

Bappaditya Roy

List of Publications by Year in descending order

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45
papers

1,490
citations

236833

25
h-index

315616

38
g-index

45
all docs

45
docs citations

45
times ranked

2119
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular assembly of melamine and its derivatives: nanostructures to functional materials. RSC Advances, 2014, 4, 1708-1734.	1.7	106
2	Co-assembled White-Light-Emitting Hydrogel of Melamine. ACS Applied Materials & Interfaces, 2013, 5, 5478-5485.	4.0	86
3	Two-Component Thermoreversible Hydrogels of Melamine and Gallic Acid. Langmuir, 2009, 25, 8457-8461.	1.6	77
4	Improved mechanical and photophysical properties of chitosan incorporated folic acid gel possessing the characteristics of dye and metal ion absorption. Journal of Materials Chemistry, 2012, 22, 20291.	6.7	75
5	Amino Acids and Peptides as Functional Components in Arylenediimide-Based Molecular Architectonics. Bulletin of the Chemical Society of Japan, 2019, 92, 1883-1901.	2.0	69
6	Time sensitive, temperature and pH responsive photoluminescence behaviour of a melamine containing bicomponent hydrogel. Soft Matter, 2010, 6, 3337.	1.2	61
7	Self-sustaining, fluorescent and semi-conducting co-assembled organogel of Fmoc protected phenylalanine with aromatic amines. Soft Matter, 2012, 8, 7436.	1.2	60
8	pH and anion sensitive silver(i) coordinated melamine hydrogel with dye absorbing properties: metastability at low melamine concentration. Journal of Materials Chemistry, 2011, 21, 11747.	6.7	56
9	Improved Mechanical and Electronic Properties of Co-assembled Folic Acid Gel with Aniline and Polyaniline. ACS Applied Materials & Interfaces, 2014, 6, 3615-3622.	4.0	56
10	Cyclization-Induced Turn-On Fluorescence System Applicable to Dicarboxylate Sensing. Chemistry - A European Journal, 2014, 20, 381-384.	1.7	56
11	Designing Novel pH-Induced Chitosan-Gum Odina Complex Coacervates for Colon Targeting. Industrial & Engineering Chemistry Research, 2013, 52, 15728-15745.	1.8	51
12	A Chiral Recognition System Orchestrated by Self-Assembly: Molecular Chirality, Self-Assembly Morphology, and Fluorescence Response. Angewandte Chemie - International Edition, 2017, 56, 12518-12522.	7.2	51
13	Bicomponent Hydrogels of Lumichrome and Melamine: Photoluminescence Property and Its Dependency on pH and Temperature. Journal of Physical Chemistry B, 2010, 114, 11454-11461.	1.2	49
14	Melamine sensing through riboflavin stabilized gold nanoparticles. Analyst, The, 2011, 136, 67-70.	1.7	49
15	Selective colorimetric sensing of mercury(ii) using turn off-turn on mechanism from riboflavin stabilized silver nanoparticles in aqueous medium. Analyst, The, 2011, 136, 3605.	1.7	48
16	Variation of physical and mechanical properties in the bicomponent hydrogels of melamine with positional isomers of hydroxybenzoic acid. Soft Matter, 2011, 7, 8067.	1.2	36
17	Molecular Architectonics-Guided Fabrication of Superhydrophobic and Self-Cleaning Materials. Advanced Materials Interfaces, 2020, 7, 2000246.	1.9	35
18	A light harvesting Bi-component hydrogel with a riboflavin acceptor. Chemical Communications, 2012, 48, 10850.	2.2	33

