

Edward J Maginn

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.

219
papers

18,244
citations

68
h-index

132
g-index

243
ext. papers

20,040
ext. citations

5.1
avg. IF

7.15
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 219 | Evolution of microscopic heterogeneity and dynamics in choline chloride-based deep eutectic solvents.. <i>Nature Communications</i> , 2022 , 13, 219 | 17.4 | 3 |
| 218 | Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. <i>ACS Energy Letters</i> , 2022 , 7, 461-470 | 20.1 | 11 |
| 217 | Phase Equilibria and Diffusivities of HFC-32 and HFC-125 in Ionic Liquids for the Separation of R-410A. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 816-830 | 8.3 | 2 |
| 216 | Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. <i>One Earth</i> , 2022 , 5, 413-421 | 8.1 | 2 |
| 215 | Water-In-Salt LiTFSI Aqueous Electrolytes (2): Transport Properties and Li Dynamics Based on Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 13246-13254 | 3.4 | 4 |
| 214 | Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12438-12445 | 16.4 | 23 |
| 213 | Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4501-4513 | 3.4 | 16 |
| 212 | Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie</i> , 2021 , 133, 12546-12553 | 3.6 | 1 |
| 211 | MoSDeF Cassandra: A complete Python interface for the Cassandra Monte Carlo software. <i>Journal of Computational Chemistry</i> , 2021 , 42, 1321-1331 | 3.5 | 2 |
| 210 | Cross-Linking Methodology for Fully Atomistic Models of Hydroxyl-Terminated Polybutadiene and Determination of Mechanical Properties. <i>Macromolecules</i> , 2021 , 54, 4488-4496 | 5.5 | 3 |
| 209 | Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021 , 121, 1232-1285 | 18.5 | 358 |
| 208 | Open-source molecular modeling software in chemical engineering focusing on the Molecular Simulation Design Framework. <i>AIChE Journal</i> , 2021 , 67, e17206 | 3.6 | 6 |
| 207 | A Nitroxide Containing Organic Molecule in a Deep Eutectic Solvent for Flow Battery Applications. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 020527 | 3.9 | 8 |
| 206 | Solvation Dynamics of Wet Ethaline: Water is the Magic Component. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 8888-8901 | 3.4 | 7 |
| 205 | Machine Learning Directed Optimization of Classical Molecular Modeling Force Fields. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4400-4414 | 6.1 | 5 |
| 204 | Computing the Liquidus of Binary Monatomic Salt Mixtures with Direct Simulation and Alchemical Free Energy Methods. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 8498-8513 | 2.8 | 0 |
| 203 | Deep Eutectic Solvents: A New Class of Versatile Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11313-11315 | 3.4 | 15 |

