

# Anindya Datta

## List of Publications by Year in descending order

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105  
papers

2,668  
citations

218677

26  
h-index

214800

47  
g-index

105  
all docs

105  
docs citations

105  
times ranked

2132  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvation Dynamics of Coumarin 480 in Reverse Micelles. Slow Relaxation of Water Molecules. The Journal of Physical Chemistry, 1996, 100, 10523-10527.	2.9	280
2	Solvation Dynamics of Coumarin 480 in Micelles. The Journal of Physical Chemistry, 1996, 100, 15483-15486.	2.9	252
3	Intramolecular Charge Transfer Processes in Confined Systems. Nile Red in Reverse Micelles. Journal of Physical Chemistry B, 1997, 101, 10221-10225.	2.6	209
4	Steady State and Time-resolved Fluorescence Investigation of the Specific Binding of Two Chlorin Derivatives with Human Serum Albumin. Journal of Physical Chemistry B, 2007, 111, 10557-10562.	2.6	89
5	Solvation Dynamics of 4-Aminophthalimide in Water-in-Oil Microemulsion of Triton X-100 in Mixed Solvents. Journal of Physical Chemistry B, 1998, 102, 9070-9073.	2.6	78
6	Selective fluorescence sensing of polynitroaromatic explosives using triaminophenylbenzene scaffolds. Physical Chemistry Chemical Physics, 2014, 16, 10651-10658.	2.8	64
7	Excited-State Intramolecular Proton Transfer of 2-(2'-Hydroxyphenyl)benzimidazole in Micelles. The Journal of Physical Chemistry, 1995, 99, 17711-17714.	2.9	63
8	Excited-State Proton Transfer of 2-(2-Pyridyl)benzimidazole in Microemulsions: Selective Enhancement and Slow Dynamics in Aerosol OT Reverse Micelles with an Aqueous Core. Journal of Physical Chemistry B, 2005, 109, 18895-18901.	2.6	51
9	Photoluminescent Silica Nanotubes and Nanodisks Prepared by the Reverse Micelle Sol-Gel Method. Langmuir, 2010, 26, 1172-1176.	3.5	51
10	The Effect of pH and Surfactant on the Aggregation Behavior of Chlorin p6: A Fluorescence Spectroscopic Study. Photochemistry and Photobiology, 2002, 75, 488.	2.5	49
11	ESPT of 2-(2-Pyridyl)benzimidazole at the Micelle-Water Interface: Selective Enhancement and Slow Dynamics with Sodium Dodecyl Sulfate. Journal of Physical Chemistry B, 2005, 109, 12567-12573.	2.6	45
12	The role of the ring nitrogen and the amino group in the solvent dependence of the excited-state dynamics of 3-aminoquinoline. Journal of Chemical Physics, 2006, 125, 054513.	3.0	45
13	The Prospect of Salophen in Fluorescence Lifetime Sensing of Al <sup>3+</sup> . Journal of Physical Chemistry B, 2016, 120, 10319-10326.	2.6	45
14	Enhanced Fluorescence of Epicocconone in Surfactant Assemblies as a Consequence of Depth-Dependent Microviscosity. Journal of Physical Chemistry B, 2007, 111, 1648-1656.	2.6	38
15	Solvation dynamics in a solid host. Coumarin 480 in zeolite 13X. Chemical Physics Letters, 1996, 249, 323-328.	2.6	37
16	Interaction of Triton X-100 with cyclodextrins. A fluorescence study. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3471-3475.	1.7	35
17	Modulation of Ground- and Excited-State Dynamics of [2,2-Bipyridyl]-3,3'-diol by Micelles. Journal of Physical Chemistry B, 2011, 115, 1032-1037.	2.6	35
18	The effect of ionic strength and surfactant on the dynamic quenching of 6-methoxyquinoline by halides. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 170, 21-26.	3.9	33

