

Kunli Goh

List of Publications by Year in descending order

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77
papers

7,060
citations

87888

38
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66911

78
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all docs

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docs citations

78
times ranked

9032
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable synthesis of hierarchically structured carbon nanotube-graphene fibres for capacitive energy storage. <i>Nature Nanotechnology</i> , 2014, 9, 555-562.	31.5	1,312
2	Emergence of fiber supercapacitors. <i>Chemical Society Reviews</i> , 2015, 44, 647-662.	38.1	498
3	MXene Materials for Designing Advanced Separation Membranes. <i>Advanced Materials</i> , 2020, 32, e1906697.	21.0	295
4	Ternary Hybrids of Amorphous Nickel Hydroxide-Carbon Nanotube-Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. <i>Advanced Functional Materials</i> , 2015, 25, 1063-1073.	14.9	288
5	All-Carbon Nanoarchitectures as High-Performance Separation Membranes with Superior Stability. <i>Advanced Functional Materials</i> , 2015, 25, 7348-7359.	14.9	248
6	Controlled Functionalization of Carbonaceous Fibers for Asymmetric Solid-State Micro-Supercapacitors with High Volumetric Energy Density. <i>Advanced Materials</i> , 2014, 26, 6790-6797.	21.0	243
7	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. <i>Chemical Reviews</i> , 2018, 118, 8655-8769.	47.7	239
8	Seawater desalination by reverse osmosis: Current development and future challenges in membrane fabrication - A review. <i>Journal of Membrane Science</i> , 2021, 629, 119292.	8.2	231
9	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process. <i>Journal of Membrane Science</i> , 2015, 474, 244-253.	8.2	211
10	Transforming Pristine Carbon Fiber Tows into High Performance Solid-State Fiber Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4895-4901.	21.0	193
11	Carbon nanomaterials for advancing separation membranes: A strategic perspective. <i>Carbon</i> , 2016, 109, 694-710.	10.3	189
12	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. <i>Science Advances</i> , 2020, 6, eaaz9184.	10.3	177
13	Nitrogen doped holey graphene as an efficient metal-free multifunctional electrochemical catalyst for hydrazine oxidation and oxygen reduction. <i>Nanoscale</i> , 2013, 5, 3457.	5.6	154
14	Sandwich-Architected Poly(lactic acid)-Graphene Composite Food Packaging Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9994-10004.	8.0	146
15	Membranes and processes for forward osmosis-based desalination: Recent advances and future prospects. <i>Desalination</i> , 2018, 434, 81-99.	8.2	130
16	High-performance nanocomposite membranes realized by efficient molecular sieving with CuBDC nanosheets. <i>Chemical Communications</i> , 2017, 53, 4254-4257.	4.1	116
17	A hierarchically porous nickel-copper phosphide nano-foam for efficient electrochemical splitting of water. <i>Nanoscale</i> , 2017, 9, 4401-4408.	5.6	110
18	Catalysts for chirality selective synthesis of single-walled carbon nanotubes. <i>Carbon</i> , 2015, 81, 1-19.	10.3	106

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19	Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. <i>Journal of Membrane Science</i> , 2013, 446, 244-254.	8.2	102
20	Hierarchically Structured Janus Membrane Surfaces for Enhanced Membrane Distillation Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25524-25534.	8.0	97
21	Space-confined assembly of all-carbon hybrid fibers for capacitive energy storage: realizing a built-to-order concept for micro-supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 611-622.	30.8	94
22	A review on polymer-based membranes for gas-liquid membrane contacting processes: Current challenges and future direction. <i>Separation and Purification Technology</i> , 2019, 229, 115791.	7.9	86
23	Synthesis and characterization of high-performance novel thin film nanocomposite PRO membranes with tiered nanofiber support reinforced by functionalized carbon nanotubes. <i>Journal of Membrane Science</i> , 2015, 486, 151-160.	8.2	80
24	Polymer-based membranes for solvent-resistant nanofiltration: A review. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1653-1675.	3.5	76
25	A high-performance metal-free hydrogen-evolution reaction electrocatalyst from bacterium derived carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7210-7214.	10.3	75
26	Hierarchically Structured HKUST-1 Nanocrystals for Enhanced SF ₆ Capture and Recovery. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6748-6755.	3.1	74
27	The coming of age of water channels for separation membranes: from biological to biomimetic to synthetic. <i>Chemical Society Reviews</i> , 2022, 51, 4537-4582.	38.1	70
28	Layer-by-layer assembly based low pressure biocatalytic nanofiltration membranes for micropollutants removal. <i>Journal of Membrane Science</i> , 2020, 615, 118514.	8.2	61
29	3D covalent organic framework for morphologically induced high-performance membranes with strong resistance toward physical aging. <i>Journal of Membrane Science</i> , 2019, 574, 235-242.	8.2	51
30	The roles of metal-organic frameworks in modulating water permeability of graphene oxide-based carbon membranes. <i>Carbon</i> , 2019, 148, 277-289.	10.3	50
31	Energy analysis and optimization of hollow fiber membrane contactors for recovery of dissolve methane from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2018, 554, 184-194.	8.2	48
32	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9713-9725.	10.3	46
33	Microbe-derived carbon materials for electrical energy storage and conversion. <i>Journal of Energy Chemistry</i> , 2016, 25, 191-198.	12.9	44
34	Resource recovery from industrial wastewaters by hydrophobic membrane contactors: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104242.	6.7	43
35	Unraveling the role of support membrane chemistry and pore properties on the formation of thin-film composite polyamide membranes. <i>Journal of Membrane Science</i> , 2021, 640, 119805.	8.2	43
36	Bacterial physiology is a key modulator of the antibacterial activity of graphene oxide. <i>Nanoscale</i> , 2016, 8, 17181-17189.	5.6	42

