

Takeshi Matsuura

List of Publications by Year in descending order

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63
papers

3,594
citations

236612

25
h-index

155451

55
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89
all docs

89
docs citations

89
times ranked

3703
citing authors

#	ARTICLE	IF	CITATIONS
1	State-of-the-art membrane based CO ₂ separation using mixed matrix membranes (MMMs): An overview on current status and future directions. <i>Progress in Polymer Science</i> , 2014, 39, 817-861.	11.8	717
2	Wetting phenomena in membrane distillation: Mechanisms, reversal, and prevention. <i>Water Research</i> , 2018, 139, 329-352.	5.3	498
3	Metal-organic frameworks supported on nanofibers to remove heavy metals. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4550-4555.	5.2	261
4	Thermally stable polymers for advanced high-performance gas separation membranes. <i>Progress in Energy and Combustion Science</i> , 2018, 66, 1-41.	15.8	252
5	Polyimides in membrane gas separation: Monomer's molecular design and structural engineering. <i>Progress in Polymer Science</i> , 2019, 91, 80-125.	11.8	237
6	Substantial breakthroughs on function-led design of advanced materials used in mixed matrix membranes (MMMs): A new horizon for efficient CO ₂ separation. <i>Progress in Materials Science</i> , 2019, 102, 222-295.	16.0	179
7	Facile modification of ZIF-8 mixed matrix membrane for CO ₂ /CH ₄ separation: synthesis and preparation. <i>RSC Advances</i> , 2015, 5, 43110-43120.	1.7	107
8	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. <i>Water Research</i> , 2016, 89, 39-49.	5.3	94
9	Pore wetting in membrane distillation: A comprehensive review. <i>Progress in Materials Science</i> , 2021, 122, 100843.	16.0	92
10	Development of microporous substrates of polyamide thin film composite membranes for pressure-driven and osmotically-driven membrane processes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 25-59.	2.9	90
11	Review: the characterization of electrospun nanofibrous liquid filtration membranes. <i>Journal of Materials Science</i> , 2014, 49, 6143-6159.	1.7	85
12	Utilizing low ZIF-8 loading for an asymmetric PSf/ZIF-8 mixed matrix membrane for CO ₂ /CH ₄ separation. <i>RSC Advances</i> , 2015, 5, 30206-30215.	1.7	81
13	The adsorptive removal of chromium (VI) in aqueous solution by novel natural zeolite based hollow fibre ceramic membrane. <i>Journal of Environmental Management</i> , 2018, 224, 252-262.	3.8	65
14	Advances in high carbon dioxide separation performance of poly (ethylene oxide)-based membranes. <i>Journal of Energy Chemistry</i> , 2020, 46, 30-52.	7.1	65
15	Nanoporous polymer-clay hybrid membranes for gas separation. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 622-627.	5.0	54
16	Progress in transport theory and characterization method of Reverse Osmosis (RO) membrane in past fifty years. <i>Desalination</i> , 2018, 434, 2-11.	4.0	47
17	Janus graphene oxide nanosheet: A promising additive for enhancement of polymeric membranes performance prepared via phase inversion. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 10-24.	5.0	46
18	A planned review on designing of high-performance nanocomposite nanofiltration membranes for pollutants removal from water. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 101, 78-125.	2.9	43

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19	Preparation of chitosan/cellulose acetate composite nanofiltration membrane for wastewater treatment. <i>Desalination and Water Treatment</i> , 2016, 57, 14453-14460.	1.0	37
20	The Waterâ€“Energy Nexus: Solutions towards Energyâ€“Efficient Desalination. <i>Energy Technology</i> , 2017, 5, 1136-1155.	1.8	36
21	Planning of smart gating membranes for water treatment. <i>Chemosphere</i> , 2021, 283, 131207.	4.2	36
22	Effect of shrinkage on pore size and pore size distribution of different cellulosic reverse osmosis membranes. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1984, 23, 501-508.	0.5	30
23	Effect of shrinkage on pore size and pore size distribution of cellulose acetate reverse osmosis membranes. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1984, 23, 124-133.	0.5	30
24	Criteria for the selection of a support material to fabricate coated membranes for a life support device. <i>RSC Advances</i> , 2014, 4, 38711-38717.	1.7	30
25	Methods for the Preparation of Organicâ€“Inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells. , 2017, , 311-325.		30
26	Thin Film Composite and/or Thin Film Nanocomposite Hollow Fiber Membrane for Water Treatment, Pervaporation, and Gas/Vapor Separation. <i>Polymers</i> , 2018, 10, 1051.	2.0	29
27	Green Processing Mediated Novel Polyelectrolyte Nanofibers and Their Antimicrobial Evaluation. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 283-289.	1.7	25
28	Waste Reutilization in Polymeric Membrane Fabrication: A New Direction in Membranes for Separation. <i>Membranes</i> , 2021, 11, 782.	1.4	20
29	Superior interfacial design in ternary mixed matrix membranes to enhance the CO ₂ separation performance. <i>Applied Materials Today</i> , 2020, 18, 100491.	2.3	19
30	Membrane-based gas separation accelerated by quaternary mixed matrix membranes. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103655.	2.1	19
31	Effects of halloysite nanotubes on the morphology and CO ₂ /CH ₄ separation performance of Pebax/polyetherimide thinâ€“film composite membranes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48860.	1.3	18
32	Novel surface modifying macromolecules (SMMs) blended polysulfone gas separation membranes by phase inversion technique. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2287-2299.	1.3	17
33	Assessment of atomic force microscopy for characterization of PTFE membranes for membrane distillation (MD) process. <i>Desalination and Water Treatment</i> , 2015, 54, 295-304.	1.0	17
34	Fabrication and characterization of affordable hydrophobic ceramic hollow fibre membrane for contacting processes. <i>Journal of Advanced Ceramics</i> , 2017, 6, 330-340.	8.9	17
35	Porous polyethersulfone hollow fiber membrane in CO ₂ separation process via membrane contactor - The effect of nonsolvent additives. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 160-169.	1.2	14
36	Performances of poly(vinylidene fluoride-co- <i>i</i> -hexafluoropropylene) ultrafiltration membranes modified with poly(vinyl pyrrolidone). <i>Polymer Engineering and Science</i> , 2015, 55, 2482-2492.	1.5	13

