Zhikan Yao

List of Publications by Year
in descending order

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Version: 2024-02-01

24 papers	1,640 citations	393982 19 h-index	642321 23 g-index
24 all docs	24 docs citations	24 times ranked	971 citing authors

#	Article	IF	Citations
1	Nanofiltration for drinking water treatment: a review. Frontiers of Chemical Science and Engineering, 2022, 16, 681-698.	2.3	77
2	A critical review of hemoperfusion adsorbents: materials, functionalization and matrix structure selection. Materials Advances, 2022, 3, 918-930.	2.6	15
3	The stabilization of ultrafiltration membrane blended with randomly structured amphiphilic copolymer: Micropollutants adsorption properties in filtration processes. Journal of Colloid and Interface Science, 2022, 613, 234-243.	5.0	10
4	Micromechanism Underlying Wetting Behavior of the Vacuum Membrane Distillation during Desalination. Industrial & Engineering Chemistry Research, 2022, 61, 4428-4435.	1.8	5
5	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. Environmental Science and Technology Letters, 2022, 9, 247-257.	3.9	42
6	Separation mechanism, selectivity enhancement strategies and advanced materials for mono-/multivalent ion-selective nanofiltration membrane. , 2022, 2, 100032.		26
7	High-Efficiency Capture and Recovery of Anionic Perfluoroalkyl Substances from Water Using PVA/PDDA Nanofibrous Membranes with Near-Zero Energy Consumption. Environmental Science and Technology Letters, 2021, 8, 350-355.	3.9	17
8	Hollow nanosphere construction of covalent organic frameworks for catalysis: (Pd/C)@TpPa COFs in Suzuki coupling reaction. Journal of Colloid and Interface Science, 2021, 591, 273-280.	5.0	42
9	Constructing a selective blocked-nanolayer on nanofiltration membrane via surface-charge inversion for promoting Li+ permselectivity over Mg2+. Journal of Membrane Science, 2021, 635, 119504.	4.1	88
10	High proton selectivity membrane based on the keto-linked cationic covalent organic framework for acid recovery. Journal of Membrane Science, 2021, 640, 119800.	4.1	23
11	Dissecting the Role of Substrate on the Morphology and Separation Properties of Thin Film Composite Polyamide Membranes: Seeing Is Believing. Environmental Science & Technology, 2020, 54, 6978-6986.	4.6	123
12	Highly selective separation and resource recovery using forward osmosis membrane assembled by polyphenol network. Journal of Membrane Science, 2020, 611, 118305.	4.1	21
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	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. Journal of Colloid and Interface Science, 2019, 552, 418-425.	5.0	24
15	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. Journal of Colloid and Interface Science, 2019, 553, 99-107.	5.0	66
16	Non-Polyamide Based Nanofiltration Membranes Using Green Metalâ€“Organic Coordination Complexes: Implications for the Removal of Trace Organic Contaminants. Environmental Science & Technology, 2019, 53, 2688-2694.	4.6	90
17	Tuning roughness features of thin film composite polyamide membranes for simultaneously enhanced permeability, selectivity and anti-fouling performance. Journal of Colloid and Interface Science, 2019, 540, 382-388.	5.0	139
18	Fabrication of a novel and green thin-film composite membrane containing nanovoids for water purification. Journal of Membrane Science, 2019, 570-571, 314-321.	4.1	54

#	Article	IF	Citations
19	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. Journal of Colloid and Interface Science, 2019, 535, 239-244.	5.0	48
20	Tannic Acid/Fe³⁺ Nanoscaffold for Interfacial Polymerization: Toward Enhanced Nanofiltration Performance. Environmental Science & Technology, 2018, 52, 9341-9349.	4.6	310
21	A highly selective surface coating for enhanced membrane rejection of endocrine disrupting compounds: Mechanistic insights and implications. Water Research, 2017, 121, 197-203.	5.3	77
22	A One-Step Rapid Assembly of Thin Film Coating Using Green Coordination Complexes for Enhanced Removal of Trace Organic Contaminants by Membranes. Environmental Science & Technology, 2017, 51, 12638-12643.	4.6	110
23	Does Hydrophilic Polydopamine Coating Enhance Membrane Rejection of Hydrophobic Endocrine-Disrupting Compounds?. Environmental Science and Technology Letters, 2016, 3, 332-338.	3.9	117
24	Composition and properties of porous blend membranes containing tertiary amine based amphiphilic copolymers with different sequence structures. Journal of Colloid and Interface Science, 2015, 437, 124-131.	5.0	25