Baolin Deng

List of Publications by Year
in descending order

Version: 2024-02-01

134 papers	9,123 citations	50170 46 h-index	39575 94 g-index
134 all docs	134 docs citations	134 times ranked	10183 citing authors

#	Article	IF	Citations
1	Omniphobic Polyvinylidene Fluoride Membrane Decorated with a ZnO Nano Sea Urchin Structure: Performance Against Surfactant-Wetting in Membrane Distillation. Industrial & Engineering Chemistry Research, 2022, 61, 2237-2244.	1.8	7
2	Enhanced arsenic removal from water by mass re-equilibrium: kinetics and performance evaluation in a binary-adsorbent system. Water Research, 2021, 190, 116676.	5.3	13
3	A versatile solar-powered vapor generating membrane for multi-media purification. Separation and Purification Technology, 2021, 260, 117952.	3.9	15
4	Arsenate removal by reactive mixed matrix PVDF hollow fiber membranes with UIO-66 metal organic frameworks. Chemical Engineering Journal, 2020, 382, 122921.	6.6	57
5	Antibiotic enhanced dopamine polymerization for engineering antifouling and antimicrobial membranes. Chinese Chemical Letters, 2020, 31, 851-854.	4.8	46
6	Unraveling the filmâ€formation kinetics of interfacial polymerization via low coherence interferometry. AICHE Journal, 2020, 66, e16863.	1.8	12
7	Effects of the Substrate on Interfacial Polymerization: Tuning the Hydrophobicity via Polyelectrolyte Deposition. Membranes, 2020, 10, 259.	1.4	10
8	Probing the Contributions of Interior and Exterior Channels of Nanofillers toward the Enhanced Separation Performance of a Thin-Film Nanocomposite Reverse Osmosis Membrane. Environmental Science and Technology Letters, 2020, 7, 766-772.	3.9	41
9	Tuning the Biodegradability of Chitosan Membranes: Characterization and Conceptual Design. ACS Sustainable Chemistry and Engineering, 2020, 8, 14484-14492.	3.2	19
10	Membrane fouling by clay suspensions during NF-like forward osmosis: Characterization via optical coherence tomography. Journal of Membrane Science, 2020, 602, 117965.	4.1	20
11	AEESP Spotlight: Late 2020. Environmental Engineering Science, 2020, 37, 715-716.	0.8	0
12	AEESP Journal Spotlight: Mid-2019. Environmental Engineering Science, 2019, 36, 760-760.	0.8	0
13	Tailoring Polyamide Rejection Layer with Aqueous Carbonate Chemistry for Enhanced Membrane Separation: Mechanistic Insights, Chemistry-Structure-Property Relationship, and Environmental Implications. Environmental Science & Technology, 2019, 53, 9764-9770.	4.6	91
14	Effects of membrane morphology on the rejection of oil droplets: Theoretical analysis based on network modeling. Journal of Membrane Science, 2019, 588, 117198.	4.1	14
15	Role of Cellulose Micro and Nano Crystals in Thin Film and Support Layer of Nanocomposite Membranes for Brackish Water Desalination. Membranes, 2019, 9, 101.	1.4	28
16	Reductive Immobilization of Hexavalent Chromium by Polysulfide-Reduced Lepidocrocite. Industrial & Engineering Chemistry Research, 2019, 58, 11920-11926.	1.8	9
17	Photocatalytic Polysulfone Hollow Fiber Membrane with Self-Cleaning and Antifouling Property for Water Treatment. Industrial & Engineering Chemistry Research, 2019, 58, 3339-3348.	1.8	8
18	Arsenate adsorption on iron-impregnated ordered mesoporous carbon: Fast kinetics and mass transfer evaluation. Chemical Engineering Journal, 2019, 357, 463-472.	6.6	27

