

Zhe Yang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,726
citations

28
h-index

52
g-index

66
ext. papers

4,165
ext. citations

9.2
avg, IF

5.96
L-index

#	Paper	IF	Citations
60	Potable Water Reuse through Advanced Membrane Technology. <i>Environmental Science & Technology</i> , 2018 , 52, 10215-10223	10.3	203
59	The upper bound of thin-film composite (TFC) polyamide membranes for desalination. <i>Journal of Membrane Science</i> , 2019 , 590, 117297	9.6	180
58	Tannic Acid/Fe Nanoscaffold for Interfacial Polymerization: Toward Enhanced Nanofiltration Performance. <i>Environmental Science & Technology</i> , 2018 , 52, 9341-9349	10.3	162
57	Nanofoaming of Polyamide Desalination Membranes To Tune Permeability and Selectivity. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 123-130	11	148
56	In Situ Reduction of Silver by Polydopamine: A Novel Antimicrobial Modification of a Thin-Film Composite Polyamide Membrane. <i>Environmental Science & Technology</i> , 2016 , 50, 9543-50	10.3	131
55	A thin-film nanocomposite nanofiltration membrane prepared on a support with in situ embedded zeolite nanoparticles. <i>Separation and Purification Technology</i> , 2016 , 166, 230-239	8.3	125
54	Recent development of novel membranes for desalination. <i>Desalination</i> , 2018 , 434, 37-59	10.3	122
53	A facile preparation of novel positively charged MOF/chitosan nanofiltration membranes. <i>Journal of Membrane Science</i> , 2017 , 525, 269-276	9.6	105
52	Hydrophilic Silver Nanoparticles Induce Selective Nanochannels in Thin Film Nanocomposite Polyamide Membranes. <i>Environmental Science & Technology</i> , 2019 , 53, 5301-5308	10.3	97
51	A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications. <i>Environmental Science & Technology</i> , 2020 , 54, 15563-15583	10.3	89
50	Polydopamine coating on a thin film composite forward osmosis membrane for enhanced mass transport and antifouling performance. <i>Journal of Membrane Science</i> , 2018 , 551, 234-242	9.6	84
49	Confined nanobubbles shape the surface roughness structures of thin film composite polyamide desalination membranes. <i>Journal of Membrane Science</i> , 2019 , 582, 342-349	9.6	75
48	Interfacial Polymerization with Electrosprayed Microdroplets: Toward Controllable and Ultrathin Polyamide Membranes. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 117-122	11	75
47	Tuning roughness features of thin film composite polyamide membranes for simultaneously enhanced permeability, selectivity and anti-fouling performance. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 382-388	9.3	75
46	A One-Step Rapid Assembly of Thin Film Coating Using Green Coordination Complexes for Enhanced Removal of Trace Organic Contaminants by Membranes. <i>Environmental Science & Technology</i> , 2017 , 51, 12638-12643	10.3	66
45	Zwitterionic polymer modification of polyamide reverse-osmosis membranes via surface amination and atom transfer radical polymerization for anti-biofouling. <i>Journal of Membrane Science</i> , 2018 , 550, 332-339	9.6	62
44	A novel thin-film nano-templated composite membrane with in situ silver nanoparticles loading: Separation performance enhancement and implications. <i>Journal of Membrane Science</i> , 2017 , 544, 351-358	9.6	58

43	A highly selective surface coating for enhanced membrane rejection of endocrine disrupting compounds: Mechanistic insights and implications. <i>Water Research</i> , 2017 , 121, 197-203	12.5	55
42	Non-Polyamide Based Nanofiltration Membranes Using Green Metal-Organic Coordination Complexes: Implications for the Removal of Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2019 , 53, 2688-2694	10.3	52
41	Preparation of nanocavity-contained thin film composite nanofiltration membranes with enhanced permeability and divalent to monovalent ion selectivity. <i>Desalination</i> , 2018 , 445, 115-122	10.3	50
40	Dissecting the Role of Substrate on the Morphology and Separation Properties of Thin Film Composite Polyamide Membranes: Seeing Is Believing. <i>Environmental Science & Technology</i> , 2020 , 54, 6978-6986	10.3	47
39	Research progress of photocatalysis based on highly dispersed titanium in mesoporous SiO ₂ . <i>Chinese Chemical Letters</i> , 2019 , 30, 853-862	8.1	43
38	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science & Technology</i> , 2020 , 54, 11611-11621	10.3	43
37	Carbon nanotubes enhance permeability of ultrathin polyamide rejection layers. <i>Journal of Membrane Science</i> , 2019 , 570-571, 139-145	9.6	41
36	An ultrathin in situ silicification layer developed by an electrostatic attraction force strategy for ultrahigh-performance oil/water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24569-24582	10.3	38
35	A novel gravity-driven nanofibrous membrane for point-of-use water disinfection: polydopamine-induced in situ silver incorporation. <i>Scientific Reports</i> , 2017 , 7, 2334	4.9	35
34	Gravity-driven catalytic nanofibrous membranes prepared using a green template. <i>Journal of Membrane Science</i> , 2017 , 525, 298-303	9.6	32
33	Fabrication of a novel and green thin-film composite membrane containing nanovoids for water purification. <i>Journal of Membrane Science</i> , 2019 , 570-571, 314-321	9.6	32
32	Reactable substrate participating interfacial polymerization for thin film composite membranes with enhanced salt rejection performance. <i>Desalination</i> , 2018 , 436, 1-7	10.3	28
31	Novel polyethyleneimine/TMC-based nanofiltration membrane prepared on a polydopamine coated substrate. <i>Frontiers of Chemical Science and Engineering</i> , 2018 , 12, 273-282	4.5	28
30	Recent advances in high-performance TFC membranes: A review of the functional interlayers. <i>Desalination</i> , 2021 , 500, 114869	10.3	28
29	A critical review on porous substrates of TFC polyamide membranes: Mechanisms, membrane performances, and future perspectives. <i>Journal of Membrane Science</i> , 2022 , 641, 119871	9.6	28
28	Toward tailoring nanofiltration performance of thin-film composite membranes: Novel insights into the role of poly(vinyl alcohol) coating positions. <i>Journal of Membrane Science</i> , 2020 , 614, 118526	9.6	26
27	Antifouling Double-Skinned Forward Osmosis Membranes by Constructing Zwitterionic Brush-Decorated MWCNT Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19462-19479	9.5	21
26	Engineering a dual-functional sulfonated polyelectrolyte-silver nanoparticle complex on a polyamide reverse osmosis membrane for robust biofouling mitigation. <i>Journal of Membrane Science</i> , 2021 , 618, 118757	9.6	20

