

Pei Li

List of Publications by Year in descending order

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74
papers

4,154
citations

87723

38
h-index

114278

63
g-index

74
all docs

74
docs citations

74
times ranked

3363
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas sorption and permeation in PIM-1. <i>Journal of Membrane Science</i> , 2013, 432, 50-57.	4.1	200
2	High performance membranes based on ionic liquid polymers for CO ₂ separation from the flue gas. <i>Green Chemistry</i> , 2012, 14, 1052.	4.6	189
3	Fabrication of positively charged nanofiltration membrane via the layer-by-layer assembly of graphene oxide and polyethylenimine for desalination. <i>Applied Surface Science</i> , 2016, 387, 521-528.	3.1	185
4	Molecular engineering of PIM-1/Matrimid blend membranes for gas separation. <i>Journal of Membrane Science</i> , 2012, 407-408, 47-57.	4.1	176
5	Room temperature ionic liquid/ZIF-8 mixed-matrix membranes for natural gas sweetening and post-combustion CO ₂ capture. <i>Journal of Membrane Science</i> , 2013, 436, 221-231.	4.1	174
6	Reverse-selective polymeric membranes for gas separations. <i>Progress in Polymer Science</i> , 2013, 38, 740-766.	11.8	166
7	Tailoring the molecular structure of crosslinked polymers for pervaporation desalination. <i>Nature Communications</i> , 2020, 11, 1461.	5.8	141
8	PVDF/ionic liquid polymer blends with superior separation performance for removing CO ₂ from hydrogen and flue gas. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11796-11804.	3.8	135
9	The effects of substrate characteristics and pre-wetting agents on PAN/PDMS composite hollow fiber membranes for CO ₂ /N ₂ and O ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2013, 434, 18-25.	4.1	130
10	CO ₂ Separation from Flue Gas Using Polyvinyl-(Room Temperature Ionic Liquid)-Room Temperature Ionic Liquid Composite Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9344-9353.	1.8	116
11	High performance composite hollow fiber membranes for CO ₂ /H ₂ and CO ₂ /N ₂ separation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5043-5053.	3.8	116
12	Electrospun Microfibrous Membranes Based on PIM-1/POSS with High Oil Wettability for Separation of Oil/Water Mixtures and Cleanup of Oil Soluble Contaminants. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8772-8781.	1.8	111
13	Preparation of graphene oxide modified poly(m-phenylene isophthalamide) nanofiltration membrane with improved water flux and antifouling property. <i>Applied Surface Science</i> , 2017, 394, 149-159.	3.1	106
14	Decarboxylation crosslinking of polyimides with high CO ₂ /CH ₄ separation performance and plasticization resistance. <i>Journal of Membrane Science</i> , 2017, 528, 206-216.	4.1	100
15	Fabrication of Superhydrophobic/Superoleophilic Fabrics by an Etching and Dip-Coating Two-Step Method for Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5030-5035.	1.8	91
16	Natural gas purification and olefin/paraffin separation using cross-linkable 6FDA-Durene/DABA co-polyimides grafted with β , γ , and δ -cyclodextrin. <i>Journal of Membrane Science</i> , 2012, 390-391, 141-151.	4.1	84
17	Thermal oxidative crosslinking of phenolphthalein-based cardo polyimides with enhanced gas permeability and selectivity. <i>Journal of Membrane Science</i> , 2018, 546, 90-99.	4.1	83
18	Temperature dependence of gas sorption and permeation in PIM-1. <i>Journal of Membrane Science</i> , 2014, 450, 380-388.	4.1	82