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19	Thin film nanocomposite membranes filled with bentonite nanoparticles for brackish water desalination: A novel water uptake concept. Microporous and Mesoporous Materials, 2019, 279, 82-91.	2.2	41
20	Synthesis of high-performance thin film composite (TFC) membranes by controlling the preparation conditions: Technical notes. Journal of Water Process Engineering, 2019, 30, 100542.	2.6	29
21	Characterization of dissolved organic matter/nitrogen by fluorescence excitation-emission matrix spectroscopy and X-ray photoelectron spectroscopy for watershed management. Chemosphere, 2018, 201, 708-715.	4.2	19
22	Metal-organic frameworks (MOFs) in water filtration membranes for desalination and other applications. Applied Materials Today, 2018, 11, 219-230.	2.3	196
23	Efficient water desalination using photo-responsive ZnO polyamide thin film nanocomposite membrane. Environmental Chemistry Letters, 2018, 16, 1469-1475.	8.3	21
24	Selective hydrogenation of citral over supported Pt catalysts: insight into support effects. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	17
25	Modification of Polysulfone (PSF) Hollow Fiber Membrane (HFM) with Zwitterionic or Charged Polymers. Industrial & Engineering Chemistry Research, 2017, 56, 7576-7584.	1.8	17
26	Seven-bore hollow fiber membrane (HFM) for ultrafiltration (UF). Chemical Engineering Research and Design, 2017, 128, 240-247.	2.7	14
27	Thin Film Nanocomposite Membrane Filled with Metal-Organic Frameworks UiO-66 and MIL-125 Nanoparticles for Water Desalination. Membranes, 2017, 7, 31.	1.4	85
28	Physicoâ€€Chemical Processes. Water Environment Research, 2017, 89, 974-1028.	1.3	17
29	A Thin Film Nanocomposite Membrane with MCM-41 Silica Nanoparticles for Brackish Water Purification. Membranes, 2016, 6, 50.	1.4	32
30	Adsorption of Aqueous Mercury by Amide-Functionalized Ordered Mesoporous Carbon. Asian Journal of Chemistry, 2016, 28, 2246-2254.	0.1	0
31	Physico-Chemical Processes. Water Environment Research, 2016, 88, 966-1000.	1.3	9
32	Co-adsorption of Trichloroethylene and Arsenate by Iron-Impregnated Granular Activated Carbon. Water Environment Research, 2016, 88, 394-402.	1.3	3
33	Integrated nanotechnology for synergism and degradation of fungicide SOPP using micro/nano-Ag₃PO₄. Inorganic Chemistry Frontiers, 2016, 3, 354-364.	3.0	19
34	Graphene oxide (GO) enhanced polyamide (PA) thin-film nanocomposite (TFN) membrane for water purification. Desalination, 2016, 379, 93-101.	4.0	459
35	Silver nanoparticles in aquatic environments: Physiochemical behavior and antimicrobial mechanisms. Water Research, 2016, 88, 403-427.	5.3	252
36	Enhancing water flux of thin-film nanocomposite (TFN) membrane by incorporation of bimodal silica nanoparticles. AIMS Environmental Science, 2016, 3, 185-198.	0.7	22

