

Gary A Baker

List of Publications by Year in descending order

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304
papers

23,839
citations

10956

71
h-index

9073

144
g-index

316
all docs

316
docs citations

316
times ranked

22625
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Luminescent Carbon Nanodots: Emergent Nanolights. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6726-6744. | 7.2 | 4,109 |
| 2 | Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021, 121, 1232-1285. | 23.0 | 1,334 |
| 3 | Deep Eutectic Solvents: Sustainable Media for Nanoscale and Functional Materials. <i>Accounts of Chemical Research</i> , 2014, 47, 2299-2308. | 7.6 | 708 |
| 4 | Ether- and alcohol-functionalized task-specific ionic liquids: attractive properties and applications. <i>Chemical Society Reviews</i> , 2012, 41, 4030. | 18.7 | 512 |
| 5 | Designing enzyme-compatible ionic liquids that can dissolve carbohydrates. <i>Green Chemistry</i> , 2008, 10, 696. | 4.6 | 431 |
| 6 | Regenerating cellulose from ionic liquids for an accelerated enzymatic hydrolysis. <i>Journal of Biotechnology</i> , 2009, 139, 47-54. | 1.9 | 423 |
| 7 | An analytical view of ionic liquids. <i>Analyst, The</i> , 2005, 130, 800. | 1.7 | 404 |
| 8 | Facile Ionothermal Synthesis of Microporous and Mesoporous Carbons from Task Specific Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2009, 131, 4596-4597. | 6.6 | 404 |
| 9 | Progress in plasmonic engineering of surface-enhanced Raman-scattering substrates toward ultra-trace analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1751-1770. | 1.9 | 396 |
| 10 | Physical Properties of Ionic Liquids Consisting of the 1-Butyl-3-Methylimidazolium Cation with Various Anions and the Bis(trifluoromethylsulfonyl)imide Anion with Various Cations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 81-92. | 1.2 | 391 |
| 11 | The large scale synthesis of pure imidazolium and pyrrolidinium ionic liquids. <i>Green Chemistry</i> , 2007, 9, 449. | 4.6 | 387 |
| 12 | Solvation and Rotational Dynamics of Coumarin 153 in Ionic Liquids: A Comparisons to Conventional Solvents. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7291-7302. | 1.2 | 297 |
| 13 | Structure and magnetic behavior of transition metal based ionic liquids. <i>Chemical Communications</i> , 2008, , 447-449. | 2.2 | 296 |
| 14 | Direct exfoliation of natural graphite into micrometre size few layers graphene sheets using ionic liquids. <i>Chemical Communications</i> , 2010, 46, 4487. | 2.2 | 295 |
| 15 | Density and Surface Tension Measurements of Imidazolium-, Quaternary Phosphonium-, and Ammonium-Based Room-Temperature Ionic Liquids: Data and Correlations. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 2306-2314. | 1.0 | 260 |
| 16 | Ionic liquids and deep eutectic solvents for biodiesel synthesis: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 3-12. | 1.6 | 242 |
| 17 | New eutectic ionic liquids for lipase activation and enzymatic preparation of biodiesel. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1908. | 1.5 | 231 |
| 18 | Temperature-dependent microscopic solvent properties of "dry"™ and "wet"™ 1-butyl-3-methylimidazolium hexafluorophosphate: correlation with ET(30) and Kamlet-Taft polarity scales. <i>Green Chemistry</i> , 2002, 4, 165-169. | 4.6 | 224 |

