

Mathieu Salanne

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170
papers

8,302
citations

44
h-index

86
g-index

196
ext. papers

9,755
ext. citations

6.7
avg, IF

6.47
L-index

#	Paper	IF	Citations
170	Efficient storage mechanisms for building better supercapacitors. <i>Nature Energy</i> , 2016 , 1,	62.3	1256
169	On the molecular origin of supercapacitance in nanoporous carbon electrodes. <i>Nature Materials</i> , 2012 , 11, 306-10	27	728
168	Highly confined ions store charge more efficiently in supercapacitors. <i>Nature Communications</i> , 2013 , 4, 2701	17.4	328
167	Reversible magnesium and aluminium ions insertion in cation-deficient anatase TiO. <i>Nature Materials</i> , 2017 , 16, 1142-1148	27	270
166	Materials for supercapacitors: When Li-ion battery power is not enough. <i>Materials Today</i> , 2018 , 21, 419-436	3.68	234
165	Simulating Supercapacitors: Can We Model Electrodes As Constant Charge Surfaces?. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 264-8	6.4	170
164	Partial breaking of the Coulombic ordering of ionic liquids confined in carbon nanopores. <i>Nature Materials</i> , 2017 , 16, 1225-1232	27	166
163	The Electric Double Layer Has a Life of Its Own. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18291-18298	3.8	161
162	On the dynamics of charging in nanoporous carbon-based supercapacitors. <i>ACS Nano</i> , 2014 , 8, 1576-83	16.7	151
161	Computer simulations of ionic liquids at electrochemical interfaces. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15781-92	3.6	133
160	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, 83-7	6.4	128
159	Imidazolium Ionic Liquid Interfaces with Vapor and Graphite: Interfacial Tension and Capacitance from Coarse-Grained Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16613-16618	3.8	123
158	Simulations of room temperature ionic liquids: from polarizable to coarse-grained force fields. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14270-9	3.6	120
157	Confinement, Desolvation, And Electrosorption Effects on the Diffusion of Ions in Nanoporous Carbon Electrodes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12627-32	16.4	116
156	Polarization effects in ionic solids and melts. <i>Molecular Physics</i> , 2011 , 109, 2299-2315	1.7	107
155	New Coarse-Grained Models of Imidazolium Ionic Liquids for Bulk and Interfacial Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7687-7693	3.8	104
154	Charge fluctuations in nanoscale capacitors. <i>Physical Review Letters</i> , 2013 , 111, 106102	7.4	97

153	Including many-body effects in models for ionic liquids. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	97
152	A first-principles description of liquid BeF ₂ and its mixtures with LiF: 1. Potential development and pure BeF ₂ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11454-60	3.4	90
151	Conductivity-viscosity-structure: unpicking the relationship in an ionic liquid. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4678-84	3.4	88
150	A first-principles description of liquid BeF ₂ and its mixtures with LiF: 2. Network formation in LiF-BeF ₂ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11461-7	3.4	86
149	Is a Stern and diffuse layer model appropriate to ionic liquids at surfaces?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4121	11.5	84
148	Influence of solvation on the structural and capacitive properties of electrical double layer capacitors. <i>Electrochimica Acta</i> , 2013 , 101, 262-271	6.7	83
147	Potential-induced ordering transition of the adsorbed layer at the ionic liquid/electrified metal interface. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8453-9	3.4	83
146	Ionic Liquids for Supercapacitor Applications. <i>Topics in Current Chemistry</i> , 2017 , 375, 63	7.2	82
145	Calculation of activities of ions in molten salts with potential application to the pyroprocessing of nuclear waste. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1177-83	3.4	82
144	Heat-transport properties of molten fluorides: Determination from first-principles. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 38-44	2.1	78
143	Absolute acidity of clay edge sites from ab-initio simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 94, 1-11	5.5	74
142	Structural Transitions at Ionic Liquid Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4978-85	6.4	73
141	Diffusion coefficient and shear viscosity of rigid water models. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 284117	1.8	73
140	Studies of the local structures of molten metal halides. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2011 , 107, 88		67
139	High Substitution Rate in TiO ₂ Anatase Nanoparticles with Cationic Vacancies for Fast Lithium Storage. <i>Chemistry of Materials</i> , 2015 , 27, 5014-5019	9.6	66
138	Calculations of the thermal conductivities of ionic materials by simulation with polarizable interaction potentials. <i>Journal of Chemical Physics</i> , 2009 , 130, 104507	3.9	64
137	Capacitance of Nanoporous Carbon-Based Supercapacitors Is a Trade-Off between the Concentration and the Separability of the Ions. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4015-4021	6.4	62
136	Ceria co-doping: synergistic or average effect?. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8320-31	3.6	60