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| 202 | Impact of anion shape on Li solvation and on transport properties for lithium-air batteries: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15842-15852 | 3.6 | 11 |
| 201 | Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5251-5264 | 3.4 | 43 |
| 200 | Layer-based thermal migration of an ionic liquid nano-droplet on a graphene surface: a molecular dynamics study. <i>Molecular Simulation</i> , 2020 , 46, 829-836 | 2 | 2 |
| 199 | Use of a New Size-Weighted Combining Rule to Predict Adsorption in Siliceous Zeolites. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1379-1395 | 2.8 | 2 |
| 198 | Fully Atomistic Molecular Dynamics Simulations of Hydroxyl-Terminated Polybutadiene with Insights into Hydroxyl Aggregation. <i>Macromolecules</i> , 2020 , 53, 2594-2605 | 5.5 | 5 |
| 197 | Melting points of alkali chlorides evaluated for a polarizable and non-polarizable model. <i>Journal of Chemical Physics</i> , 2020 , 153, 011101 | 3.9 | 7 |
| 196 | Signatures of Ion Pairing and Aggregation in the Vibrational Spectroscopy of Super-Concentrated Aqueous Lithium Bistriflimide Solutions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3470-3481 | 3.8 | 26 |
| 195 | Thermodynamic properties and fluid phase equilibrium of natural gas containing CO ₂ and H ₂ O at extreme pressures typically found in pre-salt reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 79, 103337 | 4.6 | 1 |
| 194 | The role of cations in uranyl nanocluster association: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1847-1854 | 3.6 | |
| 193 | Effect of alkyl-group flexibility on the melting point of imidazolium-based ionic liquids. <i>Journal of Chemical Physics</i> , 2020 , 153, 044504 | 3.9 | 11 |
| 192 | Phase Equilibria, Diffusivities, and Equation of State Modeling of HFC-32 and HFC-125 in Imidazolium-Based Ionic Liquids for the Separation of R-410A. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18222-18235 | 3.9 | 15 |
| 191 | SEM-Drude Model for the Accurate and Efficient Simulation of MgCl-KCl Mixtures in the Condensed Phase. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7832-7842 | 2.8 | 4 |
| 190 | Structure and dynamics of the molten alkali-chloride salts from an X-ray, simulation, and rate theory perspective. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22900-22917 | 3.6 | 8 |
| 189 | Comparison of fixed charge and polarizable models for predicting the structural, thermodynamic, and transport properties of molten alkali chlorides. <i>Journal of Chemical Physics</i> , 2020 , 153, 214502 | 3.9 | 7 |
| 188 | Prediction of membrane separation efficiency for hydrophobic and hydrophilic proteins : A coarse-grained Brownian dynamics simulation study. <i>Journal of Molecular Modeling</i> , 2019 , 25, 132 | 2 | |
| 187 | PyLAT: Python LAMMPS Analysis Tools. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 1301-1305 | 5 | 25 |
| 186 | Best Practices for Computing Transport Properties 1. Self-Diffusivity and Viscosity from Equilibrium Molecular Dynamics [Article v1.0]. <i>Living Journal of Computational Molecular Science</i> , 2019 , 1, | 10.1 | 56 |
| 185 | Solvation Structure and Dynamics of Li in Ternary Ionic Liquid-Lithium Salt Electrolytes. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 516-527 | 3.4 | 35 |

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| 184 | A molecular dynamics study of lithium-containing aprotic heterocyclic ionic liquid electrolytes. <i>Journal of Chemical Physics</i> , 2018 , 148, 193834 | 3.9 | 26 |
| 183 | Role of Molecular Modeling in the Development of CO-Reactive Ionic Liquids. <i>Chemical Reviews</i> , 2018 , 118, 5242-5260 | 68.1 | 47 |
| 182 | Temperature Dependence of Volumetric and Dynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2414-2424 | 3.4 | 14 |
| 181 | Reaction Ensemble Monte Carlo Simulations of CO Absorption in the Reactive Ionic Liquid Triethyl(octyl)phosphonium 2-Cyanopyrrolide. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5213-5218 | 6.4 | 9 |
| 180 | Evaluation and Refinement of the General AMBER Force Field for Nineteen Pure Organic Electrolyte Solvents. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 3488-3502 | 2.8 | 13 |
| 179 | Evaluating physical properties of the orthorhombic crystal phase of ammonium perchlorate using a Class II force field. <i>Journal of Chemical Physics</i> , 2018 , 149, 244502 | 3.9 | 3 |
| 178 | Simulation and measurement of water-induced liquid-liquid phase separation of imidazolium ionic liquid mixtures. <i>Journal of Chemical Physics</i> , 2018 , 149, 164503 | 3.9 | 3 |
| 177 | Anion Enhancement at the Liquid-Vacuum Interface of an Ionic Liquid Mixture. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27392-27401 | 3.8 | 16 |
| 176 | Investigation of the Relationship between Solvation Structure and Battery Performance in Highly Concentrated Aqueous Nitroxy Radical Catholyte. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13815-13826 | 3.8 | 9 |
| 175 | A molecular dynamics investigation of actinyl-ligand speciation in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15753-15763 | 3.6 | 8 |
| 174 | Hybrid Computational Strategy for Predicting CO ₂ Solubilities in Reactive Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14213-14221 | 3.8 | 8 |
| 173 | How mixing tetraglyme with the ionic liquid 1-n-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide changes volumetric and transport properties: An experimental and computational study. <i>Chemical Engineering Science</i> , 2017 , 159, 43-57 | 4.4 | 19 |
| 172 | Influence of Hofmeister Ions on the Structure of Proline-Based Peptide Models: A Combined Experimental and Molecular Modeling Study. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 2062-2072 | 3.4 | 6 |
| 171 | Molecular Simulation Study of the Performance of Supported Ionic Liquid Phase Materials for the Separation of Carbon Dioxide from Methane and Hydrogen. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6775-6784 | 3.9 | 33 |
| 170 | Discrete Fractional Component Monte Carlo Simulation Study of Dilute Nonionic Surfactants at the Air-Water Interface. <i>Langmuir</i> , 2017 , 33, 9793-9802 | 4 | 7 |
| 169 | The solubility of gases in ionic liquids. <i>AIChE Journal</i> , 2017 , 63, 4722-4737 | 3.6 | 41 |
| 168 | Computational Design of New Magnesium Electrolytes with Improved Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16126-16136 | 3.8 | 21 |
| 167 | Reaction Ensemble Monte Carlo Simulation of Xylene Isomerization in Bulk Phases and under Confinement. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4054-4062 | 6.4 | 12 |