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19	Emergent Molecular Recognition through Self-Assembly: Unexpected Selectivity for Hyaluronic Acid among Glycosaminoglycans. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5708-5712.	7.2	30
20	A thixotropic supramolecular hydrogel of adenine and riboflavin-5 [′] -phosphate sodium salt showing enhanced fluorescence properties. <i>Soft Matter</i> , 2014, 10, 5114.	1.2	29
21	Metastability in a bi-component hydrogel of thymine and 6-methyl-1,3,5-triazine-2,4-diamine: ultrasound induced vs. thermo gelation. <i>Soft Matter</i> , 2012, 8, 2366.	1.2	28
22	Rheological and fluorescent properties of riboflavin-poly(N-isopropylacrylamide) hybrid hydrogel with a potentiality of forming Ag nanoparticle. <i>RSC Advances</i> , 2014, 4, 54684-54693.	1.7	28
23	A Co-assembled Gel of a Pyromellitic Dianhydride Derivative and Polyaniline with Optoelectronic and Photovoltaic Properties. <i>Langmuir</i> , 2014, 30, 7547-7555.	1.6	28
24	Tailoring of the desired selectivity and the turn-on detection range in a self-assembly-based fluorescence sensory system. <i>Chemical Science</i> , 2015, 6, 3863-3867.	3.7	26
25	Bicomponent 2D-sheet assembly of dipeptide fluorophores of opposite polarity and sensitive detection of nitro-explosives. <i>Chemical Communications</i> , 2018, 54, 2280-2283.	2.2	26
26	Effect of complementary small molecules on the properties of bicomponent hydrogel of riboflavin. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 770-776.	1.5	25
27	Translation of Dicarboxylate Structural Information to Fluorometric Optical Signals through Self-Assembly of Guanidinium-Tethered Oligophenylenevinylene. <i>Chemistry - A European Journal</i> , 2014, 20, 13938-13944.	1.7	24
28	Nucleotide sensing with a perylene-based molecular receptor via amplified fluorescence quenching. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 561-565.	1.5	24
29	Bi-component hydrogel of perylene-3,4,9,10-tetracarboxylic potassium salt and L-tyrosine. <i>RSC Advances</i> , 2012, 2, 264-272.	1.7	20
30	Molecular recognition directed supramolecular control over perylene-bisimide aggregation resulting in aggregation induced enhanced emission (AIEE) and induced chiral amplification. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2310-2318.	2.7	20
31	Sensing of Hg ²⁺ and Ag ⁺ through a pH dependent FRET system: Fabrication of molecular logic gates. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 349-355.	4.0	19
32	Stimuli-responsive, thixotropic bicomponent hydrogel of melamine-Zn(II)-orotate complex. <i>Supramolecular Chemistry</i> , 2013, 25, 335-343.	1.5	14
33	Design of a Hypersensitive pH-Sensory System Created by a Combination of Charge Neutralization and Aggregation-Induced Emission (AIE). <i>Chemistry - A European Journal</i> , 2017, 23, 17663-17666.	1.7	14
34	Ratiometric Sensing of D-Glucose in a Combined Approach of Aggregation-induced Emission (AIE) and Dynamic Covalent Bond Formation. <i>Chemistry Letters</i> , 2016, 45, 702-704.	0.7	11
35	Emergent Molecular Recognition through Self-Assembly: Unexpected Selectivity for Hyaluronic Acid among Glycosaminoglycans. <i>Angewandte Chemie</i> , 2016, 128, 5802-5806.	1.6	11
36	Molecular Architectonics of Cyclic Dipeptide Amphiphiles and Their Application in Drug Delivery. <i>ACS Applied Bio Materials</i> , 2020, 3, 3413-3422.	2.3	11

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37	Adaptive Self-Assembly Behavior Restrained by Supramolecular Crystallization and Molecular Recognition. <i>Chemistry - A European Journal</i> , 2017, 23, 1937-1941.	1.7	9
38	A Chiral Recognition System Orchestrated by Self-Assembly: Molecular Chirality, Self-Assembly Morphology, and Fluorescence Response. <i>Angewandte Chemie</i> , 2017, 129, 12692-12696.	1.6	9
39	Intrinsic Role of Molecular Architectonics in Enhancing the Catalytic Activity of Lead in Glucose Hydrolysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14057-14063.	4.0	8
40	One-pot Optical Sensing of Keto Acids through the Combination of the Oxime-click Reaction and Aggregation-induced Emission (AIE). <i>Chemistry Letters</i> , 2015, 44, 812-814.	0.7	6
41	Amplified fluorescence emission of bolaamphiphilic perylene-azacrown ether derivatives directed towards molecular recognition events. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13239-13245.	1.3	6
42	Cohelical Crossover Network by Supramolecular Polymerization of a 4,6-Acetalized β -1,3-Glucan Macromer. <i>ACS Macro Letters</i> , 2017, 6, 21-26.	2.3	6
43	Molecular-Architectonics-Guided Dynamic Assembly to Generate Fluorescent Organic Nanoclusters with Implications for Optical Imaging. <i>ACS Applied Nano Materials</i> , 2021, 4, 979-984.	2.4	4
44	Conformation Control of a Conjugated Polymer through Complexation with Bile Acids Generates Its Novel Spectral and Morphological Properties. <i>Langmuir</i> , 2016, 32, 12403-12412.	1.6	0
45	A Facile Supramolecular Approach towards Strategic Fluorescence Switching and Recognition-controlled Photoreduction. <i>ChemPhotoChem</i> , 2018, 2, 67-71.	1.5	0