

Gary A Baker

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.

301
papers

19,910
citations

66
h-index

133
g-index

316
ext. papers

21,703
ext. citations

5.6
avg, IF

7.25
L-index

| # | Paper | IF | Citations |
|-----|--|-------|-----------|
| 301 | Deep eutectic solvents comprising creatine and citric acid and their hydrated mixtures.. <i>Chemical Communications</i> , 2022 , | 5.8 | 1 |
| 300 | Laser-induced sound pinging for the rapid determination of total sugar or sweetener content in commercial beverages.. <i>Talanta</i> , 2021 , 240, 123034 | 6.2 | |
| 299 | Evidence of a liquid-liquid transition in a glass-forming ionic liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 6 |
| 298 | Ionic Liquid-Controlled Shape Transformation of Spherical to Nonspherical Polymersomes via Hierarchical Self-Assembly of a Diblock Copolymer. <i>Langmuir</i> , 2021 , 37, 5081-5088 | 4 | 2 |
| 297 | Polyionic Nanoclays: Tailorable Hybrid Organic-Inorganic Catalytic Platforms. <i>Chemistry of Materials</i> , 2021 , 33, 3585-3592 | 9.6 | 3 |
| 296 | Coordination Polymers Constructed from Pyrogallol[4]arene-Assembled Metal-Organic Nanocapsules. <i>Accounts of Chemical Research</i> , 2021 , 54, 3191-3203 | 24.3 | 3 |
| 295 | Assessing rotation and solvation dynamics in ethaline deep eutectic solvent and its solutions with methanol. <i>Journal of Chemical Physics</i> , 2021 , 155, 034505 | 3.9 | 1 |
| 294 | The study and application of biomolecules in deep eutectic solvents. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 536-566 | 7.3 | 19 |
| 293 | Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021 , 121, 1232-6285 | 42.85 | 358 |
| 292 | Flexible Alkyl Tails Help Shape Matching and Close Packing in Self-Assembly of Supramolecular Structure. <i>Crystal Growth and Design</i> , 2021 , 21, 40-44 | 3.5 | 1 |
| 291 | Hierarchical Coordination Frameworks Based on Metal-Organic Dimeric Nanocapsules Comprising Praseodymium and Pyrogallol[4]arene. <i>Crystal Growth and Design</i> , 2021 , 21, 1891-1897 | 3.5 | 3 |
| 290 | Evaluation of canonical choline chloride based deep eutectic solvents as dye-sensitized solar cell electrolytes. <i>Journal of Chemical Physics</i> , 2021 , 155, 061102 | 3.9 | 4 |
| 289 | Enzyme activation by water-mimicking dual-functionalized ionic liquids. <i>Molecular Catalysis</i> , 2021 , 515, 111882 | 3.3 | 2 |
| 288 | Bespoke nanostars: synthetic strategies, tactics, and uses of tailored branched gold nanoparticles. <i>Nanoscale Advances</i> , 2021 , 3, 3980-4004 | 5.1 | 5 |
| 287 | QCM Sensor Arrays, Electroanalytical Techniques and NIR Spectroscopy Coupled to Multivariate Analysis for Quality Assessment of Food Products, Raw Materials, Ingredients and Foodborne Pathogen Detection: Challenges and Breakthroughs. <i>Sensors</i> , 2020 , 20, | 3.8 | 8 |
| 286 | Controlling Microarray Feature Spreading and Response Stability on Porous Silicon Platforms by Using Alkene-Terminal Ionic Liquids and UV Hydrosilylation. <i>Langmuir</i> , 2020 , 36, 5474-5482 | 4 | 1 |
| 285 | Characterization of the solubilizing ability of short-chained glycol-grafted ammonium and phosphonium ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 304, 112786 | 6 | 6 |

