Edward J Maginn

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68 18,244 219 132 h-index g-index citations papers 20,040 5.1 7.15 243 avg, IF L-index ext. papers ext. citations

| # | Paper | IF | Citations |
|-----|---|------------------|-----------|
| 219 | Why Is CO2 so soluble in imidazolium-based ionic liquids?. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5300-8 | 16.4 | 1213 |
| 218 | Ionic liquids: Innovative fluids for chemical processing. AICHE Journal, 2001, 47, 2384-2389 | 3.6 | 1171 |
| 217 | Anion effects on gas solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6366-74 | 3.4 | 835 |
| 216 | Solubilities and Thermodynamic Properties of Gases in the Ionic Liquid 1-n-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7315- | 7 32 0 | 829 |
| 215 | Molecular Dynamics Study of the Ionic Liquid 1-n-Butyl-3-methylimidazolium Hexafluorophosphate. Journal of Physical Chemistry B, 2002 , 106, 12807-12813 | 3.4 | 638 |
| 214 | Solution Thermodynamics of Imidazolium-Based Ionic Liquids and Water. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10942-10949 | 3.4 | 606 |
| 213 | Assessing the factors responsible for ionic liquid toxicity to aquatic organisms via quantitative structure property relationship modeling. <i>Green Chemistry</i> , 2006 , 8, 82-90 | 10 | 488 |
| 212 | Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021 , 121, 1232 | 2 -62.8 5 | 358 |
| 211 | Liquid Phase Behavior of Imidazolium-Based Ionic Liquids with Alcohols. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5113-5119 | 3.4 | 355 |
| 210 | Amine-functionalized task-specific ionic liquids: a mechanistic explanation for the dramatic increase in viscosity upon complexation with CO2 from molecular simulation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14690-704 | 16.4 | 351 |
| 209 | Molecular Design of High Capacity, Low Viscosity, Chemically Tunable Ionic Liquids for CO2 Capture. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3494-3499 | 6.4 | 335 |
| 208 | Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009 , 2, 559 | 35.4 | 311 |
| 207 | Measurement of SO2 solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15059-62 | 3.4 | 292 |
| 206 | Transport diffusivity of methane in silicalite from equilibrium and nonequilibrium simulations. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 4173-4181 | | 282 |
| 205 | Molecular simulation of ionic liquids: current status and future opportunities. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 373101 | 1.8 | 250 |
| 204 | Thermodynamic properties of the ionic liquid 1-n-butyl-3-methylimidazolium hexafluorophosphate from Monte Carlo simulations. <i>Green Chemistry</i> , 2002 , 4, 112-118 | 10 | 226 |
| 203 | Molecular modeling and experimental studies of the thermodynamic and transport properties of pyridinium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2821-32 | 3.4 | 209 |

[1996-2007]