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37	Antimicrobial Membrane. , 2016, , 86-88.		0
38	Chemical composition of dissolved organic matter from various sources as characterized by solid-state NMR. Aquatic Sciences, 2015, 77, 595-607.	0.6	7
39	Dialysis Pretreatment for Dissolved Organic Nitrogen Analysis in Freshwaters. Journal of Chemistry, 2015, 2015, 1-7.	0.9	1
40	Physicoâ€€Chemical Processes. Water Environment Research, 2015, 87, 912-945.	1.3	3
41	Application of nano TiO2 modified hollow fiber membranes in algal membrane bioreactors for high-density algae cultivation and wastewater polishing. Bioresource Technology, 2015, 193, 135-141.	4.8	86
42	Reducing arsenic accumulation in rice grain through iron oxide amendment. Ecotoxicology and Environmental Safety, 2015, 118, 55-61.	2.9	50
43	Fe (III)/H2O2-like system for removal of azo dye from aqueous solution. Separation Science and Technology, 2015, , 150527095459001.	1.3	1
44	Polymer-matrix nanocomposite membranes for water treatment. Journal of Membrane Science, 2015, 479, 256-275.	4.1	880
45	Physico-Chemical Processes. Water Environment Research, 2015, 87, 912-45.	1.3	0
46	Physico-Chemical Processes. Water Environment Research, 2014, 86, 992-1025.	1.3	2
47	Uranium(VI) reduction by nanoscale zero-valent iron in anoxic batch systems: The role of Fe(II) and Fe(III). Chemosphere, 2014, 117, 625-630.	4.2	28
48	Arsenic Rejection by Nanofiltration Membranes: Effect of Operating Parameters and Model Analysis. Environmental Engineering Science, 2014, 31, 496-506.	0.8	22
49	Rejection and modeling of arsenate by nanofiltration: Contributions of convection, diffusion and electromigration to arsenic transport. Journal of Membrane Science, 2014, 453, 42-51.	4.1	67
50	DOM removal by flocculation process: Fluorescence excitationâ€“emission matrix spectroscopy (EEMs) characterization. Desalination, 2014, 346, 38-45.	4.0	62
51	Antimicrobial Membrane. , 2014, , 1-3.		0
52	Multi-walled carbon nanotubes (MWNTs)/polysulfone (PSU) mixed matrix hollow fiber membranes for enhanced water treatment. Journal of Membrane Science, 2013, 437, 237-248.	4.1	173
53	Effects of Biomass Types and Carbonization Conditions on the Chemical Characteristics of Hydrochars. Journal of Agricultural and Food Chemistry, 2013, 61, 9401-9411.	2.4	115
54	Attachment of silver nanoparticles (AgNPs) onto thin-film composite (TFC) membranes through covalent bonding to reduce membrane biofouling. Journal of Membrane Science, 2013, 441, 73-82.	4.1	319

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55	Physico-Chemical Processes. Water Environment Research, 2013, 85, 963-991.	1.3	3
56	Effect of NH3plasma on thin-film composite membrane: Relationship of membrane and plasma properties. Membrane Water Treatment, 2013, 4, 109-126.	0.5	5
57	Effects of Polysulfone (PSf) Support Layer on the Performance of Thin-Film Composite (TFC) Membranes. Journal of Chemical and Process Engineering, 2013, , .	0.0	16
58	Arsenic Removal by Membrane Processes: Modeling and Applications. , 2012, , 348-381.		1
59	Groundwater Quality. Water Environment Research, 2012, 84, 1625-1641.	1.3	1
60	Fabrication of a novel thin-film nanocomposite (TFN) membrane containing MCM-41 silica nanoparticles (NPs) for water purification. Journal of Membrane Science, 2012, 423-424, 238-246.	4.1	383
61	Toxicity of carbon nanotubes to freshwater aquatic invertebrates. Environmental Toxicology and Chemistry, 2012, 31, 1823-1830.	2.2	63
62	Electrospinning and in situ nitrogen doping of TiO2/PAN nanofibers with photocatalytic activation in visible lights. Materials Letters, 2012, 82, 102-104.	1.3	18
63	Arsenic Accumulation in Rice Grains: Effects of Cultivars and Water Management Practices. Environmental Engineering Science, 2011, 28, 591-596.	0.8	31
64	Plasma surface modification of nanofiltration (NF) thin-film composite (TFC) membranes to improve anti organic fouling. Applied Surface Science, 2011, 257, 9863-9871.	3.1	89
65	Groundwater Quality. Water Environment Research, 2011, 83, 1665-1682.	1.3	4
66	Ligand-assisted degradation of carbon tetrachloride by microscale zero-valent iron. Journal of Environmental Management, 2011, 92, 1328-1333.	3.8	43
67	Toxicity of silicon carbide nanowires to sedimentâ€dwelling invertebrates in water or sediment exposures. Environmental Toxicology and Chemistry, 2011, 30, 981-987.	2.2	15
68	Fabrication of polyamide thin-film nano-composite (PA-TFN) membrane with hydrophilized ordered mesoporous carbon (H-OMC) for water purifications. Journal of Membrane Science, 2011, 375, 46-54.	4.1	135
69	Uptake of Cesium (Cs+) by Building Materials in Aqueous Batch Systems. Journal of Environmental Engineering, ASCE, 2011, 137, 990-995.	0.7	2
70	Groundwater Quality. Water Environment Research, 2010, 82, 1854-1874.	1.3	3
71	Ethylenediamine-modified activated carbon for aqueous lead adsorption. Environmental Chemistry Letters, 2010, 8, 277-282.	8.3	41
72	Parallel factor analysis of fluorescence EEM spectra to identify THM precursors in lake waters. Environmental Monitoring and Assessment, 2010, 161, 71-81.	1.3	46