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| 284 | Single Laboratory Experiment Integrating the Synthesis, Optical Characterization, and Nanocatalytic Assessment of Gold Nanoparticles. <i>Journal of Chemical Education</i> , 2020 , 97, 1454-1459 | 2.4 | 6 |
| 283 | Effect of ionic liquid on the fluorescence of an intramolecular exciplex forming probe. <i>Photochemical and Photobiological Sciences</i> , 2020 , 19, 251-260 | 4.2 | 3 |
| 282 | An Indium-Seamed Hexameric Metal-Organic Cage as an Example of a Hexameric Pyrogallol[4]arene Capsule Conjoined Exclusively by Trivalent Metal Ions. <i>Angewandte Chemie</i> , 2020 , 132, 8139-8142 | 3.6 | 3 |
| 281 | An Indium-Seamed Hexameric Metal-Organic Cage as an Example of a Hexameric Pyrogallol[4]arene Capsule Conjoined Exclusively by Trivalent Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8062-8065 | 16.4 | 12 |
| 280 | Batch and Flow Nanomanufacturing of Large Quantities of Colloidal Silver and Gold Nanocrystals Using Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14679-14689 | 8.3 | 7 |
| 279 | Development of Abraham model correlations for short-chain glycol-grafted imidazolium and pyridinium ionic liquids from inverse gas-chromatographic measurements. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113983 | 6 | 5 |
| 278 | Combined Small-Angle Neutron Scattering, Diffusion NMR, and Molecular Dynamics Study of a Eutectogel: Illuminating the Dynamical Behavior of Glyceline Confined in Bacterial Cellulose Gels. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7647-7658 | 3.4 | 10 |
| 277 | Molecular (Raman, NIR, and FTIR) spectroscopy and multivariate analysis in consumable products analysis1. <i>Applied Spectroscopy Reviews</i> , 2020 , 55, 647-723 | 4.5 | 14 |
| 276 | Plasmonic Evolution and Arrested Development for Silver Nanoscale Colloids: A Classroom Demonstration. <i>Journal of Chemical Education</i> , 2019 , 96, 2560-2564 | 2.4 | 1 |
| 275 | Cocrystallization of C-Propyl Pyrogallol[4]arene and the Pharmaceutical Gabapentin. <i>Journal of Chemical Crystallography</i> , 2019 , 49, 119-124 | 0.5 | |
| 274 | Polyhedral borane-capped coinage metal nanoparticles as high-performing catalysts for 4-nitrophenol reduction. <i>Chemical Communications</i> , 2019 , 55, 7990-7993 | 5.8 | 7 |
| 273 | Argentous Deep Eutectic Solvent Approach for Scaling Up the Production of Colloidal Silver Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11036-11043 | 8.3 | 13 |
| 272 | Facile, one-pot, in aqua synthesis of catalytically competent gold nanoparticles using pyrogallol[4]arene as the sole reagent. <i>Chemical Communications</i> , 2019 , 55, 6261-6264 | 5.8 | 2 |
| 271 | Vapor Pressure Mapping of Ionic Liquids and Low-Volatility Fluids Using Graded Isothermal Thermogravimetric Analysis. <i>ChemEngineering</i> , 2019 , 3, 42 | 2.6 | 21 |
| 270 | Laser-induced sound pinging (LISP): A rapid photoacoustic method to determine the speed of sound in microliter fluid volumes. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 401-410 | 8.5 | 5 |
| 269 | Characterization of the solubilizing ability of tetraalkylammonium ionic liquids containing a pendant alkyl chain bearing a basic N,N-dimethylamino or N,N-dimethylaminoethoxy functionality. <i>Journal of Molecular Liquids</i> , 2019 , 283, 380-390 | 6 | 14 |
| 268 | Infinite dilution activity coefficients and gas-to-liquid partition coefficients of organic solutes dissolved in 1-sec-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and in 1-tert-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Physics and Chemistry of Liquids</i> , 2019 , 57, 453-472 | 1.5 | 21 |
| 267 | Calorimetric Evaluation of the Operational Thermal Stability of Ribonuclease A in Hydrated Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12682-12687 | 8.3 | 11 |

