

Niall J English

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

255
papers

5,764
citations

45
h-index

64
g-index

266
ext. papers

6,572
ext. citations

4.3
avg, IF

6.62
L-index

#	Paper	IF	Citations
255	Photo-induced charge separation across the graphene-TiO ₂ interface is faster than energy losses: a time-domain ab initio analysis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14238-48	16.4	206
254	Gas hydrates in sustainable chemistry. <i>Chemical Society Reviews</i> , 2020 , 49, 5225-5309	58.5	186
253	Perspectives on external electric fields in molecular simulation: progress, prospects and challenges. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12407-40	3.6	140
252	Perspectives on molecular simulation of clathrate hydrates: Progress, prospects and challenges. <i>Chemical Engineering Science</i> , 2015 , 121, 133-156	4.4	137
251	Synergistic Effects on Band Gap-Narrowing in Titania by Codoping from First-Principles Calculations. <i>Chemistry of Materials</i> , 2010 , 22, 1616-1623	9.6	118
250	Molecular dynamics simulations of microwave heating of water. <i>Journal of Chemical Physics</i> , 2003 , 118, 1589-1592	3.9	115
249	Molecular-dynamics simulations of methane hydrate dissociation. <i>Journal of Chemical Physics</i> , 2005 , 123, 244503	3.9	114
248	Theoretical studies of the kinetics of methane hydrate crystallization in external electromagnetic fields. <i>Journal of Chemical Physics</i> , 2004 , 120, 10247-56	3.9	112
247	First-principles calculation of nitrogen-tungsten codoping effects on the band structure of anatase-titania. <i>Applied Physics Letters</i> , 2009 , 94, 132102	3.4	104
246	Hydrogen bonding and molecular mobility in liquid water in external electromagnetic fields. <i>Journal of Chemical Physics</i> , 2003 , 119, 11806-11813	3.9	96
245	Thermal conductivity of methane hydrate from experiment and molecular simulation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13194-205	3.4	90
244	Band gap engineering of (N,Ta)-codoped TiO ₂ : A first-principles calculation. <i>Chemical Physics Letters</i> , 2009 , 478, 175-179	2.5	86
243	Structural and dynamical properties of methane clathrate hydrates. <i>Journal of Computational Chemistry</i> , 2003 , 24, 1569-81	3.5	83
242	Denaturation of hen egg white lysozyme in electromagnetic fields: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2007 , 126, 091105	3.9	74
241	Methane Clathrate Hydrate Nucleation Mechanism by Advanced Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22847-22857	3.8	72
240	Controlled semiconductor nanorod assembly from solution: influence of concentration, charge and solvent nature. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1562-1569		72
239	Molecular dynamics study of water in contact with the TiO ₂ rutile-110, 100, 101, 001 and anatase-101, 001 surface. <i>Molecular Physics</i> , 2011 , 109, 1649-1656	1.7	72