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19	PIM-1 as an organic filler to enhance the gas separation performance of Ultem polyetherimide. <i>Journal of Membrane Science</i> , 2014, 453, 614-623.	4.1	76
20	Perfluorooctane sulfonate removal by nanofiltration membrane—the effect and interaction of magnesium ion / humic acid. <i>Journal of Membrane Science</i> , 2016, 503, 31-41.	4.1	75
21	Improving the pervaporation performance of PDMS membranes for n-butanol by incorporating silane-modified ZIF-8 particles. <i>Separation and Purification Technology</i> , 2019, 215, 163-172.	3.9	72
22	Water permeance, permeability and desalination properties of the sulfonic acid functionalized composite pervaporation membranes. <i>Desalination</i> , 2018, 433, 132-140.	4.0	70
23	Post-crosslinking of triptycene-based Tröger's base polymers with enhanced natural gas separation performance. <i>Journal of Membrane Science</i> , 2018, 556, 277-284.	4.1	69
24	Fabrication of novel poly(m-phenylene isophthalamide) hollow fiber nanofiltration membrane for effective removal of trace amount perfluorooctane sulfonate from water. <i>Journal of Membrane Science</i> , 2015, 477, 74-85.	4.1	64
25	Boosting pervaporation performance by promoting organic permeability and simultaneously inhibiting water transport via blending PDMS with COF-300. <i>Journal of Membrane Science</i> , 2019, 579, 141-150.	4.1	64
26	Effects of the side groups of the spirobichroman-based diamines on the chain packing and gas separation properties of the polyimides. <i>Journal of Membrane Science</i> , 2017, 530, 176-184.	4.1	62
27	Compatibilizing hydrophilic and hydrophobic polymers via spray coating for desalination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8462-8468.	5.2	60
28	Synthesis of copolyimides based on room temperature ionic liquid diamines. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4036-4046.	2.5	58
29	Approaches to Suppress CO ₂ -Induced Plasticization of Polyimide Membranes in Gas Separation Applications. <i>Processes</i> , 2019, 7, 51.	1.3	57
30	Short- and Long-Term Performance of the Thin-Film Composite Forward Osmosis (TFC-FO) Hollow Fiber Membranes for Oily Wastewater Purification. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14056-14064.	1.8	50
31	Selective adsorption and separation of organic dyes in aqueous solutions by hydrolyzed PIM-1 microfibers. <i>Chemical Engineering Research and Design</i> , 2016, 109, 76-85.	2.7	50
32	Effects of sub-T _g cross-linking of triptycene-based polyimides on gas permeation, plasticization resistance and physical aging properties. <i>Journal of Membrane Science</i> , 2018, 560, 87-96.	4.1	50
33	Elucidating the impact of polymer crosslinking and fixed carrier on enhanced water transport during desalination using pervaporation membranes. <i>Journal of Membrane Science</i> , 2019, 575, 135-146.	4.1	49
34	High-Flux Direct-Contact Pervaporation Membranes for Desalination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28461-28468.	4.0	48
35	Effects of dope compositions on morphologies and separation performances of PMDA-ODA polyimide hollow fiber membranes in aqueous and organic solvent systems. <i>Applied Surface Science</i> , 2019, 473, 1038-1048.	3.1	46
36	Synthesis of room temperature ionic liquids based random copolyimides for gas separation applications. <i>European Polymer Journal</i> , 2013, 49, 482-491.	2.6	44

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37	Fabrication of high-performance PVA/PAN composite pervaporation membranes crosslinked by PMDA for wastewater desalination. <i>Petroleum Science</i> , 2018, 15, 146-156.	2.4	42
38	Aging and carbon dioxide plasticization of thin polyetherimide films. <i>Polymer</i> , 2012, 53, 2099-2108.	1.8	41
39	High-performance sulfosuccinic acid cross-linked PVA composite pervaporation membrane for desalination. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 312-320.	1.2	40
40	Fabrication of High Performance Pervaporation Desalination Composite Membranes by Optimizing the Support Layer Structures. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11178-11185.	1.8	39
41	Fabrication of PMDA-ODA hollow fibers with regular cross-section morphologies and study on the formation mechanism. <i>Journal of Membrane Science</i> , 2017, 544, 1-11.	4.1	38
42	Highly selective sodium alginate mixed-matrix membrane incorporating multi-layered MXene for ethanol dehydration. <i>Separation and Purification Technology</i> , 2020, 235, 116206.	3.9	38
43	Effect of non-solvent additives on the morphology and separation performance of poly(m-phenylene) Tj ETQq1 1 0,784314 r _g BT /Overl	4.0	37
44	Removal of perfluorooctane sulfonates from water by a hybrid coagulation–nanofiltration process. <i>Chemical Engineering Journal</i> , 2016, 289, 7-16.	6.6	37
45	Fabrication of pervaporation desalination membranes with excellent chemical resistance for chemical washing. <i>Journal of Membrane Science</i> , 2020, 611, 118367.	4.1	29
46	Fabrication of high-performance composite membranes based on hierarchically structured electrospun nanofiber substrates for pervaporation desalination. <i>Journal of Membrane Science</i> , 2021, 638, 119672.	4.1	27
47	Preparation of pervaporation membranes by interfacial polymerization for acid wastewater purification. <i>Chemical Engineering Research and Design</i> , 2020, 156, 171-179.	2.7	26
48	Insight into the influence of humic acid and sodium alginate fractions on membrane fouling in coagulation-ultrafiltration combined system. <i>Environmental Research</i> , 2020, 191, 110228.	3.7	25
49	Formation of Macrovoid-Free PMDA-MDA Polyimide Membranes Using a Gelation/Non-Solvent-Induced Phase Separation Method for Organic Solvent Nanofiltration. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6712-6720.	1.8	24
50	An efficient method allowing for continuous preparation of PDMS/PVDF composite membrane. <i>AIChE Journal</i> , 2019, 65, e16710.	1.8	22
51	Fabricating thin-film composite membranes for pervaporation desalination via photo-crosslinking. <i>Desalination</i> , 2021, 512, 115128.	4.0	22
52	Electrospun polymer of intrinsic microporosity fibers and their use in the adsorption of contaminants from a nonaqueous system. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	21
53	Oxidative crosslinking of copolyimides at sub-T _g temperatures to enhance resistance against CO ₂ -induced plasticization. <i>Journal of Membrane Science</i> , 2019, 583, 40-48.	4.1	21
54	Studies on the fouling behavior and cleaning method of pervaporation desalination membranes for reclamation of reverse osmosis concentrated water. <i>Separation and Purification Technology</i> , 2021, 274, 119034.	3.9	21