| 202 | 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide as studied by atomistic simulations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4867-76 | 3.4 | 207 | |
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| 201 | Atomistic simulation of the thermodynamic and transport properties of ionic liquids. <i>Accounts of Chemical Research</i> , 2007 , 40, 1200-7 | 24.3 | 204 | |
| 200 | High temperature separation of carbon dioxide/hydrogen mixtures using facilitated supported ionic liquid membranes. <i>Journal of Membrane Science</i> , 2008 , 322, 28-31 | 9.6 | 198 | |
| 199 | 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 | |
| 198 | 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 | |
| 197 | Atomistic simulation of the absorption of carbon dioxide and water in the ionic liquid 1-n-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide ([hmim][Tf2N]. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2045-55 | 3.4 | 167 | |
| 196 | Continuous Fractional Component Monte Carlo: An Adaptive Biasing Method for Open System Atomistic Simulations. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1451-63 | 6.4 | 156 | |
| 195 | A critical comparison of equilibrium, non-equilibrium and boundary-driven molecular dynamics techniques for studying transport in microporous materials. <i>Journal of Chemical Physics</i> , 2001 , 115, 817 | 12 ³ 8 ⁹ 124 | ! ¹⁵³ | |
| 194 | Thermal and Transport Properties of Six Ionic Liquids: An Experimental and Molecular Dynamics Study. <i>Industrial & Dynamics Chemistry Research</i> , 2012 , 51, 7242-7254 | 3.9 | 152 | |
| 193 | Monte Carlo simulations of gas solubility in the ionic liquid 1-n-butyl-3-methylimidazolium hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10395-405 | 3.4 | 150 | |
| 192 | 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 | |
| 191 | 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 | |
| 190 | Predicting melting points of quaternary ammonium ionic liquids. <i>Green Chemistry</i> , 2003 , 5, 323 | 10 | 143 | |
| 189 | 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 | |
| 188 | A biased grand canonical Monte Carlo method for simulating adsorption using all-atom and branched united atom models. <i>Molecular Physics</i> , 1999 , 96, 1375-1390 | 1.7 | 141 | |
| 187 | Molecular simulation study of some thermophysical and transport properties of triazolium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18026-39 | 3.4 | 135 | |
| 186 | Sorption Thermodynamics, Siting, and Conformation of Long n-Alkanes in Silicalite As Predicted by Configurational-Bias Monte Carlo Integration. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 2057-2079 | | 134 | |
| 185 | Dynamics of Long n-Alkanes in Silicalite: A Hierarchical Simulation Approach. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 7155-7173 | | 129 | |

| 184 | Liquid phase behavior of ionic liquids with alcohols: experimental studies and modeling. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9354-61 | 3.4 | 127 |
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| 183 | Synthesis, structural characterization, and molecular modeling of dodecaniobate keggin chain materials. <i>Inorganic Chemistry</i> , 2005 , 44, 1774-85 | 5.1 | 125 |
| 182 | The Electrolyte Genome project: A big data approach in battery materials discovery. <i>Computational Materials Science</i> , 2015 , 103, 56-67 | 3.2 | 123 |
| 181 | Absorption of CO2 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 |
| 180 | Liquid phase behavior of imidazolium-based ionic liquids with alcohols: effect of hydrogen bonding and non-polar interactions. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 303-309 | 2.5 | 116 |
| 179 | Heavy Metal Remediation Using Functionalized Mesoporous Silicas with Controlled Macrostructure. <i>Langmuir</i> , 2001 , 17, 528-533 | 4 | 115 |
| 178 | Adsorption Studies of Methane, Ethane, and Argon in the Zeolite Mordenite: Molecular Simulations and Experiments. <i>Langmuir</i> , 2000 , 16, 3823-3834 | 4 | 114 |
| 177 | Molecular Dynamics Simulations of Alkanes in the Zeolite Silicalite: Evidence for Resonant Diffusion Effects. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6394-6408 | 3.4 | 113 |
| 176 | Calculating the enthalpy of vaporization for ionic liquid clusters. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 9424-7 | 3.4 | 110 |
| 175 | 1H 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 |
| 174 | Photoelectron spectrum of isolated ion-pairs in ionic liquid vapor. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3191-5 | 2.8 | 98 |
| 173 | Molecular Simulations of Knudsen Wall-slip: Effect of Wall Morphology. <i>Molecular Simulation</i> , 2003 , 29, 697-709 | 2 | 98 |
| 172 | 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][EtSO4]) and Its Mixtures with Water. <i>Industrial & Day: Engineering Chemistry Research</i> , 2008 | 3.9 | 95 |
| 171 | , 47, 9115-9126 A comparison of methods for melting point calculation using molecular dynamics simulations. Journal of Chemical Physics, 2012, 136, 144116 | 3.9 | 94 |
| 170 | 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 |
| 169 | Amphiphilic interactions of ionic liquids with lipid biomembranes: a molecular simulation study. <i>Soft Matter</i> , 2014 , 10, 8641-51 | 3.6 | 92 |
| 168 | A Computational and Experimental Study of the Heat Transfer Properties of Nine Different Ionic Liquids. <i>Journal of Chemical & Data</i> , 2014, 59, 391-399 | 2.8 | 91 |
| 167 | Molecular dynamics simulations of CO2 at an ionic liquid interface: adsorption, ordering, and interfacial crossing. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11827-37 | 3.4 | 90 |

