

# Michiel Sprik

## List of Publications by Year in descending order

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136  
papers

11,822  
citations

23567

58  
h-index

26613

107  
g-index

140  
all docs

140  
docs citations

140  
times ranked

7599  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field-based Poisson-Boltzmann theory: Treating mobile charge as polarization. Physical Review E, 2021, 103, 022803.	2.1	4
2	Computational Amperometry of Nanoscale Capacitors in Molecular Simulations. Journal of Physical Chemistry Letters, 2021, 12, 4357-4361.	4.6	15
3	Chemomechanical equilibrium at the interface between a simple elastic solid and its liquid phase. Journal of Chemical Physics, 2021, 155, 244701.	3.0	3
4	Thermodynamic Investigation of Proton/Electron Interplay on the Pourbaix Diagram at the TiO <sub>2</sub> /Electrolyte Interface. Journal of Physical Chemistry C, 2020, 124, 19003-19014.	3.1	14
5	Computing Surface Acidity Constants of Proton Hopping Groups from Density Functional Theory-Based Molecular Dynamics: Application to the SnO <sub>2</sub> (110)/H <sub>2</sub> O Interface. Journal of Chemical Theory and Computation, 2020, 16, 6520-6527.	5.3	16
6	Band positions of anatase (001) and (101) surfaces in contact with water from density functional theory. Journal of Chemical Physics, 2020, 152, 194706.	3.0	3
7	Electromechanics of the liquid water vapour interface. Physical Chemistry Chemical Physics, 2020, 22, 10676-10686.	2.8	14
8	Modelling electrochemical systems with finite field molecular dynamics. JPhys Energy, 2020, 2, 032005.	5.3	38
9	Finite field formalism for bulk electrolyte solutions. Journal of Chemical Physics, 2019, 151, .	3.0	15
10	Simulating Electrochemical Systems by Combining the Finite Field Method with a Constant Potential Electrode. Physical Review Letters, 2019, 123, 195501.	7.8	48
11	Coupling of Surface Chemistry and Electric Double Layer at TiO <sub>2</sub> Electrochemical Interfaces. Journal of Physical Chemistry Letters, 2019, 10, 3871-3876.	4.6	53
12	Finite electric displacement simulations of polar ionic solid-electrolyte interfaces: Application to NaCl(111)/aqueous NaCl solution. Journal of Chemical Physics, 2019, 150, 041716.	3.0	19
13	Finite Maxwell field and electric displacement Hamiltonians derived from a current dependent Lagrangian. Molecular Physics, 2018, 116, 3114-3120.	1.7	14
14	Effects of third-order susceptibility in sum frequency generation spectra: a molecular dynamics study in liquid water. Physical Chemistry Chemical Physics, 2018, 20, 3040-3053.	2.8	74
15	Charge compensation at the interface between the polar NaCl(111) surface and a NaCl aqueous solution. Journal of Chemical Physics, 2017, 147, 104702.	3.0	15
16	Computing the Kirkwood <i>g</i> -Factor by Combining Constant Maxwell Electric Field and Electric Displacement Simulations: Application to the Dielectric Constant of Liquid Water. Journal of Physical Chemistry Letters, 2016, 7, 2696-2701.	4.6	63
17	Finite field methods for the supercell modeling of charged insulator/electrolyte interfaces. Physical Review B, 2016, 94, .	3.2	42
18	Computing the dielectric constant of liquid water at constant dielectric displacement. Physical Review B, 2016, 93, .	3.2	49