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| 266 | Characterization of a New Electron Donor-Acceptor Dyad in Conventional Solvents and Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 9395-9407 | 3.4 | 2 |
| 265 | Fixed-Path Length Laser-Induced Sound Pinging: A Streamlined Method for Sound Speed Determination in Arbitrary Liquids. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4924-4931 | 2.8 | 2 |
| 264 | Best practices for reporting nanocatalytic performance: lessons learned from nitroarene reduction as a model reaction. <i>New Journal of Chemistry</i> , 2019 , 43, 17932-17936 | 3.6 | 9 |
| 263 | Borohydride stabilized gold-silver bimetallic nanocatalysts for highly efficient 4-nitrophenol reduction. <i>Nanoscale Advances</i> , 2019 , 1, 4665-4668 | 5.1 | 9 |
| 262 | Exploiting the Inherent Photophysical Properties of the Major Tirapazamine Metabolite in the Development of Profluorescent Substrates for Enzymes That Catalyze the Bioreductive Activation of Hypoxia-Selective Anticancer Prodrugs. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3126-3131 | 4.2 | 12 |
| 261 | Rapid Microwave-Assisted Synthesis of Silver Nanoparticles in a Halide-Free Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5725-5731 | 8.3 | 35 |
| 260 | Artifacts and Errors Associated with the Ubiquitous Presence of Fluorescent Impurities in Carbon Nanodots. <i>Chemistry of Materials</i> , 2018 , 30, 1878-1887 | 9.6 | 135 |
| 259 | Room-Temperature Turkevich Method: Formation of Gold Nanoparticles at the Speed of Mixing Using Cyclic Oxocarbon Reducing Agents. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5105-5118 | 3.8 | 32 |
| 258 | Tandem copper and gold nanoclusters for two-color ratiometric explosives detection. <i>Analyst, The</i> , 2018 , 143, 1036-1041 | 5 | 10 |
| 257 | Glycerol Hydrogen-Bonding Network Dominates Structure and Collective Dynamics in a Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1261-1267 | 3.4 | 79 |
| 256 | Infinite Dilution Activity Coefficients and Gas-to-Liquid Partition Coefficients of Organic Solutes Dissolved in 1-Benzylpyridinium Bis(Trifluoromethylsulfonyl)Imide and 1-Cyclohexylmethyl-1-Methylpyrrolidinium Bis(Trifluoromethylsulfonyl)Imide. <i>Journal of Solution Chemistry</i> , 2018 , 47, 308-335 | 1.8 | 25 |
| 255 | Formation of Water Channels in the Crystalline Hydrates of Macrocyclic Compounds. <i>Chemistry - A European Journal</i> , 2018 , 24, 3299-3304 | 4.8 | 3 |
| 254 | A ML metal-organic nanocapsule with open windows using mixed macrocycles. <i>Chemical Communications</i> , 2018 , 54, 635-637 | 5.8 | 10 |
| 253 | Ionothermal synthesis of magnetically-retrievable mesoporous carbons from alkyne-appended ionic liquids and demonstration of their use in selective dye removal. <i>New Journal of Chemistry</i> , 2018 , 42, 1979-1986 | 3.6 | 5 |
| 252 | Quantum Chemical Evaluation of Deep Eutectic Solvents for the Extractive Desulfurization of Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7525-7531 | 8.3 | 45 |
| 251 | Ionic liquid inspired alkalinochromic salts based on Reichardt's dyes for the solution phase and vapochromic detection of amines. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 4607-4613 | 4.4 | 6 |
| 250 | On the non-innocence of the imidazolium cation in a rapid microwave synthesis of oleylamine-capped gold nanoparticles in an ionic liquid. <i>Chemical Communications</i> , 2018 , 54, 7523-7526 | 5.8 | 12 |
| 249 | Glycol-functionalized ionic liquids for high-temperature enzymatic ring-opening polymerization.. <i>RSC Advances</i> , 2018 , 8, 36025-36033 | 3.7 | 18 |

