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	Cucurbituril-Based Supramolecular Assemblies: Prospective on Drug Delivery, Sensing, Separation, and Catalytic Applications. Langmuir, 2022, 38, 6249-6264.	1.6	23
2	Photoinduced electron transfer in host-guest interactions of lumichrome with p-sulfonatocalix[6]arene. Journal of Molecular Liquids, 2021, 322, 114955.	2.3	2
3	Fibril-induced neurodegenerative disorders in an AÎ²-mutant Drosophila model: therapeutic targeting using ammonium molybdate. Chemical Communications, 2021, 57, 8488-8491.	2.2	5
4	Metal-Free Supramolecular Catalytic Hydrolysis of Ammonia Borane through Cucurbituril Nanocavitands. ACS Applied Materials & Interfaces, 2021, 13, 16218-16226.	4.0	19
5	Fluorescent probes for the stabilization and detection of G-quadruplexes and their prospective applications. Journal of the Indian Chemical Society, 2021, 98, 100078.	1.3	6
6	Photoinduced emissive naphthalenediimide radical anion in the confinement of cucurbituril nanocavity; in situ generation of gold nanoparticles. Journal of Molecular Liquids, 2021, 334, 116023.	2.3	5
7	Editorial: Frontiers in Chemistry-Rising Stars: Asia. Frontiers in Chemistry, 2021, 9, 811459.	1.8	0
8	Supramolecular interaction of sanguinarine dye with sulfobutylether-Î²-cyclodextrin: modulation of the photophysical properties and antibacterial activity. RSC Advances, 2020, 10, 25370-25378.	1.7	8
9	Redoxâ€mediated Negative Differential Resistance (NDR) Behavior in Perylenediimide Derivative: A Supramolecular Approach. Chemistry - A European Journal, 2019, 25, 13939-13944.	1.7	13
10	Supramolecular Assembly Induced Emission of Thiazole Orange with Sulfobutylether Î²â€cyclodextrin: A Stimuliâ€Responsive Fluorescence Sensor for Tyramine. ChemPhysChem, 2019, 20, 2498-2505.	1.0	18
11	Supramolecular Nanorods of (N-Methylpyridyl) Porphyrin With Captisol: Effective Photosensitizer for Anti-bacterial and Anti-tumor Activities. Frontiers in Chemistry, 2019, 7, 452.	1.8	38
12	Fluorescence enhancement of cationic styrylcoumarin-cucurbit[7]uril complexes: Enhanced stability and cellular membrane localization. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 384, 112062.	2.0	12
13	Cooperative enhancement of antibacterial activity of sanguinarine drug through p-sulfonatocalix[6]arene functionalized silver nanoparticles. Chemical Communications, 2019, 55, 14275-14278.	2.2	19
14	Chapter 11. Cucurbituril-functionalized Supramolecular Assemblies: Gateways to Diverse Applications. RSC Smart Materials, 2019, , 235-257.	0.1	3
15	Stimuliâ€responsive Supraâ€biomolecular Nanoassemblies of Cucurbit[7]uril with Bovine Serum Albumin: Drug Delivery and Sensor Applications. Israel Journal of Chemistry, 2018, 58, 276-285.	1.0	5
16	A Supramolecular Approach for Enhanced Antibacterial Activity and Extended Shelf-life of Fluoroquinolone Drugs with Cucurbit[7]uril. Scientific Reports, 2018, 8, 13925.	1.6	48
17	Ultraâ€Bright Rhodamines with Sulfobutyletherâ€Î²â€Cyclodextrin: A Viable Supramolecular Dye Laser in Aqueous Medium. ChemPhysChem, 2018, 19, 2349-2356.	1.0	14
18	DNA-Induced Novel Optical Features of Ethyl Viologen-Tethered Perylenediimide Triad. Journal of Physical Chemistry C, 2018, 122, 18061-18069.	1.5	8

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19	pH-responsive molecular assemblies of pyridylbutadiene derivative with cucurbit[7]uril. RSC Advances, 2018, 8, 16738-16745.	1.7	10
20	Detection, inhibition and disintegration of amyloid fibrils: the role of optical probes and macrocyclic receptors. Chemical Communications, 2017, 53, 2789-2809.	2.2	49
21	Metal ion-induced supramolecular pK_a tuning and fluorescence regeneration of a p-sulfonatocalixarene encapsulated neutral red dye. Organic and Biomolecular Chemistry, 2017, 15, 3975-3984.	1.5	14
22	Stimuliâ€Responsive Cucurbit[7]urilâ€Mediated BSA Nanoassembly for Uptake and Release of Doxorubicin. Chemistry - an Asian Journal, 2017, 12, 122-129.	1.7	49
