

Jyotirmayee Mohanty

List of Publications by Year in descending order

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90
papers

4,811
citations

101496

36
h-index

95218

68
g-index

93
all docs

93
docs citations

93
times ranked

3615
citing authors

#	ARTICLE	IF	CITATIONS
1	Thioflavin T as an Efficient Inducer and Selective Fluorescent Sensor for the Human Telomeric G-Quadruplex DNA. <i>Journal of the American Chemical Society</i> , 2013, 135, 367-376.	6.6	553
2	Host-Guest Complexation of Neutral Red with Macrocyclic Host Molecules: Contrasting pKa Shifts and Binding Affinities for Cucurbit[7]uril and β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5132-5138.	1.2	266
3	Ultrastable Rhodamine with Cucurbituril. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3750-3754.	7.2	256
4	Efficient Fluorescence Enhancement and Cooperative Binding of an Organic Dye in a Supra-biomolecular Host-Protein Assembly. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4120-4122.	7.2	206
5	Cooperative Metal Ion Binding to a Cucurbit[7]uril-Thioflavin T Complex: Demonstration of a Stimulus-Responsive Fluorescent Supramolecular Capsule. <i>Journal of the American Chemical Society</i> , 2010, 132, 1395-1401.	6.6	180
6	Taming fluorescent dyes with cucurbituril. <i>International Journal of Photoenergy</i> , 2005, 7, 133-141.	1.4	175
7	Cucurbit[n]uril based supramolecular assemblies: tunable physico-chemical properties and their prospects. <i>Chemical Communications</i> , 2011, 47, 9959.	2.2	168
8	Complexation of acridine orange by cucurbit[7]uril and β -cyclodextrin: photophysical effects and pKa shifts. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 408-414.	1.6	161
9	Targeting G-quadruplex structures with extrinsic fluorogenic dyes: promising fluorescence sensors. <i>Chemical Communications</i> , 2015, 51, 7581-7597.	2.2	147
10	Salt-induced guest relocation from a macrocyclic cavity into a biomolecular pocket: interplay between cucurbit[7]uril and albumin. <i>Chemical Communications</i> , 2008, , 3681.	2.2	125
11	Refractive index effects on the oscillator strength and radiative decay rate of 2,3-diazabicyclo[2.2.2]oct-2-ene. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 1026.	1.6	98
12	Supramolecular Dye Laser with Cucurbit[7]uril in Water. <i>ChemPhysChem</i> , 2007, 8, 54-56.	1.0	96
13	Control of the Supramolecular Excimer Formation of Thioflavin T within a Cucurbit[8]uril Host: A Fluorescence On/Off Mechanism. <i>Chemistry - A European Journal</i> , 2009, 15, 5215-5219.	1.7	93
14	Noncovalent Interaction of 5,10,15,20-Tetrakis(4-N-methylpyridyl)porphyrin with Cucurbit[7]uril: A Supramolecular Architecture. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10782-10785.	1.2	92
15	Modulation of Excited-State Proton Transfer of 2-(2-Hydroxyphenyl)benzimidazole in a Macrocyclic Cucurbit[7]uril Host Cavity: Dual Emission Behavior and pKa Shift. <i>Chemistry - A European Journal</i> , 2009, 15, 12362-12370.	1.7	91
16	Photophysical Studies on the Noncovalent Interaction of Thioflavin T with Cucurbit[n]uril Macrocycles. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1891-1898.	1.2	89
17	Contrasting guest binding interaction of cucurbit[7-8]urils with neutral red dye: controlled exchange of multiple guests. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7050.	1.3	84
18	Stimulus-Responsive Supramolecular pKa Tuning of Cucurbit[7]uril Encapsulated Coumarin 6 Dye. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3683-3689.	1.2	78