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|----|--|-----|-----------|
| 19 | The Cybotactic Region Surrounding Fluorescent Probes Dissolved in 1-Butyl-3-methylimidazolium Hexafluorophosphate: Effects of Temperature and Added Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9663-9668. | 1.2 | 216 |
| 20 | Fluorescence studies of protein thermostability in ionic liquids Electronic supplementary information (ESI) available: synthesis of [C4mpy][Tf2N]. See http://www.rsc.org/suppdata/cc/b4/b401304m/ . <i>Chemical Communications</i> , 2004, , 940. | 2.2 | 216 |
| 21 | Measurements of the Complete Solvation Response in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4978-4989. | 1.2 | 215 |
| 22 | Artifacts and Errors Associated with the Ubiquitous Presence of Fluorescent Impurities in Carbon Nanodots. <i>Chemistry of Materials</i> , 2018, 30, 1878-1887. | 3.2 | 203 |
| 23 | Ternary Deep Eutectic Solvents Tasked for Carbon Dioxide Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2117-2123. | 3.2 | 196 |
| 24 | Performance of nitrile-containing anions in task-specific ionic liquids for improved CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2010, 353, 177-183. | 4.1 | 190 |
| 25 | Reversible and robust CO ₂ capture by equimolar task-specific ionic liquid "superbase mixtures. <i>Green Chemistry</i> , 2010, 12, 870. | 4.6 | 185 |
| 26 | Protease activation in glycerol-based deep eutectic solvents. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 163-167. | 1.8 | 181 |
| 27 | Unfolding of Acrylodan-Labeled Human Serum Albumin Probed by Steady-State and Time-Resolved Fluorescence Methods. <i>Biophysical Journal</i> , 1998, 75, 1084-1096. | 0.2 | 174 |
| 28 | Pee-dots: biocompatible fluorescent carbon dots derived from the upcycling of urine. <i>Green Chemistry</i> , 2016, 18, 243-250. | 4.6 | 169 |
| 29 | Isothermogravimetric Determination of the Enthalpies of Vaporization of 1-Alkyl-3-methylimidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10077-10081. | 1.2 | 166 |
| 30 | Hydrophobic Brønsted Acid-Base Ionic Liquids Based on PAMAM Dendrimers with High Proton Conductivity and Blue Photoluminescence. <i>Journal of the American Chemical Society</i> , 2005, 127, 12784-12785. | 6.6 | 157 |
| 31 | Aqueous ionic liquids and deep eutectic solvents for cellulosic biomass pretreatment and saccharification. <i>RSC Advances</i> , 2014, 4, 10586. | 1.7 | 151 |
| 32 | Two-Photon Absorption and Excited-State Energy-Transfer Properties of a New Multibranched Molecule. <i>Chemistry of Materials</i> , 2001, 13, 4071-4076. | 3.2 | 149 |
| 33 | Partition Coefficients of Organic Compounds in New Imidazolium and Tetralkylammonium Based Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 234-242. | 1.0 | 148 |
| 34 | Surface confined ionic liquid as a stationary phase for HPLC. <i>Analyst</i> , 2006, 131, 1000-1005. | 1.7 | 140 |
| 35 | Probing solute and solvent interactions within binary ionic liquid mixtures This paper is dedicated with congratulations to Professor Frank V. Bright, recipient of the 2003 New York SAS Gold Medal Award.. <i>New Journal of Chemistry</i> , 2003, 27, 1706. | 1.4 | 139 |
| 36 | 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, 6739-6746. | 1.2 | 130 |

