

Niall J English

List of Publications by Year in Descending Order

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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	A DFTB-Based Molecular Dynamics Investigation of an Explicitly Solvated Anatase Nanoparticle. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 780	2.6	0
254	Anti-gas hydrate surfaces: perspectives, progress and prospects. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 379-406	13	5
253	Controlling hydrogen release from remaining-intact Clathrate hydrates by electromagnetic fields: molecular engineering microsecond non-equilibrium molecular dynamics.. <i>RSC Advances</i> , 2022 , 12, 4370-4376	2.7	0
252	Application of Porous Ceramics. <i>Engineering Materials</i> , 2022 , 499-537	0.4	
251	Characterization of Nanoporous Materials. <i>Engineering Materials</i> , 2022 , 319-351	0.4	0
250	Electric Field Effects on Photoelectrochemical Water Splitting: Perspectives and Outlook. <i>Energies</i> , 2022 , 15, 1553	3.1	
249	Double Life of Methanol: Experimental Studies and Nonequilibrium Molecular-Dynamics Simulation of Methanol Effects on Methane-Hydrate Nucleation.. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 6075-6081	3.8	0
248	Sustainable Exploitation and Commercialization of Ultradense Nanobubbles: Reinventing Liquidity. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3383-3386	8.3	0
247	Environmental Exploration of Ultra-Dense Nanobubbles: Rethinking Sustainability. <i>Environments - MDPI</i> , 2022 , 9, 33	3.2	0
246	Self-Diffusion of Individual Adsorbed Water Molecules at Rutile (110) and Anatase (101) TiO ₂ Interfaces from Molecular Dynamics. <i>Crystals</i> , 2022 , 12, 398	2.3	0
245	Understanding Competitive Photo-Induced Molecular Oxygen Dissociation and Desorption Dynamics atop a Reduced Rutile TiO ₂ (110) Surface: A Time-Domain Ab Initio Study. <i>ACS Catalysis</i> , 2022 , 12, 6702-6711	13.1	3
244	Onset of anharmonicity and thermal conductivity in SnSe. <i>Physical Review B</i> , 2021 , 104,	3.3	1
243	Molecular Simulation of External Electric Fields on the Crystal State: A Perspective. <i>Crystals</i> , 2021 , 11, 1405	2.3	
242	Unraveling Adhesion Strength between Gas Hydrate and Solid Surfaces. <i>Langmuir</i> , 2021 , 37, 13873-13884		3
241	Hydrogen Inter-Cage Hopping and Cage Occupancies inside Hydrogen Hydrate: Molecular-Dynamics Analysis. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 282	2.6	3
240	A -symmetric twisted organic salt as an efficient mechano-/thermo-responsive molecule: a reusable and sensitive fluorescent thermometer. <i>Chemical Communications</i> , 2021 , 57, 12321-12324	5.8	2
239	Density of Phonon States in Cubic Ice Ic. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23533-23538	3.8	1