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| 166 | Assessing the reliability of computing ion pair lifetimes and self-diffusivity to predict experimental viscosity trends of ionic liquids. <i>Molecular Systems Design and Engineering</i> , 2017 , 2, 293-300 | 4.6 | 10 |
| 165 | Development of an AMBER-compatible transferable force field for poly(ethylene glycol) ethers (glymes). <i>Journal of Molecular Modeling</i> , 2017 , 23, 194 | 2 | 14 |
| 164 | Use of molecular dynamics simulations to estimate the solubility of menadione in supercritical CO ₂ using ChrastilB model. <i>Fluid Phase Equilibria</i> , 2017 , 433, 112-118 | 2.5 | 6 |
| 163 | Monte Carlo simulations of water solubility in ionic liquids: A force field assessment. <i>Fluid Phase Equilibria</i> , 2016 , 407, 117-125 | 2.5 | 25 |
| 162 | Anion Dependent Dynamics and Water Solubility Explained by Hydrogen Bonding Interactions in Mixtures of Water and Aprotic Heterocyclic Anion Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12679-12686 | 3.4 | 15 |
| 161 | Liquid Structure of CO-Reactive Aprotic Heterocyclic Anion Ionic Liquids from X-ray Scattering and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 11951-11960 | 3.4 | 8 |
| 160 | Why are some cyano-based ionic liquids better glucose solvents than water?. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18958-70 | 3.6 | 11 |
| 159 | Molecular Design of High CO ₂ Reactivity and Low Viscosity Ionic Liquids for CO ₂ Separative Facilitated Transport Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2821-2830 | 3.9 | 21 |
| 158 | Molecular mechanisms of ionic liquid cytotoxicity probed by an integrated experimental and computational approach. <i>Scientific Reports</i> , 2016 , 6, 19889 | 4.9 | 72 |
| 157 | System-size corrections for self-diffusion coefficients calculated from molecular dynamics simulations: The case of CO ₂ , n-alkanes, and poly(ethylene glycol) dimethyl ethers. <i>Journal of Chemical Physics</i> , 2016 , 145, 074109 | 3.9 | 60 |
| 156 | Molecular Mechanism of Ionic-Liquid-Induced Membrane Disruption: Morphological Changes to Bilayers, Multilayers, and Vesicles. <i>Langmuir</i> , 2016 , 32, 5403-11 | 4 | 54 |
| 155 | Reliable Viscosity Calculation from Equilibrium Molecular Dynamics Simulations: A Time Decomposition Method. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3537-46 | 6.4 | 168 |
| 154 | Molecular dynamics simulation study of the association of lidocainium docusate and its derivatives in aqueous solution. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1893-901 | 5.6 | 9 |
| 153 | Monte Carlo simulation and SAFT modeling study of the solvation thermodynamics of dimethylformamide, dimethylsulfoxide, ethanol and 1-propanol in the ionic liquid trimethylbutylammonium bis(trifluoromethylsulfonyl)imide. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7410-18 | 3.6 | 9 |
| 152 | Speciation, conductivities, diffusivities, and electrochemical reduction as a function of water content in mixtures of hydrated chromium chloride/choline chloride. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6018-23 | 3.4 | 26 |
| 151 | The Electrolyte Genome project: A big data approach in battery materials discovery. <i>Computational Materials Science</i> , 2015 , 103, 56-67 | 3.2 | 123 |
| 150 | Molecular Simulation Study of the Solubility, Diffusivity and Permselectivity of Pure and Binary Mixtures of CO ₂ and CH ₄ in the Ionic Liquid 1-n-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 8821-8828 | 3.9 | 31 |
| 149 | Evaluation of the GROMOS 56ACARBO Force Field for the Calculation of Structural, Volumetric, and Dynamic Properties of Aqueous Glucose Systems. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 15310-34 | 3.4 | 10 |

