

Manoj Kumbhakar

List of Publications by Year in descending order

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49
papers

2,165
citations

218381

26
h-index

223531

46
g-index

51
all docs

51
docs citations

51
times ranked

2097
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of Excitation Dependent Fluorescence in Carbon Nanodots. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3695-3702.	2.1	267
2	Photophysical Properties of Coumarin-152 and Coumarin-481 Dyes: An Unusual Behavior in Nonpolar and in Higher Polarity Solvents. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4808-4816.	1.1	226
3	Molecular Origin and Self-Assembly of Fluorescent Carbon Nanodots in Polar Solvents. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1044-1052.	2.1	186
4	Photophysical properties of coumarin-120: Unusual behavior in nonpolar solvents. <i>Journal of Chemical Physics</i> , 2003, 119, 443-452.	1.2	115
5	Solvation dynamics in triton-X-100 and triton-X-165 micelles: Effect of micellar size and hydration. <i>Journal of Chemical Physics</i> , 2004, 121, 6026-6033.	1.2	94
6	Role of Micellar Size and Hydration on Solvation Dynamics: A Temperature Dependent Study in Triton-X-100 and Brij-35 Micelles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19246-19254.	1.2	90
7	Intermolecular electron transfer between coumarin dyes and aromatic amines in Triton-X-100 micellar solutions: Evidence for Marcus inverted region. <i>Journal of Chemical Physics</i> , 2004, 120, 2824-2834.	1.2	82
8	Evidence for the TICT mediated nonradiative deexcitation process for the excited coumarin-1 dye in high polarity protic solvents. <i>Chemical Physics</i> , 2005, 315, 277-285.	0.9	74
9	Photoinduced intermolecular electron transfer from aromatic amines to coumarin dyes in sodium dodecyl sulphate micellar solutions. <i>Journal of Chemical Physics</i> , 2003, 119, 388-399.	1.2	72
10	Photophysical investigations of the solvent polarity effect on the properties of coumarin-6 dye. <i>Chemical Physics Letters</i> , 2005, 407, 114-118.	1.2	55
11	Time-Resolved Fluorescence and Small Angle Neutron Scattering Study in Pluronics Surfactant Supramolecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3818-3826.	1.2	50
12	Microenvironment in the Corona Region of Triblock Copolymer Micelles: A Temperature Dependent Solvation and Rotational Relaxation Dynamics of Coumarin Dyes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25646-25655.	1.2	47
13	Effect of micellar environment on Marcus correlation curves for photoinduced bimolecular electron transfer reactions. <i>Journal of Chemical Physics</i> , 2005, 123, 034705.	1.2	46
14	Nature of the Water Molecules in the Palisade Layer of a Triton X-100 Micelle in the Presence of Added Salts: A Solvation Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14168-14174.	1.2	45
15	Aggregation of Ionic Surfactants to Block Copolymer Assemblies: A Simple Fluorescence Spectral Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14250-14255.	1.2	44
16	Fluorescence Spectroscopic Investigation To Identify the Micelle to Gel Transition of Aqueous Triblock Copolymer Solutions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5117-5127.	1.2	38
17	Effects of Block Size of Pluronic Polymers on the Water Structure in the Corona Region and Its Effect on the Electron Transfer Reactions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6363-6372.	1.2	37
18	A Nanoreactor for Tuning the Chemical Reactivity of a Solute. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11447-11450.	1.2	35