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|----|---|-----|-----------|
| 37 | The emerging roles of carbon dots in solar photovoltaics: a critical review. <i>Environmental Science: Nano</i> , 2017, 4, 1216-1263. | 2.2 | 128 |
| 38 | Communication: X-ray scattering from ionic liquids with pyrrolidinium cations. <i>Journal of Chemical Physics</i> , 2011, 134, 121101. | 1.2 | 127 |
| 39 | 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. | 2.1 | 121 |
| 40 | PEG-functionalized ionic liquids for cellulose dissolution and saccharification. <i>Green Chemistry</i> , 2012, 14, 2922. | 4.6 | 116 |
| 41 | Small-angle neutron scattering studies of model protein denaturation in aqueous solutions of the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Chemical Engineering Journal</i> , 2009, 147, 6-12. | 6.6 | 114 |
| 42 | Limited thermal stability of imidazolium and pyrrolidinium ionic liquids. <i>Thermochimica Acta</i> , 2009, 491, 118-120. | 1.2 | 112 |
| 43 | Solute Diffusion in Ionic Liquids, NMR Measurements and Comparisons to Conventional Solvents. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11697-11708. | 1.2 | 112 |
| 44 | A new class of cationic surfactants inspired by N-alkyl-N-methyl pyrrolidinium ionic liquids. <i>Analyst</i> , 2004, 129, 890. | 1.7 | 111 |
| 45 | 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. | 1.2 | 106 |
| 46 | Effect of ionic liquid properties on lipase stabilization under microwave irradiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 149-157. | 1.8 | 101 |
| 47 | Activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1050-1057. | 1.0 | 99 |
| 48 | Noncontact two-color luminescence thermometry based on intramolecular luminophore cyclization within an ionic liquid. <i>Chemical Communications</i> , 2003, , 2932. | 2.2 | 98 |
| 49 | Correlation between the fluorescent response of microfluidity probes and the water content and viscosity of ionic liquid and water mixtures. <i>Analyst</i> , 2004, 129, 569. | 1.7 | 97 |
| 50 | Near-Infrared Fluorescent NanoGUMBOS for Biomedical Imaging. <i>ACS Nano</i> , 2009, 3, 3854-3860. | 7.3 | 97 |
| 51 | Ultrastable Superbase-Derived Protic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4181-4183. | 1.2 | 97 |
| 52 | Effects of Solubilized Water on the Relaxation Dynamics Surrounding 6-Propionyl-2-(N,N-dimethylamino)naphthalene Dissolved in 1-Butyl-3-methylimidazolium Hexafluorophosphate at 298 K. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6457-6463. | 1.8 | 95 |
| 53 | Ionic liquid-assisted exfoliation and dispersion: stripping graphene and its two-dimensional layered inorganic counterparts of their inhibitions. <i>Nanoscale</i> , 2015, 7, 4338-4353. | 2.8 | 95 |
| 54 | Fluorescence, Phosphorescence, and Chemiluminescence. <i>Analytical Chemistry</i> , 2016, 88, 170-202. | 3.2 | 95 |

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| 55 | Water-Soluble, Core-Modified Porphyrins as Novel, Longer-Wavelength-Absorbing Sensitizers for Photodynamic Therapy. II. Effects of Core Heteroatoms and Meso-Substituents on Biological Activity. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 449-461. | 2.9 | 92 |
| 56 | Oxidative desulfurization of fuels using ionic liquids: A review. <i>Frontiers of Chemical Science and Engineering</i> , 2015, 9, 262-279. | 2.3 | 92 |
| 57 | Multiprobe Spectroscopic Evidence for "Hyperpolarity" within 1-Butyl-3-methylimidazolium Hexafluorophosphate Mixtures with Tetraethylene Glycol. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14927-14936. | 1.2 | 91 |
| 58 | Ionic Liquids as Electrolytes for the Development of a Robust Amperometric Oxygen Sensor. <i>Analytical Chemistry</i> , 2011, 83, 7066-7073. | 3.2 | 90 |
| 59 | Study of Ether-, Alcohol-, or Cyano-Functionalized Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2434-2443. | 1.0 | 88 |
| 60 | Self-Aggregation of Sodium Dodecyl Sulfate within (Choline Chloride + Urea) Deep Eutectic Solvent. <i>Langmuir</i> , 2014, 30, 13191-13198. | 1.6 | 88 |
| 61 | Tuning Task-Specific Ionic Liquids for the Extractive Desulfurization of Liquid Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4771-4780. | 3.2 | 88 |
| 62 | Activity Coefficients at Infinite Dilution of Organic Compounds in Trihexyl(tetradecyl)phosphonium Bis(trifluoromethylsulfonyl)imide Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 977-985. | 1.0 | 83 |
| 63 | Molecular Fluorescence, Phosphorescence, and Chemiluminescence Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 597-625. | 3.2 | 83 |
| 64 | A Simple Colorimetric Assay of Ionic Liquid Hydrolytic Stability. <i>Australian Journal of Chemistry</i> , 2005, 58, 174. | 0.5 | 82 |
| 65 | Nontemplated Approach to Tuning the Spectral Properties of Cyanine-Based Fluorescent NanoGUMBOS. <i>Langmuir</i> , 2010, 26, 12867-12876. | 1.6 | 82 |
| 66 | Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3106-3114. | 1.0 | 81 |
| 67 | 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. | 3.2 | 81 |
| 68 | Effects of Temperature on Calcium-Sensitive Fluorescent Probes. <i>Biophysical Journal</i> , 2000, 78, 2116-2126. | 0.2 | 78 |
| 69 | Dendrimers Functionalized with a Single Fluorescent Dansyl Group Attached "Off Center" Synthesis and Photophysical Studies. <i>Journal of the American Chemical Society</i> , 2000, 122, 6139-6144. | 6.6 | 76 |
| 70 | Ionic Liquid-Induced Unprecedented Size Enhancement of Aggregates within Aqueous Sodium Dodecylbenzene Sulfonate. <i>Langmuir</i> , 2010, 26, 17821-17826. | 1.6 | 75 |
| 71 | Characterization of the Influence of the Ionic Liquid 1-Butyl-3-methylimidazolium Chloride on the Structure and Thermal Stability of Green Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13866-13871. | 1.2 | 75 |
| 72 | Differential Microscopic Mobility of Components within a Deep Eutectic Solvent. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2924-2928. | 2.1 | 74 |

