

# Saptarshi Mukherjee

## List of Publications by Year in descending order

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87  
papers

2,804  
citations

147801

31  
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197818

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87  
docs citations

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times ranked

2919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescent Copper Nanoclusters as a Specific Cell-Imaging Probe and a Selective Metal Ion Sensor. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24657-24664.	3.1	149
2	Spectroscopic Probing of the Microenvironment in a Protein-Surfactant Assembly. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15839-15845.	2.6	142
3	Exploring the Mechanism of Fluorescence Quenching in Proteins Induced by Tetracycline. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6312-6320.	2.6	136
4	Reversibility in protein folding: effect of $\beta$ -cyclodextrin on bovine serum albumin unfolded by sodium dodecyl sulphate. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9375.	2.8	93
5	Binding Interaction of a Prospective Chemotherapeutic Antibacterial Drug with $\beta$ -Lactoglobulin: Results and Challenges. <i>Langmuir</i> , 2014, 30, 5921-5929.	3.5	90
6	Hydrophobicity Is the Governing Factor in the Interaction of Human Serum Albumin with Bile Salts. <i>Langmuir</i> , 2015, 31, 1095-1104.	3.5	80
7	Solvation dynamics of 4-aminophthalimide in dioxane-water mixture. <i>Chemical Physics Letters</i> , 2004, 384, 128-133.	2.6	76
8	Photostable Copper Nanoclusters: Compatible Förster Resonance Energy-Transfer Assays and a Nanothermometer. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1293-1298.	4.6	75
9	Interplay of Multiple Interaction Forces: Binding of Norfloxacin to Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13093-13102.	2.6	74
10	Luminescent Silver Nanoclusters Acting as a Label-Free Photoswitch in Metal Ion Sensing. <i>Analytical Chemistry</i> , 2014, 86, 3188-3194.	6.5	72
11	Toggling Between Blue- and Red-Emitting Fluorescent Silver Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3605-3609.	4.6	71
12	Binding, unfolding and refolding dynamics of serum albumins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5394-5404.	2.4	69
13	Deciphering the role of pH in the binding of Ciprofloxacin Hydrochloride to Bovine Serum Albumin. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4250.	2.8	67
14	Fluorescent Metal Nano-Clusters as Next Generation Fluorescent Probes for Cell Imaging and Drug Delivery. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 447-454.	3.2	63
15	Protein-protected metal nanoclusters as diagnostic and therapeutic platforms for biomedical applications. <i>Materials Today</i> , 2023, 66, 159-193.	14.2	59
16	Protein unfolding and subsequent refolding: a spectroscopic investigation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20418.	2.8	57
17	Solvation Dynamics in the Water Pool of an Aerosol-OT Microemulsion. Effect of Sodium Salicylate and Sodium Cholate. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10815-10822.	2.6	56
18	Inverse Temperature Dependence in Static Quenching versus Calorimetric Exploration: Binding Interaction of Chloramphenicol to $\beta$ -Lactoglobulin. <i>Langmuir</i> , 2015, 31, 8074-8080.	3.5	52