23	Sulfobutylether-Î²-Cyclodextrin for Inhibition and Rupture of Amyloid Fibrils. Journal of Physical Chemistry C, 2017, 121, 20057-20065.	1.5	23
24	Modulation of Protolytic Equilibrium of Bichromophoric Coumarinâ€30 Dye with Cucurbit[8]uril Encapsulation. ChemistrySelect, 2017, 2, 7387-7393.	0.7	4
25	Modulation in the acidity constant of acridine dye with cucurbiturils: stimuli-responsive pK_a tuning and dye relocation into live cells. Organic and Biomolecular Chemistry, 2017, 15, 8448-8457.	1.5	22
26	Cyclodextrin-assisted modulation of the photophysical properties and acidity constant of pyrene-armed calix[4]arene. Physical Chemistry Chemical Physics, 2017, 19, 21382-21389.	1.3	10
27	A Viologenâ€“Perylenediimide Conjugate as an Efficient Base Sensor with Solvatochromic Property. ChemPhysChem, 2017, 18, 245-252.	1.0	20
28	Recognition-mediated cucurbit[7]uril-heptamolybdate hybrid material: a facile supramolecular strategy for^{99m}Tc separation. Chemical Communications, 2016, 52, 7306-7309.	2.2	31
29	Reversible Insulin Hexamer Assembly Promoted by Ethyl Violet: pH-Controlled Uptake and Release. Journal of Physical Chemistry Letters, 2016, 7, 3978-3983.	2.1	9
30	Selective prototropism of lumichrome in cationic micelles and reverse micelles: a photophysical perspective. RSC Advances, 2016, 6, 6111-6124.	1.7	13
31	Recognition-mediated contrasting fluorescence behaviour of 4â€²,6-diamidino-2-phenylindole (DAPI): probing the pK_aofp-sulfonatocalix[4/6]arenes. Supramolecular Chemistry, 2016, 28, 517-525.	1.5	8
32	Inhibition and disintegration of insulin amyloid fibrils: a facile supramolecular strategy with p-sulfonatocalixarenes. Chemical Communications, 2016, 52, 2992-2995.	2.2	69
33	The Contrasting Recognition Behavior of Î²â€Cyclodextrin and Its Sulfobutylether Derivative towards 4â€²,6â€Diamidinoâ€2â€phenylindole. ChemPhysChem, 2015, 16, 3425-3432.	1.0	22
34	Metal-Ion-Mediated Assemblies of Thiazole Orange with Cucurbit[7]uril: A Photophysical Study. Journal of Physical Chemistry B, 2015, 119, 3815-3823.	1.2	29
35	Photophysical and Quantum Chemical Studies on the Interactions of Oxazine-1 Dye with Cucurbituril Macrocycles. Journal of Physical Chemistry B, 2015, 119, 3046-3057.	1.2	34
36	Targeting G-quadruplex structures with extrinsic fluorogenic dyes: promising fluorescence sensors. Chemical Communications, 2015, 51, 7581-7597.	2.2	147

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37	Cucurbit[8]uril-templated H and J dimers of bichromophoric coumarin dyes: origin of contrasting emission. Chemical Communications, 2015, 51, 13225-13228.	2.2	35
38	Molecularâ€Recognitionâ€Assisted pK_a Shifts and Metalâ€Ionâ€Induced Fluorescence Regeneration in pâ€Sulfonatocalix[6]areneâ€Encapsulated Acridine. ChemPhysChem, 2015, 16, 420-427.	1.0	24
39	Molecular wire formation from poly[2,7-(9,9-dioctylfluorene)-alt-(5,5â€²-bithiophene/cucurbit[7]uril)] polyrotaxane copolymer. European Polymer Journal, 2015, 62, 124-129.	2.6	13
40	Triple Emission from pâ€Dimethylaminobenzonitrileâ€“Cucurbit[8]uril Triggers the Elusive Excimer Emission. Chemistry - A European Journal, 2015, 21, 691-696.	1.7	44
41	Cucurbituril-Induced Supramolecular pK a Shift in Fluorescent Dyes and Its Prospective Applications. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2014, 84, 1-17.	0.8	27
42	Synergistic Effect of Intramolecular Charge Transfer toward Supramolecular pK_a Shift in Cucurbit[7]uril Encapsulated Coumarin Dyes. Journal of Physical Chemistry B, 2014, 118, 7136-7146.	1.2	58
43	Interaction of meso-tetrakis(N-methylpyridinyl)porphyrin with single strand DNAs â€“ poly(dA), poly(dT), poly(dG) and poly(dC): A photophysical study. Journal of Chemical Sciences, 2014, 126, 911-917.	0.7	11
44	Stimuli-responsive supramolecular micellar assemblies of cetylpyridinium chloride with cucurbit[5/7]urils. Soft Matter, 2014, 10, 3485.	1.2	45
45	pH-Mediated Stoichiometric Switching of Cucurbit[8]urilâ€“Hoechst-33258 Complexes. Journal of Physical Chemistry B, 2013, 117, 13595-13603.	1.2	19