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19	Contrasting Solvent Polarity Effect on the Photophysical Properties of Two Newly Synthesized Aminostyryl Dyes in the Lower and in the Higher Solvent Polarity Regions. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4507-4519.	1.1	74
20	Inhibition and disintegration of insulin amyloid fibrils: a facile supramolecular strategy with p-sulfonatocalixarenes. <i>Chemical Communications</i> , 2016, 52, 2992-2995.	2.2	69
21	Recognition-Mediated Light-Up of Thiazole Orange with Cucurbit[8]uril: Exchange and Release by Chemical Stimuli. <i>Journal of Physical Chemistry B</i> , 2012, 116, 130-135.	1.2	66
22	Molecular Encapsulation of Fluorescent Dyes Affords Efficient Narrow-band Dye Laser Operation in Water. <i>ChemPhysChem</i> , 2010, 11, 3333-3338.	1.0	63
23	Synergistic Effect of Intramolecular Charge Transfer toward Supramolecular p <i>K_a</i> Shift in Cucurbit[7]uril Encapsulated Coumarin Dyes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7136-7146.	1.2	58
24	Non-covalent interactions of coumarin dyes with cucurbit[7]uril macrocycle: modulation of ICT to TICT state conversion. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5055.	1.5	50
25	Detection, inhibition and disintegration of amyloid fibrils: the role of optical probes and macrocyclic receptors. <i>Chemical Communications</i> , 2017, 53, 2789-2809.	2.2	49
26	Stimuli-responsive Cucurbit[7]uril-mediated BSA Nanoassembly for Uptake and Release of Doxorubicin. <i>Chemistry - an Asian Journal</i> , 2017, 12, 122-129.	1.7	49
27	A Supramolecular Approach for Enhanced Antibacterial Activity and Extended Shelf-life of Fluoroquinolone Drugs with Cucurbit[7]uril. <i>Scientific Reports</i> , 2018, 8, 13925.	1.6	48
28	Supramolecular Assemblies of Thioflavin T with Cucurbiturils: Prospects of Cooperative and Competitive Metal Ion Binding. <i>Israel Journal of Chemistry</i> , 2011, 51, 634-645.	1.0	47
29	Stimuli-responsive supramolecular micellar assemblies of cetylpyridinium chloride with cucurbit[5/7]urils. <i>Soft Matter</i> , 2014, 10, 3485.	1.2	45
30	Supramolecular assembly of hoechst-33258 with cucurbit[7]uril macrocycle. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13117.	1.3	44
31	Early detection of insulin fibrillation: a fluorescence lifetime assay to probe the pre-fibrillar regime. <i>Chemical Communications</i> , 2012, 48, 2403.	2.2	44
32	Triple Emission from <i>p</i> -Dimethylaminobenzonitrile-Cucurbit[8]uril Triggers the Elusive Excimer Emission. <i>Chemistry - A European Journal</i> , 2015, 21, 691-696.	1.7	44
33	Surfactant-Induced Aggregation Patterns of Thiazole Orange: A Photophysical Study. <i>Langmuir</i> , 2011, 27, 12312-12321.	1.6	40
34	Supramolecular Host-Guest Interactions of Oxazine-1 Dye with β - and γ -Cyclodextrins: A Photophysical and Quantum Chemical Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12450-12459.	1.2	40
35	Supramolecular Nanorods of (N-Methylpyridyl) Porphyrin With Captisol: Effective Photosensitizer for Anti-bacterial and Anti-tumor Activities. <i>Frontiers in Chemistry</i> , 2019, 7, 452.	1.8	38
36	Photophysical Properties of 2,2'- and 4,4'-Biphenyldiols. <i>Bulletin of the Chemical Society of Japan</i> , 1999, 72, 2193-2202.	2.0	35

