

# Sarthak Mandal

## List of Publications by Year in descending order

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52  
papers

1,615  
citations

218381

26  
h-index

301761

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of the Photophysical Properties of Curcumin in Nonionic Surfactant (Tween-20) Forming Micelles and Niosomes: A Comparative Study of Different Microenvironments. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6957-6968.	1.2	114
2	Programmed coherent coupling in a synthetic DNA-based excitonic circuit. <i>Nature Materials</i> , 2018, 17, 159-166.	13.3	106
3	Spontaneous Transition of Micelle to Vesicle 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. <i>Langmuir</i> , 2013, 29, 10066-10076.	1.6	90
4	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. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3369-3379.	1.2	85
5	Designing a New Strategy for the Formation of IL-in-Oil Microemulsions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2850-2855.	1.2	71
6	Efficient Long-Range, Directional Energy Transfer through DNA-Templated Dye Aggregates. <i>Journal of the American Chemical Society</i> , 2019, 141, 8473-8481.	6.6	63
7	Pluronic Micellar Aggregates Loaded with Gold Nanoparticles (Au NPs) and Fluorescent Dyes: A Study of Controlled Nanometal Surface Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5585-5597.	1.5	56
8	Vesicles Formed in Aqueous Mixtures of Cholesterol and Imidazolium Surface Active Ionic Liquid: A Comparison with Common Cationic Surfactant by Water Dynamics. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5913-5923.	1.2	54
9	An Investigation into the Effect of the Structure of Bile Salt Aggregates on the Binding Interactions and ESIPT Dynamics of Curcumin: A Photophysical Approach To Probe Bile Salt Aggregates as a Potential Drug Carrier. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13795-13807.	1.2	53
10	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][TF <sub>2</sub> N]/[C <sub>4</sub> mim][AOT]/Benzene Microemulsions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8210-8221.	1.2	52
11	A Step toward the Development of High-Temperature Stable Ionic Liquid-in-Oil Microemulsions Containing Double-Chain Anionic Surface Active Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7472-7480.	1.2	51
12	Curcumin in Reverse Micelle: An Example to Control Excited-State Intramolecular Proton Transfer (ESIPT) in Confined Media. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6906-6916.	1.2	48
13	Photophysics and Photodynamics of 1-Hydroxy-2-acetonaphthone (HAN) in Micelles and Nonionic Surfactants Forming Vesicles: A Comparative Study of Different Microenvironments of Surfactant Assemblies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12108-12119.	1.2	44
14	Unique Characteristics of Ionic Liquids Comprised of Long-Chain Cations and Anions: A New Physical Insight. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3927-3934.	1.2	40
15	Phase Boundaries, Structural Characteristics, and NMR Spectra of Ionic Liquid-in-Oil Microemulsions Containing Double Chain Surface Active Ionic Liquid: A Comparative Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1480-1493.	1.2	39
16	Ionic Liquid-Induced Changes in Properties of Aqueous Cetyltrimethylammonium Bromide: A Comparative Study of Two Protic Ionic Liquids with Different Anions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3828-3837.	1.2	38
17	Effects of 1-Butyl-3-methyl Imidazolium Tetrafluoroborate Ionic Liquid on Triton X-100 Aqueous Micelles: Solvent and Rotational Relaxation Studies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6957-6963.	1.2	34
18	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. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3669-3681.	1.2	33

