

Gary A Baker

List of Publications by Citations

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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	Luminescent carbon nanodots: emergent nanolights. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6726-44	16.4	3586
300	Deep eutectic solvents: sustainable media for nanoscale and functional materials. <i>Accounts of Chemical Research</i> , 2014 , 47, 2299-308	24.3	560
299	Ether- and alcohol-functionalized task-specific ionic liquids: attractive properties and applications. <i>Chemical Society Reviews</i> , 2012 , 41, 4030-66	58.5	450
298	Designing enzyme-compatible ionic liquids that can dissolve carbohydrates. <i>Green Chemistry</i> , 2008 , 10, 696	10	400
297	Regenerating cellulose from ionic liquids for an accelerated enzymatic hydrolysis. <i>Journal of Biotechnology</i> , 2009 , 139, 47-54	3.7	386
296	Facile ionothermal synthesis of microporous and mesoporous carbons from task specific ionic liquids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4596-7	16.4	371
295	An analytical view of ionic liquids. <i>Analyst, The</i> , 2005 , 130, 800-8	5	370
294	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	3.4	358
293	Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021 , 121, 1232-6885	62.85	358
292	The large scale synthesis of pure imidazolium and pyrrolidinium ionic liquids. <i>Green Chemistry</i> , 2007 , 9, 449	10	357
291	Progress in plasmonic engineering of surface-enhanced Raman-scattering substrates toward ultra-trace analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 1751-70	4.4	356
290	Solvation and rotational dynamics of coumarin 153 in ionic liquids: comparisons to conventional solvents. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7291-302	3.4	278
289	Structure and magnetic behavior of transition metal based ionic liquids. <i>Chemical Communications</i> , 2008 , 447-9	5.8	266
288	Direct exfoliation of natural graphite into micrometre size few layers graphene sheets using ionic liquids. <i>Chemical Communications</i> , 2010 , 46, 4487-9	5.8	264
287	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	2.8	249
286	Measurements of the complete solvation response in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4978-89	3.4	210
285	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

284	New eutectic ionic liquids for lipase activation and enzymatic preparation of biodiesel. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1908-16	3.9	204
283	Temperature-dependent microscopic solvent properties of "dry" and "wet" 1-butyl-3-methylimidazolium hexafluorophosphate: correlation with ET(30) and Kamlet-Reif polarity scales. <i>Green Chemistry</i> , 2002 , 4, 165-169	10	204
282	Fluorescence studies of protein thermostability in ionic liquids. <i>Chemical Communications</i> , 2004 , 940-1	5.8	198
281	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	3.4	197
280	Reversible and robust CO ₂ capture by equimolar task-specific ionic liquid-superbase mixtures. <i>Green Chemistry</i> , 2010 , 12, 870	10	172
279	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	9.6	172
278	Unfolding of acrylodan-labeled human serum albumin probed by steady-state and time-resolved fluorescence methods. <i>Biophysical Journal</i> , 1998 , 75, 1084-96	2.9	164
277	Protease activation in glycerol-based deep eutectic solvents. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 72, 163-167		157
276	Ternary Deep Eutectic Solvents Tasked for Carbon Dioxide Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2117-2123	8.3	154
275	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, 12784-5	16.4	150
274	Isothermogravimetric determination of the enthalpies of vaporization of 1-alkyl-3-methylimidazolium ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10077-81	3.4	148
273	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	2.8	136
272	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
271	Two-Photon Absorption and Excited-State Energy-Transfer Properties of a New Multibranched Molecule. <i>Chemistry of Materials</i> , 2001 , 13, 4071-4076	9.6	135
270	Probing solute and solvent interactions within binary ionic liquid mixtures. <i>New Journal of Chemistry</i> , 2003 , 27, 1706	3.6	134
269	Surface confined ionic liquid as a stationary phase for HPLC. <i>Analyst, The</i> , 2006 , 131, 1000-5	5	132
268	Aqueous Ionic Liquids and Deep Eutectic Solvents for Cellulosic Biomass Pretreatment and Saccharification. <i>RSC Advances</i> , 2014 , 4, 10586-10596	3.7	129
267	Pee-dots: biocompatible fluorescent carbon dots derived from the upcycling of urine. <i>Green Chemistry</i> , 2016 , 18, 243-250	10	128

