Yun-Xia Hu

List of Publications by Year
in descending order

87	4,334	81900 39	118850 62
papers	citations	h-index	g-index

87	87	87	4547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Omniphobic Membrane for Robust Membrane Distillation. Environmental Science and Technology Letters, 2014, 1, 443-447.	8.7	288
2	New Insights into the Role of an Interlayer for the Fabrication of Highly Selective and Permeable Thin-Film Composite Nanofiltration Membrane. ACS Applied Materials & Interfaces, 2019, 11, 7349-7356.	8.0	234
3	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. Nature Sustainability, 2020, 3, 981-990.	23.7	195
4	High-Performance Thin-Film Composite Membrane with an Ultrathin Spray-Coated Carbon Nanotube Interlayer. Environmental Science and Technology Letters, 2018, 5, 243-248.	8.7	176
5	Systemic Delivery of Modified mRNA Encoding Herpes Simplex Virus 1 Thymidine Kinase for Targeted Cancer Gene Therapy. Molecular Therapy, 2013, 21, 358-367.	8.2	164
6	A Highly Efficient Synthetic Vector: Nonhydrodynamic Delivery of DNA to Hepatocyte Nuclei in Vivo. ACS Nano, 2013, 7, 5376-5384.	14.6	100
7	Amphiphobic surface modification of electrospun nanofibrous membranes for anti-wetting performance in membrane distillation. Desalination, 2018, 432, 23-31.	8.2	96
8	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.	5.8	90
9	Fabrication of antifouling thin-film composite nanofiltration membrane via surface grafting of polyethyleneimine followed by zwitterionic modification. Journal of Membrane Science, 2021, 619, 118564.	8.2	88
10	Modification of thin film composite polyamide membranes with 3D hyperbranched polyglycerol for simultaneous improvement in their filtration performance and antifouling properties. Journal of Materials Chemistry A, 2017, 5, 23190-23197.	10.3	87
11	Fabrication and characterization of a high performance polyimide ultrafiltration membrane for dye removal. Journal of Colloid and Interface Science, 2020, 562, 589-597.	9.4	87
12	Continuous juice concentration by integrating forward osmosis with membrane distillation using potassium sorbate preservative as a draw solute. Journal of Membrane Science, 2019, 573, 192-199.	8.2	85
13	Sustainable Antibiofouling Properties of Thin Film Composite Forward Osmosis Membrane with Rechargeable Silver Nanoparticles Loading. ACS Applied Materials & Interfaces, 2016, 8, 21666-21673.	8.0	82
14	Electropolymerization of robust conjugated microporous polymer membranes for rapid solvent transport and narrow molecular sieving. Nature Communications, 2020, 11, 5323.	12.8	80
15	Nanoparticle Delivery of Pooled siRNA for Effective Treatment of Non-Small Cell Lung Caner. Molecular Pharmaceutics, 2012, 9, 2280-2289.	4.6	79
16	In Situ Surface Modification of Thin-Film Composite Polyamide Membrane with Zwitterions for Enhanced Chlorine Resistance and Transport Properties. ACS Applied Materials & Interfaces, 2019, 11, 12043-12052.	8.0	78
17	Construction of an electroneutral zinc incorporated polymer network nanocomposite membrane with enhanced selectivity for salt/dye separation. Chemical Engineering Journal, 2020, 380, 122560.	12.7	75
18	Influence of polyethylene glycol density and surface lipid on pharmacokinetics and biodistribution of lipid-calcium-phosphate nanoparticles. Biomaterials, 2014, 35, 3027-3034.	11.4	73