238	Magnetic properties of first-row element-doped ZnS semiconductors: A density functional theory investigation. <i>Physical Review B</i> , 2009 , 80,	3.3	72
237	Molecular dynamics study of thermal-driven methane hydrate dissociation. <i>Journal of Chemical Physics</i> , 2009 , 131, 074704	3.9	71
236	Determining the appropriate exchange-correlation functional for time-dependent density functional theory studies of charge-transfer excitations in organic dyes. <i>Journal of Chemical Physics</i> , 2012 , 136, 224301	3.9	70
235	Nonequilibrium molecular dynamics study of electric and low-frequency microwave fields on hen egg white lysozyme. <i>Journal of Chemical Physics</i> , 2009 , 131, 035106	3.9	66
234	Mechanisms for thermal conduction in methane hydrate. <i>Physical Review Letters</i> , 2009 , 103, 015901	7.4	64
233	Diffusivity and Mobility of Adsorbed Water Layers at TiO ₂ Rutile and Anatase Interfaces. <i>Crystals</i> , 2016 , 6, 1	2.3	64
232	Defects are needed for fast photo-induced electron transfer from a nanocrystal to a molecule: time-domain ab initio analysis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18892-900	16.4	58
231	Density fluctuations in liquid water. <i>Physical Review Letters</i> , 2011 , 106, 037801	7.4	58
230	Molecular dynamics simulations of microwave effects on water using different long-range electrostatics methodologies. <i>Molecular Physics</i> , 2006 , 104, 243-253	1.7	57
229	Minimizing Electron-Hole Recombination on TiO ₂ Sensitized with PbSe Quantum Dots: Time-Domain Ab Initio Analysis. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2941-6	6.4	55
228	Highly ordered nanorod assemblies extending over device scale areas and in controlled multilayers by electrophoretic deposition. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1608-15	3.4	55
227	Carbon nanotube assisted water self-diffusion across lipid membranes in the absence and presence of electric fields. <i>Molecular Simulation</i> , 2009 , 35, 3-12	2	53
226	Hydrogen bond perturbation in hen egg white lysozyme by external electromagnetic fields: a nonequilibrium molecular dynamics study. <i>Journal of Chemical Physics</i> , 2010 , 133, 235102	3.9	52
225	Mechanisms for thermal conduction in various polymorphs of methane hydrate. <i>Physical Review B</i> , 2009 , 80,	3.3	52
224	First-Principles Calculation of Synergistic (N, P)-Codoping Effects on the Visible-Light Photocatalytic Activity of Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11984-11990	3.8	51
223	First-principles study of the excited-state properties of coumarin-derived dyes in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11101		51
222	Perspectives on atmospheric CO ₂ fixation in inorganic and biomimetic structures. <i>Coordination Chemistry Reviews</i> , 2014 , 269, 85-95	23.2	49
221	Human aquaporin 4 gating dynamics under and after nanosecond-scale static and alternating electric-field impulses: a molecular dynamics study of field effects and relaxation. <i>Journal of Chemical Physics</i> , 2013 , 139, 205101	3.9	49

220	Massively parallel molecular dynamics simulation of formation of clathrate-hydrate precursors at planar water-methane interfaces: insights into heterogeneous nucleation. <i>Journal of Chemical Physics</i> , 2014 , 140, 204714	3.9	48
219	Tailoring the electronic structure of TiO ₂ by cation codoping from hybrid density functional theory calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	48
218	Prediction of Henry's law constants by a quantitative structure property relationship and neural networks. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 1150-61		48
217	Photo-active and optical properties of bismuth ferrite (BiFeO ₃): An experimental and theoretical study. <i>Chemical Physics Letters</i> , 2013 , 572, 78-84	2.5	47
216	Functional assessment for predicting charge-transfer excitations of dyes in complexed state: a study of triphenylamine-donor dyes on titania for dye-sensitized solar cells. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2114-24	2.8	47
215	Synergistic Effects of Bi/S Codoping on Visible Light-Activated Anatase TiO ₂ Photocatalysts from First Principles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8373-8377	3.8	46
214	Molecular dynamics simulations of liquid water using various long-range electrostatics techniques. <i>Molecular Physics</i> , 2005 , 103, 1945-1960	1.7	46
213	Human aquaporin 4 gating dynamics in dc and ac electric fields: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2011 , 134, 055110	3.9	45
212	Static and alternating electric field and distance-dependent effects on carbon nanotube-assisted water self-diffusion across lipid membranes. <i>Journal of Chemical Physics</i> , 2009 , 131, 114508	3.9	45
211	Effect of electrostatics techniques on the estimation of thermal conductivity via equilibrium molecular dynamics simulation: application to methane hydrate. <i>Molecular Physics</i> , 2008 , 106, 1887-1898	1.7	45
210	Atomistic simulations of liquid water using Lekner electrostatics. <i>Molecular Physics</i> , 2002 , 100, 3753-3762	2.7	42
209	Diffusive hydrogen inter-cage migration in hydrogen and hydrogen-tetrahydrofuran clathrate hydrates. <i>Journal of Chemical Physics</i> , 2013 , 138, 094507	3.9	41
208	Massive generation of metastable bulk nanobubbles in water by external electric fields. <i>Science Advances</i> , 2020 , 6, eaaz0094	14.3	38
207	A TD-DFT study of the effects of structural variations on the photochemistry of polyene dyes. <i>Chemical Science</i> , 2012 , 3, 416-424	9.4	38
206	Band gap engineering of double-cation-impurity-doped anatase-titania for visible-light photocatalysts: a hybrid density functional theory approach. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13698-703	3.6	36
205	Density functional theory description of the mechanism of ferromagnetism in nitrogen-doped SnO ₂ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 374, 319-322	2.3	36
204	Free-Energy Calculations of the Intercage Hopping Barriers of Hydrogen Molecules in Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16561-16567	3.8	35
203	Electronic structure of cation-codoped TiO ₂ for visible-light photocatalyst applications from hybrid density functional theory calculations. <i>Applied Physics Letters</i> , 2011 , 98, 142103	3.4	35