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| 248 | Efficient and Selective Extraction of $^{99m}\text{TcO}_4^-$ From Aqueous Media Using Hydrophobic Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13656-13661 | 8.3 | 48 |
| 247 | NMR relaxometric probing of ionic liquid dynamics and diffusion under mesoscopic confinement within bacterial cellulose ionogels. <i>Journal of Chemical Physics</i> , 2018 , 148, 193845 | 3.9 | 6 |
| 246 | Ionic Liquid-Assisted Synthesis of Nanoscale (MoS) ₂ (SnO) on Reduced Graphene Oxide for the Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8065-8074 | 4.5 | 41 |
| 245 | The emerging roles of carbon dots in solar photovoltaics: a critical review. <i>Environmental Science: Nano</i> , 2017 , 4, 1216-1263 | 7.1 | 104 |
| 244 | Computational perspectives on structure, dynamics, gas sorption, and bio-interactions in deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2017 , 448, 50-58 | 2.5 | 22 |
| 243 | Ionic Liquid Anion Controlled Nanoscale Gold Morphology Grown at a Liquid Interface. <i>Langmuir</i> , 2017 , 33, 6029-6037 | 4 | 8 |
| 242 | Spectrophotometric analysis at the single-cell level: elucidating dispersity within melanic immortalized cell populations. <i>Analyst, The</i> , 2017 , 142, 1482-1491 | 5 | 2 |
| 241 | Polyol Synthesis of Magnetite Nanocrystals in a Thermostable Ionic Liquid. <i>Crystal Growth and Design</i> , 2017 , 17, 1558-1567 | 3.5 | 12 |
| 240 | Bacterial Cellulose Ionogels as Chemosensory Supports. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38042-38051 | 9.5 | 23 |
| 239 | Multi-Purpose Cellulosic Ionogels. <i>ACS Symposium Series</i> , 2017 , 143-155 | 0.4 | 3 |
| 238 | Incorporation of antibacterial agent derived deep eutectic solvent into an active dental composite. <i>Dental Materials</i> , 2017 , 33, 1445-1455 | 5.7 | 16 |
| 237 | Study of benzyl- or cyclohexyl-functionalized ionic liquids using inverse gas chromatography. <i>Journal of Molecular Liquids</i> , 2017 , 242, 550-559 | 6 | 28 |
| 236 | Synthesis and fluorescence spectroscopy of tris(pyrenyl)pnictogen compounds. <i>Dalton Transactions</i> , 2017 , 46, 10867-10875 | 4.3 | 8 |
| 235 | Characterization of a Novel Ionic Liquid Monopropellant for Multi-Mode Propulsion 2017 , | | 6 |
| 234 | Design rules of ionic liquids tasked for highly efficient fuel desulfurization by mild oxidative extraction. <i>Fuel</i> , 2017 , 189, 334-339 | 7.1 | 26 |
| 233 | Pee-dots: biocompatible fluorescent carbon dots derived from the upcycling of urine. <i>Green Chemistry</i> , 2016 , 18, 243-250 | 10 | 128 |
| 232 | Ionic Liquids Can Permanently Modify Porous Silicon Surface Chemistry. <i>Chemistry - A European Journal</i> , 2016 , 22, 11677-84 | 4.8 | 4 |
| 231 | Quantum Chemical Insight into the Interactions and Thermodynamics Present in Choline Chloride Based Deep Eutectic Solvents. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 6739-46 | 3.4 | 96 |