46	Thioflavin T as an Efficient Inducer and Selective Fluorescent Sensor for the Human Telomeric G-Quadruplex DNA. Journal of the American Chemical Society, 2013, 135, 367-376.	6.6	553
47	Stimulus-Responsive Supramolecular pK_a Tuning of Cucurbit[7]uril Encapsulated Coumarin 6 Dye. Journal of Physical Chemistry B, 2012, 116, 3683-3689.	1.2	78
48	Non-covalent interactions of coumarin dyes with cucurbit[7]uril macrocycle: modulation of ICT to TICT state conversion. Organic and Biomolecular Chemistry, 2012, 10, 5055.	1.5	50
49	Supramolecular Hostâ€“Guest Interactions of Oxazine-1 Dye with Î²- and Î³-Cyclodextrins: A Photophysical and Quantum Chemical Study. Journal of Physical Chemistry B, 2012, 116, 12450-12459.	1.2	40
50	Early detection of insulin fibrillation: a fluorescence lifetime assay to probe the pre-fibrillar regime. Chemical Communications, 2012, 48, 2403.	2.2	44
51	Recognition-Mediated Light-Up of Thiazole Orange with Cucurbit[8]uril: Exchange and Release by Chemical Stimuli. Journal of Physical Chemistry B, 2012, 116, 130-135.	1.2	66
52	Surface functionalized silver nanoparticle conjugates: demonstration of uptake and release of a phototherapeutic porphyrin dye. Chemical Communications, 2011, 47, 9182.	2.2	31
53	pH and temperature dependent relaxation dynamics of Hoechst-33258: a time resolved fluorescence study. Photochemical and Photobiological Sciences, 2011, 10, 35-41.	1.6	29
54	Cucurbit[n]uril based supramolecular assemblies: tunable physico-chemical properties and their prospects. Chemical Communications, 2011, 47, 9959.	2.2	168

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55	Surfactant-Induced Aggregation Patterns of Thiazole Orange: A Photophysical Study. Langmuir, 2011, 27, 12312-12321.	1.6	40
56	Supramolecular Assemblies of Thioflavin T with Cucurbiturils: Prospects of Cooperative and Competitive Metal Ion Binding. Israel Journal of Chemistry, 2011, 51, 634-645.	1.0	47
57	Supramolecular assembly of hoechst-33258 with cucurbit[7]uril macrocycle. Physical Chemistry Chemical Physics, 2011, 13, 13117.	1.3	44
58	A Fluorescence Perspective on the Differential Interaction of Riboflavin and Flavin Adenine Dinucleotide with Cucurbit[7]uril. Journal of Physical Chemistry B, 2010, 114, 10717-10727.	1.2	31
59	Molecular Encapsulation of Fluorescent Dyes Affords Efficient Narrowâ€band Dye Laser Operation in Water. ChemPhysChem, 2010, 11, 3333-3338.	1.0	63
60	Cooperative Metal Ion Binding to a Cucurbit[7]urilâ^'Thioflavin T Complex: Demonstration of a Stimulus-Responsive Fluorescent Supramolecular Capsule. Journal of the American Chemical Society, 2010, 132, 1395-1401.	6.6	180
61	Contrasting guest binding interaction of cucurbit[7-8]urils with neutral red dye: controlled exchange of multiple guests. Physical Chemistry Chemical Physics, 2010, 12, 7050.	1.3	84
62	Inhibiting Intramolecular Electron Transfer in Flavin Adenine Dinucleotide by Hostâ^'Guest Interaction: A Fluorescence Study. Journal of Physical Chemistry B, 2010, 114, 2617-2626.	1.2	33
63	Contrasting Solvent Polarity Effect on the Photophysical Properties of Two Newly Synthesized Aminostyryl Dyes in the Lower and in the Higher Solvent Polarity Regions. Journal of Physical Chemistry A, 2010, 114, 4507-4519.	1.1	74
64	Control of the Supramolecular Excimer Formation of Thioflavin T within a Cucurbit[8]uril Host: A Fluorescence On/Off Mechanism. Chemistry - A European Journal, 2009, 15, 5215-5219.	1.7	93
65	Modulation of Excitedâ€State Proton Transfer of 2â€(2â€²â€Hydroxyphenyl)benzimidazole in a Macrocyclic Cucurbit[7]uril Host Cavity: Dual Emission Behavior and pK_a Shift. Chemistry - A European Journal, 2009, 15, 12362-12370.	1.7	91
66	Photophysical Studies on the Noncovalent Interaction of Thioflavin T with Cucurbit[n]uril Macrocycles. Journal of Physical Chemistry B, 2009, 113, 1891-1898.	1.2	89
67	Collective proton motion in the intramolecular hydrogen bonding network and the consequent enhancement in the acidity of hydroxycalixarenes. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 195, 116-126.	2.0	8