135	Ion specific effects on the structure of molten AF-ZrF ₄ systems (A ⁺ = Li ⁺ , Na ⁺ , and K ⁺). <i>Journal of Physical Chemistry B</i> , 2011 , 115, 9160-7	3.4	58
134	Ions in solutions: Determining their polarizabilities from first-principles. <i>Journal of Chemical Physics</i> , 2011 , 134, 014511	3.9	57
133	In situ experimental evidence for a nonmonotonous structural evolution with composition in the molten LiF-ZrF ₄ system. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 6472-9	3.4	55
132	Diffusion coefficients and local structure in basic molten fluorides: in situ NMR measurements and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11501-6	3.6	55
131	The Fate of Water at the Electrochemical Interfaces: Electrochemical Behavior of Free Water Versus Coordinating Water. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6683-6688	6.4	55
130	A transferable ab initio based force field for aqueous ions. <i>Journal of Chemical Physics</i> , 2012 , 136, 114503-9	3.9	54
129	Thermal conductivity of MgO, MgSiO ₃ perovskite and post-perovskite in the Earth's deep mantle. <i>Earth and Planetary Science Letters</i> , 2012 , 355-356, 102-108	5.3	48
128	From molten salts to room temperature ionic liquids: simulation studies on chloroaluminate systems. <i>Faraday Discussions</i> , 2012 , 154, 171-88; discussion 189-220, 465-71	3.6	47
127	High-pressure behaviour of GeO ₂ : a simulation study. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 152102	1.8	46
126	Molecular Dynamics Simulations of the Influence of Drop Size and Surface Potential on the Contact Angle of Ionic-Liquid Droplets. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15244-15250	3.8	44
125	Molecular dynamics simulation of the thermodynamic and transport properties of the molten salt fast reactor fuel LiF-ThF ₄ . <i>Journal of Nuclear Materials</i> , 2013 , 434, 322-327	3.3	42
124	Density-driven structural transformations in B ₂ O ₃ glass. <i>Physical Review B</i> , 2014 , 90,	3.3	42
123	Sparse Cyclic Excitations Explain the Low Ionic Conductivity of Stoichiometric Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Physical Review Letters</i> , 2016 , 116, 135901	7.4	41
122	Cooperative Mechanism for the Diffusion of Li ⁺ Ions in LiMgSO ₄ F. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18618-18625	3.8	40
121	The construction of a reliable potential for GeO ₂ from first principles. <i>Molecular Physics</i> , 2009 , 107, 443-452	4.5	40
120	Transport Properties of Li-TFSI Water-in-Salt Electrolytes. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10514-10521	3.4	39
119	Ion adsorption at a metallic electrode: an ab initio based simulation study. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 424109	1.8	38
118	Tuning water reduction through controlled nanoconfinement within an organic liquid matrix. <i>Nature Catalysis</i> , 2020 , 3, 656-663	36.5	38

