

Michiel Sprik

List of Publications by Year in descending order

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136
papers

11,822
citations

23567

58
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26613

107
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140
all docs

140
docs citations

140
times ranked

7599
citing authors

#	ARTICLE	IF	CITATIONS
1	Free energy from constrained molecular dynamics. <i>Journal of Chemical Physics</i> , 1998, 109, 7737-7744.	3.0	733
2	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
3	A polarizable model for water using distributed charge sites. <i>Journal of Chemical Physics</i> , 1988, 89, 7556-7560.	3.0	471
4	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
5	Molecular model for aqueous ferrous-ferric electron transfer. <i>Journal of Chemical Physics</i> , 1988, 89, 3248-3257.	3.0	417
6	The Silica-Water Interface: How the Silanols Determine the Surface Acidity and Modulate the Water Properties. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1037-1047.	5.3	352
7	Influence of surface topology and electrostatic potential on water/electrode systems. <i>Journal of Chemical Physics</i> , 1995, 102, 511-524.	3.0	332
8	New generalized gradient approximation functionals. <i>Journal of Chemical Physics</i> , 2000, 112, 1670-1678.	3.0	332
9	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
10	Ab Initio Molecular Dynamics Computation of the Infrared Spectrum of Aqueous Uracil. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10344-10358.	2.6	245
11	A density-functional study of the intermolecular interactions of benzene. <i>Journal of Chemical Physics</i> , 1996, 105, 8684-8689.	3.0	238
12	Alignment of electronic energy levels at electrochemical interfaces. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11245.	2.8	233
13	Electronic Structure and Solvation of Copper and Silver Ions: A Theoretical Picture of a Model Aqueous Redox Reaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 3928-3938.	13.7	196
14	Redox Potentials and Acidity Constants from Density Functional Theory Based Molecular Dynamics. <i>Accounts of Chemical Research</i> , 2014, 47, 3522-3529.	15.6	181
15	Acidity of edge surface sites of montmorillonite and kaolinite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 117, 180-190.	3.9	180
16	Acidity of the Aqueous Rutile TiO ₂ (110) Surface from Density Functional Theory Based Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 880-889.	5.3	179
17	Staging: A sampling technique for the Monte Carlo evaluation of path integrals. <i>Physical Review B</i> , 1985, 31, 4234-4244.	3.2	172
18	Key Steps of the cis-Platin-DNA Interaction: A Density Functional Theory-Based Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2000, 104, 823-835.	2.6	166

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19	Computation of the pK of liquid water using coordination constraints. <i>Chemical Physics</i> , 2000, 258, 139-150.	1.9	163
20	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
21	A molecular dynamics study of the hydroxyl radical in solution applying self-interaction-corrected density functional methods. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1363.	2.8	159
22	Redox potentials and pKa for benzoquinone from density functional theory based molecular dynamics. <i>Journal of Chemical Physics</i> , 2009, 131, 154504.	3.0	158
23	Hydrogen bonding and the static dielectric constant in liquid water. <i>Journal of Chemical Physics</i> , 1991, 95, 6762-6769.	3.0	145
24	Vibrational Sum Frequency Generation Spectroscopy of the Water Liquid-Vapor Interface from Density Functional Theory-Based Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 83-87.	4.6	142
25	Time dependent density functional theory study of charge-transfer and intramolecular electronic excitations in acetone-water systems. <i>Journal of Chemical Physics</i> , 2003, 119, 12417-12431.	3.0	136
26	Acidity constants from vertical energy gaps: density functional theory based molecular dynamics implementation. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5238.	2.8	131
27	Computer simulation of muonium in water. <i>Journal of Chemical Physics</i> , 1984, 80, 5719-5724.	3.0	118
28	Modeling the Oxygen Evolution Reaction on Metal Oxides: The Influence of Unrestricted DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4095-4102.	3.1	117
29	Aligning electronic energy levels at the $\langle \text{TiO} \rangle$ interface. <i>Physical Review B</i> , 2010, 82, .	3.2	115
30	The oxidation of tyrosine and tryptophan studied by a molecular dynamics normal hydrogen electrode. <i>Journal of Chemical Physics</i> , 2011, 134, 244508.	3.0	115
31	Molecular dynamics simulation of an aqueous sodium octanoate micelle using polarizable surfactant molecules. <i>Langmuir</i> , 1993, 9, 916-926.	3.5	113
32	Diabatic free energy curves and coordination fluctuations for the aqueous Ag ⁺ /Ag ²⁺ redox couple: A biased Born-Oppenheimer molecular dynamics investigation. <i>Journal of Chemical Physics</i> , 2006, 124, 064507.	3.0	112
33	Oxide/water interfaces: how the surface chemistry modifies interfacial water properties. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 124106.	1.8	107
34	Coordination numbers as reaction coordinates in constrained molecular dynamics. <i>Faraday Discussions</i> , 1998, 110, 437-445.	3.2	103
35	Density Functional Theory-Based Molecular Dynamics Simulation of Acid-Catalyzed Chemical Reactions in Liquid Trioxane. <i>Journal of the American Chemical Society</i> , 1997, 119, 7218-7229.	13.7	97
36	Orientational ordering in solid C70: Predictions from computer simulation. <i>Physical Review Letters</i> , 1992, 69, 1660-1663.	7.8	95

