Takeshi Matsuura

List of Publications by Year
in descending order

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63 papers	3,594 citations	236833 25 h-index	155592 55 g-index
89 all docs	89 docs citations	89 times ranked	3703 citing authors

#	Article	IF	Citations
1	Fouling Prevention in Polymeric Membranes by Radiation Induced Graft Copolymerization. Polymers, 2022, 14, 197.	2.0	10
2	Flux Increase Occurring When an Ultrafiltration Membrane Is Flipped from a Normal to an Inverted Positionâ€"Experiments and Theory. Membranes, 2022, 12, 129.	1.4	4
3	An insight into hybrid membraneâ€based air conditioning system performance using gray relational analysis methods: Structural versus operational parameters. Environmental Progress and Sustainable Energy, 2022, 41, .	1.3	1
4	Letters to the Editor Srinivasa Sourirajan collection. Journal of Membrane Science, 2022, 658, 120672.	4.1	0
5	Fabrication and characterization of high flux poly(vinylidene fluoride) electrospun nanofibrous membrane using amphiphilic polyethyleneâ€blockâ€poly(ethylene glycol) copolymer. Journal of Applied Polymer Science, 2021, 138, 50296.	1.3	11
6	Research and Development Journey and Future Trends of Hollow Fiber Membranes for Purification Applications (1970â€"2020): A Bibliometric Analysis. Membranes, 2021, 11, 600.	1.4	6
7	A planned review on designing of high-performance nanocomposite nanofiltration membranes for pollutants removal from water. Journal of Industrial and Engineering Chemistry, 2021, 101, 78-125.	2.9	43
8	Pore wetting in membrane distillation: A comprehensive review. Progress in Materials Science, 2021, 122, 100843.	16.0	92
9	Planning of smart gating membranes for water treatment. Chemosphere, 2021, 283, 131207.	4.2	36
10	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
11	Waste Reutilization in Polymeric Membrane Fabrication: A New Direction in Membranes for Separation. Membranes, 2021, 11, 782.	1.4	20
12	Advances in high carbon dioxide separation performance of poly (ethylene oxide)-based membranes. Journal of Energy Chemistry, 2020, 46, 30-52.	7.1	65
13	Effects of halloysite nanotubes on the morphology and CO₂/CH₄ separation performance of Pebax/polyetherimide thinâ€film composite membranes. Journal of Applied Polymer Science, 2020, 137, 48860.	1.3	18
14	Superior interfacial design in ternary mixed matrix membranes to enhance the CO2 separation performance. Applied Materials Today, 2020, 18, 100491.	2.3	19
15	Membrane-based gas separation accelerated by quaternary mixed matrix membranes. Journal of Natural Gas Science and Engineering, 2020, 84, 103655.	2.1	19
16	Water flux increase by inverting the membrane from its normal position â€" Is it occurring in FO and PRO?. Journal of Water Process Engineering, 2020, 37, 101366.	2.6	10
17	Tribute to S. Sourirajan: Great scientist, inventor and philosopher. Chemical Engineering Research and Design, 2020, 160, 351-355.	2.7	3
18	Development of microporous substrates of polyamide thin film composite membranes for pressure-driven and osmotically-driven membrane processes: A review. Journal of Industrial and Engineering Chemistry, 2019, 77, 25-59.	2.9	90

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19	Polyimides in membrane gas separation: Monomerâ€™s molecular design and structural engineering. Progress in Polymer Science, 2019, 91, 80-125.	11.8	237
20	Substantial breakthroughs on function-led design of advanced materials used in mixed matrix membranes (MMMs): A new horizon for efficient CO2 separation. Progress in Materials Science, 2019, 102, 222-295.	16.0	179
21	Metalâ€“organic frameworks supported on nanofibers to remove heavy metals. Journal of Materials Chemistry A, 2018, 6, 4550-4555.	5.2	261
22	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
23	Wetting phenomena in membrane distillation: Mechanisms, reversal, and prevention. Water Research, 2018, 139, 329-352.	5.3	498
24	Progress in transport theory and characterization method of Reverse Osmosis (RO) membrane in past fifty years. Desalination, 2018, 434, 2-11.	4.0	47
25	Thermally stable polymers for advanced high-performance gas separation membranes. Progress in Energy and Combustion Science, 2018, 66, 1-41.	15.8	252
26	Thin Film Composite and/or Thin Film Nanocomposite Hollow Fiber Membrane for Water Treatment, Pervaporation, and Gas/Vapor Separation. Polymers, 2018, 10, 1051.	2.0	29
27	Janus graphene oxide nanosheet: A promising additive for enhancement of polymeric membranes performance prepared via phase inversion. Journal of Colloid and Interface Science, 2018, 527, 10-24.	5.0	46
28	The adsorptive removal of chromium (VI) in aqueous solution by novel natural zeolite based hollow fibre ceramic membrane. Journal of Environmental Management, 2018, 224, 252-262.	3.8	65
29	Temperature Effects on Concentration Polarization Thickness in Thinâ€Film Composite Reverse Osmosis Membranes. Chemical Engineering and Technology, 2018, 41, 1905-1912.	0.9	4
30	Methods for the Preparation of Organicâ€“Inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells. , 2017, , 311-325.		30
31	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
32	Longâ€term study of CO₂ absorption by PVDF/ZSMâ€5 hollow fiber mixed matrix membrane in gasâ€“liquid contacting process. Journal of Applied Polymer Science, 2017, 134, .	1.3	5
33	The Waterâ€“Energy Nexus: Solutions towards Energyâ€Efficient Desalination. Energy Technology, 2017, 5, 1136-1155.	1.8	36
34	Effect of support layer on gas permeation properties of composite polymeric membranes. Korean Journal of Chemical Engineering, 2017, 34, 3178-3184.	1.2	13
35	Porous polyethersulfone hollow fiber membrane in CO2 separation process via membrane contactor - The effect of nonsolvent additives. Korean Journal of Chemical Engineering, 2017, 34, 160-169.	1.2	14
36	Fabrication and characterization of affordable hydrophobic ceramic hollow fibre membrane for contacting processes. Journal of Advanced Ceramics, 2017, 6, 330-340.	8.9	17