238	Crystallisation competition between cubic and hexagonal ice structures: molecular-dynamics insight. <i>Molecular Simulation</i> , 2021 , 47, 18-26	2	2
237	Intra-Cage Structure, Vibrations and Tetrahedral-Site Hopping of H ₂ and D ₂ in Doubly-Occupied 51264 Cages in sII Clathrate Hydrates from Path-Integral and Classical Molecular Dynamics. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 54	2.6	1
236	Molecular Simulation of Crystallisation in External Electric Fields: A Review. <i>Crystals</i> , 2021 , 11, 316	2.3	2
235	Hydrogen and Deuterium Molecular Escape from Clathrate Hydrates: "Leaky" Microsecond-Molecular-Dynamics Predictions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8430-8439	3.8	2
234	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
233	Structural and Electronic Properties of MgO/TiO ₂ Interfaces: A First-Principles Molecular-Simulation Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10795-10802	3.8	1
232	Water Breakup at FeO-Hematite/Water Interfaces: Influence of External Electric Fields from Nonequilibrium Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6818-6826	6.4	3
231	Donor-acceptor structure and dynamics: Molecular dynamics simulation study of TIP4P/2005 water model. <i>Chemical Physics Letters</i> , 2021 , 775, 138581	2.5	
230	Electric-field-promoted photo-electrochemical production of hydrogen from water splitting. <i>Journal of Molecular Liquids</i> , 2021 , 342, 116949	6	3
229	Systematic Design-of-Experiments, factorial-design approaches for tuning simple empirical water models. <i>Molecular Simulation</i> , 2021 , 47, 119-130	2	1
228	Diverse morphologies of zinc oxide nanoparticles and their electrocatalytic performance in hydrogen production. <i>Journal of Energy Chemistry</i> , 2021 , 56, 162-170	12	7
227	Influence of external static and alternating electric fields on self-diffusion of water from molecular dynamics. <i>Journal of Molecular Liquids</i> , 2021 , 327, 114788	6	5
226	A Review of Reactor Designs for Hydrogen Storage in Clathrate Hydrates. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 469	2.6	4
225	The Importance of Precursors and Modification Groups of Aerogels in CO Capture. <i>Molecules</i> , 2021 , 26,	4.8	3
224	Machine-Learning-based Many-body Energy Analysis of Argon Clusters: fit for size?. <i>Chemical Physics</i> , 2021 , 552, 111347	2.3	1
223	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
222	Oxygen-evolution reactions (OER) on transition-metal-doped Fe ₃ Co(PO ₄) ₄ iron-phosphate surfaces: a first-principles study. <i>Catalysis Science and Technology</i> , 2021 , 11, 4619-4626	5.5	1
221	Thermal Conductivity of High-Temperature Phases of Cu ₂ S from Ab Initio Molecular Dynamics: Advent of Lattice-Site Hopping. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12318-12323	3.8	

220	Temperature-dependent kinetic pathways featuring distinctive thermal-activation mechanisms in structural evolution of ice VII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15437-15442	11.5	7
219	Gas hydrates in sustainable chemistry. <i>Chemical Society Reviews</i> , 2020 , 49, 5225-5309	58.5	186
218	Engineering Peptides to Catalyze and Control Stabilization of Gas Hydrates: Learning From Nature. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5068-5075	6.4	2
217	Dynamical properties of organo lead-halide perovskites and their interfaces to titania: insights from Density Functional Theory. <i>Heliyon</i> , 2020 , 6, e03427	3.6	2
216	Dynamical and structural properties of adsorbed water molecules at the TiO ₂ rutile-(110) surface: interfacial hydrogen bonding probed by ab-initio molecular dynamics. <i>Molecular Physics</i> , 2020 , 118, e1725766	17.66	3
215	In Situ Formation of Metal Hydrides Inside Carbon Aerogel Frameworks for Hydrogen Storage Applications. <i>Journal of Carbon Research</i> , 2020 , 6, 38	3.3	2
214	Dynamical and structural properties of adsorbed water molecules at the TiO ₂ anatase-(100) surface: Importance of interfacial hydrogen-bond rearrangements. <i>Chemical Physics Letters</i> , 2020 , 743, 137164	2.5	4
213	Stability-Ranking of Crystalline Ice Polymorphs Using Density-Functional Theory. <i>Crystals</i> , 2020 , 10, 40	2.3	1
212	Relaxation dynamics and power spectra of liquid water: a molecular dynamics simulation study. <i>Molecular Physics</i> , 2020 , 118, e1733117	1.7	
211	First-principles studies on Fe ₂ O ₃ surface slabs and mechanistic elucidation of a g-C ₃ N ₄ /Fe ₂ O ₃ heterojunction. <i>Catalysis Science and Technology</i> , 2020 , 10, 1376-1384	5.5	11
210	First-principles study of the structural, electronic, magnetic properties of orthorhombic PrCuO ₃ perovskites. <i>Chemical Physics Letters</i> , 2020 , 743, 137166	2.5	1
209	Massive generation of metastable bulk nanobubbles in water by external electric fields. <i>Science Advances</i> , 2020 , 6, eaaz0094	14.3	38
208	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
207	Possibility of realizing superionic ice VII in external electric fields of planetary bodies. <i>Science Advances</i> , 2020 , 6, eaaz2915	14.3	9
206	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
205	Microbial Stabilization and Kinetic Enhancement of Marine Methane Hydrates. <i>Geomicrobiology Journal</i> , 2020 , 37, 279-286	2.5	3
204	Infrared spectra and density of states at the interface between water and protein: Insights from classical molecular dynamics. <i>Chemical Physics Letters</i> , 2020 , 757, 137867	2.5	0
203	Kinetic study on electro-nucleation of water in a heterogeneous propane nano-bubble system to form polycrystalline ice I. <i>Journal of Chemical Physics</i> , 2020 , 153, 084501	3.9	4