202	Communication: Influence of external static and alternating electric fields on water from long-time non-equilibrium ab initio molecular dynamics. <i>Journal of Chemical Physics</i> , 2017 , 147, 031102	3.9	34
201	Molecular dynamics study of CO ₂ hydrate dissociation: Fluctuation-dissipation and non-equilibrium analysis. <i>Journal of Chemical Physics</i> , 2013 , 139, 094701	3.9	33
200	Dipolar response and hydrogen-bond kinetics in liquid water in square-wave time-varying electric fields. <i>Molecular Physics</i> , 2014 , 112, 1870-1878	1.7	33
199	Exploring Rutile (110) and Anatase (101) TiO ₂ Water Interfaces by Reactive Force-Field Simulations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6701-6711	3.8	32
198	Electric-Field Effects on Adsorbed-Water Structural and Dynamical Properties at Rutile- and Anatase-TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19603-19612	3.8	32
197	Electromagnetic-field effects on structure and dynamics of amyloidogenic peptides. <i>Journal of Chemical Physics</i> , 2016 , 144, 085101	3.9	32
196	Dynamical cage behaviour and hydrogen migration in hydrogen and hydrogen-tetrahydrofuran clathrate hydrates. <i>Journal of Chemical Physics</i> , 2012 , 136, 044506	3.9	31
195	Translational and rotational diffusive motion in liquid water in square-wave time-varying electric fields. <i>Chemical Physics Letters</i> , 2013 , 582, 60-65	2.5	28
194	Ionic liquids in external electric and electromagnetic fields: a molecular dynamics study. <i>Molecular Physics</i> , 2011 , 109, 625-638	1.7	28
193	Very different responses to electromagnetic fields in binary ionic liquid-water solutions. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10128-34	3.4	28
192	Density functional theory investigations of bismuth vanadate: Effect of hybrid functionals. <i>Computational Materials Science</i> , 2013 , 74, 33-39	3.2	27
191	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. <i>Nature Communications</i> , 2015 , 6, 10140	17.4	27
190	Perspectives on ab initio molecular simulation of excited-state properties of organic dye molecules in dye-sensitised solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12044-56	3.6	27
189	Hybrid density functional theory description of N- and C-doping of NiO. <i>Journal of Chemical Physics</i> , 2011 , 134, 224703	3.9	27
188	New insights into the band-gap narrowing of (N, P)-codoped TiO ₂ from hybrid density functional theory calculations. <i>ChemPhysChem</i> , 2011 , 12, 2604-8	3.2	27
187	Clathrate structure-type recognition: Application to hydrate nucleation and crystallisation. <i>Journal of Chemical Physics</i> , 2015 , 142, 244503	3.9	26
186	Benchmark study for the application of density functional theory to the prediction of octahedral tilting in perovskites. <i>Physical Review B</i> , 2012 , 86,	3.3	26
185	Electronic structures of N- and C-doped NiO from first-principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1184-1187	2.3	26