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19	Density Functional Theory Calculation of the Band Alignment of (101̄...0) In<sub>x</sub>Ga<sub>1-x</sub>N/Water Interfaces. Journal of Physical Chemistry B, 2016, 120, 1928-1939.	2.6	20
20	Reductive Hydrogenation of the Aqueous Rutile TiO <sub>2</sub> (110) Surface. Electrochimica Acta, 2015, 179, 658-667.	5.2	20
21	The temperature dependence of the symmetry factor for a model Fe<sup>3+</sup>(aq)/Fe<sup>2+</sup>(aq) redox half reaction. Molecular Physics, 2015, 113, 2463-2475.	1.7	3
22	Molecular Simulation Study of Hydrated Na-Rectorite. Langmuir, 2015, 31, 2008-2013.	3.5	15
23	Electronic Energy Levels and Band Alignment for Aqueous Phenol and Phenolate from First Principles. Journal of Physical Chemistry B, 2015, 119, 9651-9660.	2.6	15
24	Temperature dependence of interfacial structures and acidity of clay edge surfaces. Geochimica Et Cosmochimica Acta, 2015, 160, 91-99.	3.9	22
25	Interfacial structures and acidity of edge surfaces of ferruginous smectites. Geochimica Et Cosmochimica Acta, 2015, 168, 293-301.	3.9	34
26	Aqueous Transition-Metal Cations as Impurities in a Wide Gap Oxide: The Cu<sup>2+</sup>/Cu<sup>+</sup> and Ag<sup>2+</sup>/Ag<sup>+</sup> Redox Couples Revisited. Journal of Physical Chemistry B, 2015, 119, 1152-1163.	2.6	24
27	The ionization potential of aqueous hydroxide computed using many-body perturbation theory. Journal of Chemical Physics, 2014, 141, 034501.	3.0	35
28	Aligning Electronic and Protonic Energy Levels of Proton-Coupled Electron Transfer in Water Oxidation on Aqueous TiO <sub>2</sub> . Angewandte Chemie - International Edition, 2014, 53, 12046-12050.	13.8	74
29	Modeling the Oxygen Evolution Reaction on Metal Oxides: The Influence of Unrestricted DFT Calculations. Journal of Physical Chemistry C, 2014, 118, 4095-4102.	3.1	117
30	Redox Potentials and Acidity Constants from Density Functional Theory Based Molecular Dynamics. Accounts of Chemical Research, 2014, 47, 3522-3529.	15.6	181
31	Identifying Trapped Electronic Holes at the Aqueous TiO <sub>2</sub> Interface. Journal of Physical Chemistry C, 2014, 118, 5437-5444.	3.1	85
32	Solute-Solvent Charge-Transfer Excitations and Optical Absorption of Hydrated Hydroxide from Time-Dependent Density-Functional Theory. Journal of Chemical Theory and Computation, 2014, 10, 2465-2470.	5.3	3
33	Surface acidity of 2:1-type dioctahedral clay minerals from first principles molecular dynamics simulations. Geochimica Et Cosmochimica Acta, 2014, 140, 410-417.	3.9	72
34	Understanding surface acidity of gibbsite with first principles molecular dynamics simulations. Geochimica Et Cosmochimica Acta, 2013, 120, 487-495.	3.9	61
35	Acidity of edge surface sites of montmorillonite and kaolinite. Geochimica Et Cosmochimica Acta, 2013, 117, 180-190.	3.9	180
36	Hydration, acidity and metal complexing of polysulfide species: A first principles molecular dynamics study. Chemical Physics Letters, 2013, 563, 9-14.	2.6	19

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37	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
38	Solution Structures and Acidity Constants of Molybdic Acid. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2926-2930.	4.6	39
39	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
40	Alignment of electronic energy levels at electrochemical interfaces. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11245.	2.8	233
41	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
42	Absolute acidity of clay edge sites from ab-initio simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 94, 1-11.	3.9	89
43	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
44	Oxide/water interfaces: how the surface chemistry modifies interfacial water properties. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 124106.	1.8	107
45	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
46	Hole Localization and Thermochemistry of Oxidative Dehydrogenation of Aqueous Rutile $\text{TiO}_2$ (110). <i>ChemCatChem</i> , 2012, 4, 636-640.	3.7	65
47	Absolute $pK_a$ 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
48	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
49	Acidity constants from DFT-based molecular dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 284116.	1.8	54
50	Aligning electronic energy levels at the $\text{TiO}_2$ (110) surface. <i>Physical Review B</i> , 2010, 82, .	3.2	115
51	Acidity of the Aqueous Rutile $\text{TiO}_2$ (110) Surface from Density Functional Theory Based Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 880-889.	5.3	179
52	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
53	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
54	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

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55	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
56	First Principles Study of Alkali <sup>+</sup> Tyrosine Complexes: Alkali Solvation and Redox Properties. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1049-1056.	5.3	13
57	Free energy calculation of water addition coupled to reduction of aqueous RuO <sub>4</sub> <sup>-</sup> . <i>Journal of Chemical Physics</i> , 2007, 126, 204506.	3.0	27
58	Electron Transfer Properties from Atomistic Simulations and Density Functional Theory. <i>Chimia</i> , 2007, 61, 155-158.	0.6	6
59	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
60	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
61	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
62	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
63	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
64	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
65	Diabatic free energy curves and coordination fluctuations for the aqueous Ag <sup>+</sup> •Ag <sup>2+</sup> redox couple: A biased Born-Oppenheimer molecular dynamics investigation. <i>Journal of Chemical Physics</i> , 2006, 124, 064507.	3.0	112
66	Ab initio molecular dynamics simulation of redox reactions in solution. <i>Computer Physics Communications</i> , 2005, 169, 256-261.	7.5	35
67	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
68	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
69	Editorial: A Tribute to Michele Parrinello: From Physics via Chemistry to Biology. <i>ChemPhysChem</i> , 2005, 6, 1671-1676.	2.1	9
70	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
71	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
72	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