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19	Membrane fouling of forward osmosis in dewatering of soluble algal products: Comparison of TFC and CTA membranes. Journal of Membrane Science, 2018, 552, 213-221.	8.2	70
20	Characteristics and influencing factors of organic fouling in forward osmosis operation for wastewater applications: A comprehensive review. Environment International, 2019, 129, 164-184.	10.0	67
21	End-Functionalized Phosphorylcholine Methacrylates and their Use in Protein Conjugation. Biomacromolecules, 2008, 9, 2891-2897.	5.4	64
22	ABC Triblock Copolymer Vesicles with Mesh-Like Morphology. ACS Nano, 2011, 5, 486-492.	14.6	64
23	Fabrication of a Novel Nanofiltration Membrane with Enhanced Performance via Interfacial Polymerization through the Incorporation of a New Zwitterionic Diamine Monomer. ACS Applied Materials & Interfaces, 2019, 11, 42846-42855.	8.0	62
24	Highly efficient flow-through catalytic reduction of methylene blue using silver nanoparticles functionalized cotton. Chemical Engineering Journal, 2020, 388, 124252.	12.7	62
25	High-flux robust PSf-b-PEG nanofiltration membrane for the precise separation of dyes and salts. Chemical Engineering Journal, 2021, 405, 127051.	12.7	62
26	Surface Engineering of Thin Film Composite Polyamide Membranes with Silver Nanoparticles through Layer-by-Layer Interfacial Polymerization for Antibacterial Properties. ACS Applied Materials & Interfaces, 2017, 9, 40987-40997.	8.0	58
27	Tailoring Membrane Surface Properties and Ultrafiltration Performances via the Self-Assembly of Polyethylene Glycol-block-Polysulfone-block-Polyethylene Glycol Block Copolymer upon Thermal and Solvent Annealing. ACS Applied Materials & Interfaces, 2017, 9, 31018-31030.	8.0	57
28	Effect of membrane wetting on the performance of PVDF and PTFE membranes in the concentration of pomegranate juice through osmotic distillation. Journal of Membrane Science, 2019, 584, 66-78.	8.2	56
29	Fabrication of high performance polyamide reverse osmosis membrane from monomer 4-morpholino-m-phenylenediamine and tailoring with zwitterions. Desalination, 2020, 473, 114169.	8.2	56
30	Optimization and organic fouling behavior of zwitterion-modified thin-film composite polyamide membrane for water reclamation: A comprehensive study. Journal of Membrane Science, 2020, 596, 117748.	8.2	56
31	ALD-seeded hydrothermally-grown Ag/ZnO nanorod PTFE membrane as efficient indoor air filter. Journal of Membrane Science, 2017, 531, 86-93.	8.2	51
32	Facile and efficient in situ synthesis of silver nanoparticles on diverse filtration membrane surfaces for antimicrobial performance. Applied Surface Science, 2018, 456, 95-103.	6.1	48
33	Tailoring the morphology of polyethersulfone/sulfonated polysulfone ultrafiltration membranes for highly efficient separation of oil-in-water emulsions using TiO2 nanoparticles. Journal of Membrane Science, 2021, 620, 118868.	8.2	48
34	Structural tailoring of hierarchical fibrous composite membranes to balance mass transfer and heat transfer for state-of-the-art desalination performance in membrane distillation. Journal of Materials Chemistry A, 2019, 7, 2376-2384.	10.3	47
35	Sustainable catalytic properties of silver nanoparticles supported montmorillonite for highly efficient recyclable reduction of methylene blue. Applied Clay Science, 2017, 150, 47-55.	5.2	46
36	Preparation of high performance TFC RO membranes by surface grafting of small-molecule zwitterions. Journal of Membrane Science, 2020, 608, 118209.	8.2	46

