

Dibakar Bhattacharyya

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,817
citations

201674

27
h-index

175258

52
g-index

64
all docs

64
docs citations

64
times ranked

3731
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid removal of PFOA and PFOS via modified industrial solid waste: Mechanisms and influences of water matrices. <i>Chemical Engineering Journal</i> , 2022, 433, 133271.	12.7	16
2	Demonstration of Hollow Fiber Membrane-Based Enclosed Space Air Remediation for Capture of an Aerosolized Synthetic SARS-CoV-2 Mimic and Pseudovirus Particles. <i>ACS ES&T Engineering</i> , 2022, 2, 251-262.	7.6	9
3	Gravity-driven electrospun membranes for effective removal of perfluoro-organics from synthetic groundwater. <i>Journal of Membrane Science</i> , 2022, 644, 120180.	8.2	14
4	Dual-Functional Nanofiltration and Adsorptive Membranes for PFAS and Organics Separation from Water. <i>ACS ES&T Water</i> , 2022, 2, 863-872.	4.6	9
5	Aerosol capture and coronavirus spike protein deactivation by enzyme functionalized antiviral membranes. <i>Communications Materials</i> , 2022, 3, .	6.9	6
6	Positively charged nanofiltration membrane synthesis, transport models, and lanthanides separation. <i>Journal of Membrane Science</i> , 2021, 620, 118973.	8.2	27
7	Effect of silica-core gold-shell nanoparticles on the kinetics of biohydrogen production and pollutant hydrogenation via organic acid photofermentation over enhanced near-infrared illumination. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7821-7835.	7.1	16
8	Pd/Fe nanoparticle integrated PMAA-PVDF membranes for chloro-organic remediation from synthetic and site groundwater. <i>Journal of Membrane Science</i> , 2020, 594, 117454.	8.2	29
9	Selective molecular separation of lignin model compounds by reduced graphene oxide membranes from solvent-water mixture. <i>Separation and Purification Technology</i> , 2020, 230, 115865.	7.9	9
10	Thiol-Functionalized Membranes for Mercury Capture from Water. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5287-5295.	3.7	7
11	Enhanced permselective separation of per-fluorooctanoic acid in graphene oxide membranes by a simple PEI modification. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24800-24811.	10.3	34
12	Mercury Removal from Wastewater Using Cysteamine Functionalized Membranes. <i>ACS Omega</i> , 2020, 5, 22255-22267.	3.5	20
13	Nanoporous metal-polymer composite membranes for organics separations and catalysis. <i>Journal of Materials Research</i> , 2020, 35, 2629-2642.	2.6	0
14	Thermoresponsive PNIPAm-PMMA-Functionalized PVDF Membranes with Reactive Fe-Pd Nanoparticles for PCB Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16614-16625.	3.7	18
15	Thermo-responsive adsorption-desorption of perfluoroorganics from water using PNIPAm hydrogels and pore functionalized membranes. <i>Journal of Membrane Science</i> , 2020, 599, 117821.	8.2	45
16	Reductive degradation of CCl ₄ by sulfidized Fe and Pd-Fe nanoparticles: Kinetics, longevity, and morphology aspects. <i>Chemical Engineering Journal</i> , 2020, 394, 125013.	12.7	17
17	Ion and organic transport in Graphene oxide membranes: Model development to difficult water remediation applications. <i>Journal of Membrane Science</i> , 2020, 604, 118024.	8.2	12
18	Composite Membranes Derived from Cellulose and Lignin Sulfonate for Selective Separations and Antifouling Aspects. <i>Nanomaterials</i> , 2019, 9, 867.	4.1	22