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73	Ab Initio Molecular Dynamics Simulation of the Aqueous Ru <sup>2+</sup> /Ru <sup>3+</sup> Redox Reaction: The Marcus Perspective. Journal of Physical Chemistry B, 2005, 109, 6793-6804.	2.6	85
74	Time-Dependent Density Functional Theory Description of On-Site Electron Repulsion and Ligand Field Effects in the Optical Spectrum of Hexaaquoruthenium(II) in Solution. Journal of Physical Chemistry B, 2005, 109, 12222-12226.	2.6	7
75	Density functional calculation of the electronic absorption spectrum of Cu <sup>+</sup> and Ag <sup>+</sup> aqua ions. Journal of Chemical Physics, 2004, 121, 11885-11899.	3.0	43
76	Hartree-Fock exchange in time dependent density functional theory: application to charge transfer excitations in solvated molecular systems. Chemical Physics Letters, 2004, 394, 141-146.	2.6	54
77	Free Energy of Oxidation of Metal Aqua Ions by an Enforced Change of Coordination. Journal of Physical Chemistry B, 2004, 108, 6529-6535.	2.6	45
78	Ab Initio Molecular Dynamics Study of Uracil in Aqueous Solution. Journal of Physical Chemistry B, 2004, 108, 7458-7467.	2.6	67
79	Electronic Structure and Solvation of Copper and Silver Ions: A Theoretical Picture of a Model Aqueous Redox Reaction. Journal of the American Chemical Society, 2004, 126, 3928-3938.	13.7	196
80	Liquid Water from First Principles: Investigation of Different Sampling Approaches. Journal of Physical Chemistry B, 2004, 108, 12990-12998.	2.6	327
81	Time dependent density functional theory study of charge-transfer and intramolecular electronic excitations in acetone-water systems. Journal of Chemical Physics, 2003, 119, 12417-12431.	3.0	136
82	Thermal versus electronic broadening in the density of states of liquid water. Chemical Physics Letters, 2003, 376, 68-74.	2.6	59
83	Ab Initio Molecular Dynamics Computation of the Infrared Spectrum of Aqueous Uracil. Journal of Physical Chemistry B, 2003, 107, 10344-10358.	2.6	245
84	Theoretical pK <sub>a</sub> estimates for solvated P(OH) <sub>5</sub> from coordination constrained Car-Parrinello molecular dynamics. Physical Chemistry Chemical Physics, 2003, 5, 2612-2618.	2.8	41
85	Molecular dynamics study of electron gas models for liquid water. Molecular Physics, 2003, 101, 1183-1198.	1.7	12
86	Constrained reaction coordinate dynamics for systems with constraints. Molecular Physics, 2003, 101, 2885-2894.	1.7	31
87	Ab Initio Molecular Dynamics for Molecules with Variable Numbers of Electrons. Physical Review Letters, 2002, 88, 213002.	7.8	82
88	Electronic properties of hard and soft ions in solution: Aqueous Na <sup>+</sup> and Ag <sup>+</sup> compared. Journal of Chemical Physics, 2001, 115, 3454-3468.	3.0	79
89	Computation of the pK of liquid water using coordination constraints. Chemical Physics, 2000, 258, 139-150.	1.9	163
90	Electronic excitation spectra from time-dependent density functional response theory using plane-wave methods. Chemical Physics Letters, 2000, 330, 563-569.	2.6	30