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37	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. ACS Applied Materials & Interfaces, 2016, 8, 15778-15787.	4.0	10
38	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. Water Research, 2016, 89, 39-49.	5.3	94
39	Preparation of chitosan/cellulose acetate composite nanofiltration membrane for wastewater treatment. Desalination and Water Treatment, 2016, 57, 14453-14460.	1.0	37
40	Performances of poly(vinylidene fluoride-co -hexafluoropropylene) ultrafiltration membranes modified with poly(vinyl pyrrolidone). Polymer Engineering and Science, 2015, 55, 2482-2492.	1.5	13
41	Assessment of atomic force microscopy for characterization of PTFE membranes for membrane distillation (MD) process. Desalination and Water Treatment, 2015, 54, 295-304.	1.0	17
42	Utilizing low ZIF-8 loading for an asymmetric PSf/ZIF-8 mixed matrix membrane for CO₂/CH₄ separation. RSC Advances, 2015, 5, 30206-30215.	1.7	81
43	Facile modification of ZIF-8 mixed matrix membrane for CO₂/CH₄ separation: synthesis and preparation. RSC Advances, 2015, 5, 43110-43120.	1.7	107
44	Green Processing Mediated Novel Polyelectrolyte Nanofibers and Their Antimicrobial Evaluation. Macromolecular Materials and Engineering, 2014, 299, 283-289.	1.7	25
45	State-of-the-art membrane based CO2 separation using mixed matrix membranes (MMMs): An overview on current status and future directions. Progress in Polymer Science, 2014, 39, 817-861.	11.8	717
46	Criteria for the selection of a support material to fabricate coated membranes for a life support device. RSC Advances, 2014, 4, 38711-38717.	1.7	30
47	Review: the characterization of electrospun nanofibrous liquid filtration membranes. Journal of Materials Science, 2014, 49, 6143-6159.	1.7	85
48	Editorial: New directions in desalination. Desalination, 2013, 308, 1.	4.0	7
49	Novel surface modifying macromolecules (SMMs) blended polysulfone gas separation membranes by phase inversion technique. Journal of Applied Polymer Science, 2012, 124, 2287-2299.	1.3	17
50	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
51	The effect of ethane on the performance of commercial polyphenylene oxide and Cardo-type polyimide hollow fiber membranes in CO2/CH4 separation applications. Korean Journal of Chemical Engineering, 2010, 27, 1876-1881.	1.2	4
52	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
53	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
54	Nanoporous polymer â€“ Clay hybrid membranes for gas separation. Journal of Colloid and Interface Science, 2010, 343, 622-627.	5.0	54

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55	Evaluation of Apparatus for Membrane Cleaning Tests. Journal of Environmental Engineering, ASCE, 2010, 136, 1161-1170.	0.7	9
56	Modeling the Rejection Performance of Hollow Fiber Nanofiltration Membranes Modified by Negatively Charged-Modifying Macromolecule. , 2010, , .		0
57	Effect of shrinkage on pore size and pore size distribution of different cellulosic reverse osmosis membranes. Industrial & Engineering Chemistry Product Research and Development, 1984, 23, 501-508.	0.5	30
58	Effect of shrinkage on pore size and pore size distribution of cellulose acetate reverse osmosis membranes. Industrial & Engineering Chemistry Product Research and Development, 1984, 23, 124-133.	0.5	30
59	Effect of Different Additives on the Properties and Performance of Porous Polysulfone Hollow Fiber Membranes for CO2Absorption. , 0, , 191-201.		1
60	Ammonia Removal from Saline Water by Direct Contact Membrane Distillation. , 0, , 309-317.		1
61	Modeling and Analysis of Solar-Powered Membrane Distillation Unit for Seawater Desalination. , 0, , 231-241.		2
62	Analysis of Fouling and Flux Behavior in Cross-Flow Microfiltration of Nonalcoholic Beer by Ceramic Membrane. , 0, , 157-167.		0
63	Comparison and Upgrading of Wastewater Treatment Plants for Wastewater Reclamation and Reuse by Means of Membrane Bioreactor (MBR) Technology. , 0, , 169-177.		0