25	Effect of polymer structure modified on RO membrane surfaces via surface-initiated ATRP on dynamic biofouling behavior. <i>Journal of Membrane Science</i> , 2019 , 582, 111-119	9.6	19
24	Enhancing water flux of thin-film nanocomposite (TFN) membrane by incorporation of bimodal silica nanoparticles. <i>AIMS Environmental Science</i> , 2016 , 3, 185-198	1.9	19
23	Probing the Contributions of Interior and Exterior Channels of Nanofillers toward the Enhanced Separation Performance of a Thin-Film Nanocomposite Reverse Osmosis Membrane. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 766-772	11	19
22	Improved anti-biofouling performance of polyamide reverse osmosis membranes modified with a polyampholyte with effective carboxyl anion and quaternary ammonium cation ratio. <i>Journal of Membrane Science</i> , 2020 , 595, 117529	9.6	18
21	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 418-425	9.3	16
20	Polyamide reverse osmosis membranes containing 1D nanochannels for enhanced water purification. <i>Journal of Membrane Science</i> , 2021 , 618, 118681	9.6	15
19	Transmission Electron Microscopy (TEM) 2017 , 145-159		14
18	Novel Positively Charged Metal-Coordinated Nanofiltration Membrane for Lithium Recovery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16906-16915	9.5	13
17	Does interfacial vaporization of organic solvent affect the structure and separation properties of polyamide RO membranes?. <i>Journal of Membrane Science</i> , 2021 , 625, 119173	9.6	12
16	The open membrane database: Synthesis-structure-performance relationships of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021 , 119927	9.6	12
15	Stainless steel mesh supported thin-film composite nanofiltration membranes for enhanced permeability and regeneration potential. <i>Journal of Membrane Science</i> , 2021 , 618, 118738	9.6	11
14	Nanofiltration for drinking water treatment: a review. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 1-18	4.5	8
13	Tailored thin film nanocomposite membrane incorporated with Noria for simultaneously overcoming the permeability-selectivity trade-off and the membrane fouling in nanofiltration process. <i>Journal of Membrane Science</i> , 2021 , 640, 119863	9.6	8
12	Ultrathin polyamide nanofilm with an asymmetrical structure: A novel strategy to boost the permeance of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020 , 612, 118402	9.6	5
11	High Permeance or High Selectivity? Optimization of System-Scale Nanofiltration Performance Constrained by the Upper Bound. <i>ACS ES&T Engineering</i> ,		5
10	Facile ZIF8 nanocrystals interlayered solvent-resistant thin film nanocomposite membranes for enhanced solvent permeance and rejection. <i>Journal of Membrane Science</i> , 2021 , 636, 119586	9.6	5
9	Carbon Nanotube Interlayer Enhances Water Permeance and Antifouling Performance of Nanofiltration Membranes: Mechanisms and Experimental Evidence.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	4
8	Interlayered Forward Osmosis Membranes with TiCT MXene and Carbon Nanotubes for Enhanced Municipal Wastewater Concentration. <i>Environmental Science & Technology</i> , 2021 , 55, 13219-13230	10.3	4

7	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> ,	11	4
6	Facile modification of aliphatic polyketone-based thin-film composite membrane for three-dimensional and comprehensive antifouling in active-layer-facing-draw-solution mode. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49711	2.9	2
5	Deciphering the Role of Amine Concentration on Polyamide Formation toward Enhanced RO Performance. <i>ACS ES&T Engineering</i> ,		2
4	High performance nanofiltration membrane using self-doping sulfonated polyaniline. <i>Journal of Membrane Science</i> , 2022 , 652, 120441	9.6	2
3	Novel Membranes and Membrane Materials 2018 , 201-221		1
2	Vapor-phase polymerization of high-performance thin-film composite membranes for nanofiltration. <i>AICHE Journal</i> , e17517	3.6	1
1	Second interfacial polymerization decorating defects of TFC NF membrane formed by 1D nanochannels for improving separation performance. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 10, 106896	6.8	0