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37	Improving the perm-selectivity and anti-fouling property of UF membrane through the micro-phase separation of PSf-b-PEG block copolymers. Journal of Membrane Science, 2020, 599, 117851.	8.2	46
38	Improved Anti-Biofouling Performance of Thin -Film Composite Forward-Osmosis Membranes Containing Passive and Active Moieties. Environmental Science & Technology, 2018, 52, 9684-9693.	10.0	43
39	Electrospun polyvinylidene fluoride/fluorinated acrylate copolymer tree-like nanofiber membrane with high flux and salt rejection ratio for direct contact membrane distillation. Desalination, 2019, 466, 68-76.	8.2	43
40	Towards enhanced antifouling and flux performances of thin-film composite forward osmosis membrane via constructing a sandwich-like carbon nanotubes-coated support. Desalination, 2020, 479, 114311.	8.2	42
41	Investigation of the reduced specific energy consumption of the RO-PRO hybrid system based on temperature-enhanced pressure retarded osmosis. Journal of Membrane Science, 2019, 581, 439-452.	8.2	41
42	Combined electrocoagulation-microfiltration-membrane distillation for treatment of hydraulic fracturing produced water. Desalination, 2021, 500, 114886.	8.2	41
43	A high-flux organic solvent nanofiltration membrane with binaphthol-based rigid-flexible microporous structures. Journal of Materials Chemistry A, 2021, 9, 7180-7189.	10.3	40
44	Novel RO membranes fabricated by grafting sulfonamide group: Improving water permeability, fouling resistance and chlorine resistant performance. Journal of Membrane Science, 2022, 641, 119919.	8.2	39
45	Nanofiltration Membranes with Metal Cation-Immobilized Aminophosphonate Networks for Efficient Heavy Metal Ion Removal and Organic Dye Degradation. ACS Applied Materials & Interfaces, 2019, 11, 30317-30331.	8.0	37
46	Ferritinâ€“Polymer Conjugates: Grafting Chemistry and Integration into Nanoscale Assemblies. Advanced Functional Materials, 2010, 20, 3603-3612.	14.9	36
47	Surface-independent one-pot chelation of copper ions onto filtration membranes to provide antibacterial properties. Chemical Communications, 2016, 52, 12245-12248.	4.1	35
48	Modeling and measurement of temperature and draw solution concentration induced water flux increment efficiencies in the forward osmosis membrane process. Desalination, 2019, 452, 75-86.	8.2	35
49	Carbon nanotube-supported polyamide membrane with minimized internal concentration polarization for both aqueous and organic solvent forward osmosis process. Journal of Membrane Science, 2020, 611, 118273.	8.2	35
50	Engineering carbon nanotubes enhanced hydrophobic membranes with high performance in membrane distillation by spray coating. Journal of Membrane Science, 2021, 625, 118978.	8.2	32
51	Potential application of machine learning for exploring adsorption mechanisms of pharmaceuticals onto biochars. Chemosphere, 2022, 287, 132203.	8.2	29
52	Guided Assemblies of Ferritin Nanocages: Highly Ordered Arrays of Monodisperse Nanoscopic Elements. Advanced Materials, 2010, 22, 2583-2587.	21.0	28
53	Anti-fouling and anti-bacterial graphene oxide/calcium alginate hybrid hydrogel membrane for efficient dye/salt separation. Desalination, 2022, 538, 115908.	8.2	28
54	Connecting quantum dots and bionanoparticles in hybrid nanoscale ultra-thin films. Soft Matter, 2009, 5, 1048.	2.7	27

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55	Fabrication of interweaving hierarchical fibrous composite (iHFC) membranes for high-flux and robust direct contact membrane distillation. Desalination, 2020, 477, 114264.	8.2	26
56	Characterization of dissolved organic matter for understanding the adsorption on nanomaterials in aquatic environment: A review. Chemosphere, 2021, 269, 128690.	8.2	25
57	High-performance zwitterionic TFC polyamide nanofiltration membrane based on a novel triamine precursor. Separation and Purification Technology, 2020, 251, 117380.	7.9	24
58	Improving the water permeability and antifouling property of the nanofiltration membrane grafted with hyperbranched polyglycerol. Journal of Membrane Science, 2020, 612, 118417.	8.2	23
59	Membrane cleaning and performance insight of osmotic microbial fuel cell. Chemosphere, 2021, 285, 131549.	8.2	23
60	Tailoring polyethersulfone/quaternary ammonium polysulfone ultrafiltration membrane with positive charge for dye and salt selective separation. Journal of Polymer Science, 2020, 58, 2603-2618.	3.8	22
61	Ionic and pH responsive thin film composite hollow fiber nanofiltration membrane for molecular separation. Desalination, 2020, 496, 114709.	8.2	20
62	Application of electrospun nanofibrous amphiphobic membrane using low-cost poly (ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 101351.	5.6	20
63	Breaking the permeabilityâ€“selectivity trade-off in thin-film composite polyamide membranes with a PEG-b-PSF-b-PEG block copolymer ultrafiltration membrane support through post-annealing treatment. NPG Asia Materials, 2019, 11, .	7.9	19
64	Fabrication and characterization of carbon nanotubes-based porous composite forward osmosis membrane: Flux performance, separation mechanism, and potential application. Journal of Membrane Science, 2020, 604, 118050.	8.2	19
65	High-Performance Forward Osmosis Membranes Used for Treating High-Salinity Oil-Bearing Wastewater. Industrial & Engineering Chemistry Research, 2017, 56, 12385-12394.	3.7	18
66	Electrospun hierarchical fibrous composite membrane for pomegranate juice concentration using osmotic membrane distillation. Journal of Environmental Chemical Engineering, 2020, 8, 104475.	6.7	18
67	Understanding the interaction mechanism of algal cells and soluble algal products foulants in forward osmosis dewatering. Journal of Membrane Science, 2021, 620, 118835.	8.2	17
68	Facile synthesis of copper ions chelated sand via dopamine chemistry for recyclable and sustainable catalysis. Chemical Engineering Science, 2019, 203, 312-320.	3.8	16
69	Synthesis and gas separation properties of OH-functionalized TrÃ¶ger's base-based PIMs derived from 1,1â€²-binaphthalene-2,2â€²-OH. Polymer, 2020, 193, 122369.	3.8	15
70	Robust reduced graphene oxide composite membranes for enhanced anti-wetting property in membrane distillation. Desalination, 2022, 526, 115549.	8.2	15
71	Quantitively unveiling the activity-structure relationship of polyamide membrane: A molecular dynamics simulation study. Desalination, 2022, 528, 115640.	8.2	15
72	Exploration of food preservatives as draw solutes in the forward osmosis process for juice concentration. Journal of Membrane Science, 2021, 635, 119495.	8.2	14