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|----|---|-----|-----------|
| 73 | Fast enzymatic saccharification of switchgrass after pretreatment with ionic liquids. <i>Biotechnology Progress</i> , 2010, 26, 127-133. | 1.3 | 73 |
| 74 | 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. | 1.0 | 73 |
| 75 | 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. | 1.0 | 72 |
| 76 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 11, 43-54. | 1.1 | 71 |
| 77 | Bimolecular Electron Transfer in Ionic Liquids: Are Reaction Rates Anomalously High?. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1370-1384. | 1.2 | 71 |
| 78 | Brønsted acidic room temperature ionic liquids derived from N,N-dimethylformamide and similar protophilic amides. <i>Green Chemistry</i> , 2006, 8, 599-602. | 4.6 | 69 |
| 79 | Dynamics of Loop 1 of Domain I in Human Serum Albumin When Dissolved in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12825-12830. | 1.2 | 69 |
| 80 | Quantum Chemical Evaluation of Deep Eutectic Solvents for the Extractive Desulfurization of Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7525-7531. | 3.2 | 69 |
| 81 | Effects of dopant concentration and annealing temperature on the phosphorescence from Zn ₂ SiO ₄ : Mn ²⁺ nanocrystals. <i>Journal of Luminescence</i> , 2005, 111, 105-111. | 1.5 | 66 |
| 82 | Cation Cross-Linked Ionic Liquids as Anion-Exchange Materials. <i>Chemistry of Materials</i> , 2009, 21, 4756-4758. | 3.2 | 66 |
| 83 | “Liquid litmus”: chemosensory pH-responsive photonic ionic liquids. <i>Chemical Communications</i> , 2011, 47, 4775. | 2.2 | 66 |
| 84 | Fluorescence correlation spectroscopy evidence for structural heterogeneity in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12395. | 1.3 | 63 |
| 85 | Anion-controlled morphologies and spectral features of cyanine-based nanoGUMBOS “an improved photosensitizer. <i>Nanoscale</i> , 2012, 4, 5031. | 2.8 | 63 |
| 86 | Kinetics and Thermodynamics of Free Flavins and the Flavin-Based Redox Active Site within Glucose Oxidase Dissolved in Solution or Sequestered within a Sol-Gel-Derived Glass. <i>Analytical Chemistry</i> , 1999, 71, 1215-1224. | 3.2 | 60 |
| 87 | Controllable Formation of Ionic Liquid Micro- and Nanoparticles via a Melt-Emulsion-Quench Approach. <i>Nano Letters</i> , 2008, 8, 897-901. | 4.5 | 59 |
| 88 | Ionic liquid-controlled J- versus H-aggregation of cyanine dyes. <i>Chemical Communications</i> , 2011, 47, 4730. | 2.2 | 59 |
| 89 | 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. | 5.2 | 59 |
| 90 | Affinity and Mobility of Polyclonal Anti-Dansyl Antibodies Sequestered within Sol-Gel-Derived Biogels. <i>Chemistry of Materials</i> , 2000, 12, 1142-1147. | 3.2 | 58 |

