Jiaxin Guo

List of Publications by Year in descending order

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38 papers	2,211 citations	236612 25 h-index	329751 37 g-index
40 all docs	40 docs citations	40 times ranked	2141 citing authors

#	Article	IF	Citations
1	PDMS/PVDF hybrid electrospun membrane with superhydrophobic property and drop impact dynamics for dyeing wastewater treatment using membrane distillation. Journal of Membrane Science, 2017, 525, 57-67.	4.1	310
2	High flux and antifouling properties of negatively charged membrane for dyeing wastewater treatment by membrane distillation. Water Research, 2016, 103, 362-371.	5.3	193
3	Engineering the Re-Entrant Hierarchy and Surface Energy of PDMS-PVDF Membrane for Membrane Distillation Using a Facile and Benign Microsphere Coating. Environmental Science & Technology, 2017, 51, 10117-10126.	4.6	114
4	Fouling behavior of negatively charged PVDF membrane in membrane distillation for removal of antibiotics from wastewater. Journal of Membrane Science, 2018, 551, 12-19.	4.1	106
5	Electrospun Nanofiber Membranes Incorporating PDMS-Aerogel Superhydrophobic Coating with Enhanced Flux and Improved Antiwettability in Membrane Distillation. Environmental Science & Technology, 2019, 53, 4948-4958.	4.6	103
6	Enhanced vapor transport in membrane distillation via functionalized carbon nanotubes anchored into electrospun nanofibres. Scientific Reports, 2017, 7, 41562.	1.6	97
7	CNTs reinforced super-hydrophobic-oleophilic electrospun polystyrene oil sorbent for enhanced sorption capacity and reusability. Chemical Engineering Journal, 2017, 314, 526-536.	6.6	97
8	Omniphobic re-entrant PVDF membrane with ZnO nanoparticles composite for desalination of low surface tension oily seawater. Water Research, 2019, 165, 114982.	5.3	95
9	Self-Assembled Hydrophobic/Hydrophilic Porphyrin-Ti₃C₂T_x MXene Janus Membrane for Dual-Functional Enabled Photothermal Desalination. ACS Applied Materials & Interfaces, 2021, 13, 3762-3770.	4.0	82
10	Multilayer Dye Adsorption in Activated Carbonsâ€"Facile Approach to Exploit Vacant Sites and Interlayer Charge Interaction. Environmental Science & Technology, 2016, 50, 5041-5049.	4.6	81
11	Theoretical modeling and experimental validation of transport and separation properties of carbon nanotube electrospun membrane distillation. Journal of Membrane Science, 2017, 526, 395-408.	4.1	79
12	Transforming Ti3C2Tx MXeneâ€™s intrinsic hydrophilicity into superhydrophobicity for efficient photothermal membrane desalination. Nature Communications, 2022, 13, .	5.8	65
13	Regeneration of superhydrophobic TiO2 electrospun membranes in seawater desalination by water flushing in membrane distillation. Desalination, 2019, 468, 114054.	4.0	63
14	High-performance nanofiltration membrane structured with enhanced stripe nano-morphology. Journal of Membrane Science, 2020, 600, 117852.	4.1	57
15	Robust dual-layered omniphobic electrospun membrane with anti-wetting and anti-scaling functionalised for membrane distillation application. Journal of Membrane Science, 2021, 624, 119089.	4.1	52
16	Self-cleaning BiOBr/Ag photocatalytic membrane for membrane regeneration under visible light in membrane distillation. Chemical Engineering Journal, 2019, 378, 122137.	6.6	50
17	PAA@ZIF-8 incorporated nanofibrous membrane for high-efficiency PM2.5 capture. Chemical Engineering Journal, 2021, 405, 126584.	6.6	50
18	Superhydrophobic membrane by hierarchically structured PDMS-POSS electrospray coating with cauliflower-shaped beads for enhanced MD performance. Journal of Membrane Science, 2020, 597, 117638.	4.1	44

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19	Elucidating the fouling mechanism in pharmaceutical wastewater treatment by membrane distillation. Desalination, 2020, 475, 114148.	4.0	42
20	Nanoparticleâ€“Cartilage Interaction: Pathology-Based Intra-articular Drug Delivery for Osteoarthritis Therapy. Nano-Micro Letters, 2021, 13, 149.	14.4	42
21	Enhanced ammonia recovery from wastewater by Nafion membrane with highly porous honeycomb nanostructure and its mechanism in membrane distillation. Journal of Membrane Science, 2019, 590, 117265.	4.1	40
22	Superhydrophobic and superoleophilic PH-CNT membrane for emulsified oil-water separation. Desalination, 2022, 526, 115536.	4.0	39
23	Superhydrophobic (polyvinylidene fluoride-co-hexafluoropropylene)/ (polystyrene) composite membrane via a novel hybrid electrospin-electrospray process. Journal of Membrane Science, 2020, 611, 118360.	4.1	37
24	Bacterial inactivation and in situ monitoring of biofilm development on graphene oxide membrane using optical coherence tomography. Journal of Membrane Science, 2018, 564, 22-34.	4.1	36
25	Sustainable development of tyre char-based activated carbons with different textural properties for value-added applications. Journal of Environmental Management, 2016, 170, 1-7.	3.8	33
26	Noninvasive Real-Time Monitoring of Wetting Progression in Membrane Distillation Using Impedance Spectroscopy. Environmental Science & Technology, 2022, 56, 535-545.	4.6	22
27	Fabrication of robust green superhydrophobic hybrid nanofiber-nanosphere membrane for membrane distillation. Desalination, 2021, 520, 115314.	4.0	21
28	BioContainers Registry: Searching Bioinformatics and Proteomics Tools, Packages, and Containers. Journal of Proteome Research, 2021, 20, 2056-2061.	1.8	19
29	Biodegradable magnesium implant enhances angiogenesis and alleviates medication-related osteonecrosis of the jaw in rats. Journal of Orthopaedic Translation, 2022, 33, 153-161.	1.9	19
30	Molecular engineering low-surface energy membranes by grafting perfluoro-tert-butoxy chains containing fluorous silica aerogels. Green Chemistry, 2020, 22, 3283-3295.	4.6	17
31	A Conductive Hydrophobic Polyaniline Sandwiched Polyvinylidene Fluoride Membrane for Early Detection of Surfactant-Induced Wetting in Membrane Distillation Using Impedance. ACS Applied Polymer Materials, 2021, 3, 679-690.	2.0	17
32	Emerging investigator series: control of membrane fouling by dissolved algal organic matter using pre-oxidation with coagulation as seawater pretreatment. Environmental Science: Water Research and Technology, 2020, 6, 935-944.	1.2	17
33	Biomaterials developed for facilitating healing outcome after anterior cruciate ligament reconstruction: Efficacy, surgical protocols, and assessments using preclinical animal models. Biomaterials, 2021, 269, 120625.	5.7	16
34	In-situ 3D fouling visualization of membrane distillation treating industrial textile wastewater by optical coherence tomography imaging. Water Research, 2021, 205, 117668.	5.3	14
35	Optimization of acid pretreatment and enzymatic hydrolysis on the production of ethanol fuel from waste banana peels. Energy and Environment, 2018, 29, 1354-1364.	2.7	12
36	Investigation of fouling mechanism in membrane distillation using in-situ optical coherence tomography with green regeneration of fouled membrane. Journal of Membrane Science, 2022, 641, 119894.	4.1	11

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37	Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation. Desalination, 2022, 533, 115742.	4.0	11
38	Electrospun Nanofiber Membranes for Membrane Distillation. , 2019, , 107-140.		1