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| 230 | Activity coefficients at infinite dilution for organic solutes dissolved in two 1-alkylquinuclidinium bis(trifluoromethylsulfonyl)imides bearing alkyl side chains of six and eight carbons. <i>Journal of Molecular Liquids</i> , 2016 , 215, 176-184 | 6 | 39 |
| 229 | Fluorescence, Phosphorescence, and Chemiluminescence. <i>Analytical Chemistry</i> , 2016 , 88, 170-202 | 7.8 | 72 |
| 228 | Efficient White-Light Generation from Ionically Self-Assembled Triply-Fluorescent Organic Nanoparticles. <i>Chemistry - A European Journal</i> , 2016 , 22, 8855-63 | 4.8 | 14 |
| 227 | Infinite dilution activity coefficients of solutes dissolved in anhydrous alkyl(dimethyl)isopropylammonium bis(trifluoromethylsulfonyl)imide ionic liquids containing functionalized- and nonfunctionalized-alkyl chains. <i>Journal of Molecular Liquids</i> , 2016 , 222, 295-312 | 6 | 23 |
| 226 | Extraction of Water and Speciation of Trivalent Lanthanides and Americium in Organophosphorus Extractants. <i>Inorganic Chemistry</i> , 2016 , 55, 12675-12685 | 5.1 | 16 |
| 225 | A switchable peroxidase mimic derived from the reversible co-assembly of cytochrome c and carbon dots. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2163-2170 | 7.3 | 12 |
| 224 | Domestic pressure cooker as inexpensive hydrothermal vessel: Demonstrated utility for eco-friendly synthesis of non-toxic carbon dots. <i>Nano Structures Nano Objects</i> , 2016 , 6, 52-58 | 5.6 | 14 |
| 223 | Rotational Dynamics in Ionic Liquids from NMR Relaxation Experiments and Simulations: Benzene and 1-Ethyl-3-Methylimidazolium. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 9450-67 | 3.4 | 25 |
| 222 | Tuning Task-Specific Ionic Liquids for the Extractive Desulfurization of Liquid Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4771-4780 | 8.3 | 73 |
| 221 | Ionic liquid-assisted exfoliation and dispersion: stripping graphene and its two-dimensional layered inorganic counterparts of their inhibitions. <i>Nanoscale</i> , 2015 , 7, 4338-53 | 7.7 | 73 |
| 220 | Ratiometric, filter-free optical sensor based on a complementary metal oxide semiconductor buried double junction photodiode. <i>Analytica Chimica Acta</i> , 2015 , 884, 77-82 | 6.6 | 1 |
| 219 | Cold welding: a phenomenon for spontaneous self-healing and shape genesis at the nanoscale. <i>Materials Horizons</i> , 2015 , 2, 157-167 | 14.4 | 34 |
| 218 | Carbon dot reduced bimetallic nanoparticles: size and surface plasmon resonance tunability for enhanced catalytic applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16354-16360 | 13 | 49 |
| 217 | Differential Microscopic Mobility of Components within a Deep Eutectic Solvent. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2924-8 | 6.4 | 63 |
| 216 | Synthesis, spectroscopy, electrochemistry, and coordination chemistry of substituted phosphine sulfides and selenides. <i>Polyhedron</i> , 2015 , 100, 333-343 | 2.7 | 8 |
| 215 | Kitchen-Inspired Nanochemistry: Dispersion, Exfoliation, and Hybridization of Functional MoS ₂ Nanosheets Using Culinary Hydrocolloids. <i>ChemNanoMat</i> , 2015 , 1, 167-177 | 3.5 | 25 |
| 214 | Oxidative Desulfurization of Fuels Using Ionic Liquids: A Review. <i>Frontiers of Chemical Science and Engineering</i> , 2015 , 9, 262-279 | 4.5 | 73 |
| 213 | Sunlight-assisted route to antimicrobial plasmonic aminoclay catalysts. <i>Nanoscale</i> , 2015 , 7, 86-91 | 7.7 | 21 |

