Ws Winston Ho

List of Publications by Year
in descending order

82	4,519	87723 38	102304 66
papers	citations	h-index	g-index

85	85	85	3043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New sterically hindered polyvinylamine-containing membranes for CO2 capture from flue gas. Journal of Membrane Science, 2022, 645, 120195.	4.1	12
2	Mitigated carrier saturation of facilitated transport membranes for decarbonizing dilute CO2 sources: An experimental and techno-economic study. , 2022, 2, 100014.		7
3	Matrimid substrates with bicontinuous surface and macrovoids in the bulk: A nearly ideal substrate for composite membranes in CO2 capture. Applied Energy, 2022, 311, 118624.	5.1	5
4	Computational Prediction of Water Sorption in Facilitated Transport Membranes. Journal of Physical Chemistry C, 2022, 126, 3661-3670.	1.5	9
5	Bicontinuous substrates with reduced pore restriction for CO2-selective composite membranes. Journal of Membrane Science, 2022, 654, 120547.	4.1	6
6	Moving beyond 90% Carbon Capture by Highly Selective Membrane Processes. Membranes, 2022, 12, 399.	1.4	5
7	A new measurement of amine steric hindrance â€“ N exposure. Separation and Purification Technology, 2022, 299, 121601.	3.9	4
8	Membrane processes for CO2 removal and fuel utilization enhancement for solid oxide fuel cells. Journal of Membrane Science, 2021, 620, 118846.	4.1	8
9	Enhancing membrane performance for CO2 capture from flue gas with ultrahigh MW polyvinylamine. Journal of Membrane Science, 2021, 628, 119215.	4.1	16
10	Polymeric membranes for CO2 separation and capture. Journal of Membrane Science, 2021, 628, 119244.	4.1	235
11	Facilitated transport membranes for H2 purification from coal-derived syngas: A techno-economic analysis. Journal of Membrane Science, 2021, 636, 119549.	4.1	17
12	CO2-selective membranes containing amino acid salts for CO2/N2 separation. Journal of Membrane Science, 2021, 638, 119696.	4.1	28
13	Fabrication and scale-up of multi-leaf spiral-wound membrane modules for CO2 capture from flue gas. Journal of Membrane Science, 2020, 595, 117504.	4.1	32
14	Design of Amine-Containing CO₂-Selective Membrane Process for Carbon Capture from Flue Gas. Industrial & Engineering Chemistry Research, 2020, 59, 5340-5350.	1.8	32
15	Recent developments on polymeric membranes for CO₂ capture from flue gas. Journal of Polymer Engineering, 2020, 40, 529-542.	0.6	13
16	Fluoride- and hydroxide-containing CO2-selective membranes for improving H2 utilization of solid oxide fuel cells. Journal of Membrane Science, 2020, 612, 118484.	4.1	8
17	Recent Progress in the Engineering of Polymeric Membranes for CO2 Capture from Flue Gas. Membranes, 2020, 10, 365.	1.4	42
18	Amine-Containing Membranes with Functionalized Multi-Walled Carbon Nanotubes for CO2/H2 Separation. Membranes, 2020, 10, 333.	1.4	13

#	Article	IF	Citations
19	Recent advances in polymeric facilitated transport membranes for carbon dioxide separation and hydrogen purification. Journal of Polymer Science, 2020, 58, 2435-2449.	2.0	46
20	Highly permeable polyethersulfone substrates with bicontinuous structure for composite membranes in CO2/N2 separation. Journal of Membrane Science, 2020, 612, 118443.	4.1	18
21	Computational Evaluation of Carriers in Facilitated Transport Membranes for Postcombustion Carbon Capture. Journal of Physical Chemistry C, 2020, 124, 25322-25330.	1.5	25
22	Exploring the Potential of Defective UiO-66 as Reverse Osmosis Membranes for Desalination. Journal of Physical Chemistry C, 2019, 123, 16118-16126.	1.5	35
23	Field trial of spiral-wound facilitated transport membrane module for CO2 capture from flue gas. Journal of Membrane Science, 2019, 575, 242-251.	4.1	60
24	Supported Liquid Membranes in Pharmaceutics and Biotechnology. , 2019, , 259-289.		2
25	Scale-up of amine-containing membranes for hydrogen purification for fuel cells. Journal of Membrane Science, 2019, 573, 465-475.	4.1	16
26	Simultaneous effects of temperature and vacuum and feed pressures on facilitated transport membrane for CO2/N2 separation. Journal of Membrane Science, 2019, 573, 476-484.	4.1	68
27	Fabrication and field testing of spiral-wound membrane modules for CO2 capture from flue gas. Journal of Membrane Science, 2018, 556, 126-137.	4.1	53
28	Scale-up of amine-containing thin-film composite membranes for CO2 capture from flue gas. Journal of Membrane Science, 2018, 555, 379-387.	4.1	65
29	Hydrogen purification with CO2-selective facilitated transport membranes. Current Opinion in Chemical Engineering, 2018, 21, 96-102.	3.8	16
30	Nanotube-reinforced facilitated transport membrane for CO2/N2 separation with vacuum operation. Journal of Membrane Science, 2018, 567, 261-271.	4.1	71
31	Bioinspired Metalâ€“Organic Framework for Trace CO₂ Capture. Journal of the American Chemical Society, 2018, 140, 12662-12666.	6.6	132
32	Oxidatively stable borate-containing membranes for H2 purification for fuel cells. Journal of Membrane Science, 2018, 562, 9-17.	4.1	10
33	Scale-up of zeolite-Y/polyethersulfone substrate for composite membrane fabrication in CO2 separation. Journal of Membrane Science, 2018, 562, 56-66.	4.1	26
34	Recent advances in polymeric membranes for CO2 capture. Chinese Journal of Chemical Engineering, 2018, 26, 2238-2254.	1.7	123
35	Hydrophilic and morphological modification of nanoporous polyethersulfone substrates for composite membranes in CO2 separation. Journal of Membrane Science, 2018, 565, 439-449.	4.1	29
36	Oxidatively stable membranes for CO 2 separation and H 2 purification. Journal of Membrane Science, 2017, 533, 220-228.	4.1	18