266	Communication: X-ray scattering from ionic liquids with pyrrolidinium cations. <i>Journal of Chemical Physics</i> , 2011 , 134, 121101	3.9	117
265	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
264	A new class of cationic surfactants inspired by N-alkyl-N-methyl pyrrolidinium ionic liquids. <i>Analyst, The</i> , 2004 , 129, 890-2	5	106
263	The emerging roles of carbon dots in solar photovoltaics: a critical review. <i>Environmental Science: Nano</i> , 2017 , 4, 1216-1263	7.1	104
262	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	14.7	100
261	PEG-functionalized ionic liquids for cellulose dissolution and saccharification. <i>Green Chemistry</i> , 2012 , 14, 2922	10	99
260	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
259	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
258	Limited thermal stability of imidazolium and pyrrolidinium ionic liquids. <i>Thermochimica Acta</i> , 2009 , 491, 118-120	2.9	96
257	Noncontact two-color luminescence thermometry based on intramolecular luminophore cyclization within an ionic liquid. <i>Chemical Communications</i> , 2003 , 2932-3	5.8	95
256	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	2.9	93
255	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	3.9	93
254	Ultrastable superbase-derived protic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4181-3	3.4	92
253	Correlation between the fluorescent response of microfluidity probes and the water content and viscosity of ionic liquid and water mixtures. <i>Analyst, The</i> , 2004 , 129, 569-73	5	92
252	Effect of ionic liquid properties on lipase stabilization under microwave irradiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 57, 149-157		91
251	Multiprobe spectroscopic evidence for "hyperpolarity" within 1-butyl-3-methylimidazolium hexafluorophosphate mixtures with tetraethylene glycol. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14927-36	3.4	85
250	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, 449-61	8.3	81
249	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

248	Ionic liquids as electrolytes for the development of a robust amperometric oxygen sensor. <i>Analytical Chemistry</i> , 2011 , 83, 7066-73	7.8	78
247	Near-infrared fluorescent nanoGUMBOS for biomedical imaging. <i>ACS Nano</i> , 2009 , 3, 3854-60	16.7	77
246	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	2.8	76
245	A Simple Colorimetric Assay of Ionic Liquid Hydrolytic Stability. <i>Australian Journal of Chemistry</i> , 2005 , 58, 174	1.2	76
244	Self-aggregation of sodium dodecyl sulfate within (choline chloride + urea) deep eutectic solvent. <i>Langmuir</i> , 2014 , 30, 13191-8	4	75
243	Study of Ether-, Alcohol-, or Cyano-Functionalized Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2434-2443	2.8	75
242	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
241	Oxidative Desulfurization of Fuels Using Ionic Liquids: A Review. <i>Frontiers of Chemical Science and Engineering</i> , 2015 , 9, 262-279	4.5	73
240	Ionic liquid-induced unprecedented size enhancement of aggregates within aqueous sodium dodecylbenzene sulfonate. <i>Langmuir</i> , 2010 , 26, 17821-6	4	73
239	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
238	Fluorescence, Phosphorescence, and Chemiluminescence. <i>Analytical Chemistry</i> , 2016 , 88, 170-202	7.8	72
237	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	2.8	72
236	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	16.4	69
235	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
234	Effects of temperature on calcium-sensitive fluorescent probes. <i>Biophysical Journal</i> , 2000 , 78, 2116-26	2.9	66
233	Nontemplated approach to tuning the spectral properties of cyanine-based fluorescent nanoGUMBOS. <i>Langmuir</i> , 2010 , 26, 12867-76	4	65
232	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, 13866-71	3.4	65
231	Bristed acidic room temperature ionic liquids derived from N,N-dimethylformamide and similar protophilic amides. <i>Green Chemistry</i> , 2006 , 8, 599-602	10	64