(2011-2004)

| 166 | Feasibility of using ionic liquids for carbon dioxide capture. <i>International Journal of Environmental Technology and Management</i> , 2004 , 4, 105 | 0.6 | 89 |
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| 165 | 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 |
| 164 | Toward a robust and general molecular simulation method for computing solid-liquid coexistence. Journal of Chemical Physics, 2005 , 122, 14115 | 3.9 | 85 |
| 163 | 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 |
| 162 | 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 |
| 161 | What to Do with CO2. Journal of Physical Chemistry Letters, 2010, 1, 3478-3479 | 6.4 | 82 |
| 160 | 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 |
| 159 | Improvement in molecule exchange efficiency in Gibbs ensemble Monte Carlo: development and implementation of the continuous fractional component move. <i>Journal of Computational Chemistry</i> , 2008 , 29, 2520-30 | 3.5 | 81 |
| 158 | A Monte Carlo simulation study of the ionic liquid 1-n-butyl-3-methylimidazolium hexafluorophosphate: liquid structure, volumetric properties and infinite dilution solution thermodynamics of CO2. <i>Fluid Phase Equilibria</i> , 2004 , 222-223, 195-203 | 2.5 | 78 |
| 157 | Predicting Infinite-Dilution Activity Coefficients of Organic Solutes in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1039-1048 | 3.9 | 77 |
| 156 | Knudsen diffusivity of a hard sphere in a rough slit pore. <i>Physical Review Letters</i> , 2003 , 91, 026102 | 7.4 | 73 |
| 155 | Molecular mechanisms of ionic liquid cytotoxicity probed by an integrated experimental and computational approach. <i>Scientific Reports</i> , 2016 , 6, 19889 | 4.9 | 72 |
| 154 | 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 |
| 153 | Transport properties of carbon dioxide and methane from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2014 , 141, 134101 | 3.9 | 68 |
| 152 | Molecular Simulation of Poly-Belefin Synthetic Lubricants: Impact of Molecular Architecture on Performance Properties. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 10781-10790 | 3.4 | 68 |
| 151 | Force field comparison and thermodynamic property calculation of supercritical CO2 and CH4 using molecular dynamics simulations. <i>Fluid Phase Equilibria</i> , 2014 , 368, 80-90 | 2.5 | 67 |
| 150 | Computing the melting point and thermodynamic stability of the orthorhombic and monoclinic crystalline polymorphs of the ionic liquid 1-n-butyl-3-methylimidazolium chloride. <i>Journal of Chemical Physics</i> , 2007 , 127, 214504 | 3.9 | 66 |
| 149 | Vaporlliquid Coexistence and Critical Behavior of Ionic Liquids via Molecular Simulations. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1439-1443 | 6.4 | 65 |

