580.	3.0	547
21	Ab Initio Molecular Dynamics Simulation of the Solvation and Transport of H ₃ O ⁺ and OH ⁻ Ions in Water. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5749-5752.	2.9	545
22	The Gaussian and augmented-plane-wave density functional method for ab initio molecular dynamics simulations. <i>Theoretical Chemistry Accounts</i> , 1999, 103, 124-140.	1.4	513
23	Efficient Reconstruction of Complex Free Energy Landscapes by Multiple Walkers Metadynamics. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3533-3539.	2.6	511
24	Enhancing Important Fluctuations: Rare Events and Metadynamics from a Conceptual Viewpoint. <i>Annual Review of Physical Chemistry</i> , 2016, 67, 159-184.	10.8	497
25	From A to B in free energy space. <i>Journal of Chemical Physics</i> , 2007, 126, 054103.	3.0	476
26	Free-Energy Landscape for \hat{I}^2 Hairpin Folding from Combined Parallel Tempering and Metadynamics. <i>Journal of the American Chemical Society</i> , 2006, 128, 13435-13441.	13.7	458
27	Assessing the Accuracy of Metadynamics. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6714-6721.	2.6	446
28	The influence of temperature and density functional models in ab initio molecular dynamics simulation of liquid water. <i>Journal of Chemical Physics</i> , 2005, 122, 014515.	3.0	444
29	Ab initio path integral molecular dynamics: Basic ideas. <i>Journal of Chemical Physics</i> , 1996, 104, 4077-4082.	3.0	414
30	A Time-Independent Free Energy Estimator for Metadynamics. <i>Journal of Physical Chemistry B</i> , 2015, 119, 736-742.	2.6	399
31	Tunnelling and zero-point motion in high-pressure ice. <i>Nature</i> , 1998, 392, 258-261.	27.8	389
32	Effective force fields for condensed phase systems from ab initio molecular dynamics simulation: A new method for force-matching. <i>Journal of Chemical Physics</i> , 2004, 120, 10896-10913.	3.0	383
33	Structural, Dynamical, and Electronic Properties of Amorphous Silicon: An ab initio Molecular-Dynamics Study. <i>Physical Review Letters</i> , 1988, 60, 204-207.	7.8	369
34	From Metadynamics to Dynamics. <i>Physical Review Letters</i> , 2013, 111, 230602.	7.8	369
35	Maximally-localized Wannier functions for disordered systems: Application to amorphous silicon. <i>Solid State Communications</i> , 1998, 107, 7-11.	1.9	363
36	Equilibrium Geometries and Electronic Structure of Iron ²⁺ Porphyrin Complexes: A Density Functional Study. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8914-8925.	2.5	362

#	ARTICLE	IF	CITATIONS
37	Equilibrium Free Energies from Nonequilibrium Metadynamics. <i>Physical Review Letters</i> , 2006, 96, 090601.	7.8	355
38	Efficient and Accurate Car-Parrinello-like Approach to Born-Oppenheimer Molecular Dynamics. <i>Physical Review Letters</i> , 2007, 98, 066401.	7.8	351
39	Funnel metadynamics as accurate binding free-energy method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6358-6363.	7.1	337
40	Liquid Water from First Principles: An Investigation of Different Sampling Approaches. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12990-12998.	2.6	327
41	Ab initio infrared spectrum of liquid water. <i>Chemical Physics Letters</i> , 1997, 277, 478-482.	2.6	325
42	Proton transfer through the water gossamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13723-13728.	7.1	320
43	Large scale electronic structure calculations. <i>Physical Review Letters</i> , 1992, 69, 3547-3550.	7.8	317
44	Kinetics of protein-ligand unbinding: Predicting pathways, rates, and rate-limiting steps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E386-91.	7.1	311
45	Efficient and general algorithms for path integral Car-Parrinello molecular dynamics. <i>Journal of Chemical Physics</i> , 1996, 104, 5579-5588.	3.0	303
46	Structural and Electronic Properties of Amorphous Carbon. <i>Physical Review Letters</i> , 1989, 62, 555-558.	7.8	301
47	Isothermal-isobaric molecular dynamics using stochastic velocity rescaling. <i>Journal of Chemical Physics</i> , 2009, 130, 074101.	3.0	297
48	Reconstructing the equilibrium Boltzmann distribution from well-tempered metadynamics. <i>Journal of Computational Chemistry</i> , 2009, 30, 1615-1621.	3.3	297
49	The Role and Perspective of Ab Initio Molecular Dynamics in the Study of Biological Systems. <i>Accounts of Chemical Research</i> , 2002, 35, 455-464.	15.6	287
50	Hydrogen Bonding in Water. <i>Physical Review Letters</i> , 2003, 91, 215503.	7.8	284
51	Dispersion corrections to density functionals for water aromatic interactions. <i>Journal of Chemical Physics</i> , 2004, 120, 2693-2699.	3.0	283
52	Equilibrium Structures and Finite Temperature Properties of Silicon Microclusters from ab initio Molecular-Dynamics Calculations. <i>Physical Review Letters</i> , 1988, 60, 271-274.	7.8	279
53	Nucleation mechanism for the direct graphite-to-diamond phase transition. <i>Nature Materials</i> , 2011, 10, 693-697.	27.5	277
54	General and efficient algorithms for obtaining maximally localized Wannier functions. <i>Physical Review B</i> , 2000, 61, 10040-10048.	3.2	272

#	ARTICLE	IF	CITATIONS
55	Flexible Docking in Solution Using Metadynamics. <i>Journal of the American Chemical Society</i> , 2005, 127, 2600-2607.	13.7	266
56	Simplifying the representation of complex free-energy landscapes using sketch-map. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13023-13028.	7.1	261
57	Efficient stochastic thermostating of path integral molecular dynamics. <i>Journal of Chemical Physics</i> , 2010, 133, 124104.	3.0	259
58	Ab initio calculation of properties of carbon in the amorphous and liquid states. <i>Physical Review B</i> , 1990, 42, 7470-7482.	3.2	258
59	Accurate sampling using Langevin dynamics. <i>Physical Review E</i> , 2007, 75, 056707.	2.1	257
60	Molecular dynamics in low-spin excited states. <i>Journal of Chemical Physics</i> , 1998, 108, 4060-4069.	3.0	249
61	Well-Tempered Metadynamics Converges Asymptotically. <i>Physical Review Letters</i> , 2014, 112, 240602.	7.8	248
62	A Recipe for the Computation of the Free Energy Barrier and the Lowest Free Energy Path of Concerted Reactions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6676-6687.	2.6	243
63	First Principles Molecular Dynamics Study of Ziegler-Natta Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 1998, 120, 2746-2752.	13.7	229
64	Ab Initio Molecular Dynamics with Excited Electrons. <i>Physical Review Letters</i> , 1994, 73, 2599-2602.	7.8	227
65	Freezing of a Lennard-Jones Fluid: From Nucleation to Spinodal Regime. <i>Physical Review Letters</i> , 2006, 97, 105701.	7.8	227
66	Enhanced Sampling in the Well-Tempered Ensemble. <i>Physical Review Letters</i> , 2010, 104, 190601.	7.8	225
67	An Efficient Real Space Multigrid QM/MM Electrostatic Coupling. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 1176-1184.	5.3	224
68	Metadynamics with Adaptive Gaussians. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2247-2254.	5.3	220
69	Anisotropy of Earth's $\text{D}\epsilon^3$ layer and stacking faults in the MgSiO_3 post-perovskite phase. <i>Nature</i> , 2005, 438, 1142-1144.	27.8	219
70	Ab initio path-integral molecular dynamics. <i>European Physical Journal B</i> , 1994, 95, 143-144.	1.5	216
71	Ab initio Molecular Dynamics Simulation of Laser Melting of Silicon. <i>Physical Review Letters</i> , 1996, 77, 3149-3152.	7.8	216
72	A New ab-Initio Approach for NMR Chemical Shifts in Periodic Systems. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1951-1958.	2.5	207

