

Damayanti Bagchi

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

613
citations

516710

16
h-index

610901

24
g-index

29
all docs

29
docs citations

29
times ranked

741
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of nanohybrids toward improving therapeutic potential of a NIR photo-sensitizer: An optical spectroscopic and computational study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 424, 113610.	3.9	6
2	Tetracycline Encapsulated in Au Nanoparticle-Decorated ZnO Nanohybrids for Enhanced Antibacterial Activity. <i>ACS Applied Nano Materials</i> , 2022, 5, 4484-4492.	5.0	19
3	Effect of solvent on the photophysical properties of isoxazole derivative of curcumin: A combined spectroscopic and theoretical study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113164.	3.9	11
4	Solvent dependent photophysical study of stable and medicinally active diketone modified pyrazole derivatives of curcumin: A spectroscopic study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 416, 113337.	3.9	3
5	The Role of Imidazolium-Based Surface-Active Ionic Liquid to Restrain the Excited-State Intramolecular H-Atom Transfer Dynamics of Medicinal Pigment Curcumin: A Theoretical and Experimental Approach. <i>ACS Omega</i> , 2020, 5, 25582-25592.	3.5	17
6	Wide bandgap semiconductor-based novel nanohybrid for potential antibacterial activity: ultrafast spectroscopy and computational studies. <i>RSC Advances</i> , 2020, 10, 38890-38899.	3.6	9
7	Nonthermal Atmospheric Plasma-Induced Cellular Envelope Damage of <i>Staphylococcus aureus</i> and <i>Candida albicans</i> Biofilms: Spectroscopic and Biochemical Investigations. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 2768-2776.	1.3	2
8	Combating Essential Metal Toxicity: Key Information from Optical Spectroscopy. <i>ACS Omega</i> , 2020, 5, 15666-15672.	3.5	25
9	Protein assembled nano-vehicle entrapping photosensitizer molecules for efficient lung carcinoma therapy. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119192.	5.2	5
10	A combined spectroscopic and ab initio study of the transmetalation of a polyphenol as a potential purification strategy for food additives. <i>RSC Advances</i> , 2020, 10, 5636-5647.	3.6	7
11	Nano-MOFs as targeted drug delivery agents to combat antibiotic-resistant bacterial infections. <i>Royal Society Open Science</i> , 2020, 7, 200959.	2.4	29
12	Improvement of Photostability and NIR Activity of Cyanine Dye through Nanohybrid Formation: Key Information from Ultrafast Dynamical Studies. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7550-7557.	2.5	24
13	Surface Engineered ZnO-Humic/Citrate Interfaces: Photoinduced Charge Carrier Dynamics and Potential Application for Smart and Sustained Delivery of Zn Micronutrient. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10920-10930.	6.7	12
14	Exploration of interfacial dynamics in squaraine based nanohybrids for potential photodynamic action. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 380, 111842.	3.9	12
15	Nano MOF Entrapping Hydrophobic Photosensitizer for Dual-Stimuli-Responsive Unprecedented Therapeutic Action against Drug-Resistant Bacteria. <i>ACS Applied Bio Materials</i> , 2019, 2, 1772-1780.	4.6	45
16	Enhanced Water Stability and Photoresponsivity in Metal-Organic Framework (MOF): A Potential Tool to Combat Drug-resistant Bacteria. <i>Scientific Reports</i> , 2019, 9, 19372.	3.3	76
17	Photo-triggered destabilization of nanoscopic vehicles by dihydroindolizine for enhanced anticancer drug delivery in cervical carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 202-211.	5.0	31
18	NIR-Light-Active ZnO-Based Nanohybrids for Bacterial Biofilm Treatment. <i>ACS Omega</i> , 2018, 3, 10877-10885.	3.5	37

#	ARTICLE	IF	CITATIONS
19	Ultrafast dynamics-driven biomolecular recognition where fast activities dictate slow events. <i>Journal of Biosciences</i> , 2018, 43, 485-498.	1.1	0
20	Bimetallic zeolitic imidazolate framework as an active excipient of curcumin under physiological condition. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 055004.	1.2	16
21	Ultrafast dynamics-driven biomolecular recognition where fast activities dictate slow events. <i>Journal of Biosciences</i> , 2018, 43, 485-498.	1.1	0
22	Essential Dynamics of an Effective Phototherapeutic Drug in a Nanoscopic Delivery Vehicle: Psoralen in Ethosomes for Biofilm Treatment. <i>ACS Omega</i> , 2017, 2, 1850-1857.	3.5	18
23	Sensitized ZnO nanorod assemblies to detect heavy metal contaminated phytomedicines: spectroscopic and simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2503-2513.	2.8	26
24	Enhanced charge separation through modulation of defect-state in wide band-gap semiconductor for potential photocatalysis application: Ultrafast spectroscopy and computational studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 391-398.	3.9	31
25	Photoinduced Dynamics and Toxicity of a Cancer Drug in Proximity of Inorganic Nanoparticles under Visible Light. <i>ChemPhysChem</i> , 2016, 17, 270-277.	2.1	24
26	Citrate functionalized Mn ₃ O ₄ in nanotherapy of hepatic fibrosis by oral administration. <i>Future Science OA</i> , 2016, 2, FSO146.	1.9	45
27	Allosteric Inhibitory Molecular Recognition of a Photochromic Dye by a Digestive Enzyme: Dihydroindolizine makes α -chymotrypsin Photo-responsive. <i>Scientific Reports</i> , 2016, 6, 34399.	3.3	24
28	Sensitization of an Endogenous Photosensitizer: Electronic Spectroscopy of Riboflavin in the Proximity of Semiconductor, Insulator, and Metal Nanoparticles. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4162-4169.	2.5	21
29	Modulation of stability and functionality of a phyto-antioxidant by weakly interacting metal ions: curcumin in aqueous solution. <i>RSC Advances</i> , 2015, 5, 102516-102524.	3.6	38