Arijit Bose

List of Publications by Year in descending order

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57 papers	1,734 citations	257450 24 h-index	276875 41 g-index
57 all docs	57 docs citations	57 times ranked	2298 citing authors

#	Article	IF	Citations
1	Release of Surfactant Cargo from Interfacially-Active Halloysite Clay Nanotubes for Oil Spill Remediation. Langmuir, 2014, 30, 13533-13541.	3.5	129
2	Dynamics of Micelleâ^'Vesicle Transitions in Aqueous Anionic/Cationic Surfactant Mixtures. Langmuir, 1997, 13, 6931-6940.	3.5	113
3	Microstructure and rheology of particle stabilized emulsions: Effects of particle shape and inter-particle interactions. Journal of Colloid and Interface Science, 2017, 485, 11-17.	9.4	98
4	Attachment of a Hydrophobically Modified Biopolymer at the Oilâ€"Water Interface in the Treatment of Oil Spills. ACS Applied Materials & Interfaces, 2013, 5, 3572-3580.	8.0	97
5	Two-Dimensional Materials as Emulsion Stabilizers: Interfacial Thermodynamics and Molecular Barrier Properties. Langmuir, 2014, 30, 3687-3696.	3.5	95
6	Oil Emulsification Using Surface-Tunable Carbon Black Particles. ACS Applied Materials & Interfaces, 2013, 5, 3094-3100.	8.0	94
7	Massive Electrical Conductivity Enhancement of Multilayer Graphene/Polystyrene Composites Using a Nonconductive Filler. ACS Applied Materials & Interfaces, 2014, 6, 16472-16475.	8.0	74
8	Mesophase separation and probe dynamics in proteinâ€"polyelectrolyte coacervates. Soft Matter, 2007, 3, 1064-1076.	2.7	70
9	The Response of Carbon Black Stabilized Oil-in-Water Emulsions to the Addition of Surfactant Solutions. Langmuir, 2013, 29, 6790-6797.	3.5	65
10	Enthalpy Measurements in Aqueous SDS/DTAB Solutions Using Isothermal Titration Microcalorimetry. Langmuir, 1998, 14, 4081-4087.	3.5	61
11	Interfacial adsorption and surfactant release characteristics of magnetically functionalized halloysite nanotubes for responsive emulsions. Journal of Colloid and Interface Science, 2016, 463, 288-298.	9.4	51
12	Biofilm Formation by Hydrocarbon-Degrading Marine Bacteria and Its Effects on Oil Dispersion. ACS Sustainable Chemistry and Engineering, 2019, 7, 14490-14499.	6.7	49
13	Platelet Self-Assembly of an Amphiphilic Aâ^'Bâ^'Câ^'A Tetrablock Copolymer in Pure Water. Macromolecules, 2005, 38, 3567-3570.	4.8	48
14	Low-dose chemotherapy of hepatocellular carcinoma through triggered-release from bilayer-decorated magnetoliposomes. Colloids and Surfaces B: Biointerfaces, 2014, 116, 452-458.	5.0	41
15	Tuning the Wettability of Halloysite Clay Nanotubes by Surface Carbonization for Optimal Emulsion Stabilization. Langmuir, 2015, 31, 13700-13707.	3.5	40
16	Destabilization of Oil-in-Water Emulsions Stabilized by Non-ionic Surfactants: Effect of Particle Hydrophilicity. Langmuir, 2016, 32, 10694-10698.	3.5	33
17	Targeted and Stimulus-Responsive Delivery of Surfactant to the Oilâ€"Water Interface for Applications in Oil Spill Remediation. ACS Applied Materials & Interfaces, 2020, 12, 1840-1849.	8.0	33
18	Rayleighâ€"Bèınard and interfacial instabilities in two immiscible liquid layers. Physics of Fluids, 1988, 31, 3502.	1.4	30

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19	Towards reducing carbon content in silicon/carbon anodes for lithium ion batteries. Carbon, 2017, 112, 72-78.	10.3	30
20	Interaction of Cyanobacteria with Nanometer and Micron Sized Polystyrene Particles in Marine and Fresh Water. Langmuir, 2020, 36, 3963-3969.	3.5	30
21	High Capacity, Stable Silicon/Carbon Anodes for Lithium-Ion Batteries Prepared Using Emulsion-Templated Directed Assembly. ACS Applied Materials & Interfaces, 2014, 6, 4678-4683.	8.0	29
22	Attachment of Alcanivorax borkumensis to Hexadecane-In-Artificial Sea Water Emulsion Droplets. Langmuir, 2018, 34, 5352-5357.	3.5	27
23	The influence of viscoelasticity on the existence of steady solutions in two-dimensional rimming flow. Journal of Fluid Mechanics, 1992, 235, 611.	3.4	25
24	Numerical investigation of boundary conditions for moving contact line problems. Physics of Fluids, 2000, 12, 499-510.	4.0	24
25	Interaction of Alcanivorax borkumensis with a Surfactant Decorated Oilâ€“Water Interface. Langmuir, 2015, 31, 5875-5881.	3.5	24
26	Near-Infrared Responsive Goldâ€“Layersome Nanoshells. Langmuir, 2017, 33, 5321-5327.	3.5	23
27	In Situ Assembly of Hydrophilic and Hydrophobic Nanoparticles at Oilâ€“Water Interfaces as a Versatile Strategy To Form Stable Emulsions. ACS Applied Materials & Interfaces, 2015, 7, 21010-21014.	8.0	21
28	Removal of As(V) and Cr(VI) Ions from Aqueous Solution using a Continuous, Hybrid Fieldâ€Gradient Magnetic Separation Device. Separation Science and Technology, 2006, 41, 3297-3312.	2.5	20
29	Behavior of Marine Bacteria in Clean Environment and Oil Spill Conditions. Langmuir, 2018, 34, 9047-9053.	3.5	20
30	Investigation of wetting hydrodynamics using numerical simulations. Physics of Fluids, 1996, 8, 302-309.	4.0	19
31	An insight into the growth of Alcanivorax borkumensis under different inoculation conditions. Journal of Petroleum Science and Engineering, 2015, 129, 153-158.	4.2	19
32	Stoppers and Skins on Clay Nanotubes Help Stabilize Oil-in-Water Emulsions and Modulate the Release of Encapsulated Surfactants. ACS Applied Nano Materials, 2019, 2, 3490-3500.	5.0	19
33	All-Aqueous Directed Assembly Strategy for Forming High-Capacity, Stable Silicon/Carbon Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 21391-21397.	8.0	16
34	Microstructural characteristics of surfactant assembly into a gel-like mesophase for application as an oil spill dispersant. Journal of Colloid and Interface Science, 2018, 524, 279-288.	9.4	13
35	Synthesis of aluminum hydroxide nanoparticles in spontaneously generated vesicles. Journal of Materials Research, 1993, 8, 573-577.	2.6	12
36	Radio Frequency-Activated Nanoliposomes for Controlled Combination Drug Delivery. AAPS PharmSciTech, 2015, 16, 1335-1343.	3.3	12

