

Debabrata Seth

List of Publications by Year in descending order

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90
papers

2,108
citations

218677

26
h-index

254184

43
g-index

93
all docs

93
docs citations

93
times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Solvation and Rotational Relaxation of Coumarin 153 in Ionic Liquid Confined Nanometer-Sized Microemulsions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5753-5758.	2.6	148
2	Dynamics of solvent relaxation in room temperature ionic liquids. <i>Chemical Physics Letters</i> , 2003, 381, 697-704.	2.6	128
3	Effect of Water, Methanol, and Acetonitrile on Solvent Relaxation and Rotational Relaxation of Coumarin 153 in Neat 1-Hexyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1764-1769.	2.5	118
4	Interaction of Ionic Liquid with Water in Ternary Microemulsions (Triton) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (X-100/Water/1-B Relaxation of Coumarin 153 and Coumarin 151. <i>Langmuir</i> , 2006, 22, 7768-7775.	3.5	108
5	Study of energy transfer from 7-amino coumarin donors to rhodamine 6G acceptor in non-aqueous reverse micelles. <i>Chemical Physics Letters</i> , 2005, 401, 546-552.	2.6	85
6	Photoinduced Electron Transfer in a Protein~Surfactant Complex:~ Probing the Interaction of SDS with BSA. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16607-16617.	2.6	83
7	Dynamics of solvation and rotational relaxation of Coumarin 153 in 1-butyl-3-methylimidazolium hexafluorophosphate [bmim][PF6]~ water mixtures. <i>Chemical Physics Letters</i> , 2004, 397, 469-474.	2.6	67
8	Dynamics of Solvent and Rotational Relaxation of Coumarin-153 in Room-Temperature Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate Confined in Poly(oxyethylene glycol) Ethers Containing Micelles~. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4781-4787.	2.6	66
9	Dynamics of Solvent and Rotational Relaxation of Coumarin 153 in Room-Temperature Ionic Liquid 1-Butyl-3-methylimidazolium Hexafluorophosphate Confined in Brij-35 Micelles:~ A Picosecond Time-Resolved Fluorescence Spectroscopic Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11110-11116.	2.5	62
10	Synthesis, Optical Properties, and Surface Enhanced Raman Scattering of Silver Nanoparticles in Nonaqueous Methanol Reverse Micelles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3901-3907.	3.1	62
11	Interaction of ionic liquid with water with variation of water content in 1-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF6])/TX-100/water ternary microemulsions monitored by solvent and rotational relaxation of coumarin 153 and coumarin 490. <i>Journal of Chemical Physics</i> , 2007, 126, 224512.	3.0	57
12	Dynamics of Solvent and Rotational Relaxation of Coumarin 153 in a Room Temperature Ionic Liquid, 1-Butyl-3-methylimidazolium Octyl Sulfate, Forming Micellar Structure. <i>Langmuir</i> , 2008, 24, 7085-7091.	3.5	57
13	Photoinduced intermolecular electron transfer between Coumarin dyes and electron donating solvents in cetyltrimethylammonium bromide (CTAB) micelles: evidence for Marcus inverted region. <i>Chemical Physics Letters</i> , 2003, 382, 508-517.	2.6	54
14	Dynamics of photoisomerisation and rotational relaxation of 3,3~diethyloxadicarbocyanine iodide in room temperature ionic liquid and binary mixture of ionic liquid and water. <i>Chemical Physics Letters</i> , 2004, 397, 216-221.	2.6	44
15	Photoinduced electron transfer from dimethyl aniline to coumarin dyes in reverse micelles. <i>Chemical Physics Letters</i> , 2005, 405, 18-25.	2.6	43
16	Photophysical Properties of 7~(diethylamino)Coumarin~3~carboxylic Acid in the Nanocage of Cyclodextrins and in Different Solvents and Solvent Mixtures. <i>Photochemistry and Photobiology</i> , 2013, 89, 280-293.	2.5	41
17	Study of Energy Transfer from 7-Amino Coumarin Donors to the Rhodamine 6G Acceptor in Lecithin Vesicles and Sodium Taurocholate~Lecithin Mixed Aggregates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12080-12085.	2.6	40
18	Solvent and Rotational Relaxation of Coumarin 153 in a Protic Ionic Liquid Dimethylethanolammonium Formate. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2629-2636.	2.6	39