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| 212 | Structure and spectroscopy of uranyl and thorium complexes with substituted phosphine oxide ligands. <i>Radiochimica Acta</i> , 2015 , 103, 49-56 | 1.9 | 3 |
| 211 | Strategies for controlled synthesis of nanoparticles derived from a group of uniform materials based on organic salts. <i>Journal of Colloid and Interface Science</i> , 2015 , 446, 163-9 | 9.3 | 13 |
| 210 | Carbazole-Derived Group of Uniform Materials Based on Organic Salts: Solid State Fluorescent Analogues of Ionic Liquids for Potential Applications in Organic-Based Blue Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2312-2320 | 3.8 | 37 |
| 209 | Aqueous Ionic Liquids and Deep Eutectic Solvents for Cellulosic Biomass Pretreatment and Saccharification. <i>RSC Advances</i> , 2014 , 4, 10586-10596 | 3.7 | 129 |
| 208 | Ionic conductivity enhancement of sputtered gold nanoparticle-in-ionic liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 792-803 | 13 | 17 |
| 207 | Self-aggregation of sodium dodecyl sulfate within (choline chloride + urea) deep eutectic solvent. <i>Langmuir</i> , 2014 , 30, 13191-8 | 4 | 75 |
| 206 | Methane-oxygen electrochemical coupling in an ionic liquid: a robust sensor for simultaneous quantification. <i>Analyst, The</i> , 2014 , 139, 5140-7 | 5 | 36 |
| 205 | Protein-templated gold nanoclusters sequestered within sol-gel thin films for the selective and ratiometric luminescence recognition of Hg ²⁺ . <i>Nanoscale</i> , 2014 , 6, 5425-31 | 7.7 | 52 |
| 204 | Illuminating host-guest cocrystallization between pyrogallol[4]arenes and the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. <i>CrystEngComm</i> , 2014 , 16, 6010-6022 | 3.3 | 15 |
| 203 | Soft- and hard-templated organic salt nanoparticles with the Midas touch: gold-shelled nanoGUMBOS. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8996-9003 | 7.1 | 12 |
| 202 | Ternary Deep Eutectic Solvents Tasked for Carbon Dioxide Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2117-2123 | 8.3 | 154 |
| 201 | Infinite Dilution Activity Coefficients of Solutes Dissolved in Two Trihexyl(tetradecyl)phosphonium Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1877-1885 | 2.8 | 34 |
| 200 | Multinuclear copper(I) and silver(I) amidinate complexes: synthesis, luminescence, and CS ₂ insertion reactivity. <i>Inorganic Chemistry</i> , 2014 , 53, 11357-66 | 5.1 | 42 |
| 199 | Exploring luminescence-based temperature sensing using protein-passivated gold nanoclusters. <i>Nanoscale</i> , 2014 , 6, 9594-8 | 7.7 | 33 |
| 198 | Solvent-Modulated Formation of Pac-man and Capsular Host-Guest Bilayers from a Dicationic Ionic Liquid and C-Butylpyrogallol[4]arene. <i>Crystal Growth and Design</i> , 2014 , 14, 4199-4204 | 3.5 | 10 |
| 197 | Influence of solute charge and pyrrolidinium ionic liquid alkyl chain length on probe rotational reorientation dynamics. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1088-96 | 3.4 | 21 |
| 196 | Deep eutectic solvents: sustainable media for nanoscale and functional materials. <i>Accounts of Chemical Research</i> , 2014 , 47, 2299-308 | 24.3 | 560 |
| 195 | Ranking solvent interactions and dielectric constants with [Pt(mesBIAN)(tda)]: A cautionary tale for polarity determinations in ionic liquids. <i>ChemPhysChem</i> , 2013 , 14, 1025-30 | 3.2 | 9 |

