Sarthak Mandal

List of Publications by Year
in descending order

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52	1,615	218381	301761
papers	citations	26 h-index	39 g-index

54	54	54	1761
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Catalytic Activity of a New Nanobiocatalytic System Formed by the Adsorption of Cytochrome c on Pluronic Triblock Copolymer Stabilized MoS₂ Nanosheets. ACS Omega, 2022, 7, 16593-16604.	1.6	2
2	Interfacing Photosystem I Reaction Centers with a Porous Antimony-Doped Tin Oxide Electrode to Perform Light-Driven Redox Chemistry. ACS Applied Electronic Materials, 2021, 3, 2087-2096.	2.0	7
3	Nanotube Template-Directed Formation of Strongly Coupled Dye Aggregates with Tunable Exciton Fluorescence Controlled by Switching between J- and H-Type Electronic Coupling. Journal of Physical Chemistry B, 2021, 125, 7447-7455.	1.2	5
4	Directed Energy Transfer through DNA-Templated J-Aggregates. Bioconjugate Chemistry, 2019, 30, 1870-1879.	1.8	22
5	Efficient Long-Range, Directional Energy Transfer through DNA-Templated Dye Aggregates. Journal of the American Chemical Society, 2019, 141, 8473-8481.	6.6	63
6	Interfacing Photosystem I Reaction Centers with a Porous Antimony-Doped Tin Oxide Electrode to Perform Light Driven Redox Chemistry. Biophysical Journal, 2019, 116, 443a.	0.2	1
7	Programmed coherent coupling in a synthetic DNA-based excitonic circuit. Nature Materials, 2018, 17, 159-166.	13.3	106
8	Modification of fatty acid vesicle using an imidazolium-based surface active ionic liquid: a detailed study on its modified properties using spectroscopy and microscopy techniques $$^{S }$$ Â§. Journal of Chemical Sciences, 2018, 130, 1.	0.7	9
9	Influence of the Electrochemical Properties of the Bacteriochlorophyll Dimer on Triplet Energy-Transfer Dynamics in Bacterial Reaction Centers. Journal of Physical Chemistry B, 2018, 122, 10097-10107.	1.2	3
10	Quantum Dot-based Fluorescence Resonance Energy Transfer through Exciton Dynamics in DNA-Templated J-Aggregates. Biophysical Journal, 2018, 114, 523a.	0.2	0
11	Second harmonic study of acid-base equilibrium at gold nanoparticle/aqueous interface. Chemical Physics Letters, 2017, 683, 166-171.	1.2	5
12	Mechanism of Triplet Energy Transfer in Photosynthetic Bacterial Reaction Centers. Journal of Physical Chemistry B, 2017, 121, 6499-6510.	1.2	11
13	Ultrafast FRET to Study Spontaneous Micelleâ€toâ€Vesicle Transitions in an Aqueous Mixed Surfaceâ€Active Ionicâ€Liquid System. ChemPhysChem, 2014, 15, 3544-3553.	1.0	26
14	Thermoregulated Formation and Disintegration of Cationic Block Copolymer Vesicles: Fluorescence Resonance Energy Transfer Study. Journal of Physical Chemistry B, 2014, 118, 2274-2283.	1.2	17
15	Exploring the Photophysics of Curcumin in Zwitterionic Micellar System: An Approach to Control ESIPT Process in the Presence of Room Temperature Ionic Liquids (RTILs) and Anionic Surfactant. Journal of Physical Chemistry B, 2014, 118, 3669-3681.	1.2	33
16	Vesicles Formed in Aqueous Mixtures of Cholesterol and Imidazolium Surface Active Ionic Liquid: A Comparison with Common Cationic Surfactant by Water Dynamics. Journal of Physical Chemistry B, 2014, 118, 5913-5923.	1.2	54
17	Fluorescence Resonance Energy Transfer in Microemulsions Composed of Tripled-Chain Surface Active Ionic Liquids, RTILs, and Biological Solvent: An Excitation Wavelength Dependence Study. Journal of Physical Chemistry B, 2013, 117, 9508-9517.	1.2	28
18	Spontaneous Transition of Micelleâ€“Vesicleâ€“Micelle in a Mixture of Cationic Surfactant and Anionic Surfactant-like Ionic Liquid: A Pure Nonlipid Small Unilamellar Vesicular Template Used for Solvent and Rotational Relaxation Study. Langmuir, 2013, 29, 10066-10076.	1.6	90