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19	Interaction of the Nonsteroidal Anti-inflammatory Drug Indomethacin with Micelles and Its Release. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3776-3785.	2.6	36
20	Effect of alkyl chain length and size of the headgroups of the surfactant on solvent and rotational relaxation of Coumarin 480 in micelles and mixed micelles. <i>Journal of Chemical Physics</i> , 2005, 122, 184516.	3.0	35
21	Dynamics of Solvent and Rotational Relaxation of Glycerol in the Nanocavity of Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5359-5366.	2.6	32
22	Photoinduced electron transfer (PET) from N,N-dimethylaniline to 7-amino Coumarin dyes in a room temperature ionic liquid (RTIL): Slowing down of electron transfer rate compared to conventional solvent. <i>Chemical Physics Letters</i> , 2009, 477, 102-108.	2.6	31
23	Photophysical Studies of a Hemicyanine Dye (LDS-698) in Dioxane-Water Mixture, in Different Alcohols, and in a Room Temperature Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6826-6833.	2.6	31
24	Photophysics of a Coumarin in Different Solvents: Use of Different Solvatochromic Models. <i>Photochemistry and Photobiology</i> , 2014, 90, 734-746.	2.5	31
25	Thermal conductivity of deep eutectic solvents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2633-2640.	3.6	30
26	The photophysics of 7-(N,N-diethylamino)coumarin-3-carboxylic acid in water/AOT/isooctane reverse micelles: an excitation wavelength dependent study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1894-1906.	2.8	27
27	Photoinduced electron transfer reaction in polymer-surfactant aggregates: Photoinduced electron transfer between N,N-dimethylaniline and 7-amino coumarin dyes. <i>Journal of Chemical Physics</i> , 2008, 128, 204510.	3.0	25
28	To probe the structure of methanol and Aerosol OT (AOT) in AOT reverse micelles by FTIR measurements. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8913.	2.8	24
29	Supramolecular Interaction between a Hydrophilic Coumarin Dye and Macrocyclic Hosts: Spectroscopic and Calorimetric Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9768-9781.	2.6	24
30	Aqueous ionic liquid solutions for boiling heat transfer enhancement in the absence of buoyancy induced bubble departure. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 354-363.	4.8	24
31	Photoinduced electron transfer from N,N-dimethylaniline to 7-amino Coumarins in protein-surfactant complex: Slowing down of electron transfer dynamics compared to micelles. <i>Journal of Chemical Physics</i> , 2006, 124, 074512.	3.0	22
32	Photophysics, rotational dynamics and fluorescence lifetime imaging study of coumarin dyes in deep eutectic solvent. <i>Journal of Molecular Liquids</i> , 2019, 280, 399-409.	4.9	22
33	Host-guest interaction of 3-hydroxyflavone and 7-hydroxyflavone with cucurbit [7]uril: A spectroscopic and calorimetric approach. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 168, 132-141.	3.8	19
34	Solvent relaxation of a room-temperature ionic liquid [bmim][PF6] confined in a ternary microemulsion. <i>Journal of Chemical Sciences</i> , 2007, 119, 105-111.	1.5	18
35	Effect of nanocavities on the torsional dynamics of thioflavin T in various non-aqueous reverse micelles. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 369-383.	2.9	18
36	Surface-active ionic liquids as potential additive for pool boiling based energy systems. <i>Journal of Molecular Liquids</i> , 2019, 287, 110953.	4.9	18

