Kecheng Guan

List of Publications by Year
in descending order

42	2,642	186265	289244
papers	citations	28 h-index	40 g-index

42	42	42	2658
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2D MXene Nanofilms with Tunable Gas Transport Channels. Advanced Functional Materials, 2018, 28, 1801511.	14.9	332
2	Controllable ion transport by surface-charged graphene oxide membrane. Nature Communications, 2019, 10, 1253.	12.8	327
3	UiO-66-polyether block amide mixed matrix membranes for CO2 separation. Journal of Membrane Science, 2016, 513, 155-165.	8.2	284
4	3D nanoporous crystals enabled 2D channels in graphene membrane with enhanced water purification performance. Journal of Membrane Science, 2017, 542, 41-51.	8.2	142
5	Size effects of graphene oxide on mixed matrix membranes for CO₂ separation. AIChE Journal, 2016, 62, 2843-2852.	3.6	117
6	Nanoparticles@rGO membrane enabling highly enhanced water permeability and structural stability with preserved selectivity. AIChE Journal, 2017, 63, 5054-5063.	3.6	107
7	Spray-evaporation assembled graphene oxide membranes for selective hydrogen transport. Separation and Purification Technology, 2017, 174, 126-135.	7.9	86
8	Fabrication of ZIF-300 membrane and its application for efficient removal of heavy metal ions from wastewater. Journal of Membrane Science, 2019, 572, 20-27.	8.2	80
9	A ZIF-71 Hollow Fiber Membrane Fabricated by Contra-Diffusion. ACS Applied Materials & Interfaces, 2015, 7, 16157-16160.	8.0	71
10	PEBA/ceramic hollow fiber composite membrane for high-efficiency recovery of bio-butanol via pervaporation. Journal of Membrane Science, 2016, 510, 338-347.	8.2	71
11	Highâ€Performance CO₂ Capture through Polymerâ€Based Ultrathin Membranes. Advanced Functional Materials, 2019, 29, 1900735.	14.9	70
12	Excellent Biofouling Alleviation of Thermoexfoliated Vermiculite Blended Poly(ether sulfone) Ultrafiltration Membrane. ACS Applied Materials & Interfaces, 2017, 9, 30024-30034.	8.0	60
13	Cysteamine-crosslinked graphene oxide membrane with enhanced hydrogen separation property. Journal of Membrane Science, 2020, 595, 117568.	8.2	54
14	Engineering Heterostructured Thin-Film Nanocomposite Membrane with Functionalized Graphene Oxide Quantum Dots (GOQD) for Highly Efficient Reverse Osmosis. ACS Applied Materials & Interfaces, 2020, 12, 38662-38673.	8.0	51
15	Graphene quantum dots (GQDs)-assembled membranes with intrinsic functionalized nanochannels for high-performance nanofiltration. Chemical Engineering Journal, 2021, 420, 127602.	12.7	51
16	Zwitterionic Copolymer-Regulated Interfacial Polymerization for Highly Permselective Nanofiltration Membrane. Nano Letters, 2021, 21, 6525-6532.	9.1	49
17	Ultrafast waterâ€selective permeation through graphene oxide membrane with water transport promoters. AIChE Journal, 2020, 66, e16812.	3.6	44
18	Chemically Converted Graphene Nanosheets for the Construction of Ion-Exclusion Nanochannel Membranes. Nano Letters, 2021, 21, 3495-3502.	9.1	41