117	Polarizabilities of individual molecules and ions in liquids from first principles. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 494207	1.8	36
116	Multi-scale modelling of supercapacitors: From molecular simulations to a transmission line model. <i>Journal of Power Sources</i> , 2016 , 326, 680-685	8.9	36
115	Prediction of the thermophysical properties of molten salt fast reactor fuel from first-principles. <i>Molecular Physics</i> , 2014 , 112, 1305-1312	1.7	34
114	Thermal conductivity of molten alkali metal fluorides (LiF, NaF, KF) and their mixtures. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3385-91	3.4	34
113	From localized orbitals to material properties: building classical force fields for nonmetallic condensed matter systems. <i>Physical Review Letters</i> , 2010 , 104, 138301	7.4	32
112	Capacitive Performance of Water-in-Salt Electrolytes in Supercapacitors: A Simulation Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23917-23924	3.8	31
111	Simulating Electrochemical Systems by Combining the Finite Field Method with a Constant Potential Electrode. <i>Physical Review Letters</i> , 2019 , 123, 195501	7.4	30
110	Navigating at Will on the Water Phase Diagram. <i>Physical Review Letters</i> , 2017 , 119, 245701	7.4	30
109	Structure and dynamics in yttrium-based molten rare earth alkali fluorides. <i>Journal of Chemical Physics</i> , 2013 , 138, 184503	3.9	30
108	Charge fluctuations from molecular simulations in the constant-potential ensemble. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10480-10489	3.6	30
107	Performance of microporous carbon electrodes for supercapacitors: Comparing graphene with disordered materials. <i>Energy Storage Materials</i> , 2019 , 17, 88-92	19.4	30
106	Competitive Salt Precipitation/Dissolution During Free-Water Reduction in Water-in-Salt Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15913-15917	16.4	28
105	Transport in molten LiF-NaF-RF ₄ mixtures: A combined computational and experimental approach. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 61-66	2.1	28
104	Confinement Effects on an Electron Transfer Reaction in Nanoporous Carbon Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1925-1931	6.4	26
103	Effect of the carbon microporous structure on the capacitance of aqueous supercapacitors. <i>Energy Storage Materials</i> , 2019 , 21, 190-195	19.4	26
102	A New Electrolyte Formulation for Securing High Temperature Cycling and Storage Performances of Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901431	21.8	26
101	Primitive models of ions in solution from molecular descriptions: a perturbation approach. <i>Journal of Chemical Physics</i> , 2011 , 135, 234509	3.9	26
100	Thermal conductivity of ionic systems from equilibrium molecular dynamics. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 102101	1.8	26

99	MetalWalls: A classical molecular dynamics software dedicated to the simulation of electrochemical systems. <i>Journal of Open Source Software</i> , 2020 , 5, 2373	5.2	26
98	Dynamic Response in Nanoelectrowetting on a Dielectric. <i>ACS Nano</i> , 2016 , 10, 8536-44	16.7	25
97	Classical Polarizable Force Field for Clays: Pyrophyllite and Talc. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3749-3758	3.8	25
96	Layered Lepidocrocite Type Structure Isolated by Revisiting the Sol-Gel Chemistry of Anatase TiO ₂ : A New Anode Material for Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 8313-8324	9.6	25
95	Coordination numbers and physical properties in molten salts and their mixtures. <i>Faraday Discussions</i> , 2016 , 190, 471-86	3.6	24
94	Molecular Simulation of Electrode-Solution Interfaces. <i>Annual Review of Physical Chemistry</i> , 2021 , 72, 189-212	15.7	24
93	Single Electrode Capacitances of Porous Carbons in Neat Ionic Liquid Electrolyte at 100°C: A Combined Experimental and Modeling Approach. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5091-A5093	3.9	23
92	Models of electrolyte solutions from molecular descriptions: the example of NaCl solutions. <i>Physical Review E</i> , 2009 , 80, 065103	2.4	23
91	Transport coefficients and the Stokes-Einstein relation in molten alkali halides with polarisable ion model. <i>Molecular Physics</i> , 2015 , 113, 2442-2450	1.7	22
90	Ion-ion correlations across and between electrified graphene layers. <i>Journal of Chemical Physics</i> , 2018 , 148, 193812	3.9	22
89	Structural study of NaO-BO-SiO glasses from molecular simulations using a polarizable force field. <i>Journal of Chemical Physics</i> , 2017 , 147, 161711	3.9	22
88	Liquid B ₂ O ₃ up to 1700 K: x-ray diffraction and boroxol ring dissolution. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 455104	1.8	22
87	Intermediate range chemical ordering of cations in simple molten alkali halides. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 332101	1.8	22
86	Study of NaF-AlF ₃ Melts by Coupling Molecular Dynamics, Density Functional Theory, and NMR Measurements. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10289-10297	3.8	21
85	Insights into Li ⁺ , Na ⁺ , and K ⁺ Intercalation in Lepidocrocite-Type Layered TiO ₂ Structures. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2078-2086	6.1	21
84	Internal mobilities and diffusion in an ionic liquid mixture. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14109-14	3.6	21
83	A molecular density functional theory approach to electron transfer reactions. <i>Chemical Science</i> , 2019 , 10, 2130-2143	9.4	20
82	Formulation of Temperature-Dependent Thermal Conductivity of NaF, [Na ₃ AlF ₆ , Na ₅ Al ₃ F ₁₄ , and Molten Na ₃ AlF ₆ Supported by Equilibrium Molecular Dynamics and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22873-22886	3.8	20