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37	Cucurbit[8]uril-templated H and J dimers of bichromophoric coumarin dyes: origin of contrasting emission. <i>Chemical Communications</i> , 2015, 51, 13225-13228.	2.2	35
38	Photophysical and Quantum Chemical Studies on the Interactions of Oxazine-1 Dye with Cucurbituril Macrocycles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3046-3057.	1.2	34
39	Inhibiting Intramolecular Electron Transfer in Flavin Adenine Dinucleotide by Host-Guest Interaction: A Fluorescence Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2617-2626.	1.2	33
40	Effect of donor orientation on ultrafast intermolecular electron transfer in coumarin-amine systems. <i>Journal of Chemical Physics</i> , 2008, 129, 114504.	1.2	32
41	A Fluorescence Perspective on the Differential Interaction of Riboflavin and Flavin Adenine Dinucleotide with Cucurbit[7]uril. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10717-10727.	1.2	31
42	Surface functionalized silver nanoparticle conjugates: demonstration of uptake and release of a phototherapeutic porphyrin dye. <i>Chemical Communications</i> , 2011, 47, 9182.	2.2	31
43	Recognition-mediated cucurbit[7]uril-heptamolybdate hybrid material: a facile supramolecular strategy for ^{99m}Tc separation. <i>Chemical Communications</i> , 2016, 52, 7306-7309.	2.2	31
44	pH and temperature dependent relaxation dynamics of Hoechst-33258: a time resolved fluorescence study. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 35-41.	1.6	29
45	Metal-Ion-Mediated Assemblies of Thiazole Orange with Cucurbit[7]uril: A Photophysical Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3815-3823.	1.2	29
46	Tuning dual emission behavior of p-dialkylaminobenzonitriles by supramolecular interactions with cyclodextrin hosts. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 979-985.	1.6	28
47	Cucurbituril-Induced Supramolecular pK _a Shift in Fluorescent Dyes and Its Prospective Applications. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2014, 84, 1-17.	0.8	27
48	Molecular Recognition-Assisted pK _a Shifts and Metal-Ion-Induced Fluorescence Regeneration in p-Sulfonatocalix[6]arene-Encapsulated Acridine. <i>ChemPhysChem</i> , 2015, 16, 420-427.	1.0	24
49	Sulfobutylether- β -Cyclodextrin for Inhibition and Rupture of Amyloid Fibrils. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20057-20065.	1.5	23
50	Cucurbituril-Based Supramolecular Assemblies: Prospective on Drug Delivery, Sensing, Separation, and Catalytic Applications. <i>Langmuir</i> , 2022, 38, 6249-6264.	1.6	23
51	The Contrasting Recognition Behavior of β -Cyclodextrin and Its Sulfobutylether Derivative towards 4,6-Diamidino-2-phenylindole. <i>ChemPhysChem</i> , 2015, 16, 3425-3432.	1.0	22
52	Modulation in the acidity constant of acridine dye with cucurbiturils: stimuli-responsive pK _a tuning and dye relocation into live cells. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8448-8457.	1.5	22
53	New Insights into the Mechanism of Triplet Radical-Pair Combinations. The Persistent Radical Effect Masks the Distinction between In-Cage and Out-of-Cage Processes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5012-5022.	6.6	20
54	A Viologen-Perylene-dimide Conjugate as an Efficient Base Sensor with Solvatochromic Property. <i>ChemPhysChem</i> , 2017, 18, 245-252.	1.0	20

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55	pH-Mediated Stoichiometric Switching of Cucurbit[8]urilâ€“Hoechst-33258 Complexes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13595-13603.	1.2	19
56	Cooperative enhancement of antibacterial activity of sanguinarine drug through p-sulfonatocalix[6]arene functionalized silver nanoparticles. <i>Chemical Communications</i> , 2019, 55, 14275-14278.	2.2	19
57	Metal-Free Supramolecular Catalytic Hydrolysis of Ammonia Borane through Cucurbituril Nanocavitands. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16218-16226.	4.0	19
58	Supramolecular Assembly Induced Emission of Thiazole Orange with Sulfobutylether β -cyclodextrin: A Stimuliâ€“Responsive Fluorescence Sensor for Tyramine. <i>ChemPhysChem</i> , 2019, 20, 2498-2505.	1.0	18
59	Excited singlet (S1) state interactions of 2,2â€“ and 4,4â€“biphenyldiols with chloroalkanes: Photoinduced dissociative electron transfer. <i>Journal of Chemical Physics</i> , 2002, 116, 8006-8014.	1.2	14
60	Excited singlet (S1) state interactions of calixarenes with chloroalkanes: A combination of concerted and stepwise dissociative electron transfer mechanism. <i>Journal of Chemical Physics</i> , 2002, 117, 10744-10751.	1.2	14
61	Metal ion-induced supramolecular pK _a tuning and fluorescence regeneration of a p-sulfonatocalixarene encapsulated neutral red dye. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3975-3984.	1.5	14
62	Ultraâ€“Bright Rhodamines with Sulfobutylether β -cyclodextrin: A Viable Supramolecular Dye Laser in Aqueous Medium. <i>ChemPhysChem</i> , 2018, 19, 2349-2356.	1.0	14
63	Molecular wire formation from poly[2,7-(9,9-dioctylfluorene)-alt-(5,5â€“bithiophene/cucurbit[7]uril)] polyrotaxane copolymer. <i>European Polymer Journal</i> , 2015, 62, 124-129.	2.6	13
64	Selective prototropism of lumichrome in cationic micelles and reverse micelles: a photophysical perspective. <i>RSC Advances</i> , 2016, 6, 6111-6124.	1.7	13
65	Redoxâ€“mediated Negative Differential Resistance (NDR) Behavior in Perylenediimide Derivative: A Supramolecular Approach. <i>Chemistry - A European Journal</i> , 2019, 25, 13939-13944.	1.7	13
66	Fluorescence enhancement of cationic styrylcoumarin-cucurbit[7]uril complexes: Enhanced stability and cellular membrane localization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 384, 112062.	2.0	12
67	Interaction of meso-tetrakis(N-methylpyridinyl)porphyrin with single strand DNAs â€“ poly(dA), poly(dT), poly(dG) and poly(dC): A photophysical study. <i>Journal of Chemical Sciences</i> , 2014, 126, 911-917.	0.7	11
68	Cyclodextrin-assisted modulation of the photophysical properties and acidity constant of pyrene-armed calix[4]arene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21382-21389.	1.3	10
69	pH-responsive molecular assemblies of pyridylbutadiene derivative with cucurbit[7]uril. <i>RSC Advances</i> , 2018, 8, 16738-16745.	1.7	10
70	Pulsed laser excitation of phosphate stabilised silver nanoparticles. <i>Journal of Chemical Sciences</i> , 2000, 112, 63-72.	0.7	9
71	Reversible Insulin Hexamer Assembly Promoted by Ethyl Violet: pH-Controlled Uptake and Release. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3978-3983.	2.1	9
72	Photoinduced dissociative electron transfer (DET) interactions in methoxycalixareneâ€“chloroalkane systems. <i>Chemical Physics Letters</i> , 2003, 370, 641-646.	1.2	8