#	ARTICLE	IF	CITATIONS
73	Metadynamics Simulations of the High-Pressure Phases of Silicon Employing a High-Dimensional Neural Network Potential. <i>Physical Review Letters</i> , 2008, 100, 185501.	7.8	207
74	Variational Approach to Enhanced Sampling and Free Energy Calculations. <i>Physical Review Letters</i> , 2014, 113, 090601.	7.8	206
75	Nuclear quantum effects and hydrogen bond fluctuations in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15591-15596.	7.1	204
76	Colored-Noise Thermostats À la Carte. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1170-1180.	5.3	199
77	First Principles Study of Propene Polymerization in Ziegler-Natta Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2000, 122, 501-509.	13.7	198
78	Crystal structure transformations in SiO ₂ from classical and ab initio metadynamics. <i>Nature Materials</i> , 2006, 5, 623-626.	27.5	198
79	The Conformational Free Energy Landscape of β -D-Glucopyranose. Implications for Substrate Preactivation in β -Glucoside Hydrolases. <i>Journal of the American Chemical Society</i> , 2007, 129, 10686-10693.	13.7	196
80	Structural quantum effects and three-centre two-electron bonding in CH ₅ . <i>Nature</i> , 1995, 375, 216-218.	27.8	190
81	Water structure as a function of temperature from X-ray scattering experiments and ab initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1981.	2.8	189
82	Static and Dynamical Properties of Liquid Water from First Principles by a Novel Car-Parrinello-like Approach. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 235-241.	5.3	189
83	Nuclear Quantum Effects in Solids Using a Colored-Noise Thermostat. <i>Physical Review Letters</i> , 2009, 103, 030603.	7.8	188
84	All-electron ab-initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2105-2112.	2.8	187
85	Molecular basis of cyclooxygenase enzymes (COXs) selective inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5411-5416.	7.1	187
86	Unbinding Kinetics of a p38 MAP Kinase Type II Inhibitor from Metadynamics Simulations. <i>Journal of the American Chemical Society</i> , 2017, 139, 4780-4788.	13.7	187
87	Generalized variational density functional perturbation theory. <i>Journal of Chemical Physics</i> , 2000, 113, 7102-7109.	3.0	183
88	Uncovering Molecular Details of Urea Crystal Growth in the Presence of Additives. <i>Journal of the American Chemical Society</i> , 2012, 134, 17221-17233.	13.7	182
89	Ab initio molecular-dynamics simulation of K ⁺ solvation in water. <i>Journal of Chemical Physics</i> , 1999, 111, 1587-1591.	3.0	178
90	Integrating the Car-Parrinello equations. I. Basic integration techniques. <i>Journal of Chemical Physics</i> , 1994, 101, 1302-1315.	3.0	175

#	ARTICLE	IF	CITATIONS
91	Assessing the Reliability of the Dynamics Reconstructed from Metadynamics. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1420-1425.	5.3	175
92	Impurity states in doped fullerenes: C59B and C59N. <i>Chemical Physics Letters</i> , 1992, 190, 159-162.	2.6	171
93	From silicon to RNA: The coming of age of ab initio molecular dynamics. <i>Solid State Communications</i> , 1997, 102, 107-120.	1.9	171
94	Hydrolysis at stepped MgO surfaces. <i>Physical Review Letters</i> , 1994, 73, 504-507.	7.8	170
95	Langevin Equation with Colored Noise for Constant-Temperature Molecular Dynamics Simulations. <i>Physical Review Letters</i> , 2009, 102, 020601.	7.8	170
96	Pulling Monatomic Gold Wires with Single Molecules: An Ab Initio Simulation. <i>Physical Review Letters</i> , 2002, 89, 186402.	7.8	169
97	Signature of Tetrahedral Ge in the Raman Spectrum of Amorphous Phase-Change Materials. <i>Physical Review Letters</i> , 2010, 104, 085503.	7.8	164
98	Ab initio molecular dynamics of ion solvation. The case of Be ²⁺ in water. <i>Chemical Physics Letters</i> , 1997, 273, 360-366.	2.6	159
99	Electronic Structure of Wet DNA. <i>Physical Review Letters</i> , 2002, 89, 108102.	7.8	157
100	First-Principles Molecular-Dynamics Simulations of a Hydrated Electron in Normal and Supercritical Water. <i>Physical Review Letters</i> , 2003, 90, 226403.	7.8	156
101	On the recombination of hydronium and hydroxide ions in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20410-20415.	7.1	154
102	An Efficient Linear-Scaling Electrostatic Coupling for Treating Periodic Boundary Conditions in QM/MM Simulations. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 1370-1378.	5.3	152
103	β -gallium: A metallic molecular crystal. <i>Physical Review B</i> , 1991, 43, 14277-14280.	3.2	151
104	Hydrogen Bonding and Dipole Moment of Water at Supercritical Conditions: A First-Principles Molecular Dynamics Study. <i>Physical Review Letters</i> , 2000, 85, 3245-3248.	7.8	151
105	Energy Conservation in Adaptive Hybrid Atomistic/Coarse-Grain Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1100-1105.	5.3	151
106	Reconstructing the Density of States by History-Dependent Metadynamics. <i>Physical Review Letters</i> , 2004, 92, 170601.	7.8	149
107	Surface solvation of halogen anions in water clusters: An ab initio molecular dynamics study of the Cl ⁻ (H ₂ O) ₆ complex. <i>Journal of Chemical Physics</i> , 2001, 114, 7036-7044.	3.0	148
108	Electronic structure optimization in plane-wave-based density functional calculations by direct inversion in the iterative subspace. <i>Computational Materials Science</i> , 1994, 2, 244-248.	3.0	147

#	ARTICLE	IF	CITATIONS
109	Using sketch-map coordinates to analyze and bias molecular dynamics simulations. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5196-5201.	7.1	147
110	Molecular-dynamics simulations of urea nucleation from aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6-14.	7.1	142
111	Accelerating the convergence of path integral dynamics with a generalized Langevin equation. Journal of Chemical Physics, 2011, 134, 084104.	3.0	139
112	Exploring Polymorphism: The Case of Benzene. Angewandte Chemie - International Edition, 2005, 44, 3769-3773.	13.8	138
113	Interaction of short-chain alkane thiols and thiolates with small gold clusters: Adsorption structures and energetics. Journal of Chemical Physics, 2001, 115, 4776-4786.	3.0	136
114	Action-Derived Molecular Dynamics in the Study of Rare Events. Physical Review Letters, 2001, 87, 108302.	7.8	134
115	The Gâ€¢Triplex DNA. Angewandte Chemie - International Edition, 2013, 52, 2269-2273.	13.8	133
116	Microscopic structure of amorphous covalent alloys probed by ab initio molecular dynamics: SiC. Physical Review Letters, 1992, 68, 3044-3047.	7.8	132
117	Role of Conformational Fluctuations in the Enzymatic Reaction of HIV-1 Protease. Journal of Molecular Biology, 2002, 319, 567-583.	4.2	130
118	Protein Conformational Transitions: The Closure Mechanism of a Kinase Explored by Atomistic Simulations. Journal of the American Chemical Society, 2009, 131, 244-250.	13.7	130
119	Influence of the Heme Pocket Conformation on the Structure and Vibrations of the Fe-CO Bond in Myoglobin: A QM/MM Density Functional Study. Biophysical Journal, 2001, 81, 435-445.	0.5	128
120	Targeting biomolecular flexibility with metadynamics. Current Opinion in Structural Biology, 2010, 20, 148-154.	5.7	127
121	Hydrogen Bond Driven Chemical Reactions: A Beckmann Rearrangement of Cyclohexanone Oxime into Îµ-Caprolactam in Supercritical Water. Journal of the American Chemical Society, 2004, 126, 6280-6286.	13.7	125
122	Ab Initio Molecular Dynamics-Based Assignment of the Protonation State of Pepstatin A/HIV-1 Protease Cleavage Site. Journal of the American Chemical Society, 2001, 123, 8730-8737.	13.7	124
123	Anomalous water diffusion in salt solutions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3310-3315.	7.1	124
124	A First Principles Exploration of a Variety of Active Surfaces and Catalytic Sites in Zieglerâ€¢Natta Heterogeneous Catalysis. Journal of Physical Chemistry A, 2001, 105, 5096-5105.	2.5	123
125	Water at supercritical conditions: A first principles study. Journal of Chemical Physics, 2001, 115, 2219-2227.	3.0	123
126	Aqueous solutions: state of the art in ab initio molecular dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120482.	3.4	121

