Anunay Samanta

List of Publications by Citations

175 papers	9,097 citations	53 h-index	91 g-index
188 ext. papers	10,070 ext. citations	4.5 avg, IF	6.87 L-index

#	Paper	IF	Citations
175	How polar are room-temperature ionic liquids?. *Chemical Communications*, **2001**, 413-414	5.8	331
174	Dynamic stokes shift and excitation wavelength dependent fluorescence of dipolar molecules in room temperature ionic liquids. *Journal of Physical Chemistry B*, **2006**, 110, 13704-16	3.4	326
173	On the optical properties of the imidazolium ionic liquids. *Journal of Physical Chemistry B*, **2005**, 109, 9148-53	3.4	318
172	Solvation Dynamics of Coumarin-153 in a Room-Temperature Ionic Liquid. *Journal of Physical Chemistry A*, **2002**, 106, 4447-4452	2.8	253
171	Achieving Near-Unity Photoluminescence Efficiency for Blue-Violet-Emitting Perovskite Nanocrystals. *ACS Energy Letters*, **2019**, 4, 32-39	20.1	251
170	State of the Art and Prospects for Halide Perovskite Nanocrystals. *ACS Nano*, **2021**, 15, 10775-10981	16.7	222
169	Structure of a self-assembled chain of water molecules in a crystal host. *Angewandte Chemie - International Edition*, **2003**, 42, 1741-3	16.4	216
168	Excitation-Wavelength-Dependent Fluorescence Behavior of Some Dipolar Molecules in Room-Temperature Ionic Liquids. *Journal of Physical Chemistry A*, **2004**, 108, 9048-9053	2.8	209
167	How transparent are the imidazolium ionic liquids? A case study with 1-methyl-3-butylimidazolium hexafluorophosphate, [bmim][PF6]. *Chemical Physics Letters*, **2005**, 402, 375-379	2.5	208
166	Unusually High Fluorescence Enhancement of Some 1,8-Naphthalimide Derivatives Induced by Transition Metal Salts. *Journal of Physical Chemistry B*, **2000**, 104, 11824-11832	3.4	197
165	Steady-State and Time-Resolved Fluorescence Behavior of C153 and PRODAN in Room-Temperature Ionic Liquids. *Journal of Physical Chemistry A*, **2002**, 106, 6670-6675	2.8	187
164	Solvation Dynamics in Ionic Liquids: What We Have Learned from the Dynamic Fluorescence Stokes Shift Studies. *Journal of Physical Chemistry Letters*, **2010**, 1, 1557-1562	6.4	180
163	Boosting the Photoluminescence of CsPbX3 (X = Cl, Br, I) Perovskite Nanocrystals Covering a Wide Wavelength Range by Postsynthetic Treatment with Tetrafluoroborate Salts. *Chemistry of Materials* , **2018**, 30, 3633-3637	9.6	175
162	Dynamics of Solvation of the Fluorescent State of Some Electron Donor-Acceptor Molecules in Room Temperature Ionic Liquids, [BMIM][(CF3SO2)2N] and [EMIM][(CF3SO2)2N]. *Journal of Physical Chemistry A*, **2003**, 107, 7340-7346	2.8	174
161	Excited-state dipole moments of some Coumarin dyes from a solvatochromic method using the solvent polarity parameter, ENT. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 2739		168
160	Influence of the Structure of the Amino Group and Polarity of the Medium on the Photophysical Behavior of 4-Amino-1,8-naphthalimide Derivatives. *Journal of Physical Chemistry A*, **2002**, 106, 4763-4771	2.8	160
159	Complete ultrafast charge carrier dynamics in photo-excited all-inorganic perovskite nanocrystals (CsPbX). *Nanoscale*, **2017**, 9, 1878-1885	7.7	157

158	Luminescence tuning and exciton dynamics of Mn-doped CsPbCl nanocrystals. *Nanoscale*, **2017**, 9, 16722-16727	7.6	146
157	Tackling the Defects, Stability, and Photoluminescence of CsPbX3 Perovskite Nanocrystals. *ACS Energy Letters*, **2019**, 4, 1610-1618	20.1	146
