

Kecheng Guan

List of Publications by Year in descending order

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42
papers

2,642
citations

212478

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325983

40
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docs citations

42
times ranked

3104
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.1	17
2	Removal of heat-stable salts from lean amine solution using bipolar membrane electrodialysis. Journal of Membrane Science, 2022, 645, 120213.	4.1	17
3	The underlying mechanism insights into support polydopamine decoration toward ultrathin polyamide membranes for high-performance reverse osmosis. Journal of Membrane Science, 2022, 646, 120269.	4.1	19
4	Graphene Nanopores and Nanochannels for Water Transport. Membrane, 2022, 47, 68-75.	0.0	0
5	Asymmetric superwetting Janus structure for fouling- and scaling-resistant membrane distillation. Journal of Membrane Science, 2022, 657, 120697.	4.1	24
6	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.	4.1	37
7	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.	4.1	34
8	Graphene quantum dots (GQDs)-assembled membranes with intrinsic functionalized nanochannels for high-performance nanofiltration. Chemical Engineering Journal, 2021, 420, 127602.	6.6	51
9	Dehydration of C_2H_5OH alcohol/water mixtures via electrostatically enhanced graphene oxide laminar membranes. AIChE Journal, 2021, 67, aic17170.	1.8	26
10	Surface engineering with microstructured gel networks for superwetting membranes. Journal of Materials Chemistry A, 2021, 9, 7924-7934.	5.2	37
11	Chemically Converted Graphene Nanosheets for the Construction of Ion-Exclusion Nanochannel Membranes. Nano Letters, 2021, 21, 3495-3502.	4.5	41
12	Zwitterionic Copolymer-Regulated Interfacial Polymerization for Highly Permselective Nanofiltration Membrane. Nano Letters, 2021, 21, 6525-6532.	4.5	49
13	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.	6.6	20
14	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.	4.1	31
15	Aliphatic polyketone-based thin film composite membrane with mussel-inspired polydopamine intermediate layer for high performance osmotic power generation. Desalination, 2021, 516, 115222.	4.0	21
16	Interfacial polymerization of thin film selective membrane layers: Effect of polyketone substrates. Journal of Membrane Science, 2021, 640, 119801.	4.1	27
17	Nanostructural Manipulation of Polyphenol Coatings for Superwetting Membrane Surfaces. ACS Sustainable Chemistry and Engineering, 2021, 9, 14525-14536.	3.2	9
18	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.	5.2	34

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19	Cysteamine-crosslinked graphene oxide membrane with enhanced hydrogen separation property. <i>Journal of Membrane Science</i> , 2020, 595, 117568.	4.1	54
20	Ultrafast water-selective permeation through graphene oxide membrane with water transport promoters. <i>AIChE Journal</i> , 2020, 66, e16812.	1.8	44
21	Custom-tailoring metal-organic framework in thin-film nanocomposite nanofiltration membrane with enhanced internal polarity and amplified surface crosslinking for elevated separation property. <i>Desalination</i> , 2020, 493, 114649.	4.0	35
22	Engineering Heterostructured Thin-Film Nanocomposite Membrane with Functionalized Graphene Oxide Quantum Dots (GOQD) for Highly Efficient Reverse Osmosis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38662-38673.	4.0	51
23	Graphene-based membranes for pervaporation processes. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1755-1766.	1.7	35
24	Controlling the formation of porous polyketone membranes via a cross-linkable alginate additive for oil-in-water emulsion separations. <i>Journal of Membrane Science</i> , 2020, 611, 118362.	4.1	34
25	Nanochannel-confined charge repulsion of ions in a reduced graphene oxide membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25880-25889.	5.2	27
26	High-performance CO ₂ capture through polymer-based ultrathin membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1900735.	7.8	70
27	Cation-diffusion controlled formation of thin graphene oxide composite membranes for efficient ethanol dehydration. <i>Science China Materials</i> , 2019, 62, 925-935.	3.5	26
28	Controllable ion transport by surface-charged graphene oxide membrane. <i>Nature Communications</i> , 2019, 10, 1253.	5.8	327
29	Fabrication of ZIF-300 membrane and its application for efficient removal of heavy metal ions from wastewater. <i>Journal of Membrane Science</i> , 2019, 572, 20-27.	4.1	80
30	Incorporating Graphene Oxide into Alginate Polymer with a Cationic Intermediate To Strengthen Membrane Dehydration Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13903-13913.	4.0	37
31	Precisely Controlling Nanochannels of Graphene Oxide Membranes through Lignin-based Cation Decoration for Dehydration of Biofuels. <i>ChemSusChem</i> , 2018, 11, 2315-2320.	3.6	33
32	2D MXene Nanofilms with Tunable Gas Transport Channels. <i>Advanced Functional Materials</i> , 2018, 28, 1801511.	7.8	332
33	Highly efficient recovery of propane by mixed-matrix membrane via embedding functionalized graphene oxide nanosheets into polydimethylsiloxane. <i>AIChE Journal</i> , 2017, 63, 3501-3510.	1.8	25
34	Nanoparticles@rGO membrane enabling highly enhanced water permeability and structural stability with preserved selectivity. <i>AIChE Journal</i> , 2017, 63, 5054-5063.	1.8	107
35	3D nanoporous crystals enabled 2D channels in graphene membrane with enhanced water purification performance. <i>Journal of Membrane Science</i> , 2017, 542, 41-51.	4.1	142
36	Excellent Biofouling Alleviation of Thermoexfoliated Vermiculite Blended Poly(ether sulfone) Ultrafiltration Membrane. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30024-30034.	4.0	60

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37	Spray-evaporation assembled graphene oxide membranes for selective hydrogen transport. Separation and Purification Technology, 2017, 174, 126-135.	3.9	86
38	UiO-66-polyether block amide mixed matrix membranes for CO ₂ separation. Journal of Membrane Science, 2016, 513, 155-165.	4.1	284
39	Size effects of graphene oxide on mixed matrix membranes for CO ₂ separation. AIChE Journal, 2016, 62, 2843-2852.	1.8	117
40	PEBA/ceramic hollow fiber composite membrane for high-efficiency recovery of bio-butanol via pervaporation. Journal of Membrane Science, 2016, 510, 338-347.	4.1	71
41	A ZIF-71 Hollow Fiber Membrane Fabricated by Contra-Diffusion. ACS Applied Materials & Interfaces, 2015, 7, 16157-16160.	4.0	71
42	Zwitterion grafted forward osmosis membranes with superwetting property via atom transfer radical polymerization. Journal of Applied Polymer Science, 0, , .	1.3	0