#	ARTICLE	IF	CITATIONS
127	Electronic and vibrational properties of C ₆₀ at finite temperature from ab initio molecular dynamics. <i>Physical Review B</i> , 1991, 44, 4056-4059.	3.2	119
128	Anharmonic Raman Spectra in High-Pressure Ice from Ab Initio Simulations. <i>Physical Review Letters</i> , 2002, 88, 176401.	7.8	119
129	A self-learning algorithm for biased molecular dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17509-17514.	7.1	117
130	A Molecular Dynamics Study of the Early Stages of Calcium Carbonate Growth. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11680-11687.	2.6	116
131	Ab initio quality neural-network potential for sodium. <i>Physical Review B</i> , 2010, 81, .	3.2	115
132	Carbon: The nature of the liquid state. <i>Physical Review Letters</i> , 1989, 63, 988-991.	7.8	113
133	Reconstruction of the diamond (111) surface. <i>Physical Review Letters</i> , 1992, 69, 2947-2950.	7.8	113
134	Ab-Initio Molecular Dynamics: Principles and Practical Implementation. , 1991, , 283-304.		112
135	Stochastic thermostats: comparison of local and global schemes. <i>Computer Physics Communications</i> , 2008, 179, 26-29.	7.5	112
136	Silicon Liquid Structure and Crystal Nucleation from Ab Initio Deep Metadynamics. <i>Physical Review Letters</i> , 2018, 121, 265701.	7.8	109
137	Medium Effects on ⁵¹ V NMR Chemical Shifts: A Density Functional Study. <i>Chemistry - A European Journal</i> , 2001, 7, 4487-4494.	3.3	108
138	Ab initio simulation of water interaction with the (100) surface of pyrite. <i>Journal of Chemical Physics</i> , 2003, 118, 8917-8926.	3.0	108
139	Nucleotide-dependent conformational states of actin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12723-12728.	7.1	106
140	Rethinking Metadynamics: From Bias Potentials to Probability Distributions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2731-2736.	4.6	106
141	Solvation Structure and Mobility Mechanism of OH ⁻ : A Car Parrinello Molecular Dynamics Investigation of Alkaline Solutions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12006-12016.	2.6	105
142	Metadynamics Simulation of Prion Protein: β -Structure Stability and the Early Stages of Misfolding. <i>Journal of the American Chemical Society</i> , 2006, 128, 2705-2710.	13.7	105
143	Demonstrating the Transferability and the Descriptive Power of Sketch-Map. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1521-1532.	5.3	104
144	Deep learning the slow modes for rare events sampling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	104

#	ARTICLE	IF	CITATIONS
145	A possible new highly stable fulleride cluster: Li ₁₂ C ₆₀ . Chemical Physics Letters, 1992, 198, 472-477.	2.6	102
146	Stability and Structure of Oligomers of the Alzheimer Peptide A β 16-22: From the Dimer to the 32-Mer. Biophysical Journal, 2006, 91, 3217-3229.	0.5	102
147	Ab initio phase diagram and nucleation of gallium. Nature Communications, 2020, 11, 2654.	12.8	102
148	A variational conformational dynamics approach to the selection of collective variables in metadynamics. Journal of Chemical Physics, 2017, 147, 204109.	3.0	101
149	Collective Variables from Local Fluctuations. Journal of Physical Chemistry Letters, 2018, 9, 2776-2781.	4.6	101
150	Dissociation Mechanism of Acetic Acid in Water. Journal of the American Chemical Society, 2006, 128, 11318-11319.	13.7	100
151	Graphite-diamond phase coexistence study employing a neural-network mapping of the ab initio potential energy surface. Physical Review B, 2010, 81, .	3.2	100
152	Sampling protein motion and solvent effect during ligand binding. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1467-1472.	7.1	100
153	Density Functional Theory-Based Molecular Dynamics Simulation of Acid-Catalyzed Chemical Reactions in Liquid Trioxane. Journal of the American Chemical Society, 1997, 119, 7218-7229.	13.7	97
154	The Unfolded Ensemble and Folding Mechanism of the C-Terminal GB1 β -Hairpin. Journal of the American Chemical Society, 2008, 130, 13938-13944.	13.7	97
155	Data-Driven Collective Variables for Enhanced Sampling. Journal of Physical Chemistry Letters, 2020, 11, 2998-3004.	4.6	97
156	Ab initio molecular dynamics simulation of liquid hydrogen fluoride. Journal of Chemical Physics, 1997, 106, 4658-4664.	3.0	95
157	Integrating the Car-Parrinello equations. II. Multiple time scale techniques. Journal of Chemical Physics, 1994, 101, 1316-1329.	3.0	94
158	The Role of the Peripheral Anionic Site and Cationic Interactions in the Ligand Penetration of the Human AChE Gorge. Journal of the American Chemical Society, 2005, 127, 9147-9155.	13.7	94
159	First-principles study of liquid and amorphous Sb_2 . Physical Review B, 2010, 81, .	3.2	94
160	Microscopic Mechanism of Antibiotics Translocation through a Porin. Biophysical Journal, 2004, 87, 58-64.	0.5	92
161	Simulation of structural phase transitions by metadynamics. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, .	0.8	92
162	Entropy based fingerprint for local crystalline order. Journal of Chemical Physics, 2017, 147, 114112.	3.0	92

#	ARTICLE	IF	CITATIONS
163	Structure and bonding in cisplatin and other Pt(II) complexes. <i>Chemical Physics Letters</i> , 1995, 234, 50-56.	2.6	91
164	MOLECULAR SPECTROSCOPY:CH5+: The Cheshire Cat Smiles. <i>Science</i> , 1999, 284, 59-61.	12.6	91
165	Ligand binding to telomeric G-quadruplex DNA investigated by funnel-metadynamics simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2136-E2145.	7.1	91
166	Structural, dynamical, electronic, and bonding properties of laser-heated silicon: Anab initiomolecular-dynamics study. <i>Physical Review B</i> , 1997, 56, 3806-3812.	3.2	90
167	Neural networks-based variationally enhanced sampling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17641-17647.	7.1	90
168	Confinement effects and acid strength in zeolites. <i>Nature Communications</i> , 2021, 12, 2630.	12.8	90
169	Controlling and Predicting Crystal Shapes: The Case of Urea. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13369-13372.	13.8	89
170	Understanding the Nature of Water Bound to Solid Acid Surfaces. <i>Ab Initio Simulation on HSAPO-34. Journal of the American Chemical Society</i> , 1998, 120, 8512-8516.	13.7	87
171	Solvated excess protons in water: quantum effects on the hydration structure. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A153-A159.	1.8	86
172	First-Principles Study of Aqueous Hydroxide Solutions. <i>Journal of the American Chemical Society</i> , 2002, 124, 8534-8535.	13.7	86
173	The dissociation mechanism of H2O in water studied by first-principles molecular dynamics. <i>Chemical Physics Letters</i> , 1998, 288, 343-347.	2.6	85
174	Structural and electronic properties of C70. <i>Chemical Physics Letters</i> , 1992, 189, 241-244.	2.6	84
175	Structural and Electronic Properties of Co-corrole, Co-corrin, and Co-porphyrin. <i>Inorganic Chemistry</i> , 2001, 40, 11-17.	4.0	84
176	Metadynamics studies of crystal nucleation. <i>IUCr</i> , 2015, 2, 256-266.	2.2	84
177	At the Water's Edge: Nitric Acid as a Weak Acid. <i>Journal of the American Chemical Society</i> , 2007, 129, 12910-12911.	13.7	82
178	Analyzing and Driving Cluster Formation in Atomistic Simulations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1317-1327.	5.3	82
179	Density-functional study of hydration of sodium in water clusters. <i>Journal of Chemical Physics</i> , 1998, 109, 6839-6843.	3.0	80
180	Ab Initio Simulation of Rotational Dynamics of Solvated Ammonium Ion in Water. <i>Journal of the American Chemical Society</i> , 1999, 121, 10883-10888.	13.7	79