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| 194 | The interfacial dynamics of water sandwiched between graphene sheets are governed by the slit width. <i>Surface Science</i> , 2013 , 609, 129-139 | 1.8 | 19 |
| 193 | Physicochemical properties and activity coefficients at infinite dilution for organic solutes and water in a novel bicyclic guanidinium superbases-derived protic ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2013 , 58, 62-69 | 2.9 | 31 |
| 192 | Solute diffusion in ionic liquids, NMR measurements and comparisons to conventional solvents. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 11697-708 | 3.4 | 97 |
| 191 | Cholesterol determination using protein-templated fluorescent gold nanocluster probes. <i>Analyst</i> , 2013 , 138, 7299-302 | 5 | 33 |
| 190 | Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Bearing Short Linear Alkyl Side Chains of Three to Five Carbons. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2210-2218 | 2.8 | 61 |
| 189 | Formation of a dimeric host-guest complex via binding between a dicationic ionic liquid and a pyrogallol[4]arene macrocycle. <i>Chemical Communications</i> , 2013 , 49, 1802-4 | 5.8 | 17 |
| 188 | Ionic liquids and deep eutectic solvents for biodiesel synthesis: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 3-12 | 3.5 | 206 |
| 187 | Sum frequency generation spectroscopy of imidazolium-based ionic liquids with cyano-functionalized anions at the solid salt-liquid interface. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5939-49 | 3.4 | 25 |
| 186 | Ionic liquids containing fluorinated β -diketonate anions: synthesis, characterization and potential applications. <i>New Journal of Chemistry</i> , 2013 , 37, 909 | 3.6 | 17 |
| 185 | Are ionic liquids suitable media for boron nitride exfoliation and dispersion? Insight via molecular dynamics. <i>RSC Advances</i> , 2013 , 3, 8197 | 3.7 | 34 |
| 184 | Thermodynamic considerations for solubility and conformational transitions of poly-N-isopropyl-acrylamide. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12667-73 | 3.6 | 21 |
| 183 | Elucidating Interactions Between Ionic Liquids and Polycyclic Aromatic Hydrocarbons by Quantum Chemical Calculations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4521-4532 | 3.8 | 38 |
| 182 | Developing microwave-assisted ionic liquid microextraction for the detection and tracking of hydrophobic pesticides in complex environmental matrices. <i>RSC Advances</i> , 2013 , 3, 17113 | 3.7 | 11 |
| 181 | An unusual slowdown of fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. <i>Europhysics Letters</i> , 2013 , 102, 16004 | 1.6 | 37 |
| 180 | Ring-opened heterocycles: Promising ionic liquids for gas separation and capture. <i>Journal of Membrane Science</i> , 2012 , 401-402, 61-67 | 9.6 | 32 |
| 179 | Ionic derivatives of betulinic acid as novel HIV-1 protease inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 715-21 | 5.6 | 26 |
| 178 | Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Having Six-, Eight-, and Ten-Carbon Alkyl Chains. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3510-3518 | 2.8 | 59 |
| 177 | Confeito-like assembly of organosilicate-caged fluorophores: ultrabright suprananoparticles for fluorescence imaging. <i>Nanotechnology</i> , 2012 , 23, 175601 | 3.4 | 8 |

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|-----|---|-----|-----|
| 176 | Correlation of the Solubilizing Abilities of 1-Butyl-1-methylpiperidinium Bis(trifluoromethylsulfonyl)imide and 1-Butyl-1-methylpyrrolidinium Tetracyanoborate. <i>Journal of Solution Chemistry</i> , 2012 , 41, 1165-1184 | 1.8 | 24 |
| 175 | Ionic galleries: a bilayered host-guest cocrystal of C-propyl pyrogallol[4]arene with an ionic liquid. <i>Chemical Communications</i> , 2012 , 48, 5262-4 | 5.8 | 21 |
| 174 | Alkyl Chain Length and Temperature Effects on Structural Properties of Pyrrolidinium-Based Ionic Liquids: A Combined Atomistic Simulation and Small-Angle X-ray Scattering Study. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 125-130 | 6.4 | 112 |
| 173 | Rotational and translational dynamics of rhodamine 6G in a pyrrolidinium ionic liquid: a combined time-resolved fluorescence anisotropy decay and NMR study. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7883-90 | 3.4 | 35 |
| 172 | Pronounced hydrogen bonding giving rise to apparent probe hyperpolarity in ionic liquid mixtures with 2,2,2-trifluoroethanol. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1360-9 | 3.4 | 36 |
| 171 | Rotational and Translational Dynamics of N-Butyl-N-methylpiperidinium Trifluoromethanesulfonimide Ionic Liquids Studied by NMR and MD Simulations. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20779-20786 | 3.8 | 15 |
| 170 | Ionically Self-Assembled, Multi-Luminophore One-Dimensional Micro- and Nanoscale Aggregates of Thiocarbocyanine GUMBOS. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8251-8260 | 3.8 | 24 |
| 169 | PEG-functionalized ionic liquids for cellulose dissolution and saccharification. <i>Green Chemistry</i> , 2012 , 14, 2922 | 10 | 99 |
| 168 | Bimolecular electron transfer in ionic liquids: are reaction rates anomalously high?. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1370-84 | 3.4 | 66 |
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