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37	Ab Initio Molecular Dynamics Study of the Reaction of Water with Formaldehyde in Sulfuric Acid Solution. <i>Journal of the American Chemical Society</i> , 1998, 120, 6345-6355.	13.7	90
38	Absolute acidity of clay edge sites from ab-initio simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 94, 1-11.	3.9	89
39	Calculation of Redox Properties: Understanding Short- and Long-Range Effects in Rubredoxin. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3969-3976.	2.6	88
40	Second-order elastic constants for the Lennard-Jones solid. <i>Physical Review B</i> , 1984, 29, 4368-4374.	3.2	87
41	Density-functional molecular-dynamics study of the redox reactions of two anionic, aqueous transition-metal complexes. <i>Journal of Chemical Physics</i> , 2005, 122, 234505.	3.0	86
42	Ab Initio Molecular Dynamics Simulation of the Aqueous Ru ²⁺ /Ru ³⁺ Redox Reaction: The Marcus Perspective. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6793-6804.	2.6	85
43	Identifying Trapped Electronic Holes at the Aqueous TiO ₂ Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5437-5444.	3.1	85
44	Optimization of a distributed Gaussian basis set using simulated annealing: Application to the adiabatic dynamics of the solvated electron. <i>Journal of Chemical Physics</i> , 1988, 89, 1592-1607.	3.0	84
45	Ionic solvation in nonaqueous solvents: the structure of lithium ion and chloride in methanol, ammonia, and methylamine. <i>Journal of the American Chemical Society</i> , 1987, 109, 5900-5904.	13.7	82
46	A Density Functional Study of the Addition of Water to SO ₃ in the Gas Phase and in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2893-2898.	2.5	82
47	Ab Initio Molecular Dynamics for Molecules with Variable Numbers of Electrons. <i>Physical Review Letters</i> , 2002, 88, 213002.	7.8	82
48	Electronic properties of hard and soft ions in solution: Aqueous Na ⁺ and Ag ⁺ compared. <i>Journal of Chemical Physics</i> , 2001, 115, 3454-3468.	3.0	79
49	Absolute p <i>K</i> _a Values and Solvation Structure of Amino Acids from Density Functional Based Molecular Dynamics Simulation. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1951-1961.	5.3	79
50	Aqueous Redox Chemistry and the Electronic Band Structure of Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3411-3415.	4.6	76
51	Aligning Electronic and Protonic Energy Levels of Proton-Coupled Electron Transfer in Water Oxidation on Aqueous TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12046-12050.	13.8	74
52	Effects of third-order susceptibility in sum frequency generation spectra: a molecular dynamics study in liquid water. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3040-3053.	2.8	74
53	Study of electron solvation in liquid ammonia using quantum path integral Monte Carlo calculations. <i>Journal of Chemical Physics</i> , 1985, 83, 5802-5809.	3.0	72
54	Surface acidity of 2:1-type dioctahedral clay minerals from first principles molecular dynamics simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 410-417.	3.9	72

