

Shi-Peng Sun

List of Publications by Year in descending order

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75
papers

5,279
citations

81434

41
h-index

100535

70
g-index

75
all docs

75
docs citations

75
times ranked

4468
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(vinylidene fluoride-co-hexafluoro propylene) membranes prepared via thermally induced phase separation and application in direct contact membrane distillation. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 720-730.	2.3	5
2	Solvent remelted nylon polyamide nanofibrous substrate that enhances thin-film composite membranes for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2022, 285, 120322.	3.9	10
3	Solvation-amination-synergy that neutralizes interfacially polymerized membranes for ultrahigh selective nanofiltration. <i>AIChE Journal</i> , 2022, 68, .	1.8	23
4	Voltage-Gated Membranes Incorporating Cucurbit[<i>n</i>]uril Molecular Containers for Molecular Nanofiltration. <i>Journal of the American Chemical Society</i> , 2022, 144, 6483-6492.	6.6	49
5	Designing durable self-cleaning nanofiltration membranes via sol-gel assisted interfacial polymerization for textile wastewater treatment. <i>Separation and Purification Technology</i> , 2022, 289, 120752.	3.9	25
6	Precipitation/Nanofiltration Hybrid Process to Purify Esomeprazole from Phosphate-Containing Bioreaction Solution. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6673-6681.	1.8	2
7	Constructing positively charged acid-resistant nanofiltration membranes via surface postgrafting for efficient removal of metal ions from electroplating rinse wastewater. <i>Separation and Purification Technology</i> , 2022, 297, 121500.	3.9	24
8	High-permeability and anti-fouling nanofiltration membranes decorated by asymmetric organic phosphate. <i>Journal of Membrane Science</i> , 2021, 617, 118667.	4.1	43
9	Electrospun transition layer that enhances the structure and performance of thin-film nanofibrous composite membranes. <i>Journal of Membrane Science</i> , 2021, 620, 118927.	4.1	20
10	Scalable conductive polymer membranes for ultrafast organic pollutants removal. <i>Journal of Membrane Science</i> , 2021, 617, 118644.	4.1	52
11	Hollow fiber spinning of dual-layer membranes. , 2021, , 253-274.		1
12	Dual-layer membrane with hierarchical hydrophobicity and transport channels for nonpolar organic solvent nanofiltration. <i>AIChE Journal</i> , 2021, 67, e17138.	1.8	17
13	Hollow fibers for nanofiltration/organic solvent nanofiltration. , 2021, , 449-472.		0
14	Highly solvent-durable thin-film molecular sieve membranes with insoluble polyimide nanofibrous substrate. <i>Chemical Engineering Journal</i> , 2021, 409, 128206.	6.6	35
15	Nanocapsule controlled interfacial polymerization finely tunes membrane surface charge for precise molecular sieving. <i>Chemical Engineering Journal</i> , 2021, 409, 128198.	6.6	26
16	Enhancing interfacial adhesion of MXene nanofiltration membranes via pillaring carbon nanotubes for pressure and solvent stable molecular sieving. <i>Journal of Membrane Science</i> , 2021, 623, 119033.	4.1	32
17	Inner-selective coordination nanofiltration hollow fiber membranes from assist-pressure modified substrate. <i>Journal of Membrane Science</i> , 2021, 626, 119186.	4.1	16
18	Designing scalable dual-layer composite hollow fiber nanofiltration membranes with fully cross-linked ultrathin functional layer. <i>Journal of Membrane Science</i> , 2021, 628, 119243.	4.1	26