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|-----|--|-----|-----------|
| 91 | Fluorescent Probe Studies of Polarity and Solvation within Room Temperature Ionic Liquids: A Review. <i>Journal of Fluorescence</i> , 2012, 22, 1313-1343. | 1.3 | 57 |
| 92 | Magnetic and Nonmagnetic Nanoparticles from a Group of Uniform Materials Based on Organic Salts. <i>ACS Nano</i> , 2009, 3, 3244-3250. | 7.3 | 56 |
| 93 | 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. | 2.8 | 56 |
| 94 | Fluorescence correlation spectroscopic studies of diffusion within the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Analyst</i> , 2003, 128, 786. | 1.7 | 55 |
| 95 | Ionic Liquid-Assisted Synthesis of Nanoscale (MoS ₂) _x (SnO ₂) _{1-x} on Reduced Graphene Oxide for the Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8065-8074. | 4.0 | 55 |
| 96 | Performance of Cholesterol Oxidase Sequestered within Reverse Micelles Formed in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2000, 16, 4901-4905. | 1.6 | 54 |
| 97 | Partition Coefficients of Organic Compounds in Four New Tetraalkylammonium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3688-3697. | 1.0 | 54 |
| 98 | Multinuclear Copper(I) and Silver(I) Amidinate Complexes: Synthesis, Luminescence, and CS ₂ Insertion Reactivity. <i>Inorganic Chemistry</i> , 2014, 53, 11357-11366. | 1.9 | 52 |
| 99 | 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. | 3.2 | 50 |
| 100 | Molecular Fluorescence, Phosphorescence, and Chemiluminescence Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 4865-4894. | 3.2 | 49 |
| 101 | Differential Solute Gas Response in Ionic-Liquid-Based QCM Arrays: Elucidating Design Factors Responsible for Discriminative Explosive Gas Sensing. <i>Analytical Chemistry</i> , 2011, 83, 7823-7833. | 3.2 | 48 |
| 102 | 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. | 1.5 | 47 |
| 103 | Cold welding: a phenomenon for spontaneous self-healing and shape genesis at the nanoscale. <i>Materials Horizons</i> , 2015, 2, 157-167. | 6.4 | 47 |
| 104 | Label-Free Sugar Detection Using Phenylboronic Acid-Functionalized Piezoresistive Microcantilevers. <i>Analytical Chemistry</i> , 2008, 80, 4860-4865. | 3.2 | 46 |
| 105 | Multiprobe Spectroscopic Investigation of Molecular-level Behavior within Aqueous 1-Butyl-3-methylimidazolium Tetrafluoroborate. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3088-3098. | 1.2 | 46 |
| 106 | Synthesis of Variable-Sized Fe ₃ O ₄ Nanocrystals by Visible Light Irradiation at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13409-13413. | 1.5 | 46 |
| 107 | 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. | 2.3 | 46 |
| 108 | Vapor Pressure Mapping of Ionic Liquids and Low-Volatility Fluids Using Graded Isothermal Thermogravimetric Analysis. <i>ChemEngineering</i> , 2019, 3, 42. | 1.0 | 46 |