184	First-principles calculation of electronic structure of V-doped anatase TiO ₂ . <i>ChemPhysChem</i> , 2010 , 11, 2606-11	3.2	25
183	Quantum and classical inter-cage hopping of hydrogen molecules in clathrate hydrate: temperature and cage-occupation effects. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 717-728	3.6	24
182	Photo-active and dynamical properties of hematite (Fe ₂ O ₃)-water interfaces: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14445-54	3.6	24
181	Study of translational, librational and intra-molecular motion of adsorbed liquid water monolayers at various TiO ₂ interfaces. <i>Molecular Physics</i> , 2011 , 109, 2645-2654	1.7	24
180	Hydrogen bond dynamical properties of adsorbed liquid water monolayers with various TiO ₂ interfaces. <i>Molecular Physics</i> , 2012 , 110, 2919-2925	1.7	23
179	Band gap engineering of (N, Si)-codoped TiO ₂ from hybrid density functional theory calculations. <i>New Journal of Physics</i> , 2012 , 14, 053007	2.9	23
178	Electronic properties of F/Zr co-doped anatase TiO ₂ photocatalysts from GGA + U calculations. <i>Chemical Physics Letters</i> , 2010 , 498, 338-344	2.5	23
177	Effects of an external electromagnetic field on rutile TiO ₂ : A molecular dynamics study. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 1399-1409	3.9	23
176	A comprehensive review on the application of aerogels in CO ₂ -adsorption: Materials and characterisation. <i>Chemical Engineering Journal</i> , 2021 , 412, 128604	14.7	23
175	Mechanism of atmospheric CO ₂ fixation in the cavities of a dinuclear cryptate. <i>Inorganic Chemistry</i> , 2012 , 51, 5282-8	5.1	22
174	Thermal conductivity in amorphous ices from molecular dynamics. <i>Physical Review B</i> , 2010 , 82,	3.3	22
173	Influence of doping on the photoactive properties of magnetron-sputtered titania coatings: Experimental and theoretical study. <i>Physical Review B</i> , 2012 , 86,	3.3	22
172	Study of clathrate hydrates via equilibrium molecular-dynamics simulation employing polarisable and non-polarisable, rigid and flexible water models. <i>Journal of Chemical Physics</i> , 2016 , 144, 164503	3.9	22
171	Vibrational Modes of Hydrogen Hydrates: A First-Principles Molecular Dynamics and Raman Spectra Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3690-3696	3.8	21
170	Hydrogen-bond dynamics at the bio-water interface in hydrated proteins: a molecular-dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 318-329	3.6	21
169	Mechanisms and Nucleation Rate of Methane Hydrate by Dynamical Nonequilibrium Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24223-24234	3.8	21
168	Spatial distribution of adsorbed water layers at the TiO ₂ rutile and anatase interfaces. <i>Chemical Physics Letters</i> , 2012 , 554, 102-106	2.5	21
167	Dynamical properties of hydrogen sulphide motion in its clathrate hydrate from ab initio and classical isobaric-isothermal molecular dynamics. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 6226-32	2.8	21

166	Massively parallel molecular-dynamics simulation of ice crystallisation and melting: the roles of system size, ensemble, and electrostatics. <i>Journal of Chemical Physics</i> , 2014 , 141, 234501	3.9	20
165	Perspectives on Hydrate Thermal Conductivity. <i>Energies</i> , 2010 , 3, 1934-1942	3.1	20
164	Coupling of translational and rotational motion in chiral liquids in electromagnetic and circularly polarised electric fields. <i>Journal of Chemical Physics</i> , 2012 , 136, 094508	3.9	20
163	Human Aquaporin 4 Gating Dynamics under Perpendicularly-Oriented Electric-Field Impulses: A Molecular Dynamics Study. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	20
162	Communication: influence of nanosecond-pulsed electric fields on water and its subsequent relaxation: dipolar effects and debunking memory. <i>Journal of Chemical Physics</i> , 2015 , 142, 141101	3.9	19
161	System-density fluctuations and electro-dissociation of methane clathrate hydrates in externally-applied static electric fields. <i>Journal of Chemical Thermodynamics</i> , 2018 , 117, 68-80	2.9	19
160	Effects of external electromagnetic fields on the conformational sampling of a short alanine peptide. <i>Journal of Computational Chemistry</i> , 2012 , 33, 917-23	3.5	19
159	Structural Properties of Liquid Water and Ice Ih from Ab-Initio Molecular Dynamics with a Non-Local Correlation Functional. <i>Energies</i> , 2015 , 8, 9383-9391	3.1	19
158	Electromagnetic field effects on binary dimethylimidazolium-based ionic liquid/water solutions. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9370-4	3.6	19
157	Mechanisms for thermal conduction in hydrogen hydrate. <i>Journal of Chemical Physics</i> , 2012 , 136, 044501	3.9	19
156	Molecular Dynamics Study of Propane Hydrate Dissociation: Nonequilibrium Analysis in Externally Applied Electric Fields. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7504-7515	3.8	18
155	Density equalisation in supercooled high- and low-density water mixtures. <i>Journal of Chemical Physics</i> , 2013 , 139, 084508	3.9	18
154	Dynamical and energetic properties of hydrogen and hydrogen-tetrahydrofuran clathrate hydrates. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19780-7	3.6	18
153	Dynamical properties of physically adsorbed water molecules at the TiO ₂ rutile-(1 1 0) surface. <i>Chemical Physics Letters</i> , 2013 , 583, 125-130	2.5	17
152	The influence of Ti- and Si-doping on the structure, morphology and photo-response properties of Fe ₂ O ₃ for efficient water-splitting: Insights from experiment and first-principles calculations. <i>Chemical Physics Letters</i> , 2014 , 592, 242-246	2.5	17
151	Guest and host contributions towards thermal conduction in various polymorphs of methane hydrate. <i>Computational Materials Science</i> , 2010 , 49, S176-S180	3.2	17
150	First-Principles Study of S Doping at the Rutile TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17464-17470	3.8	17
149	Human aquaporin 4 gating dynamics under axially oriented electric-field impulses: A non-equilibrium molecular-dynamics study. <i>Journal of Chemical Physics</i> , 2018 , 149, 245102	3.9	17