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19	Phase Boundaries, Structural Characteristics, and NMR Spectra of Ionic Liquid-in-Oil Microemulsions Containing Double Chain Surface Active Ionic Liquid: A Comparative Study. Journal of Physical Chemistry B, 2013, 117, 1480-1493.	1.2	39
20	Zwitterionic micelles as a soft template for the extremely rapid synthesis of small hollow gold nanocontainers. RSC Advances, 2013, 3, 14963.	1.7	9
21	A Novel Ionic Liquid-in-Oil Microemulsion Composed of Biologically Acceptable Components: An Excitation Wavelength Dependent Fluorescence Resonance Energy Transfer Study. Journal of Physical Chemistry B, 2013, 117, 3221-3231.	1.2	32
22	Solvent and rotational relaxation of coumarin-153 and coumarin-480 in ionic liquid (1-butyl-3-methylimidazolium tetrafluoroborate) modified sodium 1,4-bis(2-ethylhexyl) sulfosuccinate (NaAOT) micelle. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 102, 371-378.	2.0	9
23	Unique Photophysical Behavior of 2,2â€²-Bipyridine-3,3â€²-diol in DMSOâ€“Water Binary Mixtures: Potential Application for Fluorescence Sensing of Zn²⁺ Based on the Inhibition of Excited-State Intramolecular Double Proton Transfer. Journal of Physical Chemistry B, 2013, 117, 12212-12223.	1.2	32
24	An Investigation into the Effect of the Structure of Bile Salt Aggregates on the Binding Interactions and ESIHT Dynamics of Curcumin: A Photophysical Approach To Probe Bile Salt Aggregates as a Potential Drug Carrier. Journal of Physical Chemistry B, 2013, 117, 13795-13807.	1.2	53
25	Is it possible to apply dynamics of solvent to locate metal nanoparticles inside an ionic liquids-containing microheterogeneous system? A comparative study. Chemical Physics Letters, 2013, 580, 88-93.	1.2	10
26	Unique Characteristics of Ionic Liquids Comprised of Long-Chain Cations and Anions: A New Physical Insight. Journal of Physical Chemistry B, 2013, 117, 3927-3934.	1.2	40
27	Effect of Alkyl Chain of Room Temperature Ionic Liquid (RTILs) on the Phase Behavior of [C₂mim][C_nSO₄]/TX-100/Cyclohexane Microemulsions: Solvent and Rotational Relaxation Study. Journal of Physical Chemistry B, 2013, 117, 5886-5897.	1.2	25
28	A Step toward the Development of High-Temperature Stable Ionic Liquid-in-Oil Microemulsions Containing Double-Chain Anionic Surface Active Ionic Liquid. Journal of Physical Chemistry B, 2013, 117, 7472-7480.	1.2	51
29	Modulation of the Photophysical Properties of Curcumin in Nonionic Surfactant (Tween-20) Forming Micelles and Niosomes: A Comparative Study of Different Microenvironments. Journal of Physical Chemistry B, 2013, 117, 6957-6968.	1.2	114
30	Curcumin in Reverse Micelle: An Example to Control Excited-State Intramolecular Proton Transfer (ESIPT) in Confined Media. Journal of Physical Chemistry B, 2013, 117, 6906-6916.	1.2	48
31	Roles of Viscosity, Polarity, and Hydrogen-Bonding Ability of a Pyrrolidinium Ionic Liquid and Its Binary Mixtures in the Photophysics and Rotational Dynamics of the Potent Excited-State Intramolecular Proton-Transfer Probe 2,2â€²-Bipyridine-3,3â€²-diol. Journal of Physical Chemistry B, 2013, 117, 6789-6800.	1.2	23
32	Modulation of the Photophysical Properties of 2,2â€²-Bipyridine-3,3â€²-diol inside Bile Salt Aggregates: A Fluorescence-based Study for the Molecular Recognition of Bile Salts. Langmuir, 2013, 29, 133-143.	1.6	24
33	Photoinduced electron transfer between various coumarin analogues and N,N-dimethylaniline inside niosome, a nonionic innocuous polyethylene glycol-based surfactant assembly. Physical Chemistry Chemical Physics, 2012, 14, 8925.	1.3	23
34	Designing a New Strategy for the Formation of IL-in-Oil Microemulsions. Journal of Physical Chemistry B, 2012, 116, 2850-2855.	1.2	71
35	Pluronic Micellar Aggregates Loaded with Gold Nanoparticles (Au NPs) and Fluorescent Dyes: A Study of Controlled Nanometal Surface Energy Transfer. Journal of Physical Chemistry C, 2012, 116, 5585-5597.	1.5	56
36	Tuning the Probe Location on Zwitterionic Micellar System with Variation of pH and Addition of Surfactants with Different Alkyl Chains: Solvent and Rotational Relaxation Studies. Journal of Physical Chemistry B, 2012, 116, 11313-11322.	1.2	10