#	ARTICLE	IF	CITATIONS
181	Free-energy landscape of protein oligomerization from atomistic simulations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4708-13.	7.1	79
182	Mechanistic insight into ligand binding to G-quadruplex DNA. Nucleic Acids Research, 2014, 42, 5447-5455.	14.5	79
183	Analysis of the Dissociation of H ₂ O in Water Using First-Principles Molecular Dynamics. Journal of Physical Chemistry B, 1999, 103, 7340-7345.	2.6	78
184	Azulene-to-Naphthalene Rearrangement: The Car-Parrinello Metadynamics Method Explores Various Reaction Mechanisms. ChemPhysChem, 2004, 5, 1558-1568.	2.1	78
185	Phase Selection and Energetics in Chiral Alkaline Earth Tartrates and Their Racemic and <i>Meso</i> Analogues: Synthetic, Structural, Computational, and Calorimetric Studies. Journal of the American Chemical Society, 2009, 131, 15375-15386.	13.7	78
186	Molecular dynamics simulations of liquid silica crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5348-5352.	7.1	78
187	Enhancing Entropy and Enthalpy Fluctuations to Drive Crystallization in Atomistic Simulations. Physical Review Letters, 2017, 119, 015701.	7.8	74
188	A Minimum Free Energy Reaction Path for the E2 Reaction between Fluoro Ethane and a Fluoride Ion. Journal of the American Chemical Society, 2004, 126, 9492-9493.	13.7	73
189	A density functional study of iron-porphyrin complexes. Chemical Physics Letters, 1997, 271, 247-250.	2.6	71
190	A comparative study of O ₂ , CO, and NO binding to iron-porphyrin. International Journal of Quantum Chemistry, 1998, 69, 31-35.	2.0	71
191	A Density Functional Theory Study of a Silica-Supported Zirconium Monohydride Catalyst for Depolymerization of Polyethylene. Journal of Physical Chemistry B, 2000, 104, 2901-2907.	2.6	71
192	Ab Initio Study of Dehydroxylation/Carbonation Reaction on Brucite Surface. Journal of Physical Chemistry B, 2004, 108, 11567-11574.	2.6	71
193	G-triplex structure and formation propensity. Nucleic Acids Research, 2014, 42, 13393-13404.	14.5	71
194	Influence of DNA Structure on the Reactivity of the Guanine Radical Cation. Chemistry - A European Journal, 2004, 10, 4846-4852.	3.3	70
195	Transition-Tempered Metadynamics: Robust, Convergent Metadynamics via On-the-Fly Transition Barrier Estimation. Journal of Chemical Theory and Computation, 2014, 10, 3626-3633.	5.3	70
196	Insight into the nucleation of urea crystals from the melt. Chemical Engineering Science, 2015, 121, 51-59.	3.8	70
197	Vacancy-vacancy interaction and oxygen diffusion in stabilized cubic ZrO_2 first principles. Physical Review B, 2008, 78, ...	6.9	69
198	Pressure-induced phase transitions in silicon studied by neural network-based metadynamics simulations. Physica Status Solidi (B): Basic Research, 2008, 245, 2618-2629.	1.5	68

#	ARTICLE	IF	CITATIONS
199	Asprich Peptides Are Occluded in Calcite and Permanently Disorder Biomineral Crystals. <i>Journal of the American Chemical Society</i> , 2010, 132, 11585-11591.	13.7	68
200	Pressure-Induced Frustration and Disorder in $Mg(OH)_2$ and $Ca(OH)_2$. <i>Physical Review Letters</i> , 1999, 83, 2222-2225.	7.8	67
201	Site Binding of Ca^{2+} Ions to Polyacrylates in Water: A Molecular Dynamics Study of Coiling and Aggregation. <i>Macromolecules</i> , 2007, 40, 3437-3442.	4.8	67
202	Microsolvation and Chemical Reactivity of Sodium and Water Clusters. <i>Journal of the American Chemical Society</i> , 2000, 122, 4837-4838.	13.7	66
203	Topological Defects and Bulk Melting of Hexagonal Ice. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5421-5424.	2.6	66
204	Molecular Dynamics Study of the Solvation of Calcium Carbonate in Water. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12219-12227.	2.6	66
205	Investigating the Mechanism of Substrate Uptake and Release in the Glutamate Transporter Homologue Cl_{Ph} through Metadynamics Simulations. <i>Journal of the American Chemical Society</i> , 2012, 134, 453-463.	13.7	66
206	Concentration gradient driven molecular dynamics: a new method for simulations of membrane permeation and separation. <i>Chemical Science</i> , 2017, 8, 3858-3865.	7.4	66
207	Ab-initio Study of NMR Chemical Shifts of Water Under Normal and Supercritical Conditions. <i>ChemPhysChem</i> , 2002, 3, 675.	2.1	65
208	Correlations among Hydrogen Bonds in Liquid Water. <i>Physical Review Letters</i> , 2004, 93, 087801.	7.8	65
209	The Iron-Sulfur Bond in Cytochrome c. <i>Journal of Physical Chemistry B</i> , 1999, 103, 7031-7035.	2.6	64
210	Unravelling the Shuttling Mechanism in a Photoswitchable Multicomponent Bistable Rotaxane. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3536-3539.	13.8	64
211	The Thermal Stability of Lattice-Energy Minima of 5-Fluorouracil: Metadynamics as an Aid to Polymorph Prediction. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4298-4308.	2.6	64
212	Microscopic Origins of the Anomalous Melting Behavior of Sodium under High Pressure. <i>Physical Review Letters</i> , 2012, 108, 115701.	7.8	64
213	Replica Temperatures for Uniform Exchange and Efficient Roundtrip Times in Explicit Solvent Parallel Tempering Simulations. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2025-2027.	5.3	63
214	Molecular dynamics simulations of solutions at constant chemical potential. <i>Journal of Chemical Physics</i> , 2015, 142, 144113.	3.0	63
215	Zero-point-motion effects on the structure of C_{60} . <i>Physical Review B</i> , 1992, 46, 4371-4373.	3.2	62
216	Ab initio molecular dynamics simulation of laser melting of graphite. <i>Journal of Applied Physics</i> , 1998, 83, 2478-2483.	2.5	61

#	ARTICLE	IF	CITATIONS
217	Classical polarizable force fields parametrized from ab initio calculations. Journal of Chemical Physics, 2002, 117, 1416-1433.	3.0	61
218	A concerted variational strategy for investigating rare events. Journal of Chemical Physics, 2003, 118, 2025-2032.	3.0	61
219	Conformational Changes and Gating at the Selectivity Filter of Potassium Channels. Journal of the American Chemical Society, 2008, 130, 9474-9480.	13.7	61
220	Doping-induced distortions and bonding in K ₆ C ₆₀ and Rb ₆ C ₆₀ . Physical Review Letters, 1992, 68, 823-826.	7.8	59
221	Effect of Urea on the β -Hairpin Conformational Ensemble and Protein Denaturation Mechanism. Journal of the American Chemical Society, 2011, 133, 17200-17206.	13.7	59
222	Exhaustive Search of Ligand Binding Pathways via Volume-Based Metadynamics. Journal of Physical Chemistry Letters, 2019, 10, 3495-3499.	4.6	59
223	Compton scattering and the character of the hydrogen bond in ice Ih. Journal of Chemical Physics, 2001, 115, 115-123.	3.0	58
224	The allosteric communication pathways in KIX domain of CBP. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14237-14242.	7.1	57
225	Predicting polymorphism in molecular crystals using orientational entropy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10251-10256.	7.1	57
226	Using metadynamics to build neural network potentials for reactive events: the case of urea decomposition in water. Catalysis Today, 2022, 387, 143-149.	4.4	57
227	Linking Well-Tempered Metadynamics Simulations with Experiments. Biophysical Journal, 2010, 98, L44-L46.	0.5	56
228	Temperature Dependence of Homogeneous Nucleation in Ice. Physical Review Letters, 2019, 122, 245501.	7.8	56
229	Self-Assembled Peptide Nanotubes from First Principles. Physical Review Letters, 1997, 79, 761-764.	7.8	55
230	The interaction with gold suppresses fiber-like conformations of the amyloid β (16-22) peptide. Nanoscale, 2016, 8, 8737-8748.	5.6	55
231	Ab initio analysis of proton transfer dynamics in (H ₂ O) ₃ H ⁺ . Chemical Physics Letters, 2000, 321, 225-230.	2.6	54
232	Frequency adaptive metadynamics for the calculation of rare-event kinetics. Journal of Chemical Physics, 2018, 149, 072309.	3.0	54
233	Integrating the Car-Parrinello equations. III. Techniques for ultrasoft pseudopotentials. Journal of Chemical Physics, 1995, 102, 859-871.	3.0	53
234	Cesium auride Ammonia (1/1), CsAu·NH ₃ : A Crystalline Analogue to Alkali Metals Dissolved in Ammonia?. Angewandte Chemie - International Edition, 2002, 41, 120-124.	13.8	53