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19	Reduced graphene oxide-metal nanoparticle composite membranes for environmental separation and chloro-organic remediation. RSC Advances, 2019, 9, 38547-38557.	3.6	9
20	<i>Rhodospseudomonas palustris</i> -based conversion of organic acids to hydrogen using plasmonic nanoparticles and near-infrared light. RSC Advances, 2019, 9, 41218-41227.	3.6	13
21	Immobilized palladium-catalyzed electro-Fenton's degradation of chlorobenzene in groundwater. Chemosphere, 2019, 216, 556-563.	8.2	26
22	Solvent Transport Behavior of Shear Aligned Graphene Oxide Membranes and Implications in Organic Solvent Nanofiltration. ACS Applied Materials & Interfaces, 2018, 10, 2067-2074.	8.0	62
23	Role of membrane pore polymerization conditions for pH responsive behavior, catalytic metal nanoparticle synthesis, and PCB degradation. Journal of Membrane Science, 2018, 555, 348-361.	8.2	33
24	Synthesis of Catalytic Nanoporous Metallic Thin Films on Polymer Membranes. Industrial & Engineering Chemistry Research, 2018, 57, 4420-4429.	3.7	8
25	Multienzyme Immobilized Polymeric Membrane Reactor for the Transformation of a Lignin Model Compound. Polymers, 2018, 10, 463.	4.5	15
26	Synthesis of graphene oxide membranes and their behavior in water and isopropanol. Carbon, 2017, 116, 145-153.	10.3	53
27	Pore functionalized PVDF membranes with in-situ synthesized metal nanoparticles: Material characterization, and toxic organic degradation. Journal of Membrane Science, 2017, 530, 147-157.	8.2	47
28	Dual-Functional-Tag-Facilitated Protein Labeling and Immobilization. ACS Omega, 2017, 2, 522-528.	3.5	4
29	Layer-by-Layer-Assembled Laccase Enzyme on Stimuli-Responsive Membranes for Chloro-Organics Degradation. ACS Applied Materials & Interfaces, 2017, 9, 14858-14867.	8.0	62
30	Naphthenic acids removal from high TDS produced water by persulfate mediated iron oxide functionalized catalytic membrane, and by nanofiltration. Chemical Engineering Journal, 2017, 327, 573-583.	12.7	27
31	Layer-by-layer assembled membranes with immobilized porins. RSC Advances, 2017, 7, 56123-56136.	3.6	11
32	Development of PVDF Membrane Nanocomposites via Various Functionalization Approaches for Environmental Applications. Polymers, 2016, 8, 32.	4.5	21
33	High Total Dissolved Solids Water Treatment by Charged Nanofiltration Membranes Relating to Power Plant Applications. Industrial & Engineering Chemistry Research, 2016, 55, 4089-4097.	3.7	23
34	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. Scientific Reports, 2016, 6, 20142.	3.3	136
35	Large-area graphene-based nanofiltration membranes by shear alignment of discotic nematic liquid crystals of graphene oxide. Nature Communications, 2016, 7, 10891.	12.8	557
36	Nanocomposite and Responsive Membranes for Water Treatment. , 2016, , 389-431.		5

