Baoxia Mi

List of Publications by Year
in descending order

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Version: 2024-02-01

53 papers	8,636 citations	109137 35 h-index	168136 53 g-index
53 all docs	53 docs citations	53 times ranked	8009 citing authors

#	Article	IF	Citations
1	Enabling Graphene Oxide Nanosheets as Water Separation Membranes. Environmental Science & Technology, 2013, 47, 3715-3723.	4.6	1,237
2	Graphene Oxide Membranes for Ionic and Molecular Sieving. Science, 2014, 343, 740-742.	6.0	960
3	Organic fouling of forward osmosis membranes: Fouling reversibility and cleaning without chemical reagents. Journal of Membrane Science, 2010, 348, 337-345.	4.1	744
4	Environmental Applications of 2D Molybdenum Disulfide (MoS₂) Nanosheets. Environmental Science & Technology, 2017, 51, 8229-8244.	4.6	647
5	Chemical and physical aspects of organic fouling of forward osmosis membranes. Journal of Membrane Science, 2008, 320, 292-302.	4.1	560
6	Swelling of Graphene Oxide Membranes in Aqueous Solution: Characterization of Interlayer Spacing and Insight into Water Transport Mechanisms. ACS Nano, 2017, 11, 6440-6450.	7.3	552
7	Gypsum Scaling and Cleaning in Forward Osmosis: Measurements and Mechanisms. Environmental Science & Technology, 2010, 44, 2022-2028.	4.6	324
8	Layer-by-layer assembly of graphene oxide membranes via electrostatic interaction. Journal of Membrane Science, 2014, 469, 80-87.	4.1	296
9	Understanding the Aqueous Stability and Filtration Capability of MoS₂ Membranes. Nano Letters, 2017, 17, 7289-7298.	4.5	283
10	Synthetic Graphene Oxide Leaf for Solar Desalination with Zero Liquid Discharge. Environmental Science & Technology, 2017, 51, 11701-11709.	4.6	270
11	Membrane surface modification with TiO2â€“graphene oxide for enhanced photocatalytic performance. Journal of Membrane Science, 2014, 455, 349-356.	4.1	255
12	Removal and Recovery of Heavy Metal Ions by Two-dimensional MoS₂ Nanosheets: Performance and Mechanisms. Environmental Science & Technology, 2018, 52, 9741-9748.	4.6	177
13	Combined fouling of forward osmosis membranes: Synergistic foulant interaction and direct observation of fouling layer formation. Journal of Membrane Science, 2012, 407-408, 136-144.	4.1	173
14	Silica scaling and scaling reversibility in forward osmosis. Desalination, 2013, 312, 75-81.	4.0	154
15	Organic Fouling of Graphene Oxide Membranes and Its Implications for Membrane Fouling Control in Engineered Osmosis. Environmental Science & Technology, 2016, 50, 685-693.	4.6	144
16	Polyamide-crosslinked graphene oxide membrane for forward osmosis. Journal of Membrane Science, 2018, 545, 11-18.	4.1	126
17	Grafting polyzwitterions onto polyamide by click chemistry and nucleophilic substitution on nitrogen: A novel approach to enhance membrane fouling resistance. Journal of Membrane Science, 2014, 449, 50-57.	4.1	121
18	Understanding the pH-responsive behavior of graphene oxide membrane in removing ions and organic micropollulants. Journal of Membrane Science, 2017, 541, 235-243.	4.1	96

