Kunli Goh

List of Publications by Year
in descending order

77 papers	7,060 citations	100601 38 h-index	75989 78 g-index
78 all docs	78 docs citations	78 times ranked	10583 citing authors

#	Article	IF	Citations
1	Membrane-based air dehumidification: A comparative review on membrane contactors, separative membranes and adsorptive membranes. Chinese Journal of Chemical Engineering, 2022, 41, 121-144.	1.7	19
2	Dopamine-intercalated polyelectrolyte multilayered nanofiltration membranes: Toward high permselectivity and ion-ion selectivity. Journal of Membrane Science, 2022, 648, 120337.	4.1	22
3	Layer-by-layer aided Î²-cyclodextrin nanofilm for precise organic solvent nanofiltration. Journal of Membrane Science, 2022, 652, 120466.	4.1	29
4	The coming of age of water channels for separation membranes: from biological to biomimetic to synthetic. Chemical Society Reviews, 2022, 51, 4537-4582.	18.7	70
5	Air plasma assisted spray coating of Pebax-1657 thin-film composite membranes for post-combustion CO2 capture. Journal of Membrane Science, 2022, 658, 120741.	4.1	14
6	2D materials-based membranes for hydrogen purification: Current status and future prospects. International Journal of Hydrogen Energy, 2021, 46, 11389-11410.	3.8	35
7	Liposomes-assisted fabrication of high performance thin film composite nanofiltration membrane. Journal of Membrane Science, 2021, 620, 118833.	4.1	28
8	Enhanced Performance of Carbon Molecular Sieve Membranes Incorporating Zeolite Nanocrystals for Air Separation. Membranes, 2021, 11, 489.	1.4	17
9	Fast water transport through biomimetic reverse osmosis membranes embedded with peptide-attached (pR)-pillar[5]arenes water channels. Journal of Membrane Science, 2021, 628, 119276.	4.1	35
10	Seawater desalination by reverse osmosis: Current development and future challenges in membrane fabrication â€“ A review. Journal of Membrane Science, 2021, 629, 119292.	4.1	231
11	Recent Progress in Mixed-Matrix Membranes for Hydrogen Separation. Membranes, 2021, 11, 666.	1.4	28
12	The tripartite role of 2D covalent organic frameworks in graphene-based organic solvent nanofiltration membranes. Matter, 2021, 4, 2953-2969.	5.0	24
13	Emerging Materials for Mixed-Matrix Membranes. Membranes, 2021, 11, 746.	1.4	2
14	A facile direct spray-coating of PebaxÂ® 1657: Towards large-scale thin-film composite membranes for efficient CO2/N2 separation. Journal of Membrane Science, 2021, 638, 119708.	4.1	31
15	Unraveling the role of support membrane chemistry and pore properties on the formation of thin-film composite polyamide membranes. Journal of Membrane Science, 2021, 640, 119805.	4.1	43
16	Scaling-up defect-free asymmetric hollow fiber membranes to produce oxygen-enriched gas for integration into municipal solid waste gasification process. Journal of Membrane Science, 2021, 640, 119787.	4.1	9
17	Assessing the potential of integrally skinned asymmetric hollow fiber membranes for addressing membrane fouling in pressure retarded osmosis process. Desalination, 2021, 520, 115347.	4.0	10
18	Recent Progress in One- and Two-Dimensional Nanomaterial-Based Electro-Responsive Membranes: Versatile and Smart Applications from Fouling Mitigation to Tuning Mass Transport. Membranes, 2021, 11, 5.	1.4	9