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73	Electrochemical removal and release of perchlorate using poly(aniline-co-o-aminophenol). Journal of Electroanalytical Chemistry, 2010, 641, 1-6.	1.9	22
74	As(III) removal using an iron-impregnated chitosan sorbent. Journal of Hazardous Materials, 2010, 182, 156-161.	6.5	85
75	Photo-Oxidation of Cr(III)â^'Citrate Complexes Forms Harmful Cr(VI). Environmental Science & Technology, 2010, 44, 6959-6964.	4.6	89
76	Uranium(VI) Removal by Nanoscale Zerovalent Iron in Anoxic Batch Systems. Environmental Science & Technology, 2010, 44, 7783-7789.	4.6	140
77	Enhanced mercury ion adsorption by amine-modified activated carbon. Journal of Hazardous Materials, 2009, 166, 866-872.	6.5	101
78	Preparation and characterization of polyamide thin-film composite (TFC) membranes on plasma-modified polyvinylidene fluoride (PVDF). Journal of Membrane Science, 2009, 344, 71-81.	4.1	118
79	Modifying activated carbon with hybrid ligands for enhancing aqueous mercury removal. Carbon, 2009, 47, 2014-2025.	5.4	138
80	Response to Comment on â€œReductive Immobilization of Uranium(VI) by Amorphous Iron Sulfideâ€• Environmental Science & Technology, 2009, 43, 1237-1238.	4.6	5
81	Inhibition Effect of Secondary Phosphate Mineral Precipitation on Uranium Release from Contaminated Sediments. Environmental Science & Technology, 2009, 43, 8344-8349.	4.6	30
82	Adsorption of Aqueous Hg(II) by Sulfur-Impregnated Activated Carbon. Environmental Engineering Science, 2009, 26, 1693-1699.	0.8	79
83	Role of sulfide and ligand strength in controlling nanosilver toxicity. Water Research, 2009, 43, 1879-1886.	5.3	278
84	Long-Term Risk Reduction of Lead-Contaminated Urban Soil by Phosphate Treatment. Environmental Engineering Science, 2009, 26, 1747-1754.	0.8	13
85	Removal of Aqueous Hg(II) by Polyaniline: Sorption Characteristics and Mechanisms. Environmental Science & Technology, 2009, 43, 5223-5228.	4.6	301
86	Groundwater Quality. Water Environment Research, 2009, 81, 1975-1995.	1.3	1
87	Reductive Immobilization of Uranium(VI) by Amorphous Iron Sulfide. Environmental Science & Technology, 2008, 42, 8703-8708.	4.6	119
88	Enhanced Adsorption of Mercury(II) Ions from Aqueous Solution by Carbon-Based Adsorbents Containing Cl-, S- and N-functional Groups. Adsorption Science and Technology, 2008, 26, 815-826.	1.5	5
89	Groundwater Quality. Water Environment Research, 2008, 80, 1804-1826.	1.3	0
90	Water-source characterization and classification with fluorescence EEM spectroscopy: PARAFAC analysis. International Journal of Environmental Analytical Chemistry, 2007, 87, 135-147.	1.8	40