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|-----|---|-----|-----------|
| 109 | The study and application of biomolecules in deep eutectic solvents. <i>Journal of Materials Chemistry B</i> , 2021, 9, 536-566. | 2.9 | 46 |
| 110 | Sum Frequency Generation Studies of Ammonium and Pyrrolidinium Ionic Liquids Based on the Bis-trifluoromethanesulfonimide Anion. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1676-1684. | 1.2 | 44 |
| 111 | Elucidating Interactions Between Ionic Liquids and Polycyclic Aromatic Hydrocarbons by Quantum Chemical Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4521-4532. | 1.5 | 44 |
| 112 | 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. | 1.5 | 44 |
| 113 | Extending the Reach of Immunoassays to Optically Dense Specimens by Using Two-Photon Excited Fluorescence Polarization. <i>Analytical Chemistry</i> , 2000, 72, 5748-5752. | 3.2 | 42 |
| 114 | Sputter-Deposition of Silver Nanoparticles into Ionic Liquid as a Sacrificial Reservoir in Antimicrobial Organosilicate Nanocomposite Coatings. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 178-184. | 4.0 | 42 |
| 115 | Capitalizing on the High Mass Accuracy of Electrospray Ionization Fourier Transform Mass Spectrometry for Synthetic Polymer Characterization: A Detailed Investigation of Poly(dimethylsiloxane). <i>Macromolecules</i> , 1999, 32, 4411-4418. | 2.2 | 41 |
| 116 | In silico free energy predictions for ionic liquid-assisted exfoliation of a graphene bilayer into individual graphene nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7929. | 1.3 | 41 |
| 117 | Linkage and Redox Isomerism in Ruthenium Complexes of Catecholate, Semiquinone, and Acylphenolate Ligands Derived from 1,2-Dihydroxy-9,10-anthracenedione (Alizarin) and Related Species: Syntheses, Characterizations, and Photophysics. <i>Inorganic Chemistry</i> , 2000, 39, 5807-5816. | 1.9 | 40 |
| 118 | Fluorescent Single Walled Carbon Nanotube/Silica Composite Materials. <i>ACS Nano</i> , 2008, 2, 2283-2290. | 7.3 | 40 |
| 119 | Ultrafine sputter-deposited Pt nanoparticles for triiodide reduction in dye-sensitized solar cells: impact of nanoparticle size, crystallinity and surface coverage on catalytic activity. <i>Nanotechnology</i> , 2012, 23, 485405. | 1.3 | 40 |
| 120 | An unusual slowdown of fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. <i>Europhysics Letters</i> , 2013, 102, 16004. | 0.7 | 40 |
| 121 | Methane-oxygen electrochemical coupling in an ionic liquid: a robust sensor for simultaneous quantification. <i>Analyst</i> , 2014, 139, 5140-5147. | 1.7 | 40 |
| 122 | Exploring luminescence-based temperature sensing using protein-passivated gold nanoclusters. <i>Nanoscale</i> , 2014, 6, 9594. | 2.8 | 40 |
| 123 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 1999, 15, 37-48. | 1.1 | 39 |
| 124 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 17, 71-82. | 1.1 | 39 |
| 125 | Dendrimers Functionalized with a Single Pyrene Label: Synthesis, Photophysics, and Fluorescence Quenching. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8649-8656. | 1.2 | 39 |
| 126 | Molecular Fluorescence, Phosphorescence, and Chemiluminescence Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 4551-4574. | 3.2 | 39 |

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|-----|--|-----|-----------|
| 127 | Evaluating the solvation properties of functionalized ionic liquids with varied cation/anion composition using the solvation parameter model. <i>Journal of Chromatography A</i> , 2011, 1218, 5311-5318. | 1.8 | 39 |
| 128 | Surface characterization of imidazolium-based ionic liquids with cyano-functionalized anions at the gas-liquid interface using sum frequency generation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5122. | 1.3 | 39 |
| 129 | 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. | 1.0 | 38 |
| 130 | Electrokinetic chromatographic characterization of novel pseudo-phases based on N-alkyl-N-methylpyrrolidinium ionic liquid type surfactants. <i>Electrophoresis</i> , 2006, 27, 4141-4148. | 1.3 | 37 |
| 131 | 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, 7883-7890. | 1.2 | 37 |
| 132 | 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, 1360-1369. | 1.2 | 37 |
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