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37	SO2 interference on separation performance of amine-containing facilitated transport membranes for CO2 capture from flue gas. Journal of Membrane Science, 2017, 534, 33-45.	4.1	38
38	Preparation of ultra-stable ZIF-8 dispersions in water and ethanol. Journal of Porous Materials, 2017, 24, 1655-1660.	1.3	19
39	New sterically hindered polyvinylamine membranes for CO2 separation and capture. Journal of Membrane Science, 2017, 543, 202-211.	4.1	74
40	Facilitated transport membranes for CO₂ separation and capture. Separation Science and Technology, 2017, 52, 156-167.	1.3	115
41	High-molecular-weight polyvinylamine/piperazine glycinate membranes for CO2 capture from flue gas. Journal of Membrane Science, 2016, 514, 376-384.	4.1	92
42	Multilayer polymer/zeolite Y composite membrane structure for CO2 capture from flue gas. Journal of Membrane Science, 2016, 498, 1-13.	4.1	55
43	Amine-containing polymer/zeolite Y composite membranes for CO2/N2 separation. Journal of Membrane Science, 2016, 497, 21-28.	4.1	101
44	Rapid synthesis of faujasite/polyethersulfone composite membrane and application for CO2/N2 separation. Microporous and Mesoporous Materials, 2015, 208, 72-82.	2.2	28
45	Water vapor and CO2 transport through amine-containing facilitated transport membranes. Reactive and Functional Polymers, 2015, 86, 111-116.	2.0	40
46	Bendable Zeolite Membranes: Synthesis and Improved Gas Separation Performance. Langmuir, 2015, 31, 6894-6901.	1.6	22
47	Facilitated transport membranes containing amino-functionalized multi-walled carbon nanotubes for high-pressure CO2 separations. Journal of Membrane Science, 2015, 490, 18-28.	4.1	139
48	Fabrication of zeolite/polymer multilayer composite membranes for carbon dioxide capture: Deposition of zeolite particles on polymer supports. Journal of Colloid and Interface Science, 2015, 452, 203-214.	5.0	14
49	An experimental and modeling study of CO2-selective membranes for IGCC syngas purification. Journal of Membrane Science, 2015, 488, 56-66.	4.1	55
50	Recent developments on nanostructured polymer-based membranes. Current Opinion in Chemical Engineering, 2015, 8, 76-82.	3.8	42
51	New PebaxÂ®/zeolite Y composite membranes for CO2 capture from flue gas. Journal of Membrane Science, 2015, 495, 415-423.	4.1	101
52	Separation and Purification of Hydrogen Using CO2-Selective Facilitated Transport Membranes. Biofuels and Biorefineries, 2015, , 315-338.	0.5	3
53	High-flux reverse osmosis membranes incorporated with NaY zeolite nanoparticles for brackish water desalination. Journal of Membrane Science, 2015, 476, 373-383.	4.1	223
54	Editorial Overview - Separation engineering: Recent developments on separation science and technology. Current Opinion in Chemical Engineering, 2014, 4, vii-ix.	3.8	0

