

Damayanti Bagchi

List of Publications by Year in descending order

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29
papers

613
citations

516710

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29
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29
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741
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	NIR-Light-Active ZnO-Based Nanohybrids for Bacterial Biofilm Treatment. <i>ACS Omega</i> , 2018, 3, 10877-10885.	3.5	37
6	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
7	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
8	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
9	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
10	Combating Essential Metal Toxicity: Key Information from Optical Spectroscopy. <i>ACS Omega</i> , 2020, 5, 15666-15672.	3.5	25
11	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
12	Allosteric Inhibitory Molecular Recognition of a Photochromic Dye by a Digestive Enzyme: Dihydroindolizine makes Î±-chymotrypsin Photo-responsive. <i>Scientific Reports</i> , 2016, 6, 34399.	3.3	24
13	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
14	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
15	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
16	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
17	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
18	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

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19	Surface Engineered ZnO-Humic/Citrate Interfaces: Photoinduced Charge Carrier Dynamics and Potential Application for Smart and Sustained Delivery of Zn Micronutrient. ACS Sustainable Chemistry and Engineering, 2019, 7, 10920-10930.	6.7	12
20	Exploration of interfacial dynamics in squaraine based nano hybrids for potential photodynamic action. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 380, 111842.	3.9	12
21	Effect of solvent on the photophysical properties of isoxazole derivative of curcumin: A combined spectroscopic and theoretical study. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 410, 113164.	3.9	11
22	Wide bandgap semiconductor-based novel nano hybrid for potential antibacterial activity: ultrafast spectroscopy and computational studies. RSC Advances, 2020, 10, 38890-38899.	3.6	9
23	A combined spectroscopic and ab initio study of the transmetalation of a polyphenol as a potential purification strategy for food additives. RSC Advances, 2020, 10, 5636-5647.	3.6	7
24	Fabrication of nano hybrids toward improving therapeutic potential of a NIR photo-sensitizer: An optical spectroscopic and computational study. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 424, 113610.	3.9	6
25	Protein assembled nano-vehicle entrapping photosensitizer molecules for efficient lung carcinoma therapy. International Journal of Pharmaceutics, 2020, 580, 119192.	5.2	5
26	Solvent dependent photophysical study of stable and medicinally active diketone modified pyrazole derivatives of curcumin: A spectroscopic study. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 416, 113337.	3.9	3
27	Nonthermal Atmospheric Plasma-Induced Cellular Envelope Damage of <i>Staphylococcus aureus</i> and <i>Candida albicans</i> Biofilms: Spectroscopic and Biochemical Investigations. IEEE Transactions on Plasma Science, 2020, 48, 2768-2776.	1.3	2
28	Ultrafast dynamics-driven biomolecular recognition where fast activities dictate slow events. Journal of Biosciences, 2018, 43, 485-498.	1.1	0
29	Ultrafast dynamics-driven biomolecular recognition where fast activities dictate slow events. Journal of Biosciences, 2018, 43, 485-498.	1.1	0