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37	Photoinduced intermolecular electron transfer from dimethyl aniline to 7-amino Coumarin dyes in the surface of β -cyclodextrin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 801-808.	3.9	17
38	Photo-induced intermolecular electron transfer from electron donating solvents to Coumarin dyes in bile salt aggregates: Role of diffusion in electron transfer reaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 594-602.	3.9	16
39	Photophysics of lumichrome in anionic and cationic micellar media. <i>RSC Advances</i> , 2015, 5, 3814-3824.	3.6	13
40	Graphene Oxide as an Enhancer of Fluorescence. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1296-1300.	3.3	13
41	Modulation of the Protein-Ligand Interaction in the Presence of Graphene Oxide: a Detailed Spectroscopic Study. <i>Langmuir</i> , 2021, 37, 5034-5048.	3.5	13
42	Revisiting the salt-triggered self-assembly in very hydrophilic triblock copolymer Pluronic® F88 using multitechnique approach. <i>Colloid and Polymer Science</i> , 2021, 299, 1113-1126.	2.1	13
43	Direct Observation of Solvation Dynamics in an Aqueous Reverse Micellar System Containing Silver Nanoparticles in the Reverse Micellar Core. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5677-5680.	2.6	12
44	The photophysics of 7-(diethylamino)coumarin-3-carboxylic acid N-succinimidyl ester in reverse micelle: excitation wavelength dependent dynamics. <i>RSC Advances</i> , 2014, 4, 3461-3471.	3.6	11
45	Supramolecular interaction of a cancer cell photosensitizer in the nanocavity of cucurbit[7]uril: A spectroscopic and calorimetric study. <i>International Journal of Pharmaceutics</i> , 2015, 492, 103-108.	5.2	11
46	Surfactants induced release of a red emitting dye from the nanocavity of a molecular container: A spectroscopic and calorimetric study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 59-70.	3.8	11
47	Photophysics of 7-(diethylamino)coumarin-3-carboxylic acid in cationic micelles: effect of chain length and head group of the surfactants and urea. <i>RSC Advances</i> , 2014, 4, 34026-34036.	3.6	10
48	Interaction of Biologically Active Flavins inside Bile Salt Aggregates: Molecular Level Investigation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9854-9866.	2.6	10
49	Binding and relaxation behavior of Coumarin-153 in lecithin-taurocholate mixed micelles: A time resolved fluorescence spectroscopic study. <i>Chemical Physics Letters</i> , 2005, 412, 255-262.	2.6	9
50	Effect of nano-confinement on the photophysics of lumichrome. <i>Chemical Physics Letters</i> , 2013, 565, 108-115.	2.6	9
51	Torsional Dynamics of Thioflavin T in Room-Temperature Ionic Liquids: An Effect of Heterogeneity of the Medium. <i>ChemPhysChem</i> , 2013, 14, 3400-3409.	2.1	9
52	Deciphering the perturbation effect of urea on the supramolecular host-guest interaction of biologically active hydrophobic molecule inside the nanocavity of cyclodextrins. <i>Journal of Luminescence</i> , 2017, 183, 238-250.	3.1	9
53	Photophysics of Thioflavin T in deep eutectic solvents. <i>Journal of Luminescence</i> , 2018, 198, 508-516.	3.1	9
54	Photophysics and Rotational Diffusion of Hydrophilic Molecule in Polymer and Polyols. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12680-12691.	2.6	7

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55	Inclusion of a coumarin derivative inside the macrocyclic hosts: A spectroscopic, thermodynamic and theoretical investigation. <i>Journal of Molecular Liquids</i> , 2018, 264, 550-562.	4.9	7
56	Photophysics of thiazole orange in deep eutectic solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 258, 119812.	3.9	7
57	Graphene oxide-controlled neutral versus cationic form of a red emitting dye: enhancement of fluorescence by graphene oxide. <i>Chemical Communications</i> , 2021, 57, 11855-11858.	4.1	7
58	Influence of double confinement on photophysics of 7-(diethylamino)coumarin-3-carboxylic acid in water/AOT/isooctane reverse micelles. <i>RSC Advances</i> , 2014, 4, 13989-14000.	3.6	6
59	Direct observation of preferential processing of clustered abasic DNA damages with APE1 in TATA box and CpG island by reaction kinetics and fluorescence dynamics. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 766-767, 56-65.	1.0	6
60	Osmotic properties of binary mixtures 1-butyl-1-methylpyrrolidinium dicyanamide and 1-methyl-3-octylimidazolium chloride with water: Effect of aggregation of ions. <i>Journal of Chemical Thermodynamics</i> , 2015, 81, 227-236.	2.0	6
61	Investigation of interaction of an alkaloid harmaline with cucurbit[7]uril: A spectroscopic and calorimetric study. <i>Chemical Physics Letters</i> , 2018, 692, 340-344.	2.6	6
62	Design, fabrication, and performance evaluation of a novel orientation independent and wickless heat spreader. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119572.	4.8	6
63	Spectroscopic investigation of a red emitting dye in the companionship of serum albumins and cucurbit[7]uril. <i>Journal of Molecular Liquids</i> , 2021, 332, 115885.	4.9	6
64	Osmotic properties of binary mixtures of 1-butyl-1-methylpyrrolidinium iodide and water. <i>Journal of Molecular Liquids</i> , 2014, 200, 349-353.	4.9	5
65	Molecular interaction between nonsteroidal anti-inflammatory drug molecules with cucurbit[7]uril estimated by spectroscopy and calorimetry. <i>Journal of Molecular Liquids</i> , 2017, 232, 416-422.	4.9	5
66	Photophysics of harmaline in solvent mixtures. <i>Journal of Molecular Liquids</i> , 2019, 275, 84-90.	4.9	5
67	Supramolecular Interactions of Nonsteroidal Anti-inflammatory Drug in Nanochannels of Molecular Containers: A Spectroscopic, Thermogravimetric and Microscopic Investigation. <i>ChemPhysChem</i> , 2014, 15, 3502-3514.	2.1	4
68	Thermodynamic Behavior of Binary Mixtures of 1-Butyl-1-methylpyrrolidinium Iodide and Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2301-2307.	1.9	4
69	Thermodynamic analysis of binding of benzimidazole derivative with cucurbit[7]uril: A isothermal titration calorimetry study. <i>Journal of Molecular Liquids</i> , 2018, 254, 70-75.	4.9	4
70	Investigation of Different Prototropic Forms of Biologically Active Flavin Lumichrome in the Presence of Liposome. <i>Photochemistry and Photobiology</i> , 2019, 95, 1151-1159.	2.5	4
71	Interaction of a hydrophilic molecule with bovine serum albumin: A combined multi-spectroscopic, microscopic and isothermal calorimetric study in the presence of graphene oxide. <i>Journal of Molecular Liquids</i> , 2021, 323, 114618.	4.9	4
72	Photophysics of a cyanine dye in the protein-surfactant aggregates. <i>Journal of Molecular Liquids</i> , 2022, 346, 118276.	4.9	4