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55	Ab Initio Molecular Dynamics Study of Uracil in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7458-7467.	2.6	67
56	Hole Localization and Thermochemistry of Oxidative Dehydrogenation of Aqueous Rutile TiO_2 (110). <i>ChemCatChem</i> , 2012, 4, 636-640.	3.7	65
57	Simulation of an excess electron in a hard sphere fluid. <i>Journal of Chemical Physics</i> , 1985, 83, 3042-3049.	3.0	63
58	Computing the Kirkwood $\langle i \rangle$ -Factor by Combining Constant Maxwell Electric Field and Electric Displacement Simulations: Application to the Dielectric Constant of Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2696-2701.	4.6	63
59	Understanding surface acidity of gibbsite with first principles molecular dynamics simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 487-495.	3.9	61
60	Thermal versus electronic broadening in the density of states of liquid water. <i>Chemical Physics Letters</i> , 2003, 376, 68-74.	2.6	59
61	Electron-Ion Interactions and Ionization in a Polar Solvent. <i>Physical Review Letters</i> , 1986, 56, 2326-2329.	7.8	58
62	The torsional potential of perfluoron α -alkanes: A density functional study. <i>Journal of Chemical Physics</i> , 1996, 104, 3692-3700.	3.0	56
63	Hartree-Fock exchange in time dependent density functional theory: application to charge transfer excitations in solvated molecular systems. <i>Chemical Physics Letters</i> , 2004, 394, 141-146.	2.6	54
64	Acidity constants from DFT-based molecular dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 284116.	1.8	54
65	Coupling of Surface Chemistry and Electric Double Layer at TiO_2 Electrochemical Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3871-3876.	4.6	53
66	A Classical Point Charge Model Study of System Size Dependence of Oxidation and Reorganization Free Energies in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2008, 112, 257-269.	2.6	49
67	Computing the dielectric constant of liquid water at constant dielectric displacement. <i>Physical Review B</i> , 2016, 93, .	3.2	49
68	Simulating Electrochemical Systems by Combining the Finite Field Method with a Constant Potential Electrode. <i>Physical Review Letters</i> , 2019, 123, 195501.	7.8	48
69	The Electron Attachment Energy of the Aqueous Hydroxyl Radical Predicted from the Detachment Energy of the Aqueous Hydroxide Anion. <i>Journal of the American Chemical Society</i> , 2009, 131, 6046-6047.	13.7	47
70	Free Energy of Oxidation of Metal Aqua Ions by an Enforced Change of Coordination. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6529-6535.	2.6	45
71	Computer simulation of a quantum particle in a quenched disordered system: Direct observation of Lifshitz traps. <i>Physical Review B</i> , 1985, 32, 545-547.	3.2	44
72	Density functional calculation of the electronic absorption spectrum of Cu^+ and Ag^+ aqua ions. <i>Journal of Chemical Physics</i> , 2004, 121, 11885-11899.	3.0	43

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73	Long-Range Solvent Effects on the Orbital Interaction Mechanism of Water Acidity Enhancement in Metal Ion Solutions: A Comparative Study of the Electronic Structure of Aqueous Mg and Zn Dications. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11444-11453.	2.6	43
74	Finite field methods for the supercell modeling of charged insulator/electrolyte interfaces. <i>Physical Review B</i> , 2016, 94, .	3.2	42
75	Theoretical pKa estimates for solvated P(OH) ₅ from coordination constrained CarParrinello molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2612-2618.	2.8	41
76	Structure of Solid Poly(tetrafluoroethylene): A Computer Simulation Study of Chain Orientational, Translational, and Conformational Disorder. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2745-2749.	2.6	40
77	Adiabatic dynamics of the solvated electron in liquid ammonia. <i>Journal of Chemical Physics</i> , 1989, 91, 5665-5671.	3.0	39
78	Solution Structures and Acidity Constants of Molybdic Acid. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2926-2930.	4.6	39
79	Density Functional Theory Study of Tetrathiafulvalene and Thianthrene in Acetonitrile: Structure, Dynamics, and Redox Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3614-3623.	2.6	38
80	Free energies of absorption of alkali ions onto beidellite and montmorillonite surfaces from constrained molecular dynamics simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 109-119.	3.9	38
81	Modelling electrochemical systems with finite field molecular dynamics. <i>JPhys Energy</i> , 2020, 2, 032005.	5.3	38
82	Redox free energies and one-electron energy levels in density functional theory based ab initio molecular dynamics. <i>Journal of Electroanalytical Chemistry</i> , 2007, 607, 113-120.	3.8	36
83	Ab initio molecular dynamics simulation of redox reactions in solution. <i>Computer Physics Communications</i> , 2005, 169, 256-261.	7.5	35
84	The ionization potential of aqueous hydroxide computed using many-body perturbation theory. <i>Journal of Chemical Physics</i> , 2014, 141, 034501.	3.0	35
85	Interfacial structures and acidity of edge surfaces of ferruginous smectites. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 293-301.	3.9	34
86	Constrained reaction coordinate dynamics for systems with constraints. <i>Molecular Physics</i> , 2003, 101, 2885-2894.	1.7	31
87	On the Position of the Highest Occupied Molecular Orbital in Aqueous Solutions of Simple Ions. <i>ChemPhysChem</i> , 2005, 6, 1805-1808.	2.1	31
88	Electron attachment to ammonia clusters: A study using path integral Monte Carlo calculations. <i>Journal of Chemical Physics</i> , 1988, 89, 4918-4923.	3.0	30
89	Electronic excitation spectra from time-dependent density functional response theory using plane-wave methods. <i>Chemical Physics Letters</i> , 2000, 330, 563-569.	2.6	30
90	Toward a Monte Carlo program for simulating vapor-liquid phase equilibria from first principles. <i>Computer Physics Communications</i> , 2005, 169, 289-294.	7.5	29