230	Differential Microscopic Mobility of Components within a Deep Eutectic Solvent. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2924-8	6.4	63
229	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, 12825-30	3.4	63
228	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	3.8	63
227	Fast enzymatic saccharification of switchgrass after pretreatment with ionic liquids. <i>Biotechnology Progress</i> , 2010 , 26, 127-33	2.8	62
226	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
225	Effects of Poly(ethylene glycol) Doping on the Behavior of Pyrene, Rhodamine 6G, and Acrylodan-Labeled Bovine Serum Albumin Sequestered within Tetramethylorthosilane-Derived Sol-Gel-Processed Composites. <i>Journal of Sol-Gel Science and Technology</i> , 1998 , 11, 43-54	2.3	61
224	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
223	Molecular fluorescence, phosphorescence, and chemiluminescence spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 597-625	7.8	58
222	'Liquid litmus': chemosensory pH-responsive photonic ionic liquids. <i>Chemical Communications</i> , 2011 , 47, 4775-7	5.8	58
221	Cation Cross-Linked Ionic Liquids as Anion-Exchange Materials. <i>Chemistry of Materials</i> , 2009 , 21, 4756-4758	5.8	58
220	Fluorescence correlation spectroscopy evidence for structural heterogeneity in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12395-8	3.6	56
219	Affinity and Mobility of Polyclonal Anti-Dansyl Antibodies Sequestered within Sol-Gel-Derived Biogels. <i>Chemistry of Materials</i> , 2000 , 12, 1142-1147	9.6	56
218	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, 1215-24	7.8	55
217	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
216	Performance of Cholesterol Oxidase Sequestered within Reverse Micelles Formed in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2000 , 16, 4901-4905	4	51
215	Ionic liquid-controlled J- versus H-aggregation of cyanine dyes. <i>Chemical Communications</i> , 2011 , 47, 4730-2	5.8	50
214	Fluorescence correlation spectroscopic studies of diffusion within the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Analyst</i> , 2003 , 128, 786-9	5	50
213	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

212	Anion-controlled morphologies and spectral features of cyanine-based nanoGUMBOS--an improved photosensitizer. <i>Nanoscale</i> , 2012 , 4, 5031-8	7.7	49
211	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	2.8	49
210	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
209	Fluorescent probe studies of polarity and solvation within room temperature ionic liquids: a review. <i>Journal of Fluorescence</i> , 2012 , 22, 1313-43	2.4	47
208	Molecular fluorescence, phosphorescence, and chemiluminescence spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 4865-94	7.8	46
207	Multiprobe spectroscopic investigation of molecular-level behavior within aqueous 1-butyl-3-methylimidazolium tetrafluoroborate. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3088-98	3.4	46
206	Controllable formation of ionic liquid micro- and nanoparticles via a melt-emulsion-quench approach. <i>Nano Letters</i> , 2008 , 8, 897-901	11.5	46
205	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
204	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, 1676-84	3.4	43
203	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
202	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, 7823-33	7.8	42
201	Label-free sugar detection using phenylboronic acid-functionalized piezoresistive microcantilevers. <i>Analytical Chemistry</i> , 2008 , 80, 4860-5	7.8	42
200	Ionic Liquid-Assisted Synthesis of Nanoscale (MoS)(SnO) on Reduced Graphene Oxide for the Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8065-8074	9.5	41
199	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	3.8	41
198	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
197	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, 7929-33	3.6	39
196	Dendrimers Functionalized with a Single Pyrene Label: Synthesis, Photophysics, and Fluorescence Quenching. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 8649-8656	3.4	39
195	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

194	Extending the reach of immunoassays to optically dense specimens by using two-photon excited fluorescence polarization. <i>Analytical Chemistry</i> , 2000 , 72, 5748-52	7.8	38
193	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	5.5	38
192	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
191	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	3.4	37
190	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
189	Magnetic and nonmagnetic nanoparticles from a group of uniform materials based on organic salts. <i>ACS Nano</i> , 2009 , 3, 3244-50	16.7	37
188	Fluorescent single walled carbon nanotube/silica composite materials. <i>ACS Nano</i> , 2008 , 2, 2283-90	16.7	37
187	Linkage and redox isomerism in ruthenium complexes of catecholate, semiquinone, and o-acylphenolate ligands derived from 1,2-dihydroxy-9,10-anthracenedione (alizarin) and related species: syntheses, characterizations, and photophysics. <i>Inorganic Chemistry</i> , 2000 , 39, 5807-16	5.1	37
186	Methane-oxygen electrochemical coupling in an ionic liquid: a robust sensor for simultaneous quantification. <i>Analyst, The</i> , 2014 , 139, 5140-7	5	36
185	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
184	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, 178-84	9.5	36
183	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, 5311-8	4.5	36
182	Synthesis and luminescence study of Eu ³⁺ in Zn ₂ SiO ₄ nanocrystals. <i>Optical Materials</i> , 2004 , 27, 15-20	3.3	36
181	Effects of Processing Temperature on the Oxygen Quenching Behavior of Tris(4,7?-diphenyl-1,10?-phenanthroline) Ruthenium (II) Sequestered Within Sol-Gel-Derived Xerogel Films. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 17, 71-82	2.3	36
180	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
179	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
178	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, 5122-31	3.6	35
177	J-aggregation of ionic liquid solutions of meso-tetrakis(4-sulfonatophenyl)porphyrin. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1886-94	3.6	35