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37	Transport properties of CO ₂ and CH ₄ in hollow fiber membrane contactor for the recovery of biogas from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2017, 541, 62-72.	8.2	42
38	Fouling formation in membrane contactors for methane recovery from anaerobic effluents. <i>Journal of Membrane Science</i> , 2019, 573, 534-543.	8.2	42
39	Scalable fabrication of graphene-based laminate membranes for liquid and gas separations by crosslinking-induced gelation and doctor-blade casting. <i>Carbon</i> , 2019, 155, 129-137.	10.3	40
40	Mixed-matrix carbon molecular sieve membranes using hierarchical zeolite: A simple approach towards high CO ₂ permeability enhancements. <i>Journal of Membrane Science</i> , 2019, 588, 117220.	8.2	40
41	2D materials-based membranes for hydrogen purification: Current status and future prospects. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11389-11410.	7.1	35
42	Fast water transport through biomimetic reverse osmosis membranes embedded with peptide-attached (pR)-pillar[5]arenes water channels. <i>Journal of Membrane Science</i> , 2021, 628, 119276.	8.2	35
43	Multifunctional nitrogen-rich "brick-and-mortar" carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11061.	10.3	34
44	Leveraging Nanocrystal HKUST-1 in Mixed-Matrix Membranes for Ethylene/Ethane Separation. <i>Membranes</i> , 2020, 10, 74.	3.0	33
45	Asymmetric mixed-matrix membranes incorporated with nitrogen-doped graphene nanosheets for highly selective gas separation. <i>Journal of Membrane Science</i> , 2020, 615, 118293.	8.2	32
46	2D Material Based Advanced Membranes for Separations in Organic Solvents. <i>Small</i> , 2020, 16, e2003400.	10.0	31
47	A facile direct spray-coating of Pebax® 1657: Towards large-scale thin-film composite membranes for efficient CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2021, 638, 119708.	8.2	31
48	Synergism of Water Shock and a Biocompatible Block Copolymer Potentiates the Antibacterial Activity of Graphene Oxide. <i>Small</i> , 2016, 12, 951-962.	10.0	30
49	Controlling water transport in carbon nanotubes. <i>Nano Today</i> , 2017, 14, 13-15.	11.9	30
50	Membrane-based technologies for post-treatment of anaerobic effluents. <i>Npj Clean Water</i> , 2018, 1, .	8.0	30
51	Graphene-Based Membranes for CO ₂ /CH ₄ Separation: Key Challenges and Perspectives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2784.	2.5	29
52	Layer-by-layer aided β -cyclodextrin nanofilm for precise organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 652, 120466.	8.2	29
53	Non-covalent synthesis of thermo-responsive graphene oxide"perylene bisimides-containing poly(N-isopropylacrylamide) hybrid for organic pigment removal. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 121-128.	9.4	28
54	Liposomes-assisted fabrication of high performance thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2021, 620, 118833.	8.2	28