202	Magnetic-Field Manipulation of Naturally Occurring Microbial Chiral Peptides to Regulate Gas-Hydrate Formation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9079-9085	6.4	2
201	Self-ordering water molecules at TiO interfaces: Advances in structural classification.. <i>Journal of Chemical Physics</i> , 2020 , 153, 064502	3.9	2
200	Hydrogen Storage in Propane-Hydrate: Theoretical and Experimental Study. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8962	2.6	2
199	Hydrogen Intramolecular Stretch Redshift in the Electrostatic Environment of Type II Clathrate Hydrates from Schrödinger Equation Treatment. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8504	2.6	1
198	Atmospheric oxidation mechanism and kinetics of 2-bromo-4,6-dinitroaniline by OH radicals - a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21109-21127	3.6	
197	Magnetic-field effects on methane-hydrate kinetics and potential geophysical implications: Insights from non-equilibrium molecular dynamics. <i>Science of the Total Environment</i> , 2019 , 661, 664-669	10.2	6
196	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
195	Hydrogen-/propane-hydrate decomposition: thermodynamic and kinetic analysis. <i>Molecular Physics</i> , 2019 , 117, 2434-2442	1.7	8
194	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
193	Orientalional and Folding Thermodynamics via Electric Dipole Moment Restraining. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2599-2608	3.4	2
192	Mechanisms of Iodide/Triiodide Exchange Reactions in Ionic Liquids: A Reactive Molecular-Dynamics Exploration. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
191	Amplitude effects on seismic velocities: How low can we go?. <i>Journal of Chemical Physics</i> , 2019 , 150, 084301	10.1	1
190	Classical and path-integral molecular-dynamics study on liquid water and ice melting using non-empirical TTM2.1-F model. <i>Molecular Physics</i> , 2019 , 117, 3241-3253	1.7	1
189	Opto-electronic properties of stable blue photosensitisers on a TiO2 anatase-101 surface for efficient dye-sensitised solar cells. <i>Chemical Physics Letters</i> , 2019 , 731, 136624	2.5	4
188	Hybrid versus global thermostatting in molecular-dynamics simulation of methane-hydrate crystallisation. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 2180-2188	3.2	1
187	Acoustic-propagation properties of methane clathrate hydrates from non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2019 , 151, 144505	3.9	3
186	Electric-Field Control of Neon Uptake and Release to and from Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27554-27560	3.8	6
185	A New Relatively Simple Approach to Multipole Interactions in Either Spherical Harmonics or Cartesians, Suitable for Implementation into Ewald Sums. <i>International Journal of Molecular Sciences</i> , 2019 , 21,	6.3	2