176	Molecular fluorescence, phosphorescence, and chemiluminescence spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 4551-74	7.8	35
175	Electrokinetic chromatographic characterization of novel pseudo-phases based on N-alkyl-N-methylpyrrolidinium ionic liquid type surfactants. <i>Electrophoresis</i> , 2006 , 27, 4141-8	3.6	35
174	N-Alkyl-N-methylpyrrolidinium salts as templates for hexagonally meso-ordered silicate thin films. <i>Chemical Communications</i> , 2005 , 939-41	5.8	35
173	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
172	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
171	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
170	Exploring luminescence-based temperature sensing using protein-passivated gold nanoclusters. <i>Nanoscale</i> , 2014 , 6, 9594-8	7.7	33
169	Cholesterol determination using protein-templated fluorescent gold nanocluster probes. <i>Analyst</i> , 2013 , 138, 7299-302	5	33
168	Fluorescence energy transfer efficiency in labeled yeast cytochrome c: a rapid screen for ion biocompatibility in aqueous ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3642-4	3.6	33
167	Comment on "How polar are ionic liquids? Determination of the static dielectric constant of an imidazolium-based ionic liquid by microwave dielectric spectroscopy". <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5822-3; discussion 5824	3.4	33
166	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
165	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
164	On the Microenvironments Surrounding Dansyl Sequestered within Class I and II Xerogels. <i>Chemistry of Materials</i> , 2000 , 12, 3547-3551	9.6	32
163	Toward Tailored Xerogel Composites: Local Dipolarity and Nanosecond Dynamics within Binary Composites Derived from Tetraethylorthosilane and ORMOSILs, Oligomers or Surfactants. <i>Journal of Sol-Gel Science and Technology</i> , 1999 , 15, 37-48	2.3	32
162	Physicochemical properties and activity coefficients at infinite dilution for organic solutes and water in a novel bicyclic guanidinium superbase-derived protic ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2013 , 58, 62-69	2.9	31
161	Microscopic diffusion dynamics of silver complex-based room-temperature ionic liquids probed by quasielastic neutron scattering. <i>ChemPhysChem</i> , 2011 , 12, 944-50	3.2	31
160	Optically responsive switchable ionic liquid for internally-referenced fluorescence monitoring and visual determination of carbon dioxide. <i>Chemical Communications</i> , 2012 , 48, 7043-5	5.8	30
159	Effects of Subzero Temperatures on Fluorescent Probes Sequestered within Aerosol-OT Reverse Micelles. <i>Langmuir</i> , 2004 , 20, 1551-1557	4	30

158	Study of benzyl- or cyclohexyl-functionalized ionic liquids using inverse gas chromatography. <i>Journal of Molecular Liquids</i> , 2017 , 242, 550-559	6	28
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10	Carbon dioxide emulsion assisted loading of polymer microspheres toward sustained release materials. <i>Langmuir</i> , 2005 , 21, 3730-2	4	1
9	Fluorescence Lifetime Measurements, Applications of 2006 ,		1
8	Aspects of Chemical Recognition and Biosolvation within Room Temperature Ionic Liquids. <i>ACS Symposium Series</i> , 2003 , 212-224	0.4	1
7	Deep eutectic solvents comprising creatine and citric acid and their hydrated mixtures.. <i>Chemical Communications</i> , 2022 ,	5.8	1
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5	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
4	Cocrystallization of C-Propyl Pyrogallol[4]arene and the Pharmaceutical Gabapentin. <i>Journal of Chemical Crystallography</i> , 2019 , 49, 119-124	0.5	
3	On the behavior of indole-containing species sequestered within reverse micelles at sub-zero temperatures. <i>Applied Spectroscopy</i> , 2007 , 61, 537-47	3.1	
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