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55	Recent Progress in Mixed-Matrix Membranes for Hydrogen Separation. <i>Membranes</i> , 2021, 11, 666.	3.0	28
56	Pressure-retarded membrane distillation for low-grade heat recovery: The critical roles of pressure-induced membrane deformation. <i>Journal of Membrane Science</i> , 2019, 579, 90-101.	8.2	27
57	Sulfur-induced chirality changes in single-walled carbon nanotube synthesis by ethanol chemical vapor deposition on a Co/SiO ₂ catalyst. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3310-3319.	10.3	26
58	Sulfur doped Co/SiO ₂ catalysts for chirally selective synthesis of single walled carbon nanotubes. <i>Chemical Communications</i> , 2013, 49, 2031-2033.	4.1	25
59	The tripartite role of 2D covalent organic frameworks in graphene-based organic solvent nanofiltration membranes. <i>Matter</i> , 2021, 4, 2953-2969.	10.0	24
60	Metallicity-Dependent Ultrafast Water Transport in Carbon Nanotubes. <i>Small</i> , 2020, 16, e1907575.	10.0	23
61	Sub-nanogram-level engineering of ultramicroporous carbons for enhanced sulfur hexafluoride capture. <i>Carbon</i> , 2019, 155, 56-64.	10.3	22
62	Dopamine-intercalated polyelectrolyte multilayered nanofiltration membranes: Toward high permselectivity and ion-ion selectivity. <i>Journal of Membrane Science</i> , 2022, 648, 120337.	8.2	22
63	Membrane-based air dehumidification: A comparative review on membrane contactors, separative membranes and adsorptive membranes. <i>Chinese Journal of Chemical Engineering</i> , 2022, 41, 121-144.	3.5	19
64	E. coli-derived carbon with nitrogen and phosphorus dual functionalities for oxygen reduction reaction. <i>Catalysis Today</i> , 2015, 249, 228-235.	4.4	18
65	Nanosizing zeolite 5A fillers in mixed-matrix carbon molecular sieve membranes to improve gas separation performance. <i>Chemical Engineering Journal Advances</i> , 2020, 2, 100016.	5.2	18
66	Enhanced Performance of Carbon Molecular Sieve Membranes Incorporating Zeolite Nanocrystals for Air Separation. <i>Membranes</i> , 2021, 11, 489.	3.0	17
67	Narrow-chirality distributed single-walled carbon nanotube synthesis by remote plasma enhanced ethanol deposition on cobalt incorporated MCM-41 catalyst. <i>Carbon</i> , 2014, 66, 134-143.	10.3	16
68	Synthesis of free-standing carbon nanohybrid by directly growing carbon nanotubes on air-sprayed graphene oxide paper and its application in supercapacitor. <i>Journal of Solid State Chemistry</i> , 2015, 224, 45-51.	2.9	16
69	Bio-inspired super liquid-repellent membranes for membrane distillation: Mechanisms, fabrications and applications. <i>Advances in Colloid and Interface Science</i> , 2021, 297, 102547.	14.7	16
70	Perylene bisimide-incorporated water-soluble polyurethanes for living cell fluorescence labeling. <i>Polymer</i> , 2016, 82, 172-180.	3.8	14
71	Air plasma assisted spray coating of Pebax-1657 thin-film composite membranes for post-combustion CO ₂ capture. <i>Journal of Membrane Science</i> , 2022, 658, 120741.	8.2	14
72	Assessing the potential of integrally skinned asymmetric hollow fiber membranes for addressing membrane fouling in pressure retarded osmosis process. <i>Desalination</i> , 2021, 520, 115347.	8.2	10

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73	Scaling-up defect-free asymmetric hollow fiber membranes to produce oxygen-enriched gas for integration into municipal solid waste gasification process. <i>Journal of Membrane Science</i> , 2021, 640, 119787.	8.2	9
74	Recent Progress in One- and Two-Dimensional Nanomaterial-Based Electro-Responsive Membranes: Versatile and Smart Applications from Fouling Mitigation to Tuning Mass Transport. <i>Membranes</i> , 2021, 11, 5.	3.0	9
75	Understanding the effect of transverse vibration on hollow fiber membranes for submerged forward osmosis processes. <i>Journal of Membrane Science</i> , 2020, 610, 118211.	8.2	7
76	Mechanical reinforcement of polyethylene using <i>n</i> -alkyl group-functionalized multiwalled carbon nanotubes: Effect of alkyl group carbon chain length and density. <i>Polymer Engineering and Science</i> , 2014, 54, 336-344.	3.1	5
77	Emerging Materials for Mixed-Matrix Membranes. <i>Membranes</i> , 2021, 11, 746.	3.0	2