| 148 | Impact of Molecular Architecture on the High-Pressure Rheology of Hydrocarbon Fluids. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7774-7783 | 3.4 | 65 |
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| 147 | 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 |
| 146 | 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 |
| 145 | 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 |
| 144 | Effect of the Surface Energy Barrier on Sorbate Diffusion in AlPO4-5. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2725-2735 | 3.4 | 62 |
| 143 | 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 |
| 142 | System-size corrections for self-diffusion coefficients calculated from molecular dynamics simulations: The case of CO2, n-alkanes, and poly(ethylene glycol) dimethyl ethers. <i>Journal of Chemical Physics</i> , 2016 , 145, 074109 | 3.9 | 60 |
| 141 | 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 |
| 140 | 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 |
| 139 | Prediction of viscosities and vapor Ilquid equilibria for five polyhydric alcohols by molecular simulation. <i>Fluid Phase Equilibria</i> , 2007 , 260, 218-231 | 2.5 | 58 |
| 138 | Atomistic simulation of solid-liquid coexistence for molecular systems: application to triazole and benzene. <i>Journal of Chemical Physics</i> , 2006 , 124, 164503 | 3.9 | 58 |
| 137 | Molecular dynamics study of the effect of alkyl chain length on melting points of [CnMIM][PF6] ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13489-99 | 3.6 | 56 |
| 136 | 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 |
| 135 | Molecular Mechanism of Ionic-Liquid-Induced Membrane Disruption: Morphological Changes to Bilayers, Multilayers, and Vesicles. <i>Langmuir</i> , 2016 , 32, 5403-11 | 4 | 54 |
| 134 | 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 |
| 133 | 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 |
| 132 | Structure and Dynamics of Neat and CO2-Reacted Ionic Liquid Tetrabutylphosphonium 2-Cyanopyrrolide. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8983-8993 | 3.9 | 52 |
| 131 | Critical behaviour and vapour-liquid coexistence of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids via Monte Carlo simulations. <i>Faraday Discussions</i> , | 3.6 | 50 |

(2019-2008)

| 130 | Ion-Exchange Behavior of One-Dimensional Linked Dodecaniobate Keggin Ion Materials. <i>Chemistry of Materials</i> , 2008 , 20, 2513-2521 | 9.6 | 50 | |
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| 129 | Comparison of heterogeneous and homogeneous bubble nucleation using molecular simulations. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 49 | |
| 128 | Pure and binary component sorption equilibria of light hydrocarbons in the zeolite silicalite from grand canonical Monte Carlo simulations. <i>Fluid Phase Equilibria</i> , 1999 , 158-160, 19-27 | 2.5 | 49 | |
| 127 | Role of Molecular Modeling in the Development of CO-Reactive Ionic Liquids. <i>Chemical Reviews</i> , 2018 , 118, 5242-5260 | 68.1 | 47 | |
| 126 | Efficient viscosity estimation from molecular dynamics simulation via momentum impulse relaxation. <i>Journal of Chemical Physics</i> , 2000 , 113, 2079-2087 | 3.9 | 46 | |
| 125 | Molecular Topology and Local Dynamics Govern the Viscosity of Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2015 , 119, 14934-44 | 3.4 | 44 | |
| 124 | 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 | |
| 123 | COSMO-RS Calculations of Partition Coefficients: Different Tools for Conformation Search. <i>Chemical Engineering and Technology</i> , 2009 , 32, 977-986 | 2 | 43 | |
| 122 | Experimental and theoretical methods to investigate extraframework species in a layered material of dodecaniobate anions. <i>Inorganic Chemistry</i> , 2007 , 46, 2067-79 | 5.1 | 43 | |
| 121 | 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 | |
| 120 | Rheology, dynamics, and structure of hydrocarbon blends: a molecular dynamics study of n-hexane/n-hexadecane mixtures. <i>Chemical Engineering Journal</i> , 1999 , 74, 129-146 | 14.7 | 42 | |
| 119 | The solubility of gases in ionic liquids. <i>AICHE Journal</i> , 2017 , 63, 4722-4737 | 3.6 | 41 | |
| 118 | Molecular Modeling of the Vaporlliquid 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 | |
| 117 | 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 | |
| 116 | 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 | |
| 115 | Development and application of effective pairwise potentials for $UO2(n+)$, $NpO2(n+)$, $PuO2(n+)$, and $AmO2(n+)$ ($n = 1, 2$) ions with water. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15954-63 | 3.6 | 35 | |
| 114 | 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 | |
| 113 | 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 | |