184	Ionic conductivity along transmembrane-electropores in human aquaporin 4: calcium effects from non-equilibrium molecular dynamics. <i>Molecular Physics</i> , 2019 , 117, 3783-3790	1.7	1
183	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
182	Electro-suppression of water nano-droplets' solidification in no man's land: Electromagnetic fields' entropic trapping of supercooled water. <i>Journal of Chemical Physics</i> , 2018 , 148, 044503	3.9	3
181	Elastic Characterization of S- and P-Wave Velocities in Marinelike Silica: The Role of Nonequilibrium Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3006-3013	3.8	2
180	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
179	Silicon-bridged triphenylamine-based organic dyes for efficient dye-sensitised solar cells. <i>Solar Energy</i> , 2018 , 160, 64-75	6.8	14
178	Thermal Conductivity of Solids from First-Principles Molecular Dynamics Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10682-10690	3.8	14
177	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
176	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
175	A systematic study via ab-initio MD of the effect solvation by room temperature ionic liquid has on the structure of a chromophore-titania interface. <i>Computational Materials Science</i> , 2018 , 141, 193-206	3.2	3
174	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
173	Elucidating mysteries of phase-segregated membranes: mobile-lipid recruitment facilitates pores' passage to the fluid phase. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19234-19239	3.6	3
172	Pressure dependence of structural properties of ice VII: An ab initio molecular-dynamics study. <i>Journal of Chemical Physics</i> , 2018 , 148, 204505	3.9	6
171	Tweaking the Electronic and Optical Properties of TiO_2 by Sulphur and Selenium Doping - a Density Functional Theory Study. <i>Scientific Reports</i> , 2018 , 8, 10144	4.9	14
170	Vibrational Study of Iodide-Based Room-Temperature Ionic-Liquid Effects on Candidate N719-Chromophore/Titania Interfaces for Dye-Sensitised Solar-Cell Applications from Ab-Initio Based Molecular-Dynamics Simulation. <i>Energies</i> , 2018 , 11, 2570	3.1	2
169	Ab Initio Molecular Dynamics Studies of the Effect of Solvation by Room-Temperature Ionic Liquids on the Vibrational Properties of a N719-Chromophore/Titania Interface. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26464-26471	3.8	0
168	Transprotein-Electropore Characterization: A Molecular Dynamics Investigation on Human AQP4. <i>ACS Omega</i> , 2018 , 3, 15361-15369	3.9	14
167	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

166	Does Local Structure Bias How a Crystal Nucleus Evolves?. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6991-6998	6.4	12
165	Vibrational, energetic-dynamical and dissociation properties of water clusters in static electric fields: Non-equilibrium molecular-dynamics insights. <i>Chemical Physics Letters</i> , 2018 , 710, 207-214	2.5	3
164	Non-equilibrium molecular-dynamics study of electromagnetic-field-induced propane-hydrate dissociation. <i>Journal of Chemical Physics</i> , 2018 , 149, 124702	3.9	9
163	Pressure-Induced Densification of Ice I under Triaxial Mechanical Compression: Dissociation versus Retention of Crystallinity for Intermediate States in Atomistic and Coarse-Grained Water Models. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5267-5274	6.4	5
162	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
161	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
160	On the Mechanism of the Iodide-Triiodide Exchange Reaction in a Solid-State Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 6436-6441	3.4	7
159	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
158	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
157	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
156	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
155	Global-density fluctuations in methane clathrate hydrates in externally applied electromagnetic fields. <i>Journal of Chemical Physics</i> , 2017 , 147, 024506	3.9	14
154	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
153	optPBE-vdW density functional theory study of liquid water and pressure-induced structural evolution in ice Ih. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1205-1211	0.9	2
152	Equilibrium Born-Oppenheimer molecular-dynamics exploration of the lattice thermal conductivity of silicon clathrates. <i>Computational Materials Science</i> , 2017 , 126, 1-6	3.2	7
151	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
150	Exploring Promising Catalysts for Chemical Hydrogen Storage in Ammonia Borane: A Density Functional Theory Study. <i>Catalysts</i> , 2017 , 7, 140	4	9
149	Organic Dyes Containing Coplanar Dihexyl-Substituted Dithienosilole Groups for Efficient Dye-Sensitised Solar Cells. <i>International Journal of Photoenergy</i> , 2017 , 2017, 1-14	2.1	6