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91	Reactive liquids from first principles. Europhysics News, 2000, 31, 9-10.	0.3	0
92	Ab initio molecular dynamics simulation of liquids and solutions. Journal of Physics Condensed Matter, 2000, 12, A161-A163.	1.8	12
93	Key Steps of the cis-Platin-DNA Interaction: A Density Functional Theory-Based Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2000, 104, 823-835.	2.6	166
94	Hydrogen Elimination and Solid-State Reaction in Hydrogen-Bonded Systems under Pressure: The Case of HBr. Journal of Physical Chemistry B, 2000, 104, 11801-11804.	2.6	7
95	New generalized gradient approximation functionals. Journal of Chemical Physics, 2000, 112, 1670-1678.	3.0	332
96	Pressure-induced structural changes of HBr. Physica B: Condensed Matter, 1999, 265, 101-104.	2.7	5
97	Pressure-induced structural and chemical changes of solid HBr. Journal of Chemical Physics, 1999, 111, 1595-1607.	3.0	21
98	Ab Initio Molecular Dynamics Study of the Reaction of Water with Formaldehyde in Sulfuric Acid Solution. Journal of the American Chemical Society, 1998, 120, 6345-6355.	13.7	90
99	Coordination numbers as reaction coordinates in constrained molecular dynamics. Faraday Discussions, 1998, 110, 437-445.	3.2	103
100	Living polymers Ab initio molecular dynamics study of the initiation step in the polymerization of isoprene induced by ethyl lithium. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 501-508.	1.7	20
101	A Density Functional Study of the Addition of Water to SO <sub>3</sub> in the Gas Phase and in Aqueous Solution. Journal of Physical Chemistry A, 1998, 102, 2893-2898.	2.5	82
102	Free energy from constrained molecular dynamics. Journal of Chemical Physics, 1998, 109, 7737-7744.	3.0	733
103	Density functional techniques for simulation of chemical reactions. , 1998, , .		0
104	Pressure Effects on Hydrogen Bonding in the Disordered Phase of Solid HBr. Physical Review Letters, 1998, 81, 4416-4419.	7.8	22
105	Structure of Solid Poly(tetrafluoroethylene): A Computer Simulation Study of Chain Orientational, Translational, and Conformational Disorder. Journal of Physical Chemistry B, 1997, 101, 2745-2749.	2.6	40
106	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
107	Ab initio molecular dynamics of ion solvation. The case of Be <sup>2+</sup> in water. Chemical Physics Letters, 1997, 273, 360-366.	2.6	159
108	Ab initio molecular dynamics simulation of liquid water: Comparison of three gradient-corrected density functionals. Journal of Chemical Physics, 1996, 105, 1142-1152.	3.0	597



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109	A density-functional study of the intermolecular interactions of benzene. <i>Journal of Chemical Physics</i> , 1996, 105, 8684-8689.	3.0	238
110	The torsional potential of perfluoron-alkanes: A density functional study. <i>Journal of Chemical Physics</i> , 1996, 104, 3692-3700.	3.0	56
111	Ab initiomolecular dynamics simulation of liquids and solutions. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 9405-9409.	1.8	23
112	Influence of surface topology and electrostatic potential on water/electrode systems. <i>Journal of Chemical Physics</i> , 1995, 102, 511-524.	3.0	332
113	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
114	Molecular dynamics simulation of an aqueous sodium octanoate micelle using polarizable surfactant molecules. <i>Langmuir</i> , 1993, 9, 916-926.	3.5	113
115	Orientational ordering in solid C70: Predictions from computer simulation. <i>Physical Review Letters</i> , 1992, 69, 1660-1663.	7.8	95
116	Ordering of fractional monolayers of H2O on Ni(110). <i>Surface Science Letters</i> , 1992, 279, L185-L190.	0.1	0
117	Folding of model heteropolymers by configurational-bias Monte Carlo. <i>Chemical Physics Letters</i> , 1992, 199, 220-224.	2.6	8
118	Hydrogen bonding and the static dielectric constant in liquid water. <i>Journal of Chemical Physics</i> , 1991, 95, 6762-6769.	3.0	145
119	Adiabatic dynamics of the solvated electron in liquid ammonia. <i>Journal of Chemical Physics</i> , 1989, 91, 5665-5671.	3.0	39
120	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
121	A polarizable model for water using distributed charge sites. <i>Journal of Chemical Physics</i> , 1988, 89, 7556-7560.	3.0	471
122	Molecular model for aqueous ferrous-ferric electron transfer. <i>Journal of Chemical Physics</i> , 1988, 89, 3248-3257.	3.0	417
123	Solvation of electrons, atoms and ions in liquid ammonia. <i>Faraday Discussions of the Chemical Society</i> , 1988, 85, 373.	2.2	26
124	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
125	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
126	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



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127	Electron-Ion Interactions and Ionization in a Polar Solvent. <i>Physical Review Letters</i> , 1986, 56, 2326-2329.	7.8	58
128	Staging: A sampling technique for the Monte Carlo evaluation of path integrals. <i>Physical Review B</i> , 1985, 31, 4234-4244.	3.2	172
129	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
130	Simulation of an excess electron in a hard sphere fluid. <i>Journal of Chemical Physics</i> , 1985, 83, 3042-3049.	3.0	63
131	Simulation of the cubic to orthorhombic phase transition in potassium cyanide. <i>Journal of Chemical Physics</i> , 1985, 83, 3638-3644.	3.0	27
132	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
133	Computer simulation of muonium in water. <i>Journal of Chemical Physics</i> , 1984, 80, 5719-5724.	3.0	118
134	Orientalional ordering in solid parahydrogen and orthodeuterium. <i>Journal of Chemical Physics</i> , 1984, 81, 6207-6213.	3.0	13
135	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
136	Second-order elastic constants for the Lennard-Jones solid. <i>Physical Review B</i> , 1984, 29, 4368-4374.	3.2	87