148	Study of hydrogen-molecule guests in type II clathrate hydrates using a force-matched potential model parameterised from ab initio molecular dynamics. <i>Journal of Chemical Physics</i> , 2018 , 148, 102323	3.9	16
147	Molecular-dynamics study of propane-hydrate dissociation: Fluctuation-dissipation and non-equilibrium analysis. <i>Journal of Chemical Physics</i> , 2018 , 148, 114504	3.9	16
146	Energetic and Electronic Properties of P Doping at the Rutile TiO ₂ (110) Surface from First Principles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9423-9430	3.8	16
145	Electro-nucleation of water nano-droplets in No Man's Land to fault-free ice I. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8042-8053	3.6	15
144	Silicon-bridged triphenylamine-based organic dyes for efficient dye-sensitised solar cells. <i>Solar Energy</i> , 2018 , 160, 64-75	6.8	14
143	Thermal Conductivity of Solids from First-Principles Molecular Dynamics Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10682-10690	3.8	14
142	Global-density fluctuations in methane clathrate hydrates in externally applied electromagnetic fields. <i>Journal of Chemical Physics</i> , 2017 , 147, 024506	3.9	14
141	Understanding the interface between silicon-based materials and water: Molecular-dynamics exploration of infrared spectra. <i>AIP Advances</i> , 2017 , 7, 115105	1.5	14
140	Electronic properties of anatase-TiO ₂ codoped by cation-pairs from hybrid density functional theory calculations. <i>Chemical Physics Letters</i> , 2011 , 513, 218-223	2.5	14
139	Molecular Dynamics Simulations of Clathrate Hydrates on Specialised Hardware Platforms. <i>Energies</i> , 2012 , 5, 3526-3533	3.1	14
138	Tweaking the Electronic and Optical Properties of BiMoO by Sulphur and Selenium Doping - a Density Functional Theory Study. <i>Scientific Reports</i> , 2018 , 8, 10144	4.9	14
137	Oscillating electric-field effects on adsorbed-water at rutile- and anatase-TiO surfaces. <i>Journal of Chemical Physics</i> , 2016 , 145, 204706	3.9	14
136	Transprotein-Electropore Characterization: A Molecular Dynamics Investigation on Human AQP4. <i>ACS Omega</i> , 2018 , 3, 15361-15369	3.9	14
135	Estimation of zeta potentials of titania nanoparticles by molecular simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 4091-4096	3.3	13
134	Electrical conductivity and dipolar relaxation of binary dimethylimidazolium chloride/water solutions: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2010 , 157, 163-167	6	13
133	Revisiting Verhulst and Monod models: analysis of batch and fed-batch cultures. <i>Cytotechnology</i> , 2015 , 67, 515-30	2.2	12
132	Massively parallel molecular dynamics simulation of formation of ice-crystallite precursors in supercooled water: incipient-nucleation behavior and role of system size. <i>Physical Review E</i> , 2015 , 92, 032132	2.4	12
131	Aromatic ring size effects on the photophysics and photochemistry of styrylbenzothiazole. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1220-31	4.2	12