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19	Solvation Dynamics and Rotational Relaxation Study Inside Niosome, A Nonionic Innocuous Poly(ethylene Glycol)-Based Surfactant Assembly: An Excitation Wavelength Dependent Experiment. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12514-12520.	1.2	32
20	A Novel Ionic Liquid-in-Oil Microemulsion Composed of Biologically Acceptable Components: An Excitation Wavelength Dependent Fluorescence Resonance Energy Transfer Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3221-3231.	1.2	32
21	Unique Photophysical Behavior of 2,2'-Bipyridine-3,3'-diol in DMSO-Water Binary Mixtures: Potential Application for Fluorescence Sensing of Zn <sup>2+</sup> Based on the Inhibition of Excited-State Intramolecular Double Proton Transfer. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12212-12223.	1.2	32
22	Study of Fluorescence Resonance Energy Transfer in Zwitterionic Micelle: Ionic-Liquid-Induced Changes in FRET Parameters. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12021-12029.	1.2	30
23	Photoinduced Electron Transfer in a Room Temperature Ionic Liquid 1-Butyl-3-methylimidazolium Octyl Sulfate Micelle: A Temperature Dependent Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6100-6110.	1.2	28
24	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. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1335-1344.	1.2	28
25	Fluorescence Resonance Energy Transfer in Microemulsions Composed of Tripled-Chain Surface Active Ionic Liquids, RTILs, and Biological Solvent: An Excitation Wavelength Dependence Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9508-9517.	1.2	28
26	Ultrafast FRET to Study Spontaneous Micelle-to-Vesicle Transitions in an Aqueous Mixed Surface-Active Ionic-Liquid System. <i>ChemPhysChem</i> , 2014, 15, 3544-3553.	1.0	26
27	Effect of Alkyl Chain of Room Temperature Ionic Liquid (RTILs) on the Phase Behavior of [C <sub>2</sub> mim][C <sub>4</sub> SO <sub>4</sub> ]/TX-100/Cyclohexane Microemulsions: Solvent and Rotational Relaxation Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5886-5897.	1.2	25
28	Modulation of the Photophysical Properties of 2,2'-Bipyridine-3,3'-diol inside Bile Salt Aggregates: A Fluorescence-based Study for the Molecular Recognition of Bile Salts. <i>Langmuir</i> , 2013, 29, 133-143.	1.6	24
29	Photoinduced electron transfer between various coumarin analogues and N,N-dimethylaniline inside niosome, a nonionic innocuous polyethylene glycol-based surfactant assembly. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8925.	1.3	23
30	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 2,2'-Bipyridine-3,3'-diol. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6789-6800.	1.2	23
31	Directed Energy Transfer through DNA-Templated J-Aggregates. <i>Bioconjugate Chemistry</i> , 2019, 30, 1870-1879.	1.8	22
32	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?. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13868-13877.	1.2	21
33	Modulation of Photophysics and Photodynamics of 1-Hydroxy-2-acetonaphthone (HAN) in Bile Salt Aggregates: A Study of Polarity and Nanoconfinement Effects. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8780-8792.	1.2	19
34	The Chameleon-Like Nature of Zwitterionic Micelles: The Effect of Ionic Liquid Addition on the Properties of Aqueous Sulfobetaine Micelles. <i>ChemPhysChem</i> , 2012, 13, 1893-1901.	1.0	18
35	Thermoregulated Formation and Disintegration of Cationic Block Copolymer Vesicles: Fluorescence Resonance Energy Transfer Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2274-2283.	1.2	17
36	Photophysics of 3,3'-Diethyloxadicarbocyanine Iodide (DODCI) in Ionic Liquid Micelle and Binary Mixtures of Ionic Liquids: Effect of Confinement and Viscosity on Photoisomerization Rate. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9482-9491.	1.2	11

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37	First resonance energy transfer among a structural isomer of adenine and various Coumarins inside a nanosized reverse micelle. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 67-73.	2.0	11
38	Mechanism of Triplet Energy Transfer in Photosynthetic Bacterial Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6499-6510.	1.2	11
39	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. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11313-11322.	1.2	10
40	Is it possible to apply dynamics of solvent to locate metal nanoparticles inside an ionic liquids-containing microheterogeneous system? A comparative study. <i>Chemical Physics Letters</i> , 2013, 580, 88-93.	1.2	10
41	Zwitterionic micelles as a soft template for the extremely rapid synthesis of small hollow gold nanocontainers. <i>RSC Advances</i> , 2013, 3, 14963.	1.7	9
42	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 102, 371-378.	2.0	9
43	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 $\text{S}^{\wedge}\text{S}$ . <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	0.7	9
44	Interfacing Photosystem I Reaction Centers with a Porous Antimony-Doped Tin Oxide Electrode to Perform Light-Driven Redox Chemistry. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2087-2096.	2.0	7
45	Ionic-Liquid-Induced Changes in the Properties of Aqueous Zwitterionic Surfactant Solution: Solvent and Rotational Relaxation Studies. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3690-3698.	1.2	6
46	Protic ionic liquid-induced changes in the properties of aqueous triton X-100 $\hat{\text{C}}$ CTAB surfactant solution: Solvent and rotational relaxation studies. <i>Chemical Physics Letters</i> , 2012, 552, 38-43.	1.2	6
47	Second harmonic study of acid-base equilibrium at gold nanoparticle/aqueous interface. <i>Chemical Physics Letters</i> , 2017, 683, 166-171.	1.2	5
48	Nanotube Template-Directed Formation of Strongly Coupled Dye Aggregates with Tunable Exciton Fluorescence Controlled by Switching between J- and H-Type Electronic Coupling. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7447-7455.	1.2	5
49	Influence of the Electrochemical Properties of the Bacteriochlorophyll Dimer on Triplet Energy-Transfer Dynamics in Bacterial Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10097-10107.	1.2	3
50	Enhanced Catalytic Activity of a New Nanobiocatalytic System Formed by the Adsorption of Cytochrome <i>c</i> on Pluronic Triblock Copolymer Stabilized $\text{MoS}_2$ Nanosheets. <i>ACS Omega</i> , 2022, 7, 16593-16604.	1.6	2
51	Interfacing Photosystem I Reaction Centers with a Porous Antimony-Doped Tin Oxide Electrode to Perform Light Driven Redox Chemistry. <i>Biophysical Journal</i> , 2019, 116, 443a.	0.2	1
52	Quantum Dot-based Fluorescence Resonance Energy Transfer through Exciton Dynamics in DNA-Templated J-Aggregates. <i>Biophysical Journal</i> , 2018, 114, 523a.	0.2	0