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37	Patchy Layersomes Formed by Layer-by-Layer Coating of Liposomes with Strong Biopolyelectrolytes. Biomacromolecules, 2016, 17, 3838-3844.	5.4	12
38	Phase and Steady Shear Behavior of Dilute Carbon Black Suspensions and Carbon Black Stabilized Emulsions. Langmuir, 2014, 30, 15400-15407.	3.5	11
39	The impact of an oil droplet on an oil layer on water. Journal of Fluid Mechanics, 2021, 906, .	3.4	10
40	Hydrophobically modified chitosan biopolymer connects halloysite nanotubes at the oil-water interface as complementary pair for stabilizing oil droplets. Journal of Colloid and Interface Science, 2022, 620, 135-143.	9.4	10
41	Magnetic colloid mediated recovery of cadmium ions from an aqueous solution using a flow-through hybrid field-gradient device. Separation Science and Technology, 2002, 37, 555-569.	2.5	9
42	Nanostructured Materials Synthesis in a Mixed Surfactant Mesophase. Journal of Dispersion Science and Technology, 2002, 23, 441-452.	2.4	9
43	Highly conductive graphene-based segregated composites prepared by particle templating. Journal of Materials Science, 2014, 49, 2567-2570.	3.7	9
44	Carbon Black Templated Gold Nanoparticles for Detection of a Broad Spectrum of Analytes by Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2020, 3, 2605-2613.	5.0	9
45	Coreâ€“shell rubbery fillers for massive electrical conductivity enhancement and toughening of polystyreneâ€“graphene nanoplatelet composites. Journal of Materials Science, 2016, 51, 10555-10560.	3.7	8
46	Interfacial stability of binary mixtures evaporating at reduced pressure. Journal of Fluid Mechanics, 1983, 126, 491-506.	3.4	7
47	A Flow-Through, Hybrid Magnetic-Field-Gradient, Rotating Wall Device for Magnetic Colloidal Separations. Separation Science and Technology, 2000, 35, 1813-1828.	2.5	6
48	Synthesis of Co-Electrospun Lead Selenide Nanostructures within Anatase Titania Nanotubes for Advanced Photovoltaics. Fibers, 2015, 3, 173-183.	4.0	5
49	Impact of Nearly Water-Insoluble Additives on the Properties of Vesicular Suspensions. Industrial & Engineering Chemistry Research, 2017, 56, 899-906.	3.7	5
50	Massive and sustained enhancement of the electrical conductivity of polystyrene using multilayer graphene at Low loadings, and carbon black as a dispersion aid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123727.	4.7	5
51	Rheological and microstructural characterization of aqueous suspensions of carbon black and reduced graphene oxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 592, 124591.	4.7	5
52	Hexagonally patterned mixed surfactant-templated room temperature synthesis of titaniaâ€“lead selenide nanocomposites. Advanced Composites and Hybrid Materials, 2018, 1, 389-396.	21.1	4
53	Lead Selenide Nanostructures Self-Assembled across Multiple Length Scales and Dimensions. Journal of Nanomaterials, 2016, 2016, 1-6.	2.7	3
54	Synthesis of Nanoceramic Particles by Intravesicular Precipitation. Materials Research Society Symposia Proceedings, 1990, 180, 637.	0.1	1

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55	Electric field induced variations in the wettability of stainless steel by ionic surfactant and electrolyte solutions. Journal of Adhesion Science and Technology, 1993, 7, 519-534.	2.6	1
56	Influence of the Oil on the Structure and Electrochemical Performance of Emulsion-Templated Tin/Carbon Anodes for Lithium Ion Batteries. Langmuir, 2017, 33, 8869-8876.	3.5	1
57	Oscillatory Morphological Instabilities During Rapid Solidification A The Role of Diffusion In The Solid. Materials Research Society Symposia Proceedings, 1985, 51, 191.	0.1	0