130	Thermal conduction and phonon propagation in pressure-amorphized ices. <i>Physical Review B</i> , 2011 , 83,	3.3	12
129	Pressure-induced amorphization of methane hydrate. <i>Physical Review B</i> , 2012 , 86,	3.3	12
128	Does Local Structure Bias How a Crystal Nucleus Evolves?. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6991-6998	6.4	12
127	Controlling ionic conductivity through transprotein electropores in human aquaporin 4: a non-equilibrium molecular-dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3339-3346	3.6	11
126	First-principles studies on α -Fe ₂ O ₃ surface slabs and mechanistic elucidation of a g-C ₃ N ₄ / α -Fe ₂ O ₃ heterojunction. <i>Catalysis Science and Technology</i> , 2020 , 10, 1376-1384	5.5	11
125	Thermal Conductivity of Supercooled Water: An Equilibrium Molecular Dynamics Exploration. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3819-24	6.4	11
124	Novel Superstructure-Phase Two-Dimensional Material 1-VSe at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 380-386	6.4	11
123	Ice-Amorphization of Supercooled Water Nanodroplets in No Man's Land. <i>ACS Earth and Space Chemistry</i> , 2017 , 1, 187-196	3.2	10
122	Triplet Harvesting Using Two-Photon Absorption in Substituted Naphthalimides for Their Application as Heavy-Atom-Free Photosensitizers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8178-8185	3.8	10
121	Comparative studies for evaluation of CO ₂ fixation in the cavity of the Rubisco enzyme using QM, QM/MM and linear-scaling DFT methods. <i>Journal of Molecular Modeling</i> , 2013 , 19, 2329-34	2	10
120	Massively-Parallel Molecular Dynamics Simulation of Clathrate Hydrates on Blue Gene Platforms. <i>Energies</i> , 2013 , 6, 3072-3081	3.1	10
119	Communication: Librational dynamics in water, sI and sII clathrate hydrates, and ice Ih: Molecular-dynamics insights. <i>Journal of Chemical Physics</i> , 2016 , 144, 051101	3.9	10
118	Crystal Structure Prediction via Basin-Hopping Global Optimization Employing Tiny Periodic Simulation Cells, with Application to Water-Ice. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3889-3900	6.4	9
117	Role of Hydration Layer in Dynamical Transition in Proteins: Insights from Translational Self-Diffusivity. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12031-12039	3.4	9
116	Reversible pressure-induced crystal-amorphous structural transformation in ice Ih. <i>Chemical Physics Letters</i> , 2014 , 609, 54-58	2.5	9
115	Exploring Promising Catalysts for Chemical Hydrogen Storage in Ammonia Borane: A Density Functional Theory Study. <i>Catalysts</i> , 2017 , 7, 140	4	9
114	Prediction of Henry's Law Constants via group-specific quantitative structure property relationships. <i>Chemosphere</i> , 2015 , 127, 1-9	8.4	9
113	Effect of space linkers in dinuclear copper cryptates on the efficiency of atmospheric CO ₂ uptake: a DFT study. <i>Catalysis Science and Technology</i> , 2013 , 3, 2234	5.5	9

112	Density functional theory studies of doping in titania. <i>Molecular Simulation</i> , 2010 , 36, 618-632	2	9
111	Possibility of realizing superionic ice VII in external electric fields of planetary bodies. <i>Science Advances</i> , 2020 , 6, eaaz2915	14.3	9
110	Non-equilibrium molecular-dynamics study of electromagnetic-field-induced propane-hydrate dissociation. <i>Journal of Chemical Physics</i> , 2018 , 149, 124702	3.9	9
109	Formation and properties of water from quartz and hydrogen at high pressure and temperature. <i>Earth and Planetary Science Letters</i> , 2017 , 461, 54-60	5.3	8
108	Hydrogen-/propane-hydrate decomposition: thermodynamic and kinetic analysis. <i>Molecular Physics</i> , 2019 , 117, 2434-2442	1.7	8
107	Dispersion and Solvation Effects on the Structure and Dynamics of N719 Adsorbed to Anatase Titania (101) Surfaces in Room-Temperature Ionic Liquids: An ab Initio Molecular Simulation Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21-30	3.8	8
106	Fabrication of nano-structured TiO ₂ coatings using a microblast deposition technique. <i>Applied Surface Science</i> , 2013 , 275, 316-323	6.7	8
105	Electropumping of Water Through Human Aquaporin 4 by Circularly Polarized Electric Fields: Dramatic Enhancement and Control Revealed by Non-Equilibrium Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4646-4651	6.4	8
104	Diffusion and interactions of carbon dioxide and oxygen in the vicinity of the active site of Rubisco: molecular dynamics and quantum chemical studies. <i>Journal of Chemical Physics</i> , 2012 , 137, 145103	3.9	8
103	Electronic Structure and Origin of Visible-Light Activity of C-Doped Cubic In ₂ O ₃ from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13942-13946	3.8	8
102	Magnetic ferrite/carbonized cotton fiber composites for improving electromagnetic absorption properties at gigahertz frequencies. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 127-138	9.1	8
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