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91	From Solvent Fluctuations to Quantitative Redox Properties of Quinones in Methanol and Acetonitrile. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1936-1938.	13.8	29
92	Ligand Field Effects on the Aqueous Ru(III)/Ru(II) Redox Couple from an All-Atom Density Functional Theory Perspective. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 1403-1415.	5.3	28
93	Simulation of the cubic to orthorhombic phase transition in potassium cyanide. <i>Journal of Chemical Physics</i> , 1985, 83, 3638-3644.	3.0	27
94	Free energy calculation of water addition coupled to reduction of aqueous RuO ₄ ²⁻ . <i>Journal of Chemical Physics</i> , 2007, 126, 204506.	3.0	27
95	Solvation of electrons, atoms and ions in liquid ammonia. <i>Faraday Discussions of the Chemical Society</i> , 1988, 85, 373.	2.2	26
96	Aqueous Transition-Metal Cations as Impurities in a Wide Gap Oxide: The Cu ²⁺ /Cu ⁺ and Ag ²⁺ /Ag ⁺ Redox Couples Revisited. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1152-1163.	2.6	24
97	Ab initio molecular dynamics simulation of liquids and solutions. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 9405-9409.	1.8	23
98	Pressure Effects on Hydrogen Bonding in the Disordered Phase of Solid HBr. <i>Physical Review Letters</i> , 1998, 81, 4416-4419.	7.8	22
99	Temperature dependence of interfacial structures and acidity of clay edge surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 160, 91-99.	3.9	22
100	Pressure-induced structural and chemical changes of solid HBr. <i>Journal of Chemical Physics</i> , 1999, 111, 1595-1607.	3.0	21
101	Living polymers Ab initio molecular dynamics study of the initiation step in the polymerization of isoprene induced by ethyl lithium. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 501-508.	1.7	20
102	Reductive Hydrogenation of the Aqueous Rutile TiO ₂ (110) Surface. <i>Electrochimica Acta</i> , 2015, 179, 658-667.	5.2	20
103	Density Functional Theory Calculation of the Band Alignment of (101̄...0) In _x Ga _{1-x} N/Water Interfaces. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1928-1939.	2.6	20
104	Hydration, acidity and metal complexing of polysulfide species: A first principles molecular dynamics study. <i>Chemical Physics Letters</i> , 2013, 563, 9-14.	2.6	19
105	Finite electric displacement simulations of polar ionic solid-electrolyte interfaces: Application to NaCl(111)/aqueous NaCl solution. <i>Journal of Chemical Physics</i> , 2019, 150, 041716.	3.0	19
106	Application of path integral simulations to the study of electron solvation in polar fluids. <i>Computer Physics Reports</i> , 1988, 7, 147-166.	2.2	17
107	Computing Surface Acidity Constants of Proton Hopping Groups from Density Functional Theory-Based Molecular Dynamics: Application to the SnO ₂ (110)/H ₂ O Interface. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6520-6527.	5.3	16
108	Molecular Simulation Study of Hydrated Na-Rectorite. <i>Langmuir</i> , 2015, 31, 2008-2013.	3.5	15