156	Solute rotation and solvation dynamics in an alcohol-functionalized room temperature ionic liquid. *Journal of Physical Chemistry B*, **2007**, 111, 4724-31	3.4	132
155	A new strategy for ratiometric fluorescence detection of transition metal ions. *Journal of Physical Chemistry B*, **2006**, 110, 6437-40	3.4	132
154	Evidence of Ground-State Proton-Transfer Reaction of 3-Hydroxyflavone in Neutral Alcoholic Solvents. *Journal of Physical Chemistry A*, **2003**, 107, 6334-6339	2.8	125
153	Fluorescence Blinking and Photoactivation of All-Inorganic Perovskite Nanocrystals CsPbBr3 and CsPbBr2I. *Journal of Physical Chemistry Letters*, **2016**, 7, 266-71	6.4	121
152	Interaction of bovine serum albumin with dipolar molecules: fluorescence and molecular docking studies. *Journal of Physical Chemistry B*, **2009**, 113, 2143-50	3.4	119
151	Transition Metal Ion Induced Fluorescence Enhancement of 4-(N,N-Dimethylethylenediamino)-7-nitrobenz-2-oxa-1,3-diazole. *Journal of Physical Chemistry A*, **1998**, 102, 10579-10587	2.8	111
150	Fluorescence studies in a pyrrolidinium ionic liquid: polarity of the medium and solvation dynamics. *Journal of Physical Chemistry B*, **2005**, 109, 15172-7	3.4	109
149	Excitation wavelength dependent fluorescence behavior of the room temperature ionic liquids and dissolved dipolar solutes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 182, 113-120	4.7	109
148	A highly selective □ff□n□ fluorescence chemosensor for Cr(III). *Tetrahedron Letters*, **2006**, 47, 7575-7578	2	106
147	Photoinduced electron transfer reaction in room temperature ionic liquids: a combined laser flash photolysis and fluorescence study. *Journal of Physical Chemistry B*, **2007**, 111, 1957-62	3.4	105
146	Dipole moment change of NBD group upon excitation studied using solvatochromic and quantum chemical approaches: Implications in membrane research. *The Journal of Physical Chemistry*, **1994**, 98, 2809-2812		104
145	Fluorescent Phase-Pure Zero-Dimensional Perovskite-Related CsPbBr Microdisks: Synthesis and Single-Particle Imaging Study. *Journal of Physical Chemistry Letters*, **2017**, 8, 4461-4467	6.4	101
144	Excited-state proton-transfer dynamics of 7-hydroxyquinoline in room temperature ionic liquids. *Journal of Physical Chemistry B*, **2008**, 112, 10101-6	3.4	99
143	A Facile Methodology for Engineering the Morphology of CsPbX Perovskite Nanocrystals under Ambient Condition. *Scientific Reports*, **2016**, 6, 37693	4.9	95
142	Solvation dynamics of Nile Red in a room temperature ionic liquid using streak camera. *Physical Chemistry Chemical Physics*, **2004**, 6, 3106	3.6	94
141	The Fluorescence Response of a Structurally Modified 4-Aminophthalimide Derivative Covalently Attached to a Fatty Acid in Homogeneous and Micellar Environments. *Journal of Physical Chemistry B*, **1999**, 103, 2906-2911	3.4	85

140	Microheterogeneity of some imidazolium ionic liquids as revealed by fluorescence correlation spectroscopy and lifetime studies. *Journal of Physical Chemistry B*, **2012**, 116, 12275-83	3.4	81
139	Excited State Dipole Moment of PRODAN as Determined from Transient Dielectric Loss Measurements. *Journal of Physical Chemistry A*, **2000**, 104, 8972-8975	2.8	74
138	Tuning the size and optical properties in molecular nano/microcrystals: manifestation of hierarchical interactions. *Small*, **2006**, 2, 650-9	11	72
137	4-Aminophthalimide Derivatives as Environment-Sensitive Probes. *Journal of Fluorescence*, **1998**, 8, 405-410	2.4	70