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19	Spectroscopic determination of Critical Micelle Concentration in aqueous and non-aqueous media using a non-invasive method. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 400-406.	9.4	51
20	Solvation Dynamics in Bile Salt Aggregates. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7745-7750.	2.6	49
21	Temperature dependence of solvation dynamics in a micelle. 4-Aminophthalimide in Triton X-100. <i>Chemical Physics Letters</i> , 2004, 385, 357-361.	2.6	49
22	Solvation dynamics in a protein-surfactant complex. <i>Chemical Physics Letters</i> , 2003, 377, 229-235.	2.6	46
23	Solvation Dynamics in the Molten Globule State of a Protein. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14563-14568.	2.6	45
24	Probing Single-Molecule Enzyme Active-Site Conformational State Intermittent Coherence. <i>Journal of the American Chemical Society</i> , 2011, 133, 14389-14395.	13.7	45
25	Temperature Induced Morphological Transitions from Native to Unfolded Aggregated States of Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7267-7276.	2.6	45
26	Interaction of Bile Salts with $\beta$ -Cyclodextrins Reveals Nonclassical Hydrophobic Effect and Enthalpy-Entropy Compensation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3963-3968.	2.6	42
27	Direct insight into the nonclassical hydrophobic effect in bile salt: $\beta$ -cyclodextrin interaction: role of hydrophobicity in governing the prototropism of a biological photosensitizer. <i>RSC Advances</i> , 2016, 6, 9984-9993.	3.6	40
28	Enhanced Binding of Phenosafranin to Triblock Copolymer F127 Induced by Sodium Dodecyl Sulfate: A Mixed Micellar System as an Efficient Drug Delivery Vehicle. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2968-2976.	2.6	39
29	Structure, Activity, and Dynamics of Human Serum Albumin in a Crowded Pluronic F127 Hydrogel. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3397-3408.	2.6	39
30	Microheterogeneity and Microviscosity of F127 Micelle: The Counter Effects of Urea and Temperature. <i>Langmuir</i> , 2014, 30, 1012-1021.	3.5	36
31	Solvation dynamics in DMPC vesicle in the presence of a protein. <i>Chemical Physics Letters</i> , 2003, 382, 426-433.	2.6	31
32	Prototropic Transformation and Rotational Relaxation Dynamics of a Biological Photosensitizer Norharmane inside Nonionic Micellar Aggregates. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11209-11219.	2.6	28
33	Preferential Binding of Thioflavin T to AT-Rich DNA: White Light Emission through Intramolecular Förster Resonance Energy Transfer. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2436-2442.	4.6	27
34	Micelles of Benzethonium Chloride undergoes spherical to cylindrical shape transformation: An intrinsic fluorescence and calorimetric approach. <i>Chemical Physics Letters</i> , 2014, 593, 115-121.	2.6	26
35	Contrasting Effects of Salt and Temperature on Niosome-Bound Norharmane: Direct Evidence for Positive Heat Capacity Change in the Niosome: $\beta$ -Cyclodextrin Interaction. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4091-4101.	2.6	26
36	Excited State Proton Transfer of 1-Naphthol in a Hydroxypropylcellulose/Sodium Dodecyl Sulfate System. <i>Langmuir</i> , 2002, 18, 7867-7871.	3.5	25

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37	White Light Generation through $\text{Ascorbic Acid-Templated Thermo-responsive Copper Nanoclusters}$ . ACS Sustainable Chemistry and Engineering, 2022, 10, 1379-1389.	6.7	25
38	Solvation dynamics of TNS in polymer (PEG)-surfactant (SDS) aggregate. Chemical Physics Letters, 2002, 359, 15-21.	2.6	24
39	Solvation Dynamics of DCM in a DPPC Vesicle Entrapped in a Sodium Silicate Derived Sol-Gel Matrix. Journal of Physical Chemistry B, 2005, 109, 3319-3323.	2.6	22
40	Exploring the Self-Assembly of a Short Aromatic $\alpha$ -Peptide. Langmuir, 2013, 29, 2713-2721.	3.5	22
41	Discriminating Single Base Pair Mismatches in DNA Using Glutathione-Templated Copper Nanoclusters. Journal of Physical Chemistry C, 2019, 123, 29047-29056.	3.1	22
42	Protein-templated gold nanoclusters as specific bio-imaging probes for the detection of Hg(II) ions in vivo and in vitro systems: discriminating between MDA-MB-231 and MCF10A cells. Analyst, The, 2021, 146, 1455-1463.	3.5	22
43	Quenching interaction of BSA with DTAB is dynamic in nature: A spectroscopic insight. Chemical Physics Letters, 2015, 635, 50-55.	2.6	21
44	Structural Aspects of a Protein-Surfactant Assembly: Native and Reduced States of Human Serum Albumin. Protein Journal, 2015, 34, 147-157.	1.6	21
45	Modulated photophysics and rotational-relaxation dynamics of coumarin 153 in nonionic micelles: the role of headgroup size and tail length of the surfactants. RSC Advances, 2015, 5, 9381-9388.	3.6	21
46	Interaction of an anti-cancer photosensitizer with a genomic DNA: From base pair specificity and thermodynamic landscape to tuning the rate of detergent-sequestered dissociation. Journal of Colloid and Interface Science, 2016, 470, 211-220.	9.4	21
47	Solvation dynamics in a protein-surfactant aggregate. TNS in HSA-SDS. Chemical Physics Letters, 2003, 379, 471-478.	2.6	20
48	Triblock-Copolymer-Assisted Mixed-Micelle Formation Results in the Refolding of Unfolded Protein. Langmuir, 2018, 34, 896-903.	3.5	20
49	Investigating the micellization of the triton-X surfactants: A non-invasive fluorometric and calorimetric approach. Chemical Physics Letters, 2016, 646, 18-24.	2.6	19
50	On the role of hydrophobic interactions between chloramphenicol and bovine pancreatic trypsin: The effect of a strong electrolyte. Chemical Physics Letters, 2020, 742, 137137.	2.6	18
51	Kinetic Aspects of Enzyme-Mediated Evolution of Highly Luminescent Silver Nanoclusters. Journal of Physical Chemistry C, 2015, 119, 10776-10784.	3.1	17
52	Association and sequestered dissociation of an anticancer drug from liposome membrane: Role of hydrophobic hydration. Colloids and Surfaces B: Biointerfaces, 2018, 170, 36-44.	5.0	16
53	Effects of protecting groups on luminescent metal nanoclusters: spectroscopic signatures and applications. Chemical Communications, 2021, 58, 29-47.	4.1	16
54	Contrasting effects of pH on the modulation of the structural integrity of hemoglobin induced by sodium deoxycholate. Physical Chemistry Chemical Physics, 2016, 18, 30867-30876.	2.8	15