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55	Multiwalled carbon nanotube mixed matrix membranes containing amines for high pressure CO2/H2 separation. Journal of Membrane Science, 2014, 459, 233-243.	4.1	136
56	Novel reverse osmosis membranes incorporated with a hydrophilic additive for seawater desalination. Journal of Membrane Science, 2014, 455, 44-54.	4.1	127
57	Rapid Crystallization of Faujasitic Zeolites: Mechanism and Application to Zeolite Membrane Growth on Polymer Supports. Langmuir, 2014, 30, 6929-6937.	1.6	33
58	Supported liquid membranes with feed dispersion for recovery of Cephalexin. Journal of Membrane Science, 2014, 468, 423-431.	4.1	22
59	Supported liquid membranes with organic dispersion for recovery of Cephalexin. Journal of Membrane Science, 2014, 468, 90-97.	4.1	14
60	CO₂-Selective Membranes Containing Sterically Hindered Amines for CO₂/H₂ Separation. Industrial & Engineering Chemistry Research, 2013, 52, 8774-8782.	1.8	104
61	CO₂ capture and H₂ purification: Prospects for CO₂â€selective membrane processes. AICHE Journal, 2013, 59, 1033-1045.	1.8	134
62	High-flux reverse osmosis membranes incorporated with hydrophilic additives for brackish water desalination. Desalination, 2013, 308, 225-232.	4.0	92
63	Steric hindrance effect on amine demonstrated in solid polymer membranes for CO2 transport. Journal of Membrane Science, 2012, 415-416, 132-138.	4.1	145
64	Membrane processes for carbon capture from coal-fired power plant flue gas: A modeling and cost study. Journal of Membrane Science, 2012, 421-422, 299-310.	4.1	140
65	Carbon Dioxide-Selective Facilitated Transport Membranes for Hydrogen Purification. ACS Symposium Series, 2011, , 115-141.	0.5	3
66	Carbon Dioxide-Selective Membranes for High-Pressure Synthesis Gas Purification. Industrial & Engineering Chemistry Research, 2011, 50, 12152-12161.	1.8	49
67	Recent developments on membranes for post-combustion carbon capture. Current Opinion in Chemical Engineering, 2011, 1, 47-54.	3.8	63
68	Recent developments in fuelâ€processing and protonâ€exchange membranes for fuel cells. Polymer International, 2011, 60, 26-41.	1.6	29
69	Crosslinked polyvinylalcoholâ€“polysiloxane/fumed silica mixed matrix membranes containing amines for CO2/H2 separation. Journal of Membrane Science, 2011, 367, 91-102.	4.1	119
70	In situ removal of Cephalexin by supported liquid membrane with strip dispersion. Journal of Membrane Science, 2011, 367, 71-77.	4.1	28
71	Surface Modification of Nanoporous Poly(Ïµ-caprolactone) Membrane with Poly(ethylene glycol) to Prevent Biofouling: Part I. Effects of Plasma Power and Treatment Time. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 59, 923-942.	1.8	15
72	Selective Separation of Cephalexin from Multiple Component Mixtures. Industrial & Engineering Chemistry Research, 2010, 49, 12022-12030.	1.8	16

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73	Surface Modification of Nanoporous Poly(Ïµ-caprolactone) Membrane with Poly(ethylene glycol) to Prevent Biofouling: Part II. Effects of Graft Density and Chain Length. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 59, 943-957.	1.8	8
74	Supported liquid membranes with strip dispersion for the recovery of Cephalexin. Journal of Membrane Science, 2009, 342, 80-87.	4.1	45
75	Supported inorganic membranes: Promises and challenges. Jom, 2009, 61, 61-71.	0.9	22
76	New Carbon Dioxide-Selective Membranes Based on Sulfonated Polybenzimidazole (SPBI) Copolymer Matrix for Fuel Cell Applications. Industrial & Engineering Chemistry Research, 2009, 48, 2344-2354.	1.8	48
77	Carbon Dioxide Capture Using a CO₂-Selective Facilitated Transport Membrane. Industrial & Engineering Chemistry Research, 2008, 47, 1261-1267.	1.8	195
78	Hydrogen Purification for Fuel Cells by Carbon Dioxide Removal Membrane Followed by Water Gas Shift Reaction. Journal of Chemical Engineering of Japan, 2007, 40, 1011-1020.	0.3	15
79	CO2-Selective Water Gas Shift Membrane Reactor for Fuel Cell Hydrogen Processing. Industrial & Engineering Chemistry Research, 2007, 46, 2272-2279.	1.8	54
80	CO2-selective polymeric membranes containing amines in crosslinked poly(vinyl alcohol). Journal of Membrane Science, 2006, 286, 310-321.	4.1	294
81	Modeling of CO-selective water gas shift membrane reactor for fuel cell. Journal of Membrane Science, 2005, 261, 67-75.	4.1	59
82	Removal and Recovery of Metals and Other Materials by Supported Liquid Membranes with Strip Dispersion. Annals of the New York Academy of Sciences, 2003, 984, 97-122.	1.8	38