#	ARTICLE	IF	CITATIONS
235	Ab initio simulation of H ₂ S adsorption on the (100) surface of pyrite. <i>Journal of Chemical Physics</i> , 2003, 119, 4934-4939.	3.0	53
236	Charge Localization in DNA Fibers. <i>Physical Review Letters</i> , 2005, 94, 158103.	7.8	53
237	Exploring the Gating Mechanism in the CIC Chloride Channel via Metadynamics. <i>Journal of Molecular Biology</i> , 2006, 361, 390-398.	4.2	53
238	Solvent Effects on Charge Spatial Extent in DNA and Implications for Transfer. <i>Physical Review Letters</i> , 2007, 99, 058104.	7.8	53
239	Chasing the Full Free Energy Landscape of Neuroreceptor/Ligand Unbinding by Metadynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3354-3361.	5.3	53
240	Factors Influencing Ligand-Binding Properties of Heme Models: A First Principles Study of Picket-Fence and Protoheme Complexes. <i>Chemistry - A European Journal</i> , 1999, 5, 250-262.	3.3	52
241	Double Proton Coupled Charge Transfer in DNA. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5606-5609.	13.8	52
242	Ab initio molecular dynamics simulation of hydrogen fluoride at several thermodynamic states. <i>Journal of Chemical Physics</i> , 2003, 118, 3639-3645.	3.0	51
243	Ab initio Simulation of Phase Transitions and Dissociation of H ₂ S at High Pressure. <i>Physical Review Letters</i> , 2000, 85, 1254-1257.	7.8	50
244	$\hat{\Gamma}$ -Lactone Synthesis from Epoxide and CO: Reaction Mechanism Revisited. <i>Organometallics</i> , 2005, 24, 2533-2537.	2.3	50
245	Energetics and Structural Characterization of the large-scale Functional Motion of Adenylate Kinase. <i>Scientific Reports</i> , 2015, 5, 8425.	3.3	50
246	Urea homogeneous nucleation mechanism is solvent dependent. <i>Faraday Discussions</i> , 2015, 179, 291-307.	3.2	50
247	Theoretical study of molten KSi. <i>Journal of Chemical Physics</i> , 1991, 95, 7504-7512.	3.0	49
248	Ab initio molecular dynamics of C70. Intramolecular vibrations and zero-point motion effects. <i>Chemical Physics Letters</i> , 1994, 219, 1-7.	2.6	49
249	Displaced Path Integral Formulation for the Momentum Distribution of Quantum Particles. <i>Physical Review Letters</i> , 2010, 105, 110602.	7.8	49
250	A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure $\hat{\Gamma}$ -FAPbI ₃ . <i>Science Advances</i> , 2021, 7, .	10.3	49
251	The Role of Quantum Effects on Structural and Electronic Fluctuations in Neat and Charged Water. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13226-13235.	2.6	48
252	Harmonic and Anharmonic Dynamics of Fe ²⁺ -CO and Fe ²⁺ -O ₂ in Heme Models. <i>Biophysical Journal</i> , 2000, 78, 93-100.	0.5	47

#	ARTICLE	IF	CITATIONS
253	Enhanced, targeted sampling of high-dimensional free-energy landscapes using variationally enhanced sampling, with an application to chignolin. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1150-1155.	7.1	47
254	Nonempirical Calculations of a Hydrated RNA Duplex. Journal of the American Chemical Society, 1996, 118, 8710-8712.	13.7	46
255	First-principles molecular dynamics simulations of models for the myoglobin active center. International Journal of Quantum Chemistry, 2000, 80, 1172-1180.	2.0	46
256	Charge Localization in Stacked Radical Cation DNA Base Pairs and the Benzene Dimer Studied by Self-Interaction Corrected Density-Functional Theory. Journal of Physical Chemistry A, 2007, 111, 105-112.	2.5	46
257	NMR chemical shifts in periodic systems from first principles. Computer Physics Communications, 2002, 147, 707-710.	7.5	45
258	From four- to six-coordinated silica: Transformation pathways from metadynamics. Physical Review B, 2007, 76, .	3.2	45
259	Locating binding poses in protein-ligand systems using reconnaissance metadynamics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5170-5175.	7.1	45
260	The Fuzzy Quantum Proton in the Hydrogen Chloride Hydrates. Journal of the American Chemical Society, 2012, 134, 8557-8569.	13.7	45
261	Metadynamics with Discriminants: A Tool for Understanding Chemistry. Journal of Chemical Theory and Computation, 2018, 14, 5040-5044.	5.3	45
262	Atomistic Mechanism of the Nucleation of Methylammonium Lead Iodide Perovskite from Solution. Chemistry of Materials, 2020, 32, 529-536.	6.7	45
263	Molecular structure and chemical bonding in K ₃ C ₆₀ and K ₆ C ₆₀ . Physical Review B, 1995, 51, 2087-2097.	3.2	44
264	Electrical-conductivity calculation in ab initio simulations of metals: Application to liquid sodium. Physical Review B, 1997, 55, 15515-15522.	3.2	44
265	Anharmonic infrared and Raman spectra in Parrinello molecular dynamics simulations. Journal of Chemical Physics, 2008, 128, 224514.	3.0	44
266	Transient Polymorphism in NaCl. Journal of Chemical Theory and Computation, 2013, 9, 2526-2530.	5.3	44
267	Accelerating the Calculation of Protein-Ligand Binding Free Energy and Residence Times Using Dynamically Optimized Collective Variables. Journal of Chemical Theory and Computation, 2019, 15, 743-750.	5.3	44
268	DFT Research on the Dehydroxylation Reaction of Pyrophyllite 1. First-Principle Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2008, 112, 7051-7060.	2.6	43
269	Nuclear quantum effects in ab initio dynamics: Theory and experiments for lithium imide. Physical Review B, 2010, 82, .	3.2	43
270	Unified Approach to Enhanced Sampling. Physical Review X, 2020, 10, .	8.9	43

#	ARTICLE	IF	CITATIONS
271	Well-Tempered Variational Approach to Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1996-2002.	5.3	42
272	Combining metadynamics simulation and experiments to characterize dendrimers in solution. <i>Soft Matter</i> , 2013, 9, 2593.	2.7	41
273	Accuracy of Molecular Simulation-Based Predictions of k_{off} Values: A Metadynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6373-6381.	4.6	41
274	Infrared absorption in amorphous silicon from ab initio molecular dynamics. <i>Applied Physics Letters</i> , 1997, 71, 2692-2694.	3.3	40
275	Insight into the Folding Inhibition of the HIV-1 Protease by a Small Peptide. <i>Biophysical Journal</i> , 2007, 93, 2813-2821.	0.5	40
276	Overcoming time scale and finite size limitations to compute nucleation rates from small scale well tempered metadynamics simulations. <i>Journal of Chemical Physics</i> , 2016, 145, 211925.	3.0	40
277	Structural Diversity and Energetics in Anhydrous Lithium Tartrates: Experimental and Computational Studies of Novel Chiral Polymorphs and Their Racemic and Meso Analogues. <i>Crystal Growth and Design</i> , 2011, 11, 221-230.	3.0	39
278	Ab initio x-ray scattering of liquid water. <i>Journal of Chemical Physics</i> , 2002, 117, 9409-9412.	3.0	38
279	Influence of Temperature and Anisotropic Pressure on the Phase Transitions in $\text{Ni}_{1\pm}$ -Cristobalite. <i>Physical Review Letters</i> , 2008, 100, 165502.	7.8	38
280	Hydrogen Oxidation Reaction at the $\text{Ni}/\text{YSZ}/\text{Anode}$ of Solid Oxide Fuel Cells from First Principles. <i>Physical Review Letters</i> , 2011, 107, 206103.	7.8	38
281	Improving collective variables: The case of crystallization. <i>Journal of Chemical Physics</i> , 2019, 150, 094509.	3.0	38
282	Free Energy ab Initio Metadynamics: A New Tool for the Theoretical Study of Organometallic Reactivity? Example of the C^{C} and C^{H} Reductive Eliminations from Platinum(IV) Complexes. <i>Organometallics</i> , 2007, 26, 1241-1249.	2.3	37
283	The role of water in host-guest interaction. <i>Nature Communications</i> , 2021, 12, 93.	12.8	37
284	Exponential transformation of molecular orbitals. <i>Journal of Chemical Physics</i> , 1994, 101, 3862-3865.	3.0	35
285	Insight into Chemical Reactions from First-Principles Simulations: The Mechanism of the Gas-Phase Reaction of OH Radicals with Ketones. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3614-3617.	2.5	35
286	Density-functional study of hydration of ammonium in water clusters. <i>Journal of Chemical Physics</i> , 1999, 110, 4734-4736.	3.0	35
287	Linear scaling electronic structure calculations and accurate statistical mechanics sampling with noisy forces. <i>Physical Review B</i> , 2006, 73, .	3.2	35
288	An efficient and accurate decomposition of the Fermi operator. <i>Journal of Chemical Physics</i> , 2008, 129, 024707.	3.0	35