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55	Exploring the Noncovalent Interactions of the Dinuclear Cu(II) Schiff Base Complex with Bovine Serum Albumin and Cell Viability against the SiHa Cancer Cell Line. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11364-11373.	2.6	15
56	Time Evolution of Local pH Around a Photoacid in Water and a Polymer Hydrogel: Time Resolved Fluorescence Spectroscopy of Pyranine. <i>ChemPhysChem</i> , 2019, 20, 3221-3227.	2.1	14
57	Binding of norharmane with RNA reveals two thermodynamically different binding modes with opposing heat capacity changes. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 587-596.	9.4	14
58	Probing Viscosity of Co-Polymer Hydrogel and HeLa Cell Using Fluorescent Gold Nanoclusters: Fluorescence Correlation Spectroscopy and Anisotropy Decay. <i>ChemPhysChem</i> , 2020, 21, 406-414.	2.1	14
59	Thermal Reversibility and Structural Stability in Lysozyme Induced by Epirubicin Hydrochloride. <i>Langmuir</i> , 2021, 37, 3456-3466.	3.5	14
60	Protein self-assembly induces promiscuous nucleophilic biocatalysis in Morita-Baylis-Hillman (MBH) reaction. <i>RSC Advances</i> , 2016, 6, 208-211.	3.6	13
61	Enhanced Luminescent Properties of Photo-Stable Copper Nanoclusters through Formation of Protein-Like Assemblies. <i>ChemPhysChem</i> , 2018, 19, 2218-2223.	2.1	12
62	Spectroscopic probing of the refolding of an unfolded protein through the formation of mixed-micelles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 52-60.	3.9	11
63	Role of Small Moiety of a Large Ligand: Tyrosine Templated Copper Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3266-3273.	4.6	11
64	Assembly-Induced Emission in Mercaptosuccinic Acid-Templated Silver Nanoclusters: Metal Ion Selectivity and pH Sensitivity. <i>ACS Applied Nano Materials</i> , 2022, 5, 7571-7579.	5.0	11
65	Investigating the evolution of drug mediated silver nanoparticles. <i>Analyst</i> , 2013, 138, 4270.	3.5	10
66	An intrinsically disordered protein in F127 hydrogel: Fluorescence correlation spectroscopy and structural diversity of beta casein. <i>Chemical Physics Letters</i> , 2021, 762, 138105.	2.6	10
67	Structural Compactness in Hen Egg White Lysozyme Induced by Bisphenol-S: Spectroscopic and Molecular Dynamics Simulation Approach. <i>ChemPhysChem</i> , 2021, 22, 1745-1753.	2.1	10
68	Tyrosine-Templated Dual-Component Silver Nanomaterials Exhibit Photoluminescence and Versatile Antimicrobial Properties through ROS Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36938-36947.	8.0	10
69	Differentiating a Least-Stable Single Nucleotide Mismatch in DNA Via Metal Ion-Mediated Base Pairing and Using Thioflavin T as an Extrinsic Fluorophore. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2547-2554.	4.6	9
70	Micelles entrapped Cresyl Violet can selectively detect copper and mercury ions in solution: A fluorescence Correlation Spectroscopy investigation. <i>Chemical Physics Letters</i> , 2017, 682, 147-153.	2.6	8
71	Contrasting Thermodynamics Governs the Interaction of 3-Hydroxyflavone with the N-Isoform and B-Isoform of Human Serum Albumin. <i>Langmuir</i> , 2020, 36, 8570-8579.	3.5	8
72	Organophotocatalytic Synthesis of 6-Disubstituted Phenanthridines from Diazo-Keto Compounds and Vinyl Azides. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 3328-3333.	2.7	8