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19	The Interplay of Hydrophobic and Electrostatic Effects in the Surfactant-Induced Aggregation/Deaggregation of Chlorin p6. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24225-24230.	2.6	33
20	Femtosecond Hydration Map of Intrinsically Disordered $\alpha$ -Synuclein. <i>Biophysical Journal</i> , 2018, 114, 2540-2551.	0.5	32
21	Photophysical properties of boron-dipyrin appended porphyrins with heteroatom cores. <i>Chemical Physics Letters</i> , 2004, 395, 87-91.	2.6	31
22	Photoinduced electron transfer from chlorin p6 to methyl viologen in aqueous micelles. <i>Chemical Physics Letters</i> , 2005, 407, 119-123.	2.6	31
23	Recent Advances in Small Molecule-Based Intracellular pH Probes. <i>ChemBioChem</i> , 2022, 23, .	2.6	30
24	Fluorescence monitoring of pH dependent complexation of chlorin p6 with surfactants. <i>Chemical Physics Letters</i> , 2004, 386, 158-161.	2.6	29
25	Regulation of the Extent and Dynamics of Excited-State Proton Transfer in 2-(2-Pyridyl)benzimidazole in Nafion Membranes by Cation Exchange. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2611-2617.	2.6	29
26	Impact of Molecular Arrangement and Torsional Motion on the Fluorescence of Salophen and Its Metal Complexes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2410-2417.	3.1	29
27	Interaction of Lucifer yellow with cetyltrimethyl ammonium bromide micelles and the consequent suppression of its non-radiative processes. <i>Chemical Physics Letters</i> , 2004, 400, 128-132.	2.6	27
28	Effect of Increased Hydrophobicity on the Binding of Two Model Amphiphilic Chlorin Drugs for Photodynamic Therapy with Blood Plasma and Its Components. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21238-21244.	2.6	26
29	Fluorescence enhancement of epicoconone in its complexes with cyclodextrins. <i>Chemical Physics Letters</i> , 2008, 455, 42-46.	2.6	26
30	Early events associated with the excited state proton transfer in 2-(2-pyridyl)benzimidazole. <i>Journal of Chemical Physics</i> , 2009, 131, 034504.	3.0	26
31	Water Rearrangements upon Disorder-to-Order Amyloid Transition. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4105-4110.	4.6	26
32	Anomalous Excited-State Dynamics of Lucifer Yellow CH in Solvents of High Polarity: Evidence for an Intramolecular Proton Transfer. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5585-5591.	2.5	24
33	Prototropism of [2,2-Bipyridyl]-3,3-diol in Albumin-SDS Aggregates. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11466-11472.	2.6	24
34	Intramolecular Charge Transfer near a Hydrophobic Surface. 2,6-p-Toluidinonaphthalene Sulfonate in a Reverse Micelle. <i>Analytical Sciences</i> , 1998, 14, 199-202.	1.6	23
35	Modulation of Protonation/Deprotonation Processes of 2-(4-Pyridyl)benzimidazole in Its Inclusion Complexes with Cyclodextrins. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8603-8610.	2.6	22
36	Synthesis and Photophysical Properties of $C_3$ -Symmetric Star-Shaped Molecules Containing Heterocycles Such as Furan, Thiophene, and Oxazole. <i>ACS Omega</i> , 2017, 2, 6291-6297.	3.5	22

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37	Ultrafast Dynamics of Epicocconone, a Second Generation Fluorescent Protein Stain. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10154-10158.	2.5	20
38	Enhanced Trapping Efficiency in Acid-Treated Silica Nanostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22804-22809.	3.1	20
39	Interaction of Surface Trap States and Defect Pair of Photoluminescent Silica Nanostructures with $H_2O$ and Solvents. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1576-1581.	3.1	20
40	2-(2-Pyridyl)benzimidazole as a Fluorescent Probe of Hydration of Nafion Membranes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1586-1592.	2.6	20
41	Interplay of Multiexciton Relaxation and Carrier Trapping in Photoluminescent CdS Quantum Dots Prepared in Aqueous Medium. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28313-28322.	3.1	20
42	2-(2-Pyridyl)benzimidazole as a fluorescent probe for monitoring protein-surfactant interaction. <i>Chemical Physics Letters</i> , 2007, 438, 218-223.	2.6	19
43	Acid-base behavior of 3-aminoquinoline in its ground and excited states. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 207, 254-259.	3.9	18
44	Synthesis of star-shaped pyrrole-based C <sub>3</sub> -symmetric molecules via ring-closing metathesis, Buchwald-Hartwig cross-coupling and Clauson-Kaas pyrrole synthesis as key steps. <i>Tetrahedron Letters</i> , 2018, 59, 1023-1027.	1.4	18
45	Mechanistic Insights into Selective Sensing of $Pb^{2+}$ in Water by Photoluminescent CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15396-15404.	3.1	17
46	Competitive binding of Chlorin p6 and Dansyl-L-Proline to Sudlow's site II of human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 925-931.	3.9	16
47	Design and Expedient Synthesis of Quinoline-Pyrene-Based Ratiometric Fluorescent Probes for Targeting Lysosomal pH. <i>ChemBioChem</i> , 2020, 21, 1492-1498.	2.6	16
48	Lamellar Micelles as Templates for the Preparation of Silica Nanodisks. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19023-19027.	3.1	15
49	The Role of Different Structural Motifs in the Ultrafast Dynamics of Second Generation Protein Stains. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14951-14959.	2.6	15
50	Neat Protein-Polymer Surfactant Bioconjugates as Universal Solvents. <i>Biomacromolecules</i> , 2018, 19, 943-950.	5.4	15
51	Cyanosilylation of Aromatic Aldehydes by Cationic Ruthenium(II) Complexes of Benzimidazole-Derived O-Functionalized N-Heterocyclic Carbenes at Ambient Temperature under Solvent-Free Conditions. <i>ACS Omega</i> , 2018, 3, 1922-1938.	3.5	15
52	Enhancement of the band edge emission of CdSe nano-tetrapods by suppression of surface trapping. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9512-9519.	2.8	15
53	Chlorin p6a as a fluorescent probe for the investigation of surfactant-cyclodextrin interactions. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 741-747.	2.9	14
54	Synthesis, aggregation and photoinduced electron transfer processes of cationic water-soluble 21-thia and 21-oxaporphyrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 193, 166-177.	3.9	14