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91	Quaternized Poly(4-Vinylpyridine) Coated Activated Carbon: Diffusion Controlled Sorption of Chromium(VI). Journal of Environmental Engineering, ASCE, 2007, 133, 834-838.	0.7	5
92	Uranium Immobilization by Hydrogen Sulfide Gaseous Treatment under Vadose Zone Conditions. Vadose Zone Journal, 2007, 6, 149-157.	1.3	5
93	Kinetic study of hexavalent Cr(VI) reduction by hydrogen sulfide through goethite surface catalytic reaction. Geochemical Journal, 2007, 41, 397-405.	0.5	31
94	Radioactive Wastes. Water Environment Research, 2007, 79, 1903-1928.	1.3	0
95	Catalysis of Manganese(II) on Chromium(VI) Reduction by Citrate. Pedosphere, 2007, 17, 318-323.	2.1	65
96	Use of Iron-Containing Mesoporous Carbon (IMC) for Arsenic Removal from Drinking Water. Environmental Engineering Science, 2007, 24, 113-121.	0.8	54
97	Cr(VI) Removal from Aqueous Solution by Activated Carbon Coated with Quaternized Poly(4-vinylpyridine). Environmental Science & Technology, 2007, 41, 4748-4753.	4.6	185
98	Arsenic sorption and redox transformation on iron-impregnated ordered mesoporous carbon. Applied Organometallic Chemistry, 2007, 21, 750-757.	1.7	22
99	Synthesis and evaluation of iron-containing ordered mesoporous carbon (FeOMC) for arsenic adsorption. Microporous and Mesoporous Materials, 2007, 102, 265-273.	2.2	100
100	Influence of soil minerals on chromium(VI) reduction by sulfide under anoxic conditions. Geochemical Transactions, 2007, 8, 4.	1.8	28
101	Incorporation of Chromate into Calcium Carbonate Structure During Coprecipitation. Water, Air, and Soil Pollution, 2007, 179, 381-390.	1.1	53
102	Fluorescence fingerprints to monitor total trihalomethanes and N-nitrosodimethylamine formation potentials in water. Environmental Chemistry Letters, 2007, 5, 73-77.	8.3	29
103	Experimental and Theoretical Assessment of the Lifetime of a Gaseousâ€Reduced Vadose Zone Permeable Reactive Barrier. Vadose Zone Journal, 2007, 6, 1050-1056.	1.3	4
104	<I>In situ</I> transformation of labile lead compounds to pyromorphites. Land Contamination and Reclamation, 2007, 15, 453-458.	0.4	1
105	Inhibition of FeS on Chromium(III) Oxidation by Biogenic Manganese Oxides. Environmental Engineering Science, 2006, 23, 552-560.	0.8	4
106	Catalysis of Dissolved and Adsorbed Iron in Soil Suspension for Chromium(VI) Reduction by Sulfide. Pedosphere, 2006, 16, 572-578.	2.1	39
107	Kinetics of Uranium(VI) Reduction by Hydrogen Sulfide in Anoxic Aqueous Systems. Environmental Science & Technology, 2006, 40, 4666-4671.	4.6	127
108	Radioactive Wastes. Water Environment Research, 2006, 78, 1856-1882.	1.3	0