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| 148 | Molecular dynamics simulations of 1-ethyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]imide clusters and nanodrops. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 352-68 | 2.8 | 21 |
| 147 | A Monte Carlo Simulation Study To Predict the Solubility of Carbon Dioxide, Hydrogen, and Their Mixture in the Ionic Liquids 1-Alkyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide ([Cnmim+][Tf2N] ⁻ , n = 4, 6). <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 4385-4395 | 3.9 | 18 |
| 146 | Molecular Topology and Local Dynamics Govern the Viscosity of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14934-44 | 3.4 | 44 |
| 145 | Direct Correlation between Ionic Liquid Transport Properties and Ion Pair Lifetimes: A Molecular Dynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 700-5 | 6.4 | 171 |
| 144 | Water solubility and dynamics of CO ₂ capture ionic liquids having aprotic heterocyclic anions. <i>Fluid Phase Equilibria</i> , 2014 , 368, 72-79 | 2.5 | 30 |
| 143 | A Computational and Experimental Study of the Heat Transfer Properties of Nine Different Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 391-399 | 2.8 | 91 |
| 142 | Molecular Simulation of Ionic Liquids: Where We Are and the Path Forward 2014 , 149-192 | | 4 |
| 141 | Transport properties of carbon dioxide and methane from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2014 , 141, 134101 | 3.9 | 68 |
| 140 | Amphiphilic interactions of ionic liquids with lipid biomembranes: a molecular simulation study. <i>Soft Matter</i> , 2014 , 10, 8641-51 | 3.6 | 92 |
| 139 | Molecular dynamics study of the effect of alkyl chain length on melting points of [CnMIM][PF ₆] ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13489-99 | 3.6 | 56 |
| 138 | Dynamics of actinyl ions in water: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8060-9 | 3.6 | 32 |
| 137 | Refined method for predicting electrochemical windows of ionic liquids and experimental validation studies. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6250-5 | 3.4 | 39 |
| 136 | Relationship between Diffusion and Chemical Exchange in Mixtures of Carbon Dioxide and an Amine-Functionalized Ionic Liquid by High Field NMR and Kinetic Monte Carlo Simulations. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1766-70 | 6.4 | 8 |
| 135 | Thermodynamic Properties of Supercritical Mixtures of Carbon Dioxide and Methane: A Molecular Simulation Study. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 3041-3054 | 2.8 | 31 |
| 134 | Force field comparison and thermodynamic property calculation of supercritical CO ₂ and CH ₄ using molecular dynamics simulations. <i>Fluid Phase Equilibria</i> , 2014 , 368, 80-90 | 2.5 | 67 |
| 133 | Structure and dynamics of uranyl(VI) and plutonyl(VI) cations in ionic liquid/water mixtures via molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10852-68 | 3.4 | 32 |
| 132 | Predicting the Solubility of Solid Phenanthrene: A Combined Molecular Simulation and Group Contribution Approach. <i>AIChE Journal</i> , 2013 , 59, 2647-2661 | 3.6 | 29 |
| 131 | Development and application of effective pairwise potentials for UO ₂ (n ⁺), NpO ₂ (n ⁺), PuO ₂ (n ⁺), and AmO ₂ (n ⁺) (n = 1, 2) ions with water. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15954-63 | 3.6 | 35 |