#	ARTICLE	IF	CITATIONS
289	Variationally Optimized Free-Energy Flooding for Rate Calculation. <i>Physical Review Letters</i> , 2015, 115, 070601.	7.8	35
290	Coarse graining from variationally enhanced sampling applied to the Ginzburg-Landau model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3370-3374.	7.1	35
291	Solvent-mediated morphology selection of the active pharmaceutical ingredient isoniazid: Experimental and simulation studies. <i>Chemical Engineering Science</i> , 2019, 204, 320-328.	3.8	35
292	d-wave, dimer, and chiral states in the two-dimensional Hubbard model. <i>Physical Review B</i> , 1991, 43, 6190-6193.	3.2	34
293	Pressure-induced structural transformations in a medium-sized silicon nanocrystal by tight-binding molecular dynamics. <i>Journal of Chemical Physics</i> , 2002, 117, 11329-11335.	3.0	34
294	Folding a small protein using harmonic linear discriminant analysis. <i>Journal of Chemical Physics</i> , 2018, 149, 194113.	3.0	34
295	Static Structure and Dynamical Correlations in High Pressure H ₂ S. <i>Physical Review Letters</i> , 1999, 83, 2218-2221.	7.8	33
296	The role of quantum effects and ionic defects in high-density ice. <i>Solid State Ionics</i> , 1999, 125, 23-29.	2.7	33
297	Probing the Mechanism of pH-Induced Large-Scale Conformational Changes in Dengue Virus Envelope Protein Using Atomistic Simulations. <i>Biophysical Journal</i> , 2010, 99, 588-594.	0.5	33
298	First Principles Study of the LiNH ₂ /Li ₂ NH Transformation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15174-15183.	3.1	33
299	Momentum distribution, vibrational dynamics, and the potential of mean force in ice. <i>Physical Review B</i> , 2011, 83, .	3.2	33
300	Ab initio molecular dynamics study of polyfluoride anions. <i>Journal of Chemical Physics</i> , 1997, 107, 8012-8019.	3.0	32
301	Defective pyrite (100) surface: An ab initio study. <i>Physical Review B</i> , 2007, 75, .	3.2	32
302	Gaussian Mixture-Based Enhanced Sampling for Statics and Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5076-5080.	4.6	32
303	Binding of Calcium and Carbonate to Polyacrylates. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7081-7085.	2.6	31
304	The role of the umbrella inversion mode in proton diffusion. <i>Chemical Physics Letters</i> , 2014, 599, 133-138.	2.6	31
305	Molecular Dynamics Simulations of Crystal Nucleation from Solution at Constant Chemical Potential. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6923-6930.	5.3	31
306	Integrating NMR and simulations reveals motions in the UUCG tetraloop. <i>Nucleic Acids Research</i> , 2020, 48, 5839-5848.	14.5	31

#	ARTICLE	IF	CITATIONS
307	Exploration vs Convergence Speed in Adaptive-Bias Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3988-3996.	5.3	30
308	Structure and dynamics of protonated methane: CH ₅ ⁺ at finite temperatures. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 41, 253-260.	1.0	29
309	Carà”Parrinello study of Zieglerà”Natta heterogeneous catalysis: stability and destabilization problems of the active site models. <i>Molecular Physics</i> , 2002, 100, 2935-2940.	1.7	29
310	Toward a Monte Carlo program for simulating vaporà”liquid phase equilibria from first principles. <i>Computer Physics Communications</i> , 2005, 169, 289-294.	7.5	29
311	Calculation of phase diagrams in the multithermal-multibaric ensemble. <i>Journal of Chemical Physics</i> , 2019, 150, 244119.	3.0	29
312	Nature of the Conduction States in the Metallic Molecular Crystal Li(NH ₃) ₄ . <i>Physical Review Letters</i> , 1994, 73, 3133-3136.	7.8	28
313	Carboplatin versus cisplatin: density functional approach to their molecular properties. <i>Chemical Physics Letters</i> , 1995, 246, 469-474.	2.6	28
314	Response Function Basis Sets:à” Application to Density Functional Calculations. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6231-6235.	2.9	28
315	Nonmetal-metal transition in metalà”molten-salt solutions. <i>Physical Review B</i> , 1996, 53, 12750-12760.	3.2	28
316	Formation of a Reactive Intermediate in Molecular Beam Chemistry of Sodium and Water. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8423-8427.	2.5	28
317	Molecular dynamics simulation of reconstructive phase transitions on an anhydrous zeolite. <i>Physical Review B</i> , 2004, 70, .	3.2	28
318	Heterogeneous Crystallization of the Phase Change Material GeTe via Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6428-6434.	3.1	28
319	Microscopic description of acidà”base equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4054-4057.	7.1	28
320	Liquid-Liquid Critical Point in Phosphorus. <i>Physical Review Letters</i> , 2021, 127, 080603.	7.8	28
321	Absence of metal clusters and appearance of new electron states in Na ₆ C ₆₀ . <i>Physical Review Letters</i> , 1994, 72, 848-851.	7.8	27
322	Nonperiodic boundary conditions for solvated systems. <i>Journal of Chemical Physics</i> , 2005, 123, 044103.	3.0	27
323	Stochastic linear scaling for metals and nonmetals. <i>Physical Review B</i> , 2005, 71, .	3.2	27
324	Combining Metadynamics and Integrated Tempering Sampling. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6426-6430.	4.6	27

#	ARTICLE	IF	CITATIONS
325	Path integral molecular dynamics for bosons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21445-21449.	7.1	27
326	Prion protein α 2 loop conformational landscape. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9617-9622.	7.1	26
327	A First Principles Investigation of the Structure of a Bacteriochlorophyll Crystal. Journal of the American Chemical Society, 1996, 118, 7847-7848.	13.7	25
328	Ab Initio Molecular Dynamics Study of Heterogeneous Oxidation of Graphite by Means of Gas-Phase Nitric Acid. Journal of Physical Chemistry B, 2006, 110, 3477-3484.	2.6	25
329	A chirality-based metrics for free energy calculations in biomolecular systems. Journal of Computational Chemistry, 2011, 32, 2627-2637.	3.3	25
330	Probing the Unfolded Configurations of a β -Hairpin Using Sketch-Map. Journal of Chemical Theory and Computation, 2015, 11, 1086-1093.	5.3	25
331	Refining Collective Coordinates and Improving Free Energy Representation in Variational Enhanced Sampling. Journal of Chemical Theory and Computation, 2018, 14, 2889-2894.	5.3	25
332	Collective variables for the study of crystallisation. Molecular Physics, 2021, 119, .	1.7	25
333	Quantum effects on phase transitions in high-pressure ice. Computational Materials Science, 1998, 10, 88-93.	3.0	24
334	Density Functional Study of ^{17}O NMR Chemical Shift and Nuclear Quadrupole Coupling Tensors in Oxheme Model Complexes. Journal of Physical Chemistry B, 2000, 104, 5200-5208.	2.6	24
335	Accurate Total Energies without Self-Consistency. Physical Review Letters, 2001, 87, 226401.	7.8	24
336	Intramolecular Weak Interactions in the Thermodynamic Stereoselectivity of Copper(II) Complexes with Carnosine-Trehalose Conjugates. Chemistry - A European Journal, 2011, 17, 9448-9455.	3.3	24
337	Counterion Redistribution upon Binding of a Tat-Protein Mimic to HIV-1 TAR RNA. Journal of Chemical Theory and Computation, 2012, 8, 688-694.	5.3	24
338	Characterization of Vanadium Species in Mixed Chloride-Sulfate Solutions: An Ab Initio Metadynamics Study. Journal of Physical Chemistry C, 2016, 120, 10791-10798.	3.1	24
339	Vibrational analysis from linear response theory. Chemical Physics Letters, 2001, 345, 179-182.	2.6	23
340	Ensemble of Transition State Structures for the Cis-Trans Isomerization of N-Methylacetamide. Journal of Physical Chemistry B, 2009, 113, 12521-12529.	2.6	23
341	Chiral, Racemic, and Meso-Lithium Tartrate Framework Polymorphs: A Detailed Structural Analysis. Crystal Growth and Design, 2013, 13, 3705-3715.	3.0	23
342	Variational Flooding Study of a S_2N_2 Reaction. Journal of Physical Chemistry Letters, 2017, 8, 580-583.	4.6	23