68	Salt-induced guest relocation from a macrocyclic cavity into a biomolecular pocket: interplay between cucurbit[7]uril and albumin. Chemical Communications, 2008, , 3681.	2.2	125
69	Tuning dual emission behavior of p-dialkylaminobenzonitriles by supramolecular interactions with cyclodextrin hosts. Photochemical and Photobiological Sciences, 2008, 7, 979-985.	1.6	28
70	Complexation of acridine orange by cucurbit[7]uril and Î²-cyclodextrin: photophysical effects and pKa shifts. Photochemical and Photobiological Sciences, 2008, 7, 408-414.	1.6	161
71	Noncovalent Interaction of 5,10,15,20-Tetrakis(4-N-methylpyridyl)porphyrin with Cucurbit[7]uril: A Supramolecular Architecture. Journal of Physical Chemistry B, 2008, 112, 10782-10785.	1.2	92
72	Effect of donor orientation on ultrafast intermolecular electron transfer in coumarin-amine systems. Journal of Chemical Physics, 2008, 129, 114504.	1.2	32

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73	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. Journal of the American Chemical Society, 2007, 129, 5012-5022.	6.6	20
74	Efficient Fluorescence Enhancement and Cooperative Binding of an Organic Dye in a Supra-biomolecular Hostâ€"Protein Assembly. Angewandte Chemie - International Edition, 2007, 46, 4120-4122.	7.2	206
75	Supramolecular Dye Laser with Cucurbit[7]uril in Water. ChemPhysChem, 2007, 8, 54-56.	1.0	96
76	Hostâ^'Guest Complexation of Neutral Red with Macrocyclic Host Molecules:Â Contrasting pKaShifts and Binding Affinities for Cucurbit[7]uril and Î²-Cyclodextrin. Journal of Physical Chemistry B, 2006, 110, 5132-5138.	1.2	266
77	Photodissociation and photoionization mechanisms of 2,2â€™- and 4,4â€™-biphenyldiols: a laser flash photolysis study. Research on Chemical Intermediates, 2005, 31, 47-61.	1.3	1
78	Ultrastable Rhodamine with Cucurbituril. Angewandte Chemie - International Edition, 2005, 44, 3750-3754.	7.2	256
79	Taming fluorescent dyes with cucurbituril. International Journal of Photoenergy, 2005, 7, 133-141.	1.4	175
80	Refractive index effects on the oscillator strength and radiative decay rate of 2,3-diazabicyclo[2.2.2]oct-2-ene. Photochemical and Photobiological Sciences, 2004, 3, 1026.	1.6	98
81	Photoinduced dissociative electron transfer (DET) interactions in methoxycalixareneâ€"chloroalkane systems. Chemical Physics Letters, 2003, 370, 641-646.	1.2	8
82	Excited Singlet (S1)-state Interactions of Nile Red with Aromatic AminesÂ¶. Photochemistry and Photobiology, 2003, 78, 153-158.	1.3	0
83	Excited Singlet (S1)-state Interactions of Nile Red with Aromatic AminesÂ¶. Photochemistry and Photobiology, 2003, 78, 153.	1.3	4
84	Excited singlet (S1) state interactions of 2,2â€²- and 4,4â€²-biphenyldiols with chloroalkanes: Photoinduced dissociative electron transfer. Journal of Chemical Physics, 2002, 116, 8006-8014.	1.2	14
85	Triplet-State Characteristics and Photoionization Behavior of 2,2â€˜- and 4,4â€˜-Biphenyldiol Studied by 248 nm Laser Flash Photolysis in Aqueous Solutionsâ€. Journal of Physical Chemistry A, 2002, 106, 2112-2121.	1.1	6
86	Excited singlet (S1) state interactions of calixarenes with chloroalkanes: A combination of concerted and stepwise dissociative electron transfer mechanism. Journal of Chemical Physics, 2002, 117, 10744-10751.	1.2	14
87	Ground and Excited Singlet (S1) State Interactions of 2,2â€²- and 4,4â€²-Biphenyldiols with Proton Acceptors. Bulletin of the Chemical Society of Japan, 2001, 74, 427-433.	2.0	4
88	Triplet state characteristics of 2,2â€²- and 4,4â€²-biphenyldiols studied by 248 nm nanosecond laser flash photolysis. Chemical Physics Letters, 2001, 342, 328-336.	1.2	4
89	Pulsed laser excitation of phosphate stabilised silver nanoparticles. Journal of Chemical Sciences, 2000, 112, 63-72.	0.7	9
90	Photophysical Properties of 2,2â€²- and 4,4â€²-Biphenyldiols. Bulletin of the Chemical Society of Japan, 1999, 72, 2193-2202.	2.0	35