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37	Ionic Liquid-in-Oil Microemulsions Composed of Double Chain Surface Active Ionic Liquid as a Surfactant: Temperature Dependent Solvent and Rotational Relaxation Dynamics of Coumarin-153 in [Py][TF₂N]/[C₄mim][AOT]/Benzene Microemulsions. Journal of Physical Chemistry B, 2012, 116, 8210-8221.	1.2	52
38	Modulation of Photophysics and Photodynamics of 1â€²-Hydroxy-2â€²-acetonaphthone (HAN) in Bile Salt Aggregates: A Study of Polarity and Nanoconfinement Effects. Journal of Physical Chemistry B, 2012, 116, 8780-8792.	1.2	19
39	Ionic-Liquid-Induced Changes in the Properties of Aqueous Zwitterionic Surfactant Solution: Solvent and Rotational Relaxation Studies. Journal of Physical Chemistry B, 2012, 116, 3690-3698.	1.2	6
40	Protic ionic liquid-induced changes in the properties of aqueous triton X-100â€“CTAB surfactant solution: Solvent and rotational relaxation studies. Chemical Physics Letters, 2012, 552, 38-43.	1.2	6
41	Photophysics of 3,3â€²-Diethyloxadicarbocyanine Iodide (DODCI) in Ionic Liquid Micelle and Binary Mixtures of Ionic Liquids: Effect of Confinement and Viscosity on Photoisomerization Rate. Journal of Physical Chemistry B, 2012, 116, 9482-9491.	1.2	11
42	Study of Fluorescence Resonance Energy Transfer in Zwitterionic Micelle: Ionic-Liquid-Induced Changes in FRET Parameters. Journal of Physical Chemistry B, 2012, 116, 12021-12029.	1.2	30
43	An Understanding of the Modulation of Photophysical Properties of Curcumin inside a Micelle Formed by an Ionic Liquid: A New Possibility of Tunable Drug Delivery System. Journal of Physical Chemistry B, 2012, 116, 3369-3379.	1.2	85
44	Aggregation Behavior of Triton X-100 with a Mixture of Two Room-Temperature Ionic Liquids: Can We Identify the Mutual Penetration of Ionic Liquids in Ionic Liquid Containing Micellar Aggregates?. Journal of Physical Chemistry B, 2012, 116, 13868-13877.	1.2	21
45	Photoinduced Electron Transfer in an Imidazolium Ionic Liquid and in Its Binary Mixtures with Water, Methanol, and 2-Propanol: Appearance of Marcus-Type of Inversion. Journal of Physical Chemistry B, 2012, 116, 1335-1344.	1.2	28
46	The Chameleonâ€Like Nature of Zwitterionic Micelles: The Effect of Ionic Liquid Addition on the Properties of Aqueous Sulfobetaine Micelles. ChemPhysChem, 2012, 13, 1893-1901.	1.0	18
47	FÃ¶rster resonance energy transfer among a structural isomer of adenine and various Coumarins inside a nanosized reverse micelle. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 67-73.	2.0	11
48	Photophysics and Photodynamics of 1â€²-Hydroxy-2â€²-acetonaphthone (HAN) in Micelles and Nonionic Surfactants Forming Vesicles: A Comparative Study of Different Microenvironments of Surfactant Assemblies. Journal of Physical Chemistry B, 2011, 115, 12108-12119.	1.2	44
49	Photoinduced Electron Transfer in a Room Temperature Ionic Liquid 1-Butyl-3-methylimidazolium Octyl Sulfate Micelle: A Temperature Dependent Study. Journal of Physical Chemistry B, 2011, 115, 6100-6110.	1.2	28
50	Solvation Dynamics and Rotational Relaxation Study Inside Niosome, A Nonionic Innocuous Poly(ethylene Glycol)-Based Surfactant Assembly: An Excitation Wavelength Dependent Experiment. Journal of Physical Chemistry B, 2011, 115, 12514-12520.	1.2	32
51	Effects of 1-Butyl-3-methyl Imidazolium Tetrafluoroborate Ionic Liquid on Triton X-100 Aqueous Micelles: Solvent and Rotational Relaxation Studies. Journal of Physical Chemistry B, 2011, 115, 6957-6963.	1.2	34
52	Ionic Liquid-Induced Changes in Properties of Aqueous Cetyltrimethylammonium Bromide: A Comparative Study of Two Protic Ionic Liquids with Different Anions. Journal of Physical Chemistry B, 2011, 115, 3828-3837.	1.2	38