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19	Effects of organic macromolecular conditioning on gypsum scaling of forward osmosis membranes. Journal of Membrane Science, 2014, 450, 153-161.	4.1	87
20	Modification of thin film composite polyamide membranes with 3D hyperbranched polyglycerol for simultaneous improvement in their filtration performance and antifouling properties. Journal of Materials Chemistry A, 2017, 5, 23190-23197.	5.2	87
21	Superselective Removal of Lead from Water by Two-Dimensional MoS₂ Nanosheets and Layer-Stacked Membranes. Environmental Science & Technology, 2020, 54, 12602-12611.	4.6	87
22	Nanofibrous hydrogel-reduced graphene oxide membranes for effective solar-driven interfacial evaporation and desalination. Chemical Engineering Journal, 2021, 422, 129998.	6.6	83
23	Molecular Dynamics Simulations of Polyamide Membrane, Calcium Alginate Gel, and Their Interactions in Aqueous Solution. Langmuir, 2014, 30, 9098-9106.	1.6	82
24	Dual-Channel, Molecular-Sieving Core/Shell ZIF@MOF Architectures as Engineered Fillers in Hybrid Membranes for Highly Selective CO₂ Separation. Nano Letters, 2017, 17, 6752-6758.	4.5	82
25	Scaling up nanoporous graphene membranes. Science, 2019, 364, 1033-1034.	6.0	82
26	Correlating Interlayer Spacing and Separation Capability of Graphene Oxide Membranes in Organic Solvents. ACS Nano, 2020, 14, 6013-6023.	7.3	81
27	Direct observation of bacterial deposition on and detachment from nanocomposite membranes embedded with silver nanoparticles. Water Research, 2013, 47, 2949-2958.	5.3	77
28	Hydrated Polyamide Membrane and Its Interaction with Alginate: A Molecular Dynamics Study. Langmuir, 2013, 29, 11600-11608.	1.6	73
29	Integration of forward osmosis and membrane distillation for sustainable wastewater reuse. Separation and Purification Technology, 2015, 156, 424-431.	3.9	73
30	Interfacial Solar Evaporation by a 3D Graphene Oxide Stalk for Highly Concentrated Brine Treatment. Environmental Science & Technology, 2021, 55, 15435-15445.	4.6	62
31	Interfacial solar vapor generation for desalination and brine treatment: Evaluating current strategies of solving scaling. Water Research, 2021, 198, 117135.	5.3	57
32	Surface slip on rotating graphene membrane enables the temporal selectivity that breaks the permeability-selectivity trade-off. Science Advances, 2020, 6, eaba9471.	4.7	54
33	Modeling the Effect of Charge Density in the Active Layers of Reverse Osmosis and Nanofiltration Membranes on the Rejection of Arsenic(III) and Potassium Iodide. Environmental Science & Technology, 2013, 47, 420-428.	4.6	48
34	Novel antifouling surface with improved hemocompatibility by immobilization of polyzwitterions onto silicon via click chemistry. Applied Surface Science, 2016, 363, 619-626.	3.1	37
35	Dew Point Measurement Using a Carbon-Based Capacitive Sensor with Active Temperature Control. ACS Applied Materials & Interfaces, 2019, 11, 1699-1705.	4.0	37
36	Graphene-polyelectrolyte multilayer membranes with tunable structure and internal charge. Carbon, 2020, 160, 219-227.	5.4	36

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37	Nanomaterials for Membrane Fouling Control: Accomplishments and Challenges. Advances in Chronic Kidney Disease, 2013, 20, 536-555.	0.6	30
38	RBS Characterization of Arsenic(III) Partitioning from Aqueous Phase into the Active Layers of Thin-Film Composite NF/RO Membranes. Environmental Science & Technology, 2007, 41, 3290-3295.	4.6	29
39	2D graphene oxide channel for water transport. Faraday Discussions, 2018, 209, 329-340.	1.6	26
40	Gypsum (CaSO4Â·2H2O) Scaling on Polybenzimidazole and Cellulose Acetate Hollow Fiber Membranes under Forward Osmosis. Membranes, 2013, 3, 354-374.	1.4	24
41	Effects of Particle Morphology on the Antibiofouling Performance of Silver Embedded Polysulfone Membranes and Rate of Silver Leaching. Industrial & Engineering Chemistry Research, 2017, 56, 2240-2246.	1.8	24
42	Emerging investigators series: silica-crosslinked graphene oxide membrane and its unique capability in removing neutral organic molecules from water. Environmental Science: Water Research and Technology, 2016, 2, 717-725.	1.2	21
43	Regenerable Polyelectrolyte Membrane for Ultimate Fouling Control in Forward Osmosis. Environmental Science & Technology, 2017, 51, 3242-3249.	4.6	20
44	Layer-by-Layer Assembly of Zeolite/Polyelectrolyte Nanocomposite Membranes with High Zeolite Loading. Environmental Science and Technology Letters, 2014, 1, 504-509.	3.9	19
45	A Combined Forward Osmosis and Membrane Distillation System for Sidestream Treatment. Journal of Water Resource and Protection, 2015, 07, 1111-1120.	0.3	18
46	Partially reduced graphene oxide and chitosan nanohybrid membranes for selective retention ofÂdivalent cations. RSC Advances, 2018, 8, 13656-13663.	1.7	17
47	Prospects of artificial tree for solar desalination. Current Opinion in Chemical Engineering, 2019, 25, 18-25.	3.8	15
48	Dew point measurements using montmorillonite (MTT) and molybdenum disulfide (MoS2) coated QCM sensors. Sensors and Actuators B: Chemical, 2019, 279, 122-129.	4.0	15
49	Interfacial solar evaporator for brine treatment: the importance of resilience to high salinity. National Science Review, 2021, 8, nwab118.	4.6	9
50	Facile and extensible preparation of multi-layered graphene oxide membranes with enhanced long-term desalting performance. Journal of Membrane Science, 2021, 638, 119695.	4.1	8
51	Swelling characteristics and application of two-dimensional materials on hydrophilic quartz crystal resonant dew point sensor. Sensors and Actuators B: Chemical, 2019, 298, 126905.	4.0	7
52	Tuning phase compositions of MoS₂ nanomaterials for enhanced heavy metal removal: performance and mechanism. Physical Chemistry Chemical Physics, 2022, 24, 13305-13316.	1.3	6
53	Highly efficient removal and sequestration of Cr(VI) in confined MoS2 interlayer Nanochannels: Performance and mechanism. Separation and Purification Technology, 2022, 293, 121104.	3.9	4