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73	Photophysical study of styryl derivatives with macrocyclic host and the effect of addition of cholesterol and neurotransmitter. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 427, 113842.	3.9	4
74	Alteration in DNA binding pattern of conformationally locked NC(O)N system: A spectroscopic investigation. <i>International Journal of Biological Macromolecules</i> , 2016, 85, 497-504.	7.5	3
75	Photophysics of a molecular rotor inside the block co-polymers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 351, 170-178.	3.9	3
76	Photophysical study of an alkaloid harmaline in 1,4-dioxane-water mixtures. <i>Chemical Physics Letters</i> , 2018, 706, 158-163.	2.6	3
77	Interaction of a red emitting dye with pluronic surfactants: A spectroscopic study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 376, 247-254.	3.9	3
78	The photophysics of a hydrophilic molecule in the presence of graphene oxide. <i>Journal of Luminescence</i> , 2020, 217, 116816.	3.1	3
79	Photophysics of a red emitting dye in the presence of pluronic block copolymers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113051.	3.9	3
80	Photophysics of crystal violet lactone in reverse micelles and its dual behaviour. <i>RSC Advances</i> , 2015, 5, 55015-55026.	3.6	2
81	Photophysics and Rotational Dynamics of a Hydrophilic Molecule in a Room Temperature Ionic Liquid. <i>Photochemistry and Photobiology</i> , 2015, 91, 1056-1063.	2.5	2
82	Red emitting dye in room temperature ionic liquids: A spectroscopic study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 202-210.	3.9	2
83	Structural transition dynamics of biologically active flavins in alkylglucoside surfactants aggregates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117346.	3.9	2
84	Selective prototropism of lumichrome in the liposome/graphene oxide interface: A detailed spectroscopic study. <i>Journal of Molecular Liquids</i> , 2021, 339, 116738.	4.9	2
85	Photodynamics of biological active flavin in the presence of zwitterionic surfactants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120304.	3.9	2
86	Photophysics and rotational dynamics of Nile red in room temperature ionic liquid (RTIL) and RTIL-cosolvents binary mixtures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 399, 112550.	3.9	1
87	AMPHIPHILIC ADDITIVES TO ENHANCE POOL BOILING HEAT TRANSFER IN CONFINED SPACES. <i>Journal of Enhanced Heat Transfer</i> , 2020, 27, 545-560.	1.1	1
88	Aqueous Ionic Liquid Solution based Two-phase Thermal Management for Adverse Gravity Applications. , 2019, , .		0
89	Thermodynamic behaviour of binary mixture of 1,3-dimethoxyimidazolium bis(trifluoromethyl-sulfonyl)imide and water. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100217.	2.8	0
90	Interaction between Cucurbit[7]uril and Bile Salts: An Isothermal Titration Calorimetry Study. <i>ChemistrySelect</i> , 2022, 7, .	1.5	0