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19	Amine-terminated carbon quantum dots (CQDs-terminated NH ₂) tailored polymeric loose nanofiltration membrane for precise molecular separation. <i>Chemical Engineering Research and Design</i> , 2021, 171, 237-246.	2.7	17
20	Understanding the role of substrates on thin film composite membranes: A green solvent approach with TamiSolve [®] NxG. <i>Journal of Membrane Science</i> , 2021, 635, 119530.	4.1	22
21	Multi-component separation of small molecular/ionic pollutants with smart pH-gating membranes. <i>Chemical Engineering Science</i> , 2021, 245, 116854.	1.9	24
22	Robust braid reinforced hollow fiber membranes for organic solvent nanofiltration (OSN)., 2021, 1, 100007.		14
23	Tailoring nanofiltration membranes for effective removing dye intermediates in complex dye-wastewater. <i>Journal of Membrane Science</i> , 2020, 595, 117476.	4.1	114
24	Carbon quantum dots (CQDs) nanofiltration membranes towards efficient biogas slurry valorization. <i>Chemical Engineering Journal</i> , 2020, 385, 123993.	6.6	65
25	Self-Cleaning Nanofiltration Membranes by Coordinated Regulation of Carbon Quantum Dots and Polydopamine. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 580-590.	4.0	92
26	The encouraging improvement of polyamide nanofiltration membrane by cucurbituril-based host-guest chemistry. <i>AIChE Journal</i> , 2020, 66, e16879.	1.8	64
27	Encapsulated Polyethyleneimine Enables Synchronous Nanostructure Construction and <i>In Situ</i> Functionalization of Nanofiltration Membranes. <i>Nano Letters</i> , 2020, 20, 8185-8192.	4.5	34
28	Bridging the miscibility gap to fabricate delamination-free dual-layer nanofiltration membranes via incorporating fluoro substituted aromatic amine. <i>Journal of Membrane Science</i> , 2020, 610, 118270.	4.1	33
29	Separation of ions with equivalent and similar molecular weights by nanofiltration: Sodium chloride and sodium acetate as an example. <i>Separation and Purification Technology</i> , 2020, 250, 117199.	3.9	23
30	Recycling Plastic Waste for Environmental Remediation in Water Purification and CO ₂ Capture. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2586-2593.	2.0	22
31	Precisely Patterned Nanostrand Surface of Cucurbituril-Based Nanofiltration Membranes for Effective Alcohol-Water Condensation. <i>Nano Letters</i> , 2020, 20, 2717-2723.	4.5	66
32	Zero liquid discharge hybrid membrane process for separation and recovery of ions with equivalent and similar molecular weights. <i>Desalination</i> , 2020, 482, 114387.	4.0	27
33	Designing nanofiltration hollow fiber membranes based on dynamic deposition technology. <i>Journal of Membrane Science</i> , 2020, 610, 118336.	4.1	12
34	Pilot-scale fabrication of nanofiltration membranes and spiral-wound modules. <i>Chemical Engineering Research and Design</i> , 2020, 160, 395-404.	2.7	6
35	Perfluoro-functionalized polyethyleneimine that enhances antifouling property of nanofiltration membranes. <i>Journal of Membrane Science</i> , 2020, 611, 118286.	4.1	41
36	The establishment of high-performance anti-fouling nanofiltration membranes via cooperation of annular supramolecular Cucurbit[6]uril and dendritic polyamidoamine. <i>Journal of Membrane Science</i> , 2020, 600, 117863.	4.1	47

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37	MoS ₂ Membranes for Organic Solvent Nanofiltration: Stability and Structural Control. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4609-4617.	2.1	57
38	Designing High-Performance Nanofiltration Membranes for High-Salinity Separation of Sulfate and Chloride in the Chlor-Alkali Process. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12280-12290.	1.8	54
39	One-step enhancement of solvent transport, stability and photocatalytic properties of graphene oxide/polyimide membranes with multifunctional cross-linkers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3170-3178.	5.2	102
40	Efficient surface ionization and metallization of TFC membranes with superior separation performance, antifouling and anti-bacterial properties. <i>Journal of Membrane Science</i> , 2019, 586, 84-97.	4.1	51
41	Continuous flow knitting of a triptycene hypercrosslinked polymer. <i>Chemical Communications</i> , 2019, 55, 8571-8574.	2.2	22
42	Unidirectional diffusion synthesis of covalent organic frameworks (COFs) on polymeric substrates for dye separation. <i>Journal of Membrane Science</i> , 2019, 586, 274-280.	4.1	120
43	Amphibian-inspired amino acid ionic liquid functionalized nanofiltration membranes with high water permeability and ion selectivity for pigment wastewater treatment. <i>Journal of Membrane Science</i> , 2019, 586, 44-52.	4.1	87
44	Surface enriched sulfonated polyarylene ether benzonitrile (SPEB) that enhances heavy metal removal from polyacrylonitrile (PAN) thin-film composite nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019, 580, 214-223.	4.1	85
45	Graphene oxide/cross-linked polyimide (GO/CLPI) composite membranes for organic solvent nanofiltration. <i>Chemical Engineering Research and Design</i> , 2019, 146, 182-189.	2.7	27
46	Developing high-performance thin-film composite forward osmosis membranes by various tertiary amine catalysts for desalination. <i>Advanced Composites and Hybrid Materials</i> , 2019, 2, 51-69.	9.9	37
47	New surface cross-linking method to fabricate positively charged nanofiltration membranes for dye removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2281-2291.	1.6	43
48	Atomic layer deposition of metal oxides on carbon nanotube fabrics for robust, hydrophilic ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2018, 550, 246-253.	4.1	34
49	Wide liquid-liquid phase separation region enhancing tensile strength of poly(vinylidene fluoride) membranes via TIPS method with a new diluent. <i>Polymer</i> , 2018, 141, 46-53.	1.8	44
50	Layer-by-Layer Synthesis of Covalent Organic Frameworks on Porous Substrates for Fast Molecular Separations. <i>ACS Applied Nano Materials</i> , 2018, 1, 6320-6326.	2.4	63
51	Structure design and applications of dual-layer polymeric membranes. <i>Journal of Membrane Science</i> , 2018, 562, 85-111.	4.1	94
52	Electrospun nanofiber substrates that enhance polar solvent separation from organic compounds in thin-film composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15047-15056.	5.2	125
53	A hydrophilicity gradient control mechanism for fabricating delamination-free dual-layer membranes. <i>Journal of Membrane Science</i> , 2017, 539, 392-402.	4.1	63
54	Green modification of outer selective P84 nanofiltration (NF) hollow fiber membranes for cadmium removal. <i>Journal of Membrane Science</i> , 2016, 499, 361-369.	4.1	109

