

Asit Baran Mandal

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,105
citations

567281

15
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption isotherms, kinetics and mechanism for the adsorption of cationic and anionic dyes onto carbonaceous particles prepared from <i>Juglans regia</i> shell biomass. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 231-242.	3.5	285
2	Facile Synthesis of Silver Nanoparticles Decorated Magnetic-Chitosan Microsphere for Efficient Removal of Dyes and Microbial Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2291-2302.	6.7	125
3	Silver-nano biohybride material: Synthesis, characterization and application in water purification. <i>Bioresource Technology</i> , 2012, 124, 495-499.	9.6	112
4	Controlled decoration of the surface with macromolecules: polymerization on a self-assembled monolayer (SAM). <i>Chemical Society Reviews</i> , 2015, 44, 3212-3243.	38.1	75
5	Amphiphile Behavior in Mixed Solvent Media I: Self-Aggregation and Ion Association of Sodium Dodecylsulfate in 1,4-Dioxane/Water and Methanol/Water Media. <i>Langmuir</i> , 2012, 28, 13830-13843.	3.5	61
6	Microbial surfactant mediated degradation of anthracene in aqueous phase by marine <i>Bacillus licheniformis</i> MTCC 5514. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2014, 4, 161-170.	4.4	59
7	NMR investigations of self-aggregation characteristics of SDS in a model assembled tri-block copolymer solution. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 154-162.	9.4	40
8	Interaction of poly (ethylene oxide)-poly (propylene oxide)-poly (ethylene oxide) triblock copolymer of molecular weight 2800 with sodium dodecylsulfate (SDS) micelles: some physicochemical studies. <i>Chemical Physics</i> , 2005, 312, 275-287.	1.9	37
9	Scalable Synthesis of Hide Substance-Chitosan-Hydroxyapatite: Novel Biocomposite from Industrial Wastes and Its Efficiency in Dye Removal. <i>ACS Omega</i> , 2018, 3, 11486-11496.	3.5	37
10	Physicochemical perspectives (aggregation, structure and dynamics) of interaction between pluronic (L31) and surfactant (SDS). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30560-30569.	2.8	29
11	Polyethylene Glycol-Modified Layered Double Hydroxides: Synthesis, Characterization, and Study on Adsorption Characteristics for Removal of Acid Orange II from Aqueous Solution. <i>ACS Omega</i> , 2019, 4, 3745-3754.	3.5	28
12	Total Elimination of Polluting Chrome Shavings, Chrome, and Dye Exhaust Liquors of Tannery by a Method Using Keratin Hydrolysate. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1348-1358.	6.7	25
13	Click-polymerization on a self-assembled monolayer: a convenient approach to functionalize various surfaces with polytriazoles. <i>Chemical Communications</i> , 2012, 48, 12068.	4.1	24
14	The Effect of Pimelic Acid Interaction on the Mechanical and Thermal Properties of Chitosan and Collagen. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 572-582.	3.4	18
15	Influence of water-insoluble nonionic copolymer E6P39E6 on the microstructure and self-aggregation dynamics of aqueous SDS solution—NMR and SANS investigations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17577.	2.8	16
16	Vesicle to micelle transition in the ternary mixture of L121/SDS/D ₂ O: NMR, EPR and SANS studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31747-31755.	2.8	15
17	Adipic acid interaction enhances the mechanical and thermal stability of natural polymers. <i>Journal of Applied Polymer Science</i> , 2012, 125, E490.	2.6	14
18	Physicochemical Understanding of Self-Aggregation and Microstructure of a Surface-Active Ionic Liquid [C ₄ mim][C ₈ OSO ₃] Mixed with a Reverse Pluronic 10R5 (PO ₈ EO ₂₂ PO ₈). <i>ACS Omega</i> , 2018, 3, 5155-5164.	3.5	13

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19	Nanoscale functionalization of surfaces by graft-through Sonogashira polymerization. RSC Advances, 2015, 5, 4121-4125.	3.6	12
20	Experimental and Theoretical Investigations of Different Diketopyrrolopyrrole-Based Polymers. ACS Omega, 2018, 3, 11710-11717.	3.5	10
21	Incorporations of gold, silver and carbon nanomaterials to kombucha-derived bacterial cellulose: Development of antibacterial leather-like materials. Journal of the Indian Chemical Society, 2022, 99, 100278.	2.8	10
22	Phylogenetic Framework and Biosurfactant Gene Expression Analysis of Marine Bacillus spp. of Eastern Coastal Plain of Tamil Nadu. International Journal of Bacteriology, 2014, 2014, 1-10.	1.0	9
23	Click™ polymer of carbon nanotubes for superhydrophobic glass and leather. Green Materials, 2017, 5, 46-52.	2.1	9
24	Investigating the Photocatalytic Performances of Nanocomposites Containing Narrow Bandgap Copolymers and ZnO. ChemistrySelect, 2019, 4, 14214-14221.	1.5	9
25	Suberic Acid Acts as a Dissolving Agent as Well as a Crosslinker for Natural Polymers (Carbohydrate) Tj ETQq1 1 0.784314 rgBT /Overbo Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 619-629.	2.2	6
26	A comparative study of pH-responsive microcapsules from different nanocomposites. Green Materials, 2017, 5, 53-62.	2.1	6
27	Polymer brush on surface with tunable hydrophilicity using SAM formation of zwitterionic 4-vinylpyridine-based polymer. New Journal of Chemistry, 2018, 42, 2513-2519.	2.8	6
28	Interaction between sodium dodecylsulfate (SDS) and pluronic L61 in aqueous medium: assessment of the nature and morphology of the formed mixed aggregates by NMR, EPR, SANS and FF-TEM measurements. Physical Chemistry Chemical Physics, 2021, 23, 13170-13180.	2.8	6
29	Exploring the dual role of 1,5-di-carboxylic acids in the preparation of collagen based biomaterial. Journal of Porous Materials, 2013, 20, 647-661.	2.6	5
30	Adsorption of Acid Dyes on Hydrotalcite-Like Anionic Clays. Key Engineering Materials, 0, 571, 57-69.	0.4	4
31	Power Ultrasound Assisted in-situ Reinforcement of Nano-Composite From μ -caprolactam/TiO ₂ . Polymer-Plastics Technology and Engineering, 2012, 51, 487-492.	1.9	0
32	Biotransformation of soybean oil to a self-healing biopolymer. Biocatalysis and Biotransformation, 2015, 33, 29-37.	2.0	0