148	Dynamics of hydrogen guests in ice XVII nanopores. <i>Physical Review Materials</i> , 2017 , 1,	3.2	6
147	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
146	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
145	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
144	Thermal Properties of Methane Hydrate by Experiment and Modeling and Impacts Upon Technology 2016 , 680-686		
143	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
142	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
141	Time-dependent density fluctuations in liquid water. <i>Chemical Physics Letters</i> , 2016 , 649, 119-122	2.5	2
140	Structural and dynamical properties of methane clathrate hydrates from molecular dynamics: Comparison of atomistic and more coarse-grained potential models. <i>Fluid Phase Equilibria</i> , 2016 , 413, 235-241	2.5	6
139	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
138	Verhulst and stochastic models for comparing mechanisms of MAb productivity in six CHO cell lines. <i>Cytotechnology</i> , 2016 , 68, 1499-511	2.2	2
137	Distortion induced magnetic phase transition in cubic BaFeO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 1097-1105	2.8	5
136	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
135	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
134	Diffusivity and Mobility of Adsorbed Water Layers at TiO ₂ Rutile and Anatase Interfaces. <i>Crystals</i> , 2016 , 6, 1	2.3	64
133	Near-microsecond human aquaporin 4 gating dynamics in static and alternating external electric fields: Non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2016 , 145, 085102	3.9	7
132	Perturbation of hydration layer in solvated proteins by external electric and electromagnetic fields: Insights from non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2016 , 145, 205101	3.9	5
131	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

130	Electromagnetic-field effects on structure and dynamics of amyloidogenic peptides. <i>Journal of Chemical Physics</i> , 2016 , 144, 085101	3.9	32
129	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
128	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
127	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
126	Clathrate structure-type recognition: Application to hydrate nucleation and crystallisation. <i>Journal of Chemical Physics</i> , 2015 , 142, 244503	3.9	26
125	Perspectives on molecular simulation of clathrate hydrates: Progress, prospects and challenges. <i>Chemical Engineering Science</i> , 2015 , 121, 133-156	4.4	137
124	Revisiting Verhulst and Monod models: analysis of batch and fed-batch cultures. <i>Cytotechnology</i> , 2015 , 67, 515-30	2.2	12
123	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
122	Hydrogen-bond vibrational and energetic dynamical properties in sI and sII clathrate hydrates and in ice Ih: Molecular dynamics insights. <i>Journal of Chemical Physics</i> , 2015 , 143, 154504	3.9	6
121	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
120	Electric field-controlled semiconductor nanorod assembly in solution: mechanistic insights from non-equilibrium molecular dynamics. <i>Canadian Journal of Chemistry</i> , 2015 , 93, 888-890	0.9	1
119	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. <i>Nature Communications</i> , 2015 , 6, 10140	17.4	27
118	Photophysics, photochemistry and thermal stability of diarylethene-containing benzothiazolium species. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 301, 20-31	4.7	4
117	Modelling of Mammalian Cell Cultures. <i>Cell Engineering</i> , 2015 , 259-326		7
116	Prediction of Henry's Law Constants via group-specific quantitative structure property relationships. <i>Chemosphere</i> , 2015 , 127, 1-9	8.4	9
115	Implicit and explicit solvent models for modeling a bifunctional arene ruthenium hydrogen-storage catalyst: a classical and ab initio molecular simulation study. <i>Journal of Computational Chemistry</i> , 2014 , 35, 683-91	3.5	5
114	Perspectives on atmospheric CO ₂ fixation in inorganic and biomimetic structures. <i>Coordination Chemistry Reviews</i> , 2014 , 269, 85-95	23.2	49
113	Towards the design of novel boron- and nitrogen-substituted ammonia-borane and bifunctional arene ruthenium catalysts for hydrogen storage. <i>Journal of Computational Chemistry</i> , 2014 , 35, 891-903	3.5	6

112	Theoretical studies of separation of cis-trans isomers using dinuclear (Cu(2+)- and Zn(2+)-based) cryptates. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2328	2	1
111	Thermal Conductivity of Supercooled Water: An Equilibrium Molecular Dynamics Exploration. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3819-24	6.4	11
110	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
109	Methane Clathrate Hydrate Nucleation Mechanism by Advanced Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22847-22857	3.8	72
108	Reversible pressure-induced crystal-amorphous structural transformation in ice Ih. <i>Chemical Physics Letters</i> , 2014 , 609, 54-58	2.5	9
107	Density functional theory calculations of catalytic mechanistic pathways for the formation of O ₂ involving triazolylidene iridium complexes. <i>New Journal of Chemistry</i> , 2014 , 38, 4060	3.6	5
106	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
105	Process control of particle deposition systems using acoustic and electrical response signals. <i>Advanced Powder Technology</i> , 2014 , 25, 1560-1570	4.6	
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