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55	Unusual Binding of a Potential Biomarker with Human Serum Albumin. <i>Chemistry - an Asian Journal</i> , 2013, 8, 728-735.	3.3	14
56	Dynamics of Preferential Solvation of 5-Aminoquinoline in Hexane-Alcohol Solvent Mixtures. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10267-10274.	2.6	14
57	White Light Generation from a Self-Assembled Fluorogen-Surfactant Composite Light Harvesting Platform. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7484-7493.	2.6	14
58	Unique Effects of Aerosol OT Lamellar Structures on the Dynamics of Guest Molecules. <i>Langmuir</i> , 2013, 29, 7709-7714.	3.5	13
59	FRET on Surface of Silica Nanoparticle: Effect of Chromophore Concentration on Dynamics and Efficiency. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20125-20131.	3.1	13
60	Enhanced fluorescence with nanosecond dynamics in the solid state of metal ion complexes of alkoxy salophens. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30120-30127.	2.8	13
61	Implications of Area Normalization of Multi-Component Spectra. <i>Applied Spectroscopy</i> , 2008, 62, 341-344.	2.2	12
62	pH Effect on the binding of chlorin derivatives with Cremophor EL, a potential drug delivery vehicle. <i>Chemical Physics Letters</i> , 2005, 413, 31-35.	2.6	11
63	Difference in the effects of surfactants and albumin on the extent of deaggregation of purpurin 18, a model of hydrophobic photosensitizer. <i>Biophysical Chemistry</i> , 2006, 121, 224-233.	2.8	11
64	Fluorescence Investigation of the Binding of Model PDT Drugs to Nonionic and Zwitterionic Surfactants. <i>Photochemistry and Photobiology</i> , 2009, 85, 725-732.	2.5	11
65	Reversible Tuning of Chemical Structure of Nafion Cast Film by Heat and Acid Treatment. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2395-2403.	2.6	11
66	Solvation and hydrogen bonding aided efficient non-radiative deactivation of polar excited state of 5-aminoquinoline. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22320-22330.	2.8	11
67	Evidence for covalent binding of epicocconone with proteins from synchronous fluorescence spectra and fluorescence lifetimes. <i>Journal of Chemical Sciences</i> , 2007, 119, 99-104.	1.5	10
68	Temperature dependent excited state dynamics in dual emissive CdSe nano-tetrapods. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4200-4207.	2.8	10
69	Morphological Evolution of Strongly Fluorescent Water Soluble AIEEgen-Triblock Copolymer Mixed Aggregates with Shape-Dependent Cell Permeability. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10282-10291.	2.6	10
70	Accounting for Secondary Inner Filter Effect in Fluorescence Spectra from Solid Samples. <i>Current Science</i> , 2018, 114, 2353.	0.8	10
71	Ground and excited state prototropism of 2-(4-pyridyl)benzimidazole in micelles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 250, 99-102.	3.9	9
72	Nanoconfinement of Water Layers in Lamellar Structures Prepared in the Presence and Absence of Organic Solvent. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2106-2112.	2.6	9