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55	Molecular Design of Triptycene-Based Polymers Containing Spirobichroman Structure for Gas Separation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12783-12788.	1.8	18
56	Decarboxylation Cross-Linking of Triptycene-Based Triptycene-Based Polymers for Gas Separation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18640-18648.	1.8	16
57	Preparation of Thermally Imidized Polyimide Nanofiltration Membranes with Macrovoid-Free Structures. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14096-14105.	1.8	16
58	Effects of Spinning Temperature on the Morphology and Performance of Poly(ether sulfone) Gas Separation Hollow Fiber Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 329-338.	1.8	13
59	Fabrication of high-performance pervaporation membrane for sulfuric acid recovery via interfacial polymerization. <i>Journal of Membrane Science</i> , 2021, 624, 119108.	4.1	12
60	Gas transport properties in (6FDA-TRIL)- <i>6</i> (6FDA-MDA) block copolyimides. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	11
61	Preparation and Gas Separation Properties of Spirobichroman-Based Polyimides. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800157.	1.1	11
62	Molecular design of chlorine-resistant polymer for pervaporation desalination. <i>Separation and Purification Technology</i> , 2021, 268, 118671.	3.9	9
63	Enhancing the property of composite pervaporation desalination membrane by fabricating a less resistance substrate with porous but skinless surface structure. <i>Desalination</i> , 2022, 525, 115496.	4.0	9
64	Carbon molecular sieve hollow fiber composite membrane derived from PMDA-ODA polyimide for gas separation. <i>High Performance Polymers</i> , 2022, 34, 444-454.	0.8	8
65	Spray-coated tough thin film composite membrane for pervaporation desalination. <i>Chemical Engineering Research and Design</i> , 2022, 179, 493-501.	2.7	7
66	Preparation of defect-free hollow fiber membranes derived from PMDA-ODA polyimide for gas separation. <i>Chemical Engineering Research and Design</i> , 2022, 179, 154-161.	2.7	6
67	Polystyrene derivative-blended nanocomposite membranes for pervaporation dehydration of hydrazine. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 587-603.	1.2	5
68	Microwave-induced ultrafast crosslinking of Poly (vinyl alcohol) blended with nanoparticles as wave absorber for pervaporation desalination. , 2022, 2, 100021.		5
69	Designing an atmosphere controlling hollow fiber membrane system for mango preservation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2019-2026.	1.2	2
70	Preparation of UiO-66/DMBPTB and UiO-66-NH ₂ /DMBPTB Nanocomposite Membranes with Enhanced CO ₂ /CH ₄ Selectivity for Gas Separation. <i>ChemistrySelect</i> , 2020, 5, 14251-14260.	0.7	2
71	A chemical imidization method to avoid pore collapsing and selective layer thickening of PMDA-ODA polyimide nanofiltration membranes. , 0, 115, 33-44.		2
72	Special Issue on "Novel Membrane Technologies for Traditional Industrial Processes". <i>Processes</i> , 2019, 7, 144.	1.3	1

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73	Tubular membranes and modules. , 2021, , 431-448.		1
74	Fabrication of high-performance pervaporation composite membrane for alkaline wastewater reclamation. Frontiers of Chemical Science and Engineering, 0, , 1.	2.3	1