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19	Bio-inspired super liquid-repellent membranes for membrane distillation: Mechanisms, fabrications and applications. Advances in Colloid and Interface Science, 2021, 297, 102547.	7.0	16
20	Nanosizing zeolite 5A fillers in mixed-matrix carbon molecular sieve membranes to improve gas separation performance. Chemical Engineering Journal Advances, 2020, 2, 100016.	2.4	18
21	2D Material Based Advanced Membranes for Separations in Organic Solvents. Small, 2020, 16, e2003400.	5.2	31
22	Layer-by-layer assembly based low pressure biocatalytic nanofiltration membranes for micropollutants removal. Journal of Membrane Science, 2020, 615, 118514.	4.1	61
23	Understanding the effect of transverse vibration on hollow fiber membranes for submerged forward osmosis processes. Journal of Membrane Science, 2020, 610, 118211.	4.1	7
24	Metallicityâ€Dependent Ultrafast Water Transport in Carbon Nanotubes. Small, 2020, 16, e1907575.	5.2	23
25	MXene Materials for Designing Advanced Separation Membranes. Advanced Materials, 2020, 32, e1906697.	11.1	295
26	Resource recovery from industrial wastewaters by hydrophobic membrane contactors: A review. Journal of Environmental Chemical Engineering, 2020, 8, 104242.	3.3	43
27	Leveraging Nanocrystal HKUST-1 in Mixed-Matrix Membranes for Ethylene/Ethane Separation. Membranes, 2020, 10, 74.	1.4	33
28	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. Science Advances, 2020, 6, eaaz9184.	4.7	177
29	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. Journal of Materials Chemistry A, 2020, 8, 9713-9725.	5.2	46
30	Asymmetric mixed-matrix membranes incorporated with nitrogen-doped graphene nanosheets for highly selective gas separation. Journal of Membrane Science, 2020, 615, 118293.	4.1	32
31	Scalable fabrication of graphene-based laminate membranes for liquid and gas separations by crosslinking-induced gelation and doctor-blade casting. Carbon, 2019, 155, 129-137.	5.4	40
32	Graphene-Based Membranes for CO2/CH4 Separation: Key Challenges and Perspectives. Applied Sciences (Switzerland), 2019, 9, 2784.	1.3	29
33	Mixed-matrix carbon molecular sieve membranes using hierarchical zeolite: A simple approach towards high CO2 permeability enhancements. Journal of Membrane Science, 2019, 588, 117220.	4.1	40
34	A review on polymer-based membranes for gas-liquid membrane contacting processes: Current challenges and future direction. Separation and Purification Technology, 2019, 229, 115791.	3.9	86
35	Hierarchically Structured Janus Membrane Surfaces for Enhanced Membrane Distillation Performance. ACS Applied Materials & Interfaces, 2019, 11, 25524-25534.	4.0	97
36	Sub-Ã…ngstrÃ¶m-level engineering of ultramicroporous carbons for enhanced sulfur hexafluoride capture. Carbon, 2019, 155, 56-64.	5.4	22

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37	The roles of metal-organic frameworks in modulating water permeability of graphene oxide-based carbon membranes. Carbon, 2019, 148, 277-289.	5.4	50
38	Pressure-retarded membrane distillation for low-grade heat recovery: The critical roles of pressure-induced membrane deformation. Journal of Membrane Science, 2019, 579, 90-101.	4.1	27
39	Fouling formation in membrane contactors for methane recovery from anaerobic effluents. Journal of Membrane Science, 2019, 573, 534-543.	4.1	42
40	3D covalent organic framework for morphologically induced high-performance membranes with strong resistance toward physical aging. Journal of Membrane Science, 2019, 574, 235-242.	4.1	51
41	Energy analysis and optimization of hollow fiber membrane contactors for recovery of dissolve methane from anaerobic membrane bioreactor effluent. Journal of Membrane Science, 2018, 554, 184-194.	4.1	48
42	Membranes and processes for forward osmosis-based desalination: Recent advances and future prospects. Desalination, 2018, 434, 81-99.	4.0	130
43	Membrane-based technologies for post-treatment of anaerobic effluents. Npj Clean Water, 2018, 1, .	3.1	30
44	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. Chemical Reviews, 2018, 118, 8655-8769.	23.0	239
45	A hierarchically porous nickelâ€“copper phosphide nano-foam for efficient electrochemical splitting of water. Nanoscale, 2017, 9, 4401-4408.	2.8	110
46	Controlling water transport in carbon nanotubes. Nano Today, 2017, 14, 13-15.	6.2	30
47	High-performance nanocomposite membranes realized by efficient molecular sieving with CuBDC nanosheets. Chemical Communications, 2017, 53, 4254-4257.	2.2	116
48	Hierarchically Structured HKUST-1 Nanocrystals for Enhanced SF₆ Capture and Recovery. Journal of Physical Chemistry C, 2017, 121, 6748-6755.	1.5	74
49	Polymer-based membranes for solvent-resistant nanofiltration: A review. Chinese Journal of Chemical Engineering, 2017, 25, 1653-1675.	1.7	76
50	Transport properties of CO2 and CH4 in hollow fiber membrane contactor for the recovery of biogas from anaerobic membrane bioreactor effluent. Journal of Membrane Science, 2017, 541, 62-72.	4.1	42
51	Sandwich-Architectured Poly(lactic acid)â€“Graphene Composite Food Packaging Films. ACS Applied Materials & Interfaces, 2016, 8, 9994-10004.	4.0	146
52	Carbon nanomaterials for advancing separation membranes: A strategic perspective. Carbon, 2016, 109, 694-710.	5.4	189
53	Bacterial physiology is a key modulator of the antibacterial activity of graphene oxide. Nanoscale, 2016, 8, 17181-17189.	2.8	42
54	Synergism of Water Shock and a Biocompatible Block Copolymer Potentiates the Antibacterial Activity of Graphene Oxide. Small, 2016, 12, 951-962.	5.2	30