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37	Functionalization of Flat Sheet and Hollow Fiber Microfiltration Membranes for Water Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 907-918.	6.7	34
38	Engineered iron/iron oxide functionalized membranes for selenium and other toxic metal removal from power plant scrubber water. Journal of Membrane Science, 2015, 488, 79-91.	8.2	69
39	Polymerization and Functionalization of Membrane Pores for Water Related Applications. Industrial & Engineering Chemistry Research, 2015, 54, 4174-4182.	3.7	47
40	Modulation of persistent organic pollutant toxicity through nutritional intervention: Emerging opportunities in biomedicine and environmental remediation. Science of the Total Environment, 2014, 491-492, 11-16.	8.0	37
41	Iron-Based Redox Polymerization of Acrylic Acid for Direct Synthesis of Hydrogel/Membranes and Metal Nanoparticles for Water Treatment. Industrial & Engineering Chemistry Research, 2014, 53, 1130-1142.	3.7	32
42	Development of bench and full-scale temperature and pH responsive functionalized PVDF membranes with tunable properties. Journal of Membrane Science, 2014, 457, 39-49.	8.2	42
43	Temperature responsive hydrogel with reactive nanoparticles. Journal of Applied Polymer Science, 2013, 128, 1804-1814.	2.6	17
44	Reactive Functionalized Membranes for Polychlorinated Biphenyl Degradation. Industrial & Engineering Chemistry Research, 2013, 52, 10430-10440.	3.7	32
45	Iron oxide nanoparticle synthesis in aqueous and membrane systems for oxidative degradation of trichloroethylene from water. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	47
46	Reactive nanostructured membranes for water purification. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8577-8582.	7.1	160
47	Sulfur-Functionalization of Porous Silica Particles and Application to Mercury Vapor Sorption. Industrial & Engineering Chemistry Research, 2010, 49, 4687-4693.	3.7	14
48	Degradation of Trichloroethylene by Iron-Based Bimetallic Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 9454-9464.	3.1	78
49	Modeling of Fe/Pd Nanoparticle-Based Functionalized Membrane Reactor for PCB Dechlorination at Room Temperature. Journal of Physical Chemistry C, 2008, 112, 9133-9144.	3.1	59
50	Fe/Pd Nanoparticle Immobilization in Microfiltration Membrane Pores: Synthesis, Characterization, and Application in the Dechlorination of Polychlorinated Biphenyls. Industrial & Engineering Chemistry Research, 2007, 46, 2348-2359.	3.7	137
51	Selective Isolation and Purification of Genetically Modified Tat Protein by Stacked Affinity Membrane System. FASEB Journal, 2006, 20, LB61.	0.5	0
52	Membrane-based bimetallic nanoparticles for environmental remediation: Synthesis and reactive properties. Environmental Progress, 2005, 24, 358-366.	0.7	103
53	Synthesis of Nanoscale Bimetallic Particles in Polyelectrolyte Membrane Matrix for Reductive Transformation of Halogenated Organic Compounds. Journal of Nanoparticle Research, 2005, 7, 449-467.	1.9	115
54	Orientation Specific Immobilization of Organophosphorus Hydrolase on Magnetic Particles through Gene Fusion. Biomacromolecules, 2001, 2, 700-705.	5.4	34

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55	Polycysteine and Other Polyamino Acid Functionalized Microfiltration Membranes for Heavy Metal Capture. <i>Environmental Science & Technology</i> , 2001, 35, 3252-3258.	10.0	120
56	Catalytic biofunctional membranes containing site-specifically immobilized enzyme arrays: a review. <i>Journal of Membrane Science</i> , 2001, 181, 29-37.	8.2	114
57	Activity Studies of Immobilized Subtilisin on Functionalized Pure Cellulose-Based Membranes. <i>Biotechnology Progress</i> , 2001, 17, 866-871.	2.6	22
58	Electrochemical Assay for Highly Charged Polyamino Acids: Application to Polyamino Acid Functionalized Microfiltration Membranes. <i>Electroanalysis</i> , 2000, 12, 1368-1372.	2.9	6
59	Kinetics and Active Fraction Determination of a Protease Enzyme Immobilized on Functionalized Membranes: Mathematical Modeling and Experimental Results. <i>Biotechnology Progress</i> , 1998, 14, 865-873.	2.6	16
60	HDPE liquefaction: Random chain scission model. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1239-1251.	2.6	20
61	HDPE liquefaction: Random chain scission model. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1239-1251.	2.6	2
62	Kinetic Studies of Site-Specifically and Randomly Immobilized Alkaline Phosphatase on Functionalized Membranes. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 68, 294-302.	3.2	31
63	Immobilized Enzyme Reactions on Beads and Membranes. , 1996, , 117-129.		2
64	Chitosan Membranes with Nanoparticles for Remediation of Chlorinated Organics. , 0, , 189-216.		5