#	ARTICLE	IF	CITATIONS
343	The Onset of Dehydrogenation in Solid Ammonia Borane: An Ab Initio Metadynamics Study. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3976-3980.	13.8	23
344	Path integral molecular dynamics for fermions: Alleviating the sign problem with the Bogoliubov inequality. <i>Journal of Chemical Physics</i> , 2020, 152, 171102.	3.0	23
345	Density-Functional-Theory-Based Molecular Dynamics Study of 1,3,5-Trioxane and 1,3-Dioxolane Protolysis. <i>Journal of the American Chemical Society</i> , 1994, 116, 11251-11255.	13.7	22
346	Oxygen binding to iron-porphyrin: A density functional study using both LSD and LSD+GC schemes. , 1998, 70, 387-394.		22
347	Pressure Effects on Hydrogen Bonding in the Disordered Phase of Solid HBr. <i>Physical Review Letters</i> , 1998, 81, 4416-4419.	7.8	22
348	Influence of Outer-Shell Metal Ligands on the Structural and Electronic Properties of Horse Liver Alcohol Dehydrogenase Zinc Active Site. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6886-6892.	2.6	22
349	Ab Initio Molecular Dynamics Study of Heterogeneous Nitric Acid Decomposition Reactions on Graphite Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2251-2258.	3.1	22
350	Multithermal-Multibarc Molecular Simulations from a Variational Principle. <i>Physical Review Letters</i> , 2019, 122, 050601.	7.8	22
351	Pressure-induced structural and chemical changes of solid HBr. <i>Journal of Chemical Physics</i> , 1999, 111, 1595-1607.	3.0	21
352	Structure and Chemical Activity of Point Defects on MgCl ₂ (001) Surface. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4477-4481.	2.6	21
353	Superionic Conduction in Substoichiometric LiAl Alloy: An Ab Initio Study. <i>Physical Review Letters</i> , 2009, 103, 125901.	7.8	21
354	1,3,5-Tris(4-bromophenyl)benzene prenucleation clusters from metadynamics. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 132-136.	0.5	21
355	Path Integral Metadynamics. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1383-1388.	5.3	21
356	Structure and electronic properties of quinizarin chemisorbed on alumina. <i>Journal of Chemical Physics</i> , 1996, 104, 8143-8150.	3.0	20
357	Polarized atomic orbitals for linear scaling methods. <i>Journal of Chemical Physics</i> , 2002, 116, 1800-1810.	3.0	20
358	Lithium Hydroxide Phase Transition under High Pressure: An Ab Initio Molecular Dynamics Study. <i>ChemPhysChem</i> , 2006, 7, 141-147.	2.1	20
359	Exploring the free energy surfaces of clusters using reconnaissance metadynamics. <i>Journal of Chemical Physics</i> , 2011, 135, 114109.	3.0	20
360	Accurate Quantum Chemical Free Energies at Affordable Cost. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3727-3731.	4.6	20

#	ARTICLE	IF	CITATIONS
361	Metadynamics of Paths. <i>Physical Review Letters</i> , 2020, 125, 026001.	7.8	20
362	Blind Search for Complex Chemical Pathways Using Harmonic Linear Discriminant Analysis. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4507-4515.	5.3	19
363	Naphthalene crystal shape prediction from molecular dynamics simulations. <i>CrystEngComm</i> , 2019, 21, 3280-3288.	2.6	19
364	Static properties of the 2D Hubbard model on a $4\tilde{A}-4$ cluster. <i>International Journal of Modern Physics B</i> , 1989, 03, 1865-1873.	2.0	18
365	Combustion Chemistry via Metadynamics: Benzyl Decomposition Revisited. <i>Journal of Physical Chemistry A</i> , 2015, 119, 978-989.	2.5	18
366	Chemical potential calculations in dense liquids using metadynamics. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1621-1628.	2.6	18
367	A Cannibalistic Approach to Grand Canonical Crystal Growth. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2678-2683.	5.3	18
368	Searching for Entropically Stabilized Phases: The Case of Silver Iodide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1786-1790.	3.1	18
369	Making the Best of a Bad Situation: A Multiscale Approach to Free Energy Calculation. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2187-2194.	5.3	18
370	Enhanced Sampling of Protein Conformational Transitions via Dynamically Optimized Collective Variables. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1393-1398.	5.3	18
371	Insights into the Electronic Dynamics in Chemical Reactions. <i>Journal of Physical Chemistry A</i> , 2004, 108, 848-854.	2.5	17
372	The role of Li^{+} , Na^{+} , and K^{+} in the ligand binding inside the human acetylcholinesterase gorge. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 779-785.	2.6	17
373	Modeling the Hydrogen Storage Materials with Exposed M^{2+} Coordination Sites. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16171-16173.	3.1	17
374	Thermodynamical Description of a Quasi-First-Order Phase Transition from the Well-Tempered Ensemble. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5267-5276.	5.3	16
375	Conformational Entropy as Collective Variable for Proteins. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4752-4756.	4.6	16
376	Enhanced Sampling of Transition States. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2454-2459.	5.3	16
377	From Enhanced Sampling to Reaction Profiles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8621-8626.	4.6	16
378	Prediction of a Supersolid Phase in High-Pressure Deuterium. <i>Physical Review Letters</i> , 2022, 128, 045301.	7.8	16

#	ARTICLE	IF	CITATIONS
379	A novel implicit Newton-Raphson geometry optimization method for density functional theory calculations. <i>Journal of Chemical Physics</i> , 2001, 115, 636-642.	3.0	15
380	Multiple Routes and Milestones in the Folding of HIV-1 Protease Monomer. <i>PLoS ONE</i> , 2010, 5, e13208.	2.5	15
381	A variational approach to nucleation simulation. <i>Faraday Discussions</i> , 2016, 195, 557-568.	3.2	15
382	Targeted Free Energy Perturbation Revisited: Accurate Free Energies from Mapped Reference Potentials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9449-9454.	4.6	15
383	The Onset of Dehydrogenation in Solid Ammonia Borane: An Ab Initio Metadynamics Study. <i>Angewandte Chemie</i> , 2019, 131, 4016-4020.	2.0	14
384	Solubility Prediction of Organic Molecules with Molecular Dynamics Simulations. <i>Crystal Growth and Design</i> , 2021, 21, 5198-5205.	3.0	14
385	Structural properties of amorphous SiC via ab-initio molecular dynamics. <i>Journal of Non-Crystalline Solids</i> , 1991, 137-138, 153-156.	3.1	13
386	First-Principles Molecular Dynamics Study of a Photochromic Molecular Crystal. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7341-7344.	2.5	13
387	Wave-function localization in reciprocal space. <i>Physical Review B</i> , 2002, 66, .	3.2	13
388	The interplay between surface-water and hydrogen bonding in a water adlayer on Pt(111) and Ag(111). <i>Journal of Physics Condensed Matter</i> , 2007, 19, 242101.	1.8	13
389	A perturbative solution to metadynamics ordinary differential equation. <i>Journal of Chemical Physics</i> , 2015, 143, 234112.	3.0	13
390	Water-Triggered, Irreversible Conformational Change of SARS-CoV-2 Main Protease on Passing from the Solid State to Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2021, 143, 12930-12934.	13.7	13
391	Static disorder and structural correlations in the low-temperature phase of lithium imide. <i>Physical Review B</i> , 2011, 83, .	3.2	12
392	Identifying Slow Molecular Motions in Complex Chemical Reactions. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4197-4200.	4.6	12
393	The impact of methylphenidate and its enantiomers on dopamine synthesis and metabolism in vitro. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 79, 281-288.	4.8	12
394	Eppur si muove. , 2008, , 247-265.		12
395	Discover, Sample, and Refine: Exploring Chemistry with Enhanced Sampling Techniques. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1424-1430.	4.6	12
396	A QUICKSTEP-based quantum mechanics/molecular mechanics approach for silica. <i>Journal of Chemical Physics</i> , 2006, 124, 154707.	3.0	11