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| 130 | State of hydrophobic and hydrophilic ionic liquids in aqueous solutions: are the ions fully dissociated?. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12556-66 | 3.4 | 84 |
| 129 | Effect of ion structure on conductivity in lithium-doped ionic liquid electrolytes: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2013 , 139, 114508 | 3.9 | 62 |
| 128 | Toward Fully in Silico Melting Point Prediction Using Molecular Simulations. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1592-9 | 6.4 | 11 |
| 127 | Making sense of enthalpy of vaporization trends for ionic liquids: new experimental and simulation data show a simple linear relationship and help reconcile previous data. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6473-86 | 3.4 | 142 |
| 126 | Efficient Estimation of the Equilibrium Solution-Phase Fugacity of Soluble Nonelectrolyte Solids in Binary Solvents by Molecular Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 13743-13760 | 3.9 | 11 |
| 125 | A comparison of the solvation thermodynamics of amino acid analogues in water, 1-octanol and 1-n-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids by molecular simulation. <i>Journal of Chemical Physics</i> , 2012 , 137, 184504 | 3.9 | 17 |
| 124 | Combined application of high-field diffusion NMR and molecular dynamics simulations to study dynamics in a mixture of carbon dioxide and an imidazolium-based ionic liquid. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9141-51 | 3.4 | 42 |
| 123 | Benchmark Values: Thermochemistry of the Ionic Liquid [C4Py][Cl]. <i>Australian Journal of Chemistry</i> , 2012 , 65, 1487 | 1.2 | 15 |
| 122 | Thermal and Transport Properties of Six Ionic Liquids: An Experimental and Molecular Dynamics Study. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7242-7254 | 3.9 | 152 |
| 121 | A simple AIMD approach to derive atomic charges for condensed phase simulation of ionic liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10036-48 | 3.4 | 146 |
| 120 | Force field development for actinyl ions via quantum mechanical calculations: an approach to account for many body solvation effects. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10885-97 | 3.4 | 35 |
| 119 | The effect of C2 substitution on melting point and liquid phase dynamics of imidazolium based-ionic liquids: insights from molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12157-64 | 3.6 | 81 |
| 118 | Critical behaviour and vapour-liquid coexistence of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids via Monte Carlo simulations. <i>Faraday Discussions</i> , 2012 , 154, 53-69; discussion 81-96, 465-71 | 3.6 | 50 |
| 117 | A comparison of methods for melting point calculation using molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2012 , 136, 144116 | 3.9 | 94 |
| 116 | An elegant access to formation and vaporization enthalpies of ionic liquids by indirect DSC experiment and "in silico" calculations. <i>Chemical Communications</i> , 2012 , 48, 6915-7 | 5.8 | 21 |
| 115 | An MD study of the applicability of the Walden rule and the Nernst-Einstein model for ionic liquids. <i>ChemPhysChem</i> , 2012 , 13, 1701-7 | 3.2 | 24 |
| 114 | A general and efficient Monte Carlo method for sampling intramolecular degrees of freedom of branched and cyclic molecules. <i>Journal of Chemical Physics</i> , 2011 , 135, 134121 | 3.9 | 63 |
| 113 | Molecular dynamics simulations of carbon dioxide and water at an ionic liquid interface. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10488-99 | 3.4 | 61 |