| 112 | Molecular Simulation Study of the Performance of Supported Ionic Liquid Phase Materials for the Separation of Carbon Dioxide from Methane and Hydrogen. <i>Industrial & Dioxide From Methane and Hydrogen</i> . | 3.9 | 33 |
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| 111 | Dynamics of actinyl ions in water: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8060-9 | 3.6 | 32 |
| 110 | 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 |
| 109 | Molecular Simulation Study of the Solubility, Diffusivity and Permselectivity of Pure and Binary Mixtures of CO2 and CH4 in the Ionic Liquid 1-n-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Industrial & Discontinuoromethylsulfonyl</i>) imide. <i>Industrial & Discontinuoromethylsulfonyl</i> imide. <i>Industrial & Discontinuoromethylsu</i> | 3.9 | 31 |
| 108 | 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 |
| 107 | Reaction Ensemble Monte Carlo Simulation of Complex Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 269-79 | 6.4 | 31 |
| 106 | Water solubility and dynamics of CO2 capture ionic liquids having aprotic heterocyclic anions. <i>Fluid Phase Equilibria</i> , 2014 , 368, 72-79 | 2.5 | 30 |
| 105 | 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 |
| 104 | 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 |
| 103 | Density, local composition and diffusivity of aqueous choline chloride solutions: a molecular dynamics study. <i>Fluid Phase Equilibria</i> , 2004 , 217, 97-104 | 2.5 | 27 |
| 102 | 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 |
| 101 | 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 |
| 100 | A molecular dynamics study of lithium-containing aprotic heterocyclic ionic liquid electrolytes. Journal of Chemical Physics, 2018 , 148, 193834 | 3.9 | 26 |
| 99 | 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 |
| 98 | 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 |
| 97 | PyLAT: Python LAMMPS Analysis Tools. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 1301-13 | 3 65 1 | 25 |
| 96 | 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 |
| 95 | Molecular dynamics investigation of biomimetic ionic liquids. <i>Fluid Phase Equilibria</i> , 2010 , 294, 197-205 | 2.5 | 23 |

(2016-2002)

| 94 | Pressure-enthalpy driven molecular dynamics for thermodynamic property calculation II: applications. <i>Fluid Phase Equilibria</i> , 2002 , 200, 93-110 | 2.5 | 23 |
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| 93 | Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12438-12445 | 16.4 | 23 |
| 92 | 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 |
| 91 | Molecular Design of High CO2 Reactivity and Low Viscosity Ionic Liquids for CO2 Separative Facilitated Transport Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2821-2830 | 3.9 | 21 |
| 90 | Computational Design of New Magnesium Electrolytes with Improved Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16126-16136 | 3.8 | 21 |
| 89 | 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 |
| 88 | An Atomistic Simulation Study of the Role of Asperities and Indentations on Heterogeneous Bubble Nucleation. <i>Journal of Heat Transfer</i> , 2008 , 130, | 1.8 | 20 |
| 87 | 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 |
| 86 | 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 & mp; Engineering Chemistry Research</i> , 2015 , 54, 4385-4395 | 3.9 | 18 |
| 85 | Molecular Simulation of Polyelectrolye Conformational Dynamics under an AC Electric Field. <i>Macromolecules</i> , 2010 , 43, 4805-4813 | 5.5 | 18 |
| 84 | 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 |
| 83 | A molecular dynamics study of macromolecules in good solvents: Comparison with dielectric spectroscopy experiments. <i>Journal of Chemical Physics</i> , 1998 , 109, 5078-5088 | 3.9 | 17 |
| 82 | Molecular Dynamics Simulations of Polar Polymer Brushes. <i>Macromolecules</i> , 1998 , 31, 3116-3129 | 5.5 | 16 |
| 81 | Rapid shear viscosity calculation by momentum impulse relaxation molecular dynamics. <i>Journal of Chemical Physics</i> , 2005 , 123, 224904 | 3.9 | 16 |
| 80 | Isomolar semigrand ensemble molecular dynamics: development and application to liquid-liquid equilibria. <i>Journal of Chemical Physics</i> , 2005 , 122, 54504 | 3.9 | 16 |
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