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109	Radioactive Wastes. Water Environment Research, 2005, 77, 2244-2298.	1.3	0
110	Impacts of Goethite Particles on UV Disinfection of Drinking Water. Applied and Environmental Microbiology, 2005, 71, 4140-4143.	1.4	29
111	Arsenic Removal from Drinking Water Using Clay Membranes. ACS Symposium Series, 2005, , 294-305.	0.5	1
112	Arsenic Removal by Activated Carbon-Based Materials. ACS Symposium Series, 2005, , 284-293.	0.5	7
113	Chromium(III) Oxidation Coupled with Microbially Mediated Mn(II) Oxidation. Geomicrobiology Journal, 2005, 22, 161-170.	1.0	45
114	Catalysis of Elemental Sulfur Nanoparticles on Chromium(VI) Reduction by Sulfide under Anaerobic Conditions. Environmental Science & Technology, 2005, 39, 2087-2094.	4.6	94
115	Preparation and Evaluation of GAC-Based Iron-Containing Adsorbents for Arsenic Removal. Environmental Science & Technology, 2005, 39, 3833-3843.	4.6	383
116	Radioactive Wastes. Water Environment Research, 2004, 76, 1967-2024.	1.3	0
117	Iron reduction and alteration of nontronite NAu-2 by a sulfate-reducing bacterium. Geochimica Et Cosmochimica Acta, 2004, 68, 3251-3260.	1.6	93
118	Effects of clay minerals on Cr(VI) reduction by organic compounds. Environmental Monitoring and Assessment, 2003, 84, 5-18.	1.3	36
119	Influences of Water Vapor on Cr(VI) Reduction by Gaseous Hydrogen Sulfide. Environmental Science & Technology, 2003, 37, 4771-4777.	4.6	41
120	Trichloroethylene Reduction on Zero Valent Iron: Probing Reactive versus Nonreactive Sites. ACS Symposium Series, 2002, , 181-205.	0.5	12
121	Physicochemical Processes. Water Environment Research, 2002, 74, 231-342.	1.3	6
122	Reductive Dechlorination of Chlorinated Solvents on Zerovalent Iron Surfaces. , 2002, , 139-159.		2
123	Suppression of Pyrite Oxidation by Iron 8-Hydroxyquinoline. Archives of Environmental Contamination and Toxicology, 2002, 43, 168-174.	2.1	36
124	Chromium(VI) Reduction by Hydrogen Sulfide in Aqueous Media:Â Stoichiometry and Kinetics. Environmental Science & Technology, 2001, 35, 2219-2225.	4.6	268
125	Effects of Natural Organic Matter, Anthropogenic Surfactants, and Model Quinones on the Reduction of Contaminants by Zero-Valent Iron. Water Research, 2001, 35, 4435-4443.	5.3	192
126	Reduction of Vinyl Chloride in Metallic Ironâ^'Water Systems. Environmental Science & Technology, 1999, 33, 2651-2656.	4.6	88

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127	Kinetics of tetrachloroethyleneâ€reductive dechlorination catalyzed by vitamin B₁₂. Environmental Toxicology and Chemistry, 1998, 17, 1681-1688.	2.2	40
128	Chlorinated Ethene Reduction by Cast Iron: Sorption and Mass Transfer. Journal of Environmental Engineering, ASCE, 1998, 124, 1012-1019.	0.7	90
129	Hydrocarbon Formation in Metallic Iron/Water Systems. Environmental Science & Technology, 1997, 31, 1185-1190.	4.6	77
130	Surface-Catalyzed Chromium(VI) Reduction:Â Reactivity Comparisons of Different Organic Reductants and Different Oxide Surfaces. Environmental Science & Technology, 1996, 30, 2484-2494.	4.6	270
131	Surface-Catalyzed Chromium(VI) Reduction:Â The TiO2â^'CrVIâ^'Mandelic Acid System. Environmental Science & Technology, 1996, 30, 463-472.	4.6	116
132	Analysis of acidâ€volatile sulfide (AVS) and simultaneously extracted metals (SEM) for the estimation of potential toxicity in aquatic sediments. Environmental Toxicology and Chemistry, 1993, 12, 1441-1453.	2.2	483
133	ANALYSIS OF ACID-VOLATILE SULFIDE (AVS) AND SIMULTANEOUSLY EXTRACTED METALS (SEM) FOR THE ESTIMATION OF POTENTIAL TOXICITY IN AQUATIC SEDIMENTS. Environmental Toxicology and Chemistry, 1993, 12, 1441.	2.2	13
134	Photocatalytic degradation of methyl orange by chitosan/CdS nanoparticle composite films. , 0, 60, 242-248.		1