136	Effect of the alkyl chain length on the rotational dynamics of nonpolar and dipolar solutes in a series of N-alkyl-N-methylmorpholinium ionic liquids. *Journal of Physical Chemistry B*, **2013**, 117, 5156-64	3.4	67
135	Free volume dependence of the internal rotation of a molecular rotor probe in room temperature ionic liquids. *Journal of Physical Chemistry B*, **2008**, 112, 16626-32	3.4	67
134	Polarity of the micelle-water interface as seen by 4-aminophthalimide, a solvent sensitive fluorescence probe. *Chemical Physics Letters*, **1995**, 246, 506-512	2.5	67
133	Photoluminescence of Zero-Dimensional Perovskites and Perovskite-Related Materials. *Journal of Physical Chemistry Letters*, **2018**, 9, 176-183	6.4	67
132	Fluorescence response of coumarin-153 in N-alkyl-N-methylmorpholinium ionic liquids: are these media more structured than the imidazolium ionic liquids?. *Journal of Physical Chemistry B*, **2012**, 116, 13430-8	3.4	64
131	Fluorescence Signalling of Transition Metal Ions by Multi-Component Systems Comprising 4-Chloro-1,8-naphthalimide as Fluorophore. *Tetrahedron*, **2000**, 56, 7041-7044	2.4	63
130	Differential effect of cholesterol and its biosynthetic precursors on membrane dipole potential. *Biophysical Journal*, **2012**, 102, 1561-9	2.9	62
129	Excited-State Dipole Moment of 7-Aminocoumarins as Determined from Time-Resolved Microwave Dielectric Absorption Measurements. *Journal of Physical Chemistry A*, **2000**, 104, 8577-8582	2.8	60
128	Effect of nonpolar solvents on the solute rotation and solvation dynamics in an imidazolium ionic liquid. *Journal of Physical Chemistry B*, **2008**, 112, 947-53	3.4	57
127	A two-dimensional chromogenic sensor as well as fluorescence inverter: selective detection of copper(II) in aqueous medium. *New Journal of Chemistry*, **2005**, 29, 1007	3.6	57
126	Photophysical and Transition-Metal Ion Signaling Behavior of a Three-Component System Comprising a Cryptand Moiety as the Receptor. *Journal of Physical Chemistry B*, **2002**, 106, 5572-5577	3.4	55
125	Ambient Condition Mg Doping Producing Highly Luminescent Green- and Violet-Emitting Perovskite Nanocrystals with Reduced Toxicity and Enhanced Stability. *Journal of Physical Chemistry Letters*, **2020**, 11, 1178-1188	6.4	54
124	A colorimetric chemosensor for both fluoride and transition metal ions based on dipyrrolyl derivative. *Dalton Transactions*, **2006**, 795-801	4.3	54
123	Photophysical and Dynamic NMR Studies on 4-Amino-7-nitrobenz-2-oxa-1, 3-diazole Derivatives: Elucidation of the Nonradiative Deactivation Pathway. *Journal of Physical Chemistry A*, **1998**, 102, 7903-7912	2.8	54

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121	Ultrafast carrier dynamics of metal halide perovskite nanocrystals and perovskite-composites. *Nanoscale*, **2019**, 11, 9796-9818	7.7	51
120	Optical absorption and fluorescence studies on imidazolium ionic liquids comprising thebis(trifluoromethanesulphonyl)imide anion. *Journal of Chemical Sciences*, **2006**, 118, 335-340	1.8	50
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116	Structural transformation of bovine serum albumin induced by dimethyl sulfoxide and probed by fluorescence correlation spectroscopy and additional methods. *ChemPhysChem*, **2013**, 14, 2441-9	3.2	44
115	Broadband femtosecond nonlinear optical properties of CsPbBr perovskite nanocrystals. *Optics Letters*, **2018**, 43, 603-606	3	42