#	ARTICLE	IF	CITATIONS
397	A Hybrid Approach to Fermi Operator Expansion. , 2009, , .		11
398	Bespoke Bias for Obtaining Free Energy Differences within Variationally Enhanced Sampling. Journal of Chemical Theory and Computation, 2016, 12, 2162-2169.	5.3	11
399	How Collective Phenomena Impact CO ₂ Reactivity and Speciation in Different Media. Journal of Physical Chemistry A, 2020, 124, 3963-3975.	2.5	11
400	Chemical order in amorphous covalent alloys. Physica B: Condensed Matter, 1993, 185, 379-383.	2.7	10
401	Localized non-orthogonal orbitals in silicon. Journal of Physics Condensed Matter, 2001, 13, 5731-5741.	1.8	10
402	New Lennard-Jones metastable phase. Journal of Chemical Physics, 2008, 129, 026101.	3.0	10
403	Comment on "Dissociation of Water under Pressure", Physical Review Letters, 2002, 89, 199601; author reply 199602.	7.8	9
404	Protonation State of the Equatorial Ligands and Dynamics of the OH ⁻ Units in a Cobaloxime Biomimetic. Inorganic Chemistry, 2002, 41, 4810-4814.	4.0	9
405	Charge localisation and hopping in DNA. Molecular Simulation, 2007, 33, 57-60.	2.0	9
406	Linear scaling electronic structure Monte Carlo method for metals. Physical Review B, 2007, 75, .	3.2	9
407	de Broglie Swapping Metadynamics for Quantum and Classical Sampling. Journal of Chemical Theory and Computation, 2015, 11, 5114-5119.	5.3	9
408	1,3,5-tris(4-bromophenyl)-benzene Nucleation: From Dimers to Needle-like Clusters. Crystal Growth and Design, 2017, 17, 4137-4143.	3.0	9
409	Quantum Symmetry from Enhanced Sampling Methods. Physical Review Letters, 2018, 121, 140602.	7.8	9
410	Kinetics of Aqueous Media Reactions via Ab Initio Enhanced Molecular Dynamics: The Case of Urea Decomposition. Journal of Physical Chemistry B, 2019, 123, 6851-6856.	2.6	9
411	Efficient method for the calculation of total energy and electronic density of states. Physical Review B, 2001, 64, .	3.2	8
412	Linear scaling for quasi-one-dimensional systems. Physical Review B, 2006, 74, .	3.2	8
413	Communication: Role of explicit water models in the helix folding/unfolding processes. Journal of Chemical Physics, 2016, 145, 121101.	3.0	8
414	Dimer Metadynamics. Journal of Chemical Theory and Computation, 2017, 13, 425-430.	5.3	8

#	ARTICLE	IF	CITATIONS
415	Chemical potential calculations in non-homogeneous liquids. <i>Journal of Chemical Physics</i> , 2018, 149, 072305.	3.0	8
416	Hydrogen Elimination and Solid-State Reaction in Hydrogen-Bonded Systems under Pressure: The Case of HBr. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11801-11804.	2.6	7
417	Non-equilibrium dynamics and structure of interfacial ice. <i>Chemical Physics Letters</i> , 2006, 426, 115-119.	2.6	7
418	First-Principles Study of the High-Temperature Phase of Li_2NH . <i>Journal of Physical Chemistry C</i> , 2011, 115, 7076-7080.	3.1	7
419	Water Release from Pyrophyllite during the Dehydroxylation Process Explored by Quantum Mechanical Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7526-7532.	3.1	7
420	Molecular Mechanism of Gas Solubility in Liquid: Constant Chemical Potential Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5279-5286.	5.3	7
421	General Protein Data Bank-Based Collective Variables for Protein Folding. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 29-35.	5.3	6
422	Tautomeric Equilibrium in Condensed Phases. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6027-6031.	5.3	6
423	First-Principles Molecular Dynamics. , 1991, , 833-845.		6
424	Density functional simulations of hexagonal $\text{Ge}_2\text{Sb}_2\text{Te}_5$ at high pressure. <i>Physical Review B</i> , 2013, 87, .	3.2	5
425	Hierarchical Protein Free Energy Landscapes from Variationally Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5751-5757.	5.3	5
426	AB-Initio Molecular Dynamics Studies of Microclusters. <i>NATO ASI Series Series B: Physics</i> , 1989, , 129-135.	0.2	5
427	Car-Parrinello Simulation of Water at Supercritical Conditions. <i>Progress of Theoretical Physics Supplement</i> , 2000, 138, 259-261.	0.1	4
428	First Principles Molecular Dynamics Study of Catalysis for Polyolefins: the Ziegler-Natta Heterogeneous System.. <i>International Journal of Molecular Sciences</i> , 2002, 3, 395-406.	4.1	4
429	Evaluating functions of positive-definite matrices using colored-noise thermostats. <i>Physical Review E</i> , 2014, 89, 023302.	2.1	4
430	Application to large systems: general discussion. <i>Faraday Discussions</i> , 2016, 195, 671-698.	3.2	4
431	A local fingerprint for hydrophobicity and hydrophilicity: From methane to peptides. <i>Journal of Chemical Physics</i> , 2019, 150, 204103.	3.0	4
432	Variationally Enhanced Sampling. , 2020, , 621-634.		4

#	ARTICLE	IF	CITATIONS
433	Computing Rates and Understanding Unbinding Mechanisms in Host-Guest Systems. Journal of Chemical Theory and Computation, 2022, 18, 1314-1319.	5.3	4
434	A metadynamics perspective on the reduction mechanism of the Pt(IV) asplatin prodrug. Journal of Computational Chemistry, 2020, 41, 290-294.	3.3	3
435	Breviarium de Motu Simulato Ad Atomos Pertinenti. Israel Journal of Chemistry, 2022, 62, .	2.3	3
436	Solubility of Organic Salts in Solvent-Antisolvent Mixtures: A Combined Experimental and Molecular Dynamics Simulations Approach. Journal of Chemical Theory and Computation, 2022, 18, 4952-4959.	5.3	3
437	Passerone and Parrinello Reply:. Physical Review Letters, 2003, 90, .	7.8	2
438	Combined Computational and Experimental NMR Study of Calix[4]arene Derivatives. Journal of Physical Chemistry C, 2012, 116, 23441-23452.	3.1	1
439	Variationally Enhanced Sampling. , 2018, , 1-14.		1
440	Chemical order in amorphous covalent alloys. , 1993, , 379-383.		1
441	Ab-Initio Study of Amorphous and Liquid Carbon. , 1989, , 159-165.		0
442	Protein Conformational Plasticity: the α -off-on-Switching Movement in Cdk5. AIP Conference Proceedings, 2007, , .	0.4	0
443	A modified nudged elastic band algorithm with adaptive spring lengths. Journal of Chemical Physics, 2021, 155, 074103.	3.0	0
444	Car-Parrinello Density Functional Calculations of the Bond Rupture Process of Thiolate on Gold in AFM Measurements: Progress and First Results. , 2001, , 257-272.		0
445	First-Principles Molecular Dynamics. , 1990, , 731-743.		0
446	Modelling Nucleation and Growth of Lead Halide Perovskites. , 0, , .		0
447	Molecular Dynamics Simulations of Nucleation of Lead Halide Perovskites. , 0, , .		0
448	Modelling Nucleation and Growth of Lead Halide Perovskites. , 0, , .		0
449	Molecular Dynamics Simulations of Nucleation of Lead Halide Perovskites. , 0, , .		0