#	Article	IF	Citations
19	Incorporating Graphene Oxide into Alginate Polymer with a Cationic Intermediate To Strengthen Membrane Dehydration Performance. ACS Applied Materials & Interfaces, 2018, 10, 13903-13913.	8.0	37
20	In situ formation of ultrathin polyampholyte layer on porous polyketone membrane via a one-step dopamine co-deposition strategy for oil/water separation with ultralow fouling. Journal of Membrane Science, 2021, 619, 118789.	8.2	37
21	Surface engineering with microstructured gel networks for superwetting membranes. Journal of Materials Chemistry A, 2021, 9, 7924-7934.	10.3	37
22	Custom-tailoring metal-organic framework in thin-film nanocomposite nanofiltration membrane with enhanced internal polarity and amplified surface crosslinking for elevated separation property. Desalination, 2020, 493, 114649.	8.2	35
23	Graphene-based membranes for pervaporation processes. Chinese Journal of Chemical Engineering, 2020, 28, 1755-1766.	3.5	35
24	Controlling the formation of porous polyketone membranes via a cross-linkable alginate additive for oil-in-water emulsion separations. Journal of Membrane Science, 2020, 611, 118362.	8.2	34
25	Enabling polyketone membrane with underwater superoleophobicity via a hydrogel-based modification for high-efficiency oil-in-water emulsion separation. Journal of Membrane Science, 2021, 618, 118705.	8.2	34
26	Mechanism insights into the role of the support mineralization layer toward ultrathin polyamide nanofilms for ultrafast molecular separation. Journal of Materials Chemistry A, 2021, 9, 26159-26171.	10.3	34
27	Precisely Controlling Nanochannels of Graphene Oxide Membranes through Ligninâ€Based Cation Decoration for Dehydration of Biofuels. ChemSusChem, 2018, 11, 2315-2320.	6.8	33
28	Development of ultrathin polyamide nanofilm with enhanced inner-pore interconnectivity via graphene quantum dots-assembly intercalation for high-performance organic solvent nanofiltration. Journal of Membrane Science, 2021, 635, 119498.	8.2	31
29	Interfacial polymerization of thin film selective membrane layers: Effect of polyketone substrates. Journal of Membrane Science, 2021, 640, 119801.	8.2	27
30	Nanochannel-confined charge repulsion of ions in a reduced graphene oxide membrane. Journal of Materials Chemistry A, 2020, 8, 25880-25889.	10.3	27
31	Cation-diffusion controlled formation of thin graphene oxide composite membranes for efficient ethanol dehydration. Science China Materials, 2019, 62, 925-935.	6.3	26
32	Dehydration of <scp>C₂</scp>â€“<scp>C₄</scp> alcohol/water mixtures via electrostatically enhanced graphene oxide laminar membranes. AICHE Journal, 2021, 67, aic17170.	3.6	26
33	Highly efficient recovery of propane by mixedâ€matrix membrane via embedding functionalized graphene oxide nanosheets into polydimethylsiloxane. AICHE Journal, 2017, 63, 3501-3510.	3.6	25
34	Asymmetric superwetting Janus structure for fouling- and scaling-resistant membrane distillation. Journal of Membrane Science, 2022, 657, 120697.	8.2	24
35	Aliphatic polyketone-based thin film composite membrane with mussel-inspired polydopamine intermediate layer for high performance osmotic power generation. Desalination, 2021, 516, 115222.	8.2	21
36	Novel thin-film composite membrane with ultrathin surface mineralization layer engineered by electrostatic attraction induced In-situ assembling process for high-performance nanofiltration. Chemical Engineering Journal, 2021, 417, 127903.	12.7	20

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37	The underlying mechanism insights into support polydopamine decoration toward ultrathin polyamide membranes for high-performance reverse osmosis. Journal of Membrane Science, 2022, 646, 120269.	8.2	19
38	Ag-based nanocapsule-regulated interfacial polymerization Enables synchronous nanostructure towards high-performance nanofiltration membrane for sustainable water remediation. Journal of Membrane Science, 2022, 645, 120196.	8.2	17
39	Removal of heat-stable salts from lean amine solution using bipolar membrane electrodialysis. Journal of Membrane Science, 2022, 645, 120213.	8.2	17
40	Nanostructural Manipulation of Polyphenol Coatings for Superwetting Membrane Surfaces. ACS Sustainable Chemistry and Engineering, 2021, 9, 14525-14536.	6.7	9
41	Graphene Nanopores and Nanochannels for Water Transport. Membrane, 2022, 47, 68-75.	0.0	0
42	Zwitterion grafted forward osmosis membranes with superwetting property via atom transfer radical polymerization. Journal of Applied Polymer Science, 0, , .	2.6	0