81	Study of a water-graphene capacitor with molecular density functional theory. <i>Journal of Chemical Physics</i> , 2019 , 151, 124111	3.9	19
80	Toward an Accurate Modeling of Ionic Liquid \square IO ₂ Interfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25260-25267	3.8	19
79	A semiclassical Thomas-Fermi model to tune the metallicity of electrodes in molecular simulations. <i>Journal of Chemical Physics</i> , 2020 , 153, 174704	3.9	19
78	Chasing Aqueous Biphasic Systems from Simple Salts by Exploring the LiTFSI/LiCl/H ₂ O Phase Diagram. <i>ACS Central Science</i> , 2019 , 5, 640-643	16.8	18
77	Molecular dynamics simulations of Y in silicate melts and implications for trace element partitioning. <i>Chemical Geology</i> , 2013 , 346, 14-21	4.2	18
76	Candidate molten salt investigation for an accelerator driven subcritical core. <i>Journal of Nuclear Materials</i> , 2013 , 440, 298-303	3.3	18
75	Anionic ordering and thermal properties of FeF ₃ \square H ₂ O. <i>Inorganic Chemistry</i> , 2015 , 54, 9619-25	5.1	17
74	Simulation of the liquid \square apor interface of molten LiBeF ₃ . <i>Comptes Rendus Chimie</i> , 2007 , 10, 1131-1136	2.7	17
73	Molecular dynamics simulation of hydrogen fluoride mixtures with 1-ethyl-3-methylimidazolium fluoride: a simple model for the study of structural features. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3504-10	3.4	17
72	Molecular Dynamics Simulations of Ether-Modified Phosphonium Ionic Liquid Confined in between Planar and Porous Graphene Electrode Models. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10816-10825	3.8	16
71	Structural characterization of eutectic aqueous NaCl solutions under variable temperature and pressure conditions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14054-63	3.6	16
70	Blue Energy and Desalination with Nanoporous Carbon Electrodes: Capacitance from Molecular Simulations to Continuous Models. <i>Physical Review X</i> , 2018 , 8,	9.1	15
69	On the determination of ion transport numbers in molten salts using molecular dynamics. <i>Electrochimica Acta</i> , 2018 , 274, 266-273	6.7	15
68	Understanding the different (dis)charging steps of supercapacitors: influence of potential and solvation. <i>Electrochimica Acta</i> , 2016 , 206, 504-512	6.7	15
67	Thermal transport properties of halide solid solutions: Experiments vs equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2015 , 142, 124109	3.9	14
66	A DFT-Based Aspherical Ion Model for Sodium Aluminosilicate Glasses and Melts. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24370-24381	3.8	14
65	Probing ice VII crystallization from amorphous NaCl-DO solutions at gigapascal pressures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1875-1883	3.6	13
64	Tuning the Electronic Structure of Anatase Through Fluorination. <i>Scientific Reports</i> , 2015 , 5, 11553	4.9	13