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73	Engineering the Excited-State Dynamics of 3-Aminoquinoline by Chemical Modification and Temperature Variation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12920-12927.	2.6	9
74	Synthesis and Photophysical Properties of $C_{3v}$ -Symmetric Star-Shaped Molecules Containing Heterocycles: A New Tactics for Multiple Fischer Indolization. <i>ChemistrySelect</i> , 2018, 3, 136-141.	1.5	9
75	From fluorogens to fluorophores by elucidation and suppression of ultrafast excited state processes of a Schiff base. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19494-19502.	2.8	9
76	Deprotonation-induced enhancement in fluorescence of 2-((2-hydroxybenzylidene)amino)phenol, a Schiff base. <i>Chemical Physics Impact</i> , 2021, 3, 100057.	3.5	9
77	Modulation of fluorescence properties of MMeAQ in micelles and cyclodextrins. <i>Chemical Physics Letters</i> , 2010, 495, 208-211.	2.6	8
78	Shape, size and composition dependence of efficiency and dynamics of Förster resonance energy transfer in dye-silica nanoconjugates. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 024003.	2.3	8
79	Interplay of Hydrophobic and Electrostatic Interactions in Modulation of Protonation/Deprotonation Equilibria of Two Positional Isomers in Their Complexes with Cucurbiturils. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5379-5388.	3.1	8
80	Intense photoluminescence from Cu-doped CdSe nanotetrapods triggered by ultrafast hole capture. <i>Nanoscale</i> , 2021, 13, 14228-14235.	5.6	8
81	Ultraslow Biological Water-Like Dynamics in Waterless Liquid Protein. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4389-4393.	4.6	8
82	Silica nanodisks as platforms for fluorescence lifetime-based sensing of pH. <i>Journal of Chemical Sciences</i> , 2011, 123, 901-907.	1.5	7
83	Excited State Dynamics of Brightly Fluorescent Second Generation Epicocconone Analogues. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6295-6303.	2.6	7
84	Anisotropic dynamics of guest molecules in aerosol OT lamellar structures. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19724.	2.8	6
85	Modulation of FRET efficiency by donor-acceptor ratio in co-condensed fluorophore-silica nanoconjugates. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100067.	2.8	6
86	Photoluminescent Silica Nanostructures and Nanohybrids. <i>ChemPhysChem</i> , 2022, 23, .	2.1	6
87	Modification of ground and excited states of 3-phenylureidoquinoline by encapsulation in surfactant assemblies. <i>Chemical Physics Letters</i> , 2006, 426, 100-104.	2.6	5
88	Influence of external electrolyte on ion exchange in Nafion membranes. <i>RSC Advances</i> , 2012, 2, 8050.	3.6	5
89	Microheterogeneity in Native and Cation-Exchanged Nafion Membranes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9992-9998.	2.6	5
90	Excited-State Proton Transfer and Conformational Relaxation of 2-(4-(2-pyridyl)benzimidazole in Nafion Films. <i>ChemPhysChem</i> , 2016, 17, 3004-3009.	2.1	5

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91	Thickness Dependence of Acidity and Microstructure in Nafion Films. <i>ChemistrySelect</i> , 2016, 1, 2277-2283.	1.5	5
92	Release of Warfarin from Human Serum Albumin by Water-soluble CdSe Nanotetrapods. <i>ChemPhysChem</i> , 2020, 21, 2709-2714.	2.1	5
93	Intense phototautomer emission of 2-(3-pyridyl)benzimidazole encapsulated in Nafion membrane. <i>RSC Advances</i> , 2013, 3, 1145-1150.	3.6	4
94	Role of Solvent in Electron-Phonon Relaxation Dynamics in Core-shell Au@SiO <sub>2</sub> Nanoparticles. <i>ChemPhysChem</i> , 2021, 22, 2201-2206.	2.1	4
95	Time evolution of the solvated and conformationally relaxed emissive excited state of the anionic form of salophen, a Schiff base. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100122.	2.8	4
96	The Role of Hydrogen Bonding in the Preferential Solvation of 5-Aminoquinoline in Binary Solvent Mixtures. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12763-12773.	2.6	4
97	A case study on the myth of emission from aliphatic amides. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 047003.	2.3	3
98	Crystal structure and UV spectra of a 1,2-disubstituted benzimidazolium chloride. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 1143-1147.	0.5	3
99	Conformational and Solvation Dynamics of an Amyloidogenic Intrinsically Disordered Domain of a Melanosomal Protein. <i>Journal of Physical Chemistry B</i> , 2022, 126, 443-452.	2.6	3
100	Tribute to Professor Kankan Bhattacharyya. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3461-3463.	2.6	2
101	Photoinduced electron transfer between anionic fluorophores and methyl viologen in homogeneous and microheterogeneous media. <i>Journal of Luminescence</i> , 2012, 132, 2929-2936.	3.1	1
102	Chlorin p 6 as a fluorescent probe for the investigation of surfactant-cyclodextrin interactions. , 2006, 6097, 60.		0
103	Excited-State Dynamics of Fluorogenic Molecules. <i>Springer Proceedings in Physics</i> , 2019, , 23-38.	0.2	0
104	Department of Chemistry, IIT Bombay: In Pursuit of Excellence. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6816-6817.	2.4	0
105	3-aminoquinoline: a turn-on fluorescent probe for preferential solvation in binary solvent mixtures. <i>Methods and Applications in Fluorescence</i> , 2022, 10, 034007.	2.3	0