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55	Integration of Nanofiltration Hollow Fiber Membranes with Coagulation–Flocculation to Treat Colored Wastewater from a Dyestuff Manufacturer: A Pilot-Scale Study. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11159-11166.	1.8	49
56	Facile Synthesis of Dual-Layer Organic Solvent Nanofiltration (OSN) Hollow Fiber Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3019-3023.	3.2	97
57	Unraveling flux behavior of superhydrophilic loose nanofiltration membranes during textile wastewater treatment. <i>Journal of Membrane Science</i> , 2015, 493, 690-702.	4.1	203
58	Poly(amidoamine) dendrimer (PAMAM) grafted on thin film composite (TFC) nanofiltration (NF) hollow fiber membranes for heavy metal removal. <i>Journal of Membrane Science</i> , 2015, 487, 117-126.	4.1	233
59	A slow–fast phase separation (SFPS) process to fabricate dual-layer hollow fiber substrates for thin-film composite (TFC) organic solvent nanofiltration (OSN) membranes. <i>Chemical Engineering Science</i> , 2015, 129, 232-242.	1.9	69
60	Pressure retarded osmosis dual-layer hollow fiber membranes developed by co-casting method and ammonium persulfate (APS) treatment. <i>Journal of Membrane Science</i> , 2014, 469, 488-498.	4.1	55
61	Enhancement of flux and solvent stability of Matrimid [®] thin-film composite membranes for organic solvent nanofiltration. <i>AIChE Journal</i> , 2014, 60, 3623-3633.	1.8	119
62	Dual-layer polybenzimidazole/polyethersulfone (PBI/PES) nanofiltration (NF) hollow fiber membranes for heavy metals removal from wastewater. <i>Journal of Membrane Science</i> , 2014, 456, 117-127.	4.1	222
63	Nanofiltration hollow fiber membranes for textile wastewater treatment: Lab-scale and pilot-scale studies. <i>Chemical Engineering Science</i> , 2014, 114, 51-57.	1.9	160
64	Chelating polymer modified P84 nanofiltration (NF) hollow fiber membranes for high efficient heavy metal removal. <i>Water Research</i> , 2014, 63, 252-261.	5.3	231
65	Treatment of highly concentrated wastewater containing multiple synthetic dyes by a combined process of coagulation/flocculation and nanofiltration. <i>Journal of Membrane Science</i> , 2014, 469, 306-315.	4.1	407
66	Polyethyleneimine (PEI) cross-linked P84 nanofiltration (NF) hollow fiber membranes for Pb ²⁺ removal. <i>Journal of Membrane Science</i> , 2014, 452, 300-310.	4.1	182
67	POSS-containing delamination-free dual-layer hollow fiber membranes for forward osmosis and osmotic power generation. <i>Journal of Membrane Science</i> , 2013, 443, 144-155.	4.1	97
68	Outer-Selective Pressure-Retarded Osmosis Hollow Fiber Membranes from Vacuum-Assisted Interfacial Polymerization for Osmotic Power Generation. <i>Environmental Science & Technology</i> , 2013, 47, 13167-13174.	4.6	98
69	Structural Control and Chemical Functionalization of Dual-Layer Nanofiltration Hollow Fiber Membranes for Efficient Waste Water Treatment. <i>Procedia Engineering</i> , 2012, 44, 635-636.	1.2	0
70	Novel thin-film composite nanofiltration hollow fiber membranes with double repulsion for effective removal of emerging organic matters from water. <i>Journal of Membrane Science</i> , 2012, 401-402, 152-162.	4.1	199
71	Molecular design of thin film composite (TFC) hollow fiber membranes for isopropanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , 2012, 405-406, 123-133.	4.1	106
72	Hyperbranched Polyethyleneimine Induced Cross-Linking of Polyamide–imide Nanofiltration Hollow Fiber Membranes for Effective Removal of Ciprofloxacin. <i>Environmental Science & Technology</i> , 2011, 45, 4003-4009.	4.6	210

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73	Polyamide-imide nanofiltration hollow fiber membranes with elongation-induced nanopore evolution. AICHE Journal, 2010, 56, 1481-1494.	1.8	82
74	Novel polyamide-imide/cellulose acetate dual-layer hollow fiber membranes for nanofiltration. Journal of Membrane Science, 2010, 363, 232-242.	4.1	108
75	Energy Consumption of Nanofiltration Diafiltration Process: Identifying the Optimal Conditions of Continuous and Intermittent Feed Diafiltration. Industrial & Engineering Chemistry Research, 0, , .	1.8	6