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55	Microbe-derived carbon materials for electrical energy storage and conversion. Journal of Energy Chemistry, 2016, 25, 191-198.	7.1	44
56	Space-confined assembly of all-carbon hybrid fibers for capacitive energy storage: realizing a built-to-order concept for micro-supercapacitors. Energy and Environmental Science, 2016, 9, 611-622.	15.6	94
57	Perylene bisimide-incorporated water-soluble polyurethanes for living cell fluorescence labeling. Polymer, 2016, 82, 172-180.	1.8	14
58	Allâ€Carbon Nanoarchitectures as Highâ€Performance Separation Membranes with Superior Stability. Advanced Functional Materials, 2015, 25, 7348-7359.	7.8	248
59	Transforming Pristine Carbon Fiber Tows into High Performance Solidâ€State Fiber Supercapacitors. Advanced Materials, 2015, 27, 4895-4901.	11.1	193
60	E. coli-derived carbon with nitrogen and phosphorus dual functionalities for oxygen reduction reaction. Catalysis Today, 2015, 249, 228-235.	2.2	18
61	Ternary Hybrids of Amorphous Nickel Hydroxideâ€“Carbon Nanotubeâ€Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. Advanced Functional Materials, 2015, 25, 1063-1073.	7.8	288
62	A high-performance metal-free hydrogen-evolution reaction electrocatalyst from bacterium derived carbon. Journal of Materials Chemistry A, 2015, 3, 7210-7214.	5.2	75
63	Synthesis and characterization of high-performance novel thin film nanocomposite PRO membranes with tiered nanofiber support reinforced by functionalized carbon nanotubes. Journal of Membrane Science, 2015, 486, 151-160.	4.1	80
64	Sulfur-induced chirality changes in single-walled carbon nanotube synthesis by ethanol chemical vapor deposition on a Co/SiO₂catalyst. Journal of Materials Chemistry A, 2015, 3, 3310-3319.	5.2	26
65	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process. Journal of Membrane Science, 2015, 474, 244-253.	4.1	211
66	Emergence of fiber supercapacitors. Chemical Society Reviews, 2015, 44, 647-662.	18.7	498
67	Synthesis of free-standing carbon nanohybrid by directly growing carbon nanotubes on air-sprayed graphene oxide paper and its application in supercapacitor. Journal of Solid State Chemistry, 2015, 224, 45-51.	1.4	16
68	Catalysts for chirality selective synthesis of single-walled carbon nanotubes. Carbon, 2015, 81, 1-19.	5.4	106
69	Mechanical reinforcement of polyethylene using n- alkyl group-functionalized multiwalled carbon nanotubes: Effect of alkyl group carbon chain length and density. Polymer Engineering and Science, 2014, 54, 336-344.	1.5	5
70	Scalable synthesis of hierarchically structured carbon nanotubeâ€“graphene fibres for capacitive energy storage. Nature Nanotechnology, 2014, 9, 555-562.	15.6	1,312
71	Controlled Functionalization of Carbonaceous Fibers for Asymmetric Solidâ€State Microâ€Supercapacitors with High Volumetric Energy Density. Advanced Materials, 2014, 26, 6790-6797.	11.1	243
72	Narrow-chirality distributed single-walled carbon nanotube synthesis by remote plasma enhanced ethanol deposition on cobalt incorporated MCM-41 catalyst. Carbon, 2014, 66, 134-143.	5.4	16

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73	Non-covalent synthesis of thermo-responsive graphene oxideâ€“perylene bisimides-containing poly(N-isopropylacrylamide) hybrid for organic pigment removal. Journal of Colloid and Interface Science, 2014, 430, 121-128.	5.0	28
74	Multifunctional nitrogen-rich â€œbrick-and-mortarâ€•carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2013, 1, 11061.	5.2	34
75	Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. Journal of Membrane Science, 2013, 446, 244-254.	4.1	102
76	Nitrogen doped holey graphene as an efficient metal-free multifunctional electrochemical catalyst for hydrazine oxidation and oxygen reduction. Nanoscale, 2013, 5, 3457.	2.8	154
77	Sulfur doped Co/SiO₂catalysts for chirally selective synthesis of single walled carbon nanotubes. Chemical Communications, 2013, 49, 2031-2033.	2.2	25