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| 112 | Efficient Solvation Free Energy Calculations of Amino Acid Analogs by Expanded Ensemble Molecular Simulation. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 1394-403 | 6.4 | 26 |
| 111 | A molecular dynamics investigation of the structural and dynamic properties of the ionic liquid 1-n-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. <i>Journal of Chemical Physics</i> , 2011 , 135, 124507 | 3.9 | 149 |
| 110 | Vapor-Liquid Coexistence and Critical Behavior of Ionic Liquids via Molecular Simulations. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1439-1443 | 6.4 | 65 |
| 109 | Small Molecule Solvation Free Energy: Enhanced Conformational Sampling Using Expanded Ensemble Molecular Dynamics Simulation. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2910-8 | 6.4 | 37 |
| 108 | Reaction Ensemble Monte Carlo Simulation of Complex Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 269-79 | 6.4 | 31 |
| 107 | Structure and Dynamics of Neat and CO ₂ -Reacted Ionic Liquid Tetrabutylphosphonium 2-Cyanopyrrolide. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8983-8993 | 3.9 | 52 |
| 106 | Predicting the Solubility of the Sparingly Soluble Solids 1,2,4,5-Tetramethylbenzene, Phenanthrene, and Fluorene in Various Organic Solvents by Molecular Simulation. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1587-1595 | 2.8 | 15 |
| 105 | A method for computing the solubility limit of solids: application to sodium chloride in water and alcohols. <i>Journal of Chemical Physics</i> , 2010 , 133, 124504 | 3.9 | 59 |
| 104 | Molecular Design of High Capacity, Low Viscosity, Chemically Tunable Ionic Liquids for CO ₂ Capture. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3494-3499 | 6.4 | 335 |
| 103 | Limitations and recommendations for the calculation of shear viscosity using reverse nonequilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2010 , 132, 014103 | 3.9 | 53 |
| 102 | Historical Perspective and Current Outlook for Molecular Dynamics As a Chemical Engineering Tool. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 3059-3078 | 3.9 | 86 |
| 101 | ¹ H NMR and molecular dynamics evidence for an unexpected interaction on the origin of salting-in/salting-out phenomena. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2004-14 | 3.4 | 109 |
| 100 | Molecular dynamics simulations of CO ₂ at an ionic liquid interface: adsorption, ordering, and interfacial crossing. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11827-37 | 3.4 | 90 |
| 99 | Molecular Modeling of the Vapor-Liquid Equilibrium Properties of the Alternative Refrigerant 2,3,3,3-Tetrafluoro-1-propene (HFO-1234yf). <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 93-96 | 6.4 | 40 |
| 98 | A force field for 3,3,3-fluoro-1-propenes, including HFO-1234yf. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10133-42 | 3.4 | 62 |
| 97 | Molecular Simulation of Polyelectrolyte Conformational Dynamics under an AC Electric Field. <i>Macromolecules</i> , 2010 , 43, 4805-4813 | 5.5 | 18 |
| 96 | Molecular Simulation of the Thermal and Transport Properties of Three Alkali Nitrate Salts. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 559-571 | 3.9 | 53 |
| 95 | What to Do with CO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3478-3479 | 6.4 | 82 |

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|----|---|------|-----|
| 94 | Molecular dynamics investigation of biomimetic ionic liquids. <i>Fluid Phase Equilibria</i> , 2010 , 294, 197-205 | 2.5 | 23 |
| 93 | Atomistic Simulation of Ionic Liquids. <i>Reviews in Computational Chemistry</i> , 2009 , 421-493 | | 5 |
| 92 | Force field for the atomistic simulation of the properties of hydrazine, organic hydrazine derivatives, and energetic hydrazinium ionic liquids. <i>Pure and Applied Chemistry</i> , 2009 , 81, 1799-1828 | 2.1 | 27 |
| 91 | Molecular simulation of ammonia absorption in the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ([emim][Tf2N]). <i>AIChE Journal</i> , 2009 , 55, 2414-2421 | 3.6 | 70 |
| 90 | From discovery to data: What must happen for molecular simulation to become a mainstream chemical engineering tool. <i>AIChE Journal</i> , 2009 , 55, 1304-1310 | 3.6 | 59 |
| 89 | COSMO-RS Calculations of Partition Coefficients: Different Tools for Conformation Search. <i>Chemical Engineering and Technology</i> , 2009 , 32, 977-986 | 2 | 43 |
| 88 | Molecular simulation of ionic liquids: current status and future opportunities. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 373101 | 1.8 | 250 |
| 87 | Absorption of CO ₂ in the ionic liquid 1-n-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate ([hmim][FEP]): a molecular view by computer simulations. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7591-8 | 3.4 | 117 |
| 86 | Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009 , 2, 559 | 35.4 | 311 |
| 85 | Influence of water on diffusion in imidazolium-based ionic liquids: a pulsed field gradient NMR study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6353-9 | 3.4 | 93 |
| 84 | Determining the Accuracy of Classical Force Fields for Ionic Liquids: Atomistic Simulation of the Thermodynamic and Transport Properties of 1-Ethyl-3-methylimidazolium Ethylsulfate ([emim][EtSO ₄]) and Its Mixtures with Water. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9115-9126 | 3.9 | 95 |
| 83 | Molecular simulation and regular solution theory modeling of pure and mixed gas absorption in the ionic liquid 1-n-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ([hmim][Tf2N]). <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16710-20 | 3.4 | 84 |
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