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19	Effect of Electrostatic Interaction on the Location of Molecular Probe in Polymer-Surfactant Supramolecular Assembly: A Solvent Relaxation Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7771-7777.	1.2	35
20	Ultrafast Electron Transfer Dynamics in Micellar Media Using Surfactant as the Intrinsic Electron Acceptor. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10057-10065.	1.2	35
21	Compartmentalization of Reactants in Different Regions of Sodium 1,4-Bis(2-ethylhexyl)sulfosuccinate/Heptane/Water Reverse Micelles and Its Influence on Bimolecular Electron-Transfer Kinetics. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8842-8853.	1.2	34
22	Tuning of Intermolecular Electron Transfer Reaction by Modulating the Microenvironment Inside Copolymer-Surfactant Supramolecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1638-1651.	1.2	33
23	Effect of Lithium Chloride on the Palisade Layer of the Triton-X-100 Micelle: Two Sites for Lithium Ions as Revealed by Solvation and Rotational Dynamics Studies. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18528-18534.	1.2	31
24	Ultrafast Bimolecular Electron Transfer Dynamics in Micellar Media. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6646-6652.	1.2	31
25	Photon Antibunching Reveals Static and Dynamic Quenching Interaction of Tryptophan with Atto-655. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5821-5826.	2.1	29
26	Roles of Diffusion and Activation Barrier on the Appearance of Marcus Inversion Behavior: A Study of a Photoinduced Electron-Transfer Reaction in Aqueous Triblock Copolymer (P123) Micellar Solutions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7550-7560.	1.2	27
27	Influence of Confined Water on the Photophysics of Dissolved Solutes in Reverse Micelles. <i>ChemPhysChem</i> , 2009, 10, 2966-2978.	1.0	27
28	Effect of Ionic Surfactants on the Hydration Behavior of Triblock Copolymer Micelles: A Solvation Dynamics Study of Coumarin 153. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12154-12161.	1.2	26
29	Influence of Electrolytes on the Microenvironment of F127 Triblock Copolymer Micelles: A Solvation and Rotational Dynamics Study of Coumarin Dyes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3935-3942.	1.2	25
30	Observation of the Marcus Inverted Region for Bimolecular Photoinduced Electron-Transfer Reactions in Viscous Media. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10704-10715.	1.2	25
31	Marcus inversion in electron transfer reactions between coumarins and aliphatic amines in TX-100 micellar solution. <i>Chemical Physics Letters</i> , 2005, 410, 94-98.	1.2	24
32	Photoinduced bimolecular electron transfer kinetics in small unilamellar vesicles. <i>Journal of Chemical Physics</i> , 2007, 127, 194901.	1.2	23
33	Effect of sphere to rod transition on the probe microenvironment in sodium dodecyl sulphate micelles: A time resolved fluorescence anisotropy study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 41-48.	2.0	23
34	Photoinduced electron transfer between quinones and amines in micellar media: Tuning the Marcus inversion region. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 270-276.	2.0	21
35	Kinetics and mechanism of bimolecular electron transfer reaction in quinone-amine systems in micellar solution. <i>Journal of Chemical Physics</i> , 2005, 122, 084512.	1.2	19
36	Effect of temperature on the dynamics of electron transfer in heterogeneous medium: Evidence for apparent Marcus inversion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 182, 7-16.	2.0	15

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37	Photon Antibunching in Complex Intermolecular Fluorescence Quenching Kinetics. Journal of Physical Chemistry Letters, 2016, 7, 3137-3141.	2.1	13
38	Addition to Molecular Origin and Self-Assembly of Fluorescent Carbon Nanodots in Polar Solvents. Journal of Physical Chemistry Letters, 2017, 8, 5861-5864.	2.1	13
39	Effect of added electrolytes, NaCl and LiCl, on the palisade layer water structure of Triton X-100 micelle: A fluorescence anisotropy study. Chemical Physics Letters, 2005, 413, 142-146.	1.2	11
40	Single-Molecule Fluorescence Studies Reveal Long-Range Electron-Transfer Dynamics Through Double-Stranded DNA. ChemPhysChem, 2009, 10, 629-633.	1.0	7
41	Temperature Effect on the Fluorescence Anisotropy Decay Dynamics of Coumarin-153 Dye in Triton-X-100 and Brij-35 Micellar Solutions. Photochemistry and Photobiology, 2005, 81, 588-94.	1.3	7
42	Picosecond to Second Fluorescence Correlation Spectroscopy for Studying Solute Exchange and Quenching Dynamics in Micellar Media. Journal of Physical Chemistry Letters, 2021, 12, 7641-7649.	2.1	6
43	Reply to Comment on "Observation of the Marcus Inverted Region for Bimolecular Photoinduced Electron-Transfer Reactions in Viscous Media". Journal of Physical Chemistry B, 2016, 120, 9804-9809.	1.2	5
44	Toward Understanding the Binding Synergy of Trastuzumab and Pertuzumab to Human Epidermal Growth Factor Receptor 2. Molecular Pharmaceutics, 2021, 18, 4553-4563.	2.3	5
45	Investigations of the Solvent Polarity Effect on the Photophysical Properties of Coumarin-7 Dye. Photochemistry and Photobiology, 2005, 81, 270-278.	1.3	4
46	Determining Metal Ion Complexation Kinetics with Fluorescent Ligands by Using Fluorescence Correlation Spectroscopy. ChemPhysChem, 2019, 20, 2093-2102.	1.0	4
47	Binding Constant Determined from the Angstrom-Scale Change in Hydrodynamic Radius of Transferrin upon Binding with Europium Using Dual-Focus Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 1148-1153.	2.1	1
48	Inter-molecular Interaction Kinetics: Tale of Photon Anti-bunching and Bunching in Fluorescence Correlation Spectroscopy (FCS). Methods and Applications in Fluorescence, 0, , .	1.1	1
49	Temperature Effect on the Fluorescence Anisotropy Decay Dynamics of Coumarin-153 Dye in Triton-X-100 and Brij-35 Miscellar Solutions. Photochemistry and Photobiology, 2005, 81, 588-594.	1.3	0