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37	Effect of support layer on gas permeation properties of composite polymeric membranes. Korean Journal of Chemical Engineering, 2017, 34, 3178-3184.	1.2	13
38	Fabrication and characterization of high flux poly(vinylidene fluoride) electrospun nanofibrous membrane using amphiphilic polyethylene- <i>b</i> -block- <i>b</i> -poly(ethylene glycol) copolymer. Journal of Applied Polymer Science, 2021, 138, 50296.	1.3	11
39	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. ACS Applied Materials & Interfaces, 2016, 8, 15778-15787.	4.0	10
40	Water flux increase by inverting the membrane from its normal position – Is it occurring in FO and PRO?. Journal of Water Process Engineering, 2020, 37, 101366.	2.6	10
41	Fouling Prevention in Polymeric Membranes by Radiation Induced Graft Copolymerization. Polymers, 2022, 14, 197.	2.0	10
42	Evaluation of Apparatus for Membrane Cleaning Tests. Journal of Environmental Engineering, ASCE, 2010, 136, 1161-1170.	0.7	9
43	Performance of a newly developed hydrophilic additive blended with different ultrafiltration base polymers. Journal of Applied Polymer Science, 2010, 116, 2205-2215.	1.3	8
44	Editorial: New directions in desalination. Desalination, 2013, 308, 1.	4.0	7
45	Influence of novel surface modifying macromolecules and coagulation media on the gas permeation properties of different polymeric gas separation membranes. Journal of Applied Polymer Science, 2012, 124, 2300-2310.	1.3	6
46	Research and Development Journey and Future Trends of Hollow Fiber Membranes for Purification Applications (1970–2020): A Bibliometric Analysis. Membranes, 2021, 11, 600.	1.4	6
47	Preparation and characterisation of inexpensive porous kaolin hollow fibre as ceramic membrane supports for gas separation application. Journal of the Australian Ceramic Society, 2017, 53, 645-655.	1.1	5
48	Long-term study of CO ₂ absorption by PVDF/ZSM-5 hollow fiber mixed matrix membrane in gas-liquid contacting process. Journal of Applied Polymer Science, 2017, 134, .	1.3	5
49	The effect of ethane on the performance of commercial polyphenylene oxide and Cardo-type polyimide hollow fiber membranes in CO ₂ /CH ₄ separation applications. Korean Journal of Chemical Engineering, 2010, 27, 1876-1881.	1.2	4
50	Temperature Effects on Concentration Polarization Thickness in Thin-Film Composite Reverse Osmosis Membranes. Chemical Engineering and Technology, 2018, 41, 1905-1912.	0.9	4
51	Flux Increase Occurring When an Ultrafiltration Membrane Is Flipped from a Normal to an Inverted Position – Experiments and Theory. Membranes, 2022, 12, 129.	1.4	4
52	Tribute to S. Sourirajan: Great scientist, inventor and philosopher. Chemical Engineering Research and Design, 2020, 160, 351-355.	2.7	3
53	A reverse approach to evaluate membrane pore size distribution by the bubble gas transport method using fewer experimental data points. Desalination, 2021, 518, 115287.	4.0	3
54	Modeling and Analysis of Solar-Powered Membrane Distillation Unit for Seawater Desalination. , 0, , 231-241.		2

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55	Key factors affecting the manufacture of hydrophobic ultrafiltration membranes for surface water treatment. Journal of Applied Polymer Science, 2010, 116, 2626-2637.	1.3	1
56	Effect of MWCNTs on the Performance of Mixed-Matrix Membranes in Removing Cerium Ions from Aqueous Feed Solutions. Journal of Environmental Engineering, ASCE, 2018, 144, 04018005.	0.7	1
57	Effect of Different Additives on the Properties and Performance of Porous Polysulfone Hollow Fiber Membranes for CO2Absorption. , 0, , 191-201.		1
58	Ammonia Removal from Saline Water by Direct Contact Membrane Distillation. , 0, , 309-317.		1
59	An insight into hybrid membrane-based air conditioning system performance using gray relational analysis methods: Structural versus operational parameters. Environmental Progress and Sustainable Energy, 2022, 41, .	1.3	1
60	Modeling the Rejection Performance of Hollow Fiber Nanofiltration Membranes Modified by Negatively Charged-Modifying Macromolecule. , 2010, , .		0
61	Analysis of Fouling and Flux Behavior in Cross-Flow Microfiltration of Nonalcoholic Beer by Ceramic Membrane. , 0, , 157-167.		0
62	Comparison and Upgrading of Wastewater Treatment Plants for Wastewater Reclamation and Reuse by Means of Membrane Bioreactor (MBR) Technology. , 0, , 169-177.		0
63	Letters to the Editor Srinivasa Sourirajan collection. Journal of Membrane Science, 2022, 658, 120672.	4.1	0