63	Computer simulation studies of nanoporous carbon-based electrochemical capacitors. <i>Current Opinion in Electrochemistry</i> , 2018 , 9, 81-86	7.2	13
62	Structural study of Na ₂ O-B ₂ O ₃ -SiO ₂ -La ₂ O ₃ glasses from molecular simulations using a polarizable force field. <i>Journal of Non-Crystalline Solids</i> , 2018 , 499, 371-379	3.9	13
61	On the microscopic fluctuations driving the NMR relaxation of quadrupolar ions in water. <i>Journal of Chemical Physics</i> , 2015 , 143, 194504	3.9	13
60	Coarse graining the dynamics of nano-confined solutes: the case of ions in clays. <i>Molecular Simulation</i> , 2014 , 40, 237-244	2	13
59	Density functional theory, molecular dynamics, and differential scanning calorimetry study of the RbF-CsF phase diagram. <i>Journal of Chemical Physics</i> , 2009 , 130, 134716	3.9	13
58	Role of elemental fluorine in nuclear field. <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 285-295	2.1	13
57	In situ high-temperature EXAFS measurements on radioactive and air-sensitive molten salt materials. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 124-136	2.4	13
56	Size dependence of hydrophobic hydration at electrified gold/water interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
55	Investigation of ionic local structure in molten salt fast reactor LiF-ThF ₄ -UF ₄ fuel by EXAFS experiments and molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2020 , 307, 112927	6	12
54	A comprehensive study of the heat capacity of CsF from T=5K to T=1400K. <i>Journal of Chemical Thermodynamics</i> , 2013 , 57, 92-100	2.9	12
53	Accurate quadrupolar NMR relaxation rates of aqueous cations from classical molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 13252-7	3.4	12
52	Car-Parrinello molecular dynamics study of the uranyl behaviour at the gibbsite/water interface. <i>Journal of Chemical Physics</i> , 2012 , 137, 154705	3.9	12
51	Classical Polarizable Force Field To Study Dry Charged Clays and Zeolites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9833-9846	3.8	11
50	Pressure induced structural transformations in amorphous MgSiO ₃ and CaSiO ₃ . <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 3, 100024	2.5	11
49	Competitive Salt Precipitation/Dissolution During Free-Water Reduction in Water-in-Salt Electrolyte. <i>Angewandte Chemie</i> , 2020 , 132, 16047-16051	3.6	11
48	Solvent-Solvent Correlations across Graphene: The Effect of Image Charges. <i>ACS Nano</i> , 2020 , 14, 7987-7998	3.8	11
47	Structural effects on the electrical conductivity of molten fluorides: Comparison between LiF-NaF ₃ and LiF-NaF ₂ -rF ₄ . <i>Journal of Fluorine Chemistry</i> , 2012 , 134, 44-48	2.1	10
46	Thermal conductivity of simple liquids: origin of temperature and packing fraction dependences. <i>Journal of Chemical Physics</i> , 2014 , 140, 114502	3.9	10

45	Impact of Anion Vacancies on the Local and Electronic Structures of Iron-Based Oxyfluoride Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 107-112	6.4	10
44	Ca -Cl Association in Water Revisited: the Role of Cation Hydration. <i>ChemPhysChem</i> , 2017 , 18, 2807-2811	3.2	9
43	Multiscale modelling of transport in clays from the molecular to the sample scale. <i>Comptes Rendus - Geoscience</i> , 2014 , 346, 298-306	1.4	9
42	Molecular aspects of the Eu ³⁺ /Eu ²⁺ redox reaction at the interface between a molten salt and a metallic electrode. <i>Molecular Physics</i> , 2015 , 113, 2451-2462	1.7	9
41	Ionic Liquids for Supercapacitor Applications. <i>Topics in Current Chemistry Collections</i> , 2017 , 29-53	1.8	9
40	Classical Polarizable Force Field To Study Hydrated Charged Clays and Zeolites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24690-24704	3.8	9
39	Anionic Structure in Molten Cryolite-Alumina Systems. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21807-21816	3.16	9
38	DFT-based polarizable force field for TiO ₂ and SiO ₂ . <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 074005	2	8
37	Classical Polarizable Force Field to Study Hydrated Hectorite: Optimization on DFT Calculations and Validation against XRD Data. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 205	2.4	8
36	Optical basicity scales in protic solvents: water, hydrogen fluoride, ammonia and their mixtures. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6305-8	3.6	8
35	Collective water dynamics in the first solvation shell drive the NMR relaxation of aqueous quadrupolar cations. <i>Journal of Chemical Physics</i> , 2016 , 145, 124508	3.9	7
34	Modeling of Molten Salts 2013 , 1-16		7
33	Computational Screening of the Physical Properties of Water-in-Salt Electrolytes**. <i>Batteries and Supercaps</i> , 2021 , 4, 646-652	5.6	7
32	Confining Water in Ionic and Organic Solvents to Tune Its Adsorption and Reactivity at Electrified Interfaces. <i>Accounts of Chemical Research</i> , 2021 , 54, 1034-1042	24.3	7
31	Structural, Dynamic, and Thermodynamic Study of K ₂ AlF ₃ Melts by Combining High-Temperature NMR and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2147-2156	3.8	6
30	Study of the Partial Charge Transport Properties in the Molten Alumina via Molecular Dynamics. <i>ACS Omega</i> , 2019 , 4, 8022-8030	3.9	6
29	Mass-zero constrained molecular dynamics for electrode charges in simulations of electrochemical systems. <i>Journal of Chemical Physics</i> , 2020 , 152, 194701	3.9	6
28	The effect of dispersion interactions on the properties of LiF in condensed phases. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 244103	1.8	6