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73	Collective proton motion in the intramolecular hydrogen bonding network and the consequent enhancement in the acidity of hydroxycalixarenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 116-126.	2.0	8
74	Recognition-mediated contrasting fluorescence behaviour of 4-aminodiphenylindole (DAPI): probing the pKa of p-sulfonatocalix[4/6]arenes. <i>Supramolecular Chemistry</i> , 2016, 28, 517-525.	1.5	8
75	DNA-Induced Novel Optical Features of Ethyl Viologen-Tethered Perylene-3,4,9,10-tetracarboxylic Diimide Triad. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18061-18069.	1.5	8
76	Supramolecular interaction of sanguinarine dye with sulfobutylether- β -cyclodextrin: modulation of the photophysical properties and antibacterial activity. <i>RSC Advances</i> , 2020, 10, 25370-25378.	1.7	8
77	Triplet-State Characteristics and Photoionization Behavior of 2,2'- and 4,4'-Biphenyldiol Studied by 248 nm Laser Flash Photolysis in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2112-2121.	1.1	6
78	Fluorescent probes for the stabilization and detection of G-quadruplexes and their prospective applications. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100078.	1.3	6
79	Stimuli-responsive Supramolecular Nanoassemblies of Cucurbit[7]uril with Bovine Serum Albumin: Drug Delivery and Sensor Applications. <i>Israel Journal of Chemistry</i> , 2018, 58, 276-285.	1.0	5
80	Fibril-induced neurodegenerative disorders in an A β -mutant Drosophila model: therapeutic targeting using ammonium molybdate. <i>Chemical Communications</i> , 2021, 57, 8488-8491.	2.2	5
81	Photoinduced emissive naphthalenediimide radical anion in the confinement of cucurbituril nanocavity; in situ generation of gold nanoparticles. <i>Journal of Molecular Liquids</i> , 2021, 334, 116023.	2.3	5
82	Ground and Excited Singlet (S ₁) State Interactions of 2,2'- and 4,4'-Biphenyldiols with Proton Acceptors. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 427-433.	2.0	4
83	Triplet state characteristics of 2,2'- and 4,4'-biphenyldiols studied by 248 nm nanosecond laser flash photolysis. <i>Chemical Physics Letters</i> , 2001, 342, 328-336.	1.2	4
84	Modulation of Protolytic Equilibrium of Bichromophoric Coumarin-6 Dye with Cucurbit[8]uril Encapsulation. <i>ChemistrySelect</i> , 2017, 2, 7387-7393.	0.7	4
85	Excited Singlet (S ₁)-state Interactions of Nile Red with Aromatic Amines. <i>Photochemistry and Photobiology</i> , 2003, 78, 153.	1.3	4
86	Chapter 11. Cucurbituril-functionalized Supramolecular Assemblies: Gateways to Diverse Applications. <i>RSC Smart Materials</i> , 2019, , 235-257.	0.1	3
87	Photoinduced electron transfer in host-guest interactions of lumichrome with p-sulfonatocalix[6]arene. <i>Journal of Molecular Liquids</i> , 2021, 322, 114955.	2.3	2
88	Photodissociation and photoionization mechanisms of 2,2'- and 4,4'-biphenyldiols: a laser flash photolysis study. <i>Research on Chemical Intermediates</i> , 2005, 31, 47-61.	1.3	1
89	Excited Singlet (S ₁)-state Interactions of Nile Red with Aromatic Amines. <i>Photochemistry and Photobiology</i> , 2003, 78, 153-158.	1.3	0
90	Editorial: Frontiers in Chemistry-Rising Stars: Asia. <i>Frontiers in Chemistry</i> , 2021, 9, 811459.	1.8	0