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73	Preferential Binding of Epirubicin Hydrochloride with Single Nucleotide Mismatched DNA and Subsequent Sequestration by a Mixed Micelle. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11660-11672.	2.6	8
74	Specific ion effects on F127 hydrogel: FCS, anisotropy and solvation dynamics. <i>Chemical Physics Letters</i> , 2019, 735, 136754.	2.6	7
75	Copper(II) complexes with NNN and NNO Schiff base ligands as efficient photodegradation agents for methylene blue, preferential BSA binder and biomaterial transplants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 422, 113565.	3.9	7
76	A Bioinspired Light Harvesting System in Aqueous Medium: Highly Efficient Energy Transfer through the Self Assembly of $\beta$ -Sheet Nanostructures of Poly-Lysine. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6701-6710.	4.6	7
77	Size-controlled atomically precise copper nanoclusters: Synthetic protocols, spectroscopic properties and applications. <i>Physical Sciences Reviews</i> , 2018, 3, .	0.8	6
78	Rh(III)-Catalyzed C(7)-H Alkylation of Quinolines in the Synthesis of Angular $\beta$ -Extended Pyrroloquinolines for Single-Component White-Light Emission. <i>Organic Letters</i> , 2022, 24, 2186-2191.	4.6	6
79	Solvation dynamics in a worm-like CTAB micelle. <i>Research on Chemical Intermediates</i> , 2005, 31, 135-144.	2.7	5
80	Revealing Linear Aggregates of Light Harvesting Antenna Proteins in Photosynthetic Membranes. <i>Langmuir</i> , 2010, 26, 307-313.	3.5	5
81	Weak interactive forces govern the interaction between a non-ionic surfactant with human serum albumin. <i>Chemical Physics Letters</i> , 2015, 634, 77-82.	2.6	5
82	Exploring the Nucleobase-Specific Hydrophobic Interaction of Cryptolepine Hydrate with RNA and Its Subsequent Sequestration. <i>Langmuir</i> , 2021, 37, 11176-11187.	3.5	5
83	Study of partially folded states of cytochrome C by solvation dynamics. <i>Journal of Molecular Liquids</i> , 2006, 124, 128-135.	4.9	3
84	Fluorescent Biotin Analogues for Microstructure Patterning and Selective Protein Immobilization. <i>Langmuir</i> , 2015, 31, 12573-12578.	3.5	2
85	A critical approach toward resonance-assistance in the intramolecular hydrogen bond interaction of 3,5-diiodosalicylic acid: a spectroscopic and computational investigation. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1147-1162.	2.9	2
86	DNA-Templated Modulation in the Photophysical Properties of a Fluorescent Molecular Rotor Auramine O by Varying the DNA Composition. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2658-2668.	2.6	1
87	Macrocyclic Cavitand $\beta$ -Cyclodextrin Inhibits the Alcohol-Induced Trypsin Aggregation. <i>ChemPhysChem</i> , 2022, 23, .	2.1	1