114	Fluorescence response of 4-(N,N'-dimethylamino)benzonitrile in room temperature ionic liquids: observation of photobleaching under mild excitation condition and multiphoton confocal microscopic study of the fluorescence recovery dynamics. *Journal of Physical Chemistry B*, **2010**, 114, 1967-74	3.4	42
113	Broadband ultrafast nonlinear optical studies revealing exciting multi-photon absorption coefficients in phase pure zero-dimensional CsPbBr perovskite films. *Nanoscale*, **2019**, 11, 945-954	7.7	41
112	Folding and unfolding movements in a [2]pseudorotaxane. *Journal of Organic Chemistry*, **2011**, 76, 138-44	4.2	39
111	An investigation of the triplet state properties of 1,8-naphthalimide: a laser flash photolysis study. *Journal of Photochemistry and Photobiology A: Chemistry*, **1996**, 101, 29-32	4.7	39
110	How important is the quenching influence of the transition metal ions in the design of fluorescent PET sensors?. *Chemical Physics Letters*, **1998**, 290, 9-16	2.5	38
109	Solute Rotation and Translation Dynamics in an Ionic Deep Eutectic Solvent Based on Choline Chloride. *Journal of Physical Chemistry B*, **2017**, 121, 10556-10565	3.4	37
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89	Mechanistic Investigation of the Defect Activity Contributing to the Photoluminescence Blinking of CsPbBr Perovskite Nanocrystals. *ACS Nano*, **2019**, 13, 13537-13544	16.7	25
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65	First Simultaneous Estimates of the Water Pool Core Size and the Interfacial Thickness of a Cationic Water-in-Oil Microemulsion by Combined Use of Chemical Trapping and Time-Resolved Fluorescence Quenching. *Langmuir*, **1999**, 15, 4765-4772	4	16
64	Excited state deprotonation reactions of aromatic amines: a diffusion-controlled process. *Journal of Photochemistry and Photobiology A: Chemistry*, **1989**, 48, 61-68	4.7	16
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59	Ratiometric fluorescence signalling of fluoride ions by an amidophthalimide derivative. *Journal of Chemical Sciences*, **2007**, 119, 91-97	1.8	14
58	Electron acceptor behavior of 9-phenylxanthenium carbocation singlet. *Chemical Physics Letters*, **1990**, 167, 165-169	2.5	14
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54	Interaction between a pyridyl and a naphthyl/pyrenyl moiety in covalently linked systems. *Chemical Physics Letters*, **2002**, 351, 61-70	2.5	12
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48	Temporal behavior of the singlet molecular oxygen emission in imidazolium and morpholinium ionic liquids and its implications. *Journal of Physical Chemistry B*, **2015**, 119, 6696-702	3.4	10
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39	Synthesis, structure and luminescence behaviour of a mononuclear cadmium(II) dicyanamide and a coordination polymer of mercury(II) dicyanamide containing 2,2?-dipyridylamine (dpaH) as end-capping ligand/anion of dpaH as binucleating bridge. Variance in coordination numbers, nuclearities and architectures with metal:ligand ratios. *Inorganica Chimica Acta*, **2011**, 367, 199-206	2.7	8
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35	Influence of Divalent Counterions on the Dynamics in DNA as Probed by Using a Minor-Groove Binder. *ChemPhysChem*, **2017**, 18, 2058-2064	3.2	7
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29	Long and Short Brick Network Architecture: Role of Water Molecules Acting as Three-Connecting Spacers. *Crystal Growth and Design*, **2006**, 6, 360-362	3.5	6
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