27	Transport Properties in Cryolitic Melts: NMR Measurements and Molecular Dynamics Calculations of Self-Diffusion Coefficients. <i>ECS Transactions</i> , 2010 , 33, 679-684	1	6
26	A first-principles investigation of the structural and electrochemical properties of biredox ionic species in acetonitrile. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10561-10568	3.6	5
25	Structure of tetraalkylammonium ionic liquids in the interlayer of modified montmorillonite. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 284107	1.8	5
24	Metal-Ion Oligomerization Inside Electrified Carbon Micropores and its Effect on Capacitive Charge Storage. <i>Advanced Materials</i> , 2021 , e2107439	24	5
23	Comparing the performance of sulfonium and phosphonium ionic liquids as electrolytes for supercapacitors by molecular dynamics simulations. <i>Electrochimica Acta</i> , 2020 , 364, 137181	6.7	5
22	Computational Amperometry of Nanoscale Capacitors in Molecular Simulations. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4357-4361	6.4	5
21	Effect of the metallicity on the capacitance of gold-aqueous sodium chloride interfaces. <i>Journal of Chemical Physics</i> , 2021 , 155, 044703	3.9	5
20	Microscopic Simulations of Electrochemical Double-Layer Capacitors.. <i>Chemical Reviews</i> , 2022 ,	68.1	5
19	Structural and dynamic properties of soda-lime-silica in the liquid phase. <i>Journal of Chemical Physics</i> , 2020 , 153, 214505	3.9	4
18	Solvation of anthraquinone and TEMPO redox-active species in acetonitrile using a polarizable force field. <i>Journal of Chemical Physics</i> , 2021 , 155, 074504	3.9	4
17	First-Principles Determination of Transference Numbers in Cryolitic Melts. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13305-13314	3.9	3
16	Investigation of Fluoroacidity in Molten Fluorides by the Combination of High Temperature NMR and Molecular Dynamics. <i>ECS Transactions</i> , 2010 , 33, 159-165	1	3
15	Molecular Dynamics Simulations of Electrochemical Energy Storage Devices. <i>Green Energy and Technology</i> , 2016 , 61-89	0.6	3
14	A first-principles computational comparison of defect-free and disordered, fluorinated anatase TiO (001) interfaces with water.. <i>RSC Advances</i> , 2020 , 10, 8982-8988	3.7	2
13	In Situ Experimental Approach of Speciation in Molten Fluorides: A Combination of NMR, EXAFS, and Molecular Dynamics 2014 , 219-228		2
12	Effects of Li-ion vacancies on the ionic conduction mechanism of LiMgSO ₄ F. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 074003	2	2
11	In Situ Experimental Approach of the Speciation in Molten Lanthanide and Actinide Fluorides Combining NMR, EXAFS and Molecular Dynamics. <i>ECS Transactions</i> , 2010 , 33, 361-369	1	2
10	Anion Specific Effects Drive the Formation of Li-Salt Based Aqueous Biphasic Systems. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 5365-5372	3.4	2

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| 9 | Structure and dynamics of aqueous NaCl solutions at high temperatures and pressures. <i>Journal of Chemical Physics</i> , 2021 , 155, 194506 | 3.9 | 1 |
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