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109	Electronic Energy Levels and Band Alignment for Aqueous Phenol and Phenolate from First Principles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9651-9660.	2.6	15
110	Charge compensation at the interface between the polar NaCl(111) surface and a NaCl aqueous solution. <i>Journal of Chemical Physics</i> , 2017, 147, 104702.	3.0	15
111	Finite field formalism for bulk electrolyte solutions. <i>Journal of Chemical Physics</i> , 2019, 151, .	3.0	15
112	Computational Amperometry of Nanoscale Capacitors in Molecular Simulations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4357-4361.	4.6	15
113	Finite Maxwell field and electric displacement Hamiltonians derived from a current dependent Lagrangian. <i>Molecular Physics</i> , 2018, 116, 3114-3120.	1.7	14
114	Thermodynamic Investigation of Proton/Electron Interplay on the Pourbaix Diagram at the TiO ₂ /Electrolyte Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19003-19014.	3.1	14
115	Electromechanics of the liquid water vapour interface. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10676-10686.	2.8	14
116	Orientational ordering in solid parahydrogen and orthodeuterium. <i>Journal of Chemical Physics</i> , 1984, 81, 6207-6213.	3.0	13
117	First Principles Study of Alkali ⁺ Tyrosine Complexes: Alkali Solvation and Redox Properties. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1049-1056.	5.3	13
118	Ab initiomolecular dynamics simulation of liquids and solutions. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A161-A163.	1.8	12
119	Molecular dynamics study of electron gas models for liquid water. <i>Molecular Physics</i> , 2003, 101, 1183-1198.	1.7	12
120	Activation energy for a model ferrous-ferric half reaction from transition path sampling. <i>Journal of Chemical Physics</i> , 2012, 136, 034506.	3.0	11
121	Editorial: A Tribute to Michele Parrinello: From Physics via Chemistry to Biology. <i>ChemPhysChem</i> , 2005, 6, 1671-1676.	2.1	9
122	A correlated variational wave function for the orientational ground state of solid methane. <i>Journal of Chemical Physics</i> , 1984, 80, 1988-1999.	3.0	8
123	Folding of model heteropolymers by configurational-bias Monte Carlo. <i>Chemical Physics Letters</i> , 1992, 199, 220-224.	2.6	8
124	Competing interactions in self-assembled monolayers containing peptide groups: molecular dynamics studies of long-chain perfluoro mercaptans on Au(111). <i>Journal of Materials Chemistry</i> , 1994, 4, 793-803.	6.7	8
125	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
126	Time-Dependent Density Functional Theory Description of On-Site Electron Repulsion and Ligand Field Effects in the Optical Spectrum of Hexaaquoruthenium(II) in Solution. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12222-12226.	2.6	7

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127	Electron Transfer Properties from Atomistic Simulations and Density Functional Theory. <i>Chimia</i> , 2007, 61, 155-158.	0.6	6
128	Pressure-induced structural changes of HBr. <i>Physica B: Condensed Matter</i> , 1999, 265, 101-104.	2.7	5
129	Electric-field-based Poisson-Boltzmann theory: Treating mobile charge as polarization. <i>Physical Review E</i> , 2021, 103, 022803.	2.1	4
130	Solute-Solvent Charge-Transfer Excitations and Optical Absorption of Hydrated Hydroxide from Time-Dependent Density-Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2465-2470.	5.3	3
131	The temperature dependence of the symmetry factor for a model $\text{Fe}^{3+}(\text{aq})/\text{Fe}^{2+}(\text{aq})$ redox half reaction. <i>Molecular Physics</i> , 2015, 113, 2463-2475.	1.7	3
132	Band positions of anatase (001) and (101) surfaces in contact with water from density functional theory. <i>Journal of Chemical Physics</i> , 2020, 152, 194706.	3.0	3
133	Chemomechanical equilibrium at the interface between a simple elastic solid and its liquid phase. <i>Journal of Chemical Physics</i> , 2021, 155, 244701.	3.0	3
134	Ordering of fractional monolayers of H ₂ O on Ni(110). <i>Surface Science Letters</i> , 1992, 279, L185-L190.	0.1	0
135	Density functional techniques for simulation of chemical reactions. , 1998, , .		0
136	Reactive liquids from first principles. <i>Europhysics News</i> , 2000, 31, 9-10.	0.3	0