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73	Ultra-thin microporous membranes based on macrocyclic pillar[n]arene for efficient organic solvent nanofiltration. Journal of Membrane Science, 2022, 655, 120583.	8.2	14
74	Preparation and characterization of acid and solvent resistant polyimide ultrafiltration membrane. Applied Surface Science, 2019, 483, 278-284.	6.1	13
75	Spray coating of polysulfone/poly(ethylene glycol) block polymer on macroporous substrates followed by selective swelling for composite ultrafiltration membranes. Chinese Journal of Chemical Engineering, 2021, 29, 85-91.	3.5	13
76	Hydrophilic polyethyleneimine-TiO2 hybrid layer on polyethersulfone/sulfonated polysulfone blend membrane with antifouling characteristics for the effective separation of oil-in-water emulsions. Journal of Water Process Engineering, 2022, 49, 102982.	5.6	13
77	Vapor-permeation dehydration of isopropanol using a flexible and thin organosilica membrane with high permeance. Journal of Membrane Science, 2019, 588, 117226.	8.2	12
78	Preparation of antifouling TFC RO membranes by facile grafting zwitterionic polymer PEI-CA. Desalination, 2022, 539, 115972.	8.2	12
79	Unveiling the Molecular Mechanisms of Thickness-Dependent Water Dynamics in an Ultrathin Free-Standing Polyamide Membrane. Journal of Physical Chemistry B, 2020, 124, 11939-11948.	2.6	11
80	Sea salt bittern-driven forward osmosis for nutrient recovery from black water: A dual waste-to-resource innovation via the osmotic membrane process. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	11
81	Crosslinked copolystyrenes based membranes bearing alkylcarboxylated and alkylsulfonated side chains for organic solvent nanofiltration. Separation and Purification Technology, 2021, 274, 119028.	7.9	11
82	Enhanced filtration performance and anti-biofouling properties of antibacterial polyethersulfone membrane for fermentation broth concentration. Journal of Industrial and Engineering Chemistry, 2019, 72, 346-353.	5.8	10
83	Treatment of agro-food industrial waste streams using osmotic microbial fuel cells: Performance and potential improvement measures. Environmental Technology and Innovation, 2022, 27, 102773.	6.1	10
84	Construction of pseudo-zwitterionic polyamide RO membranes surface by grafting positively charged small molecules. Desalination, 2022, 537, 115892.	8.2	10
85	Organic fouling assessment of novel PES/SPSf/Double layered hydroxide mixed matrix membrane for water treatment application. Journal of Water Process Engineering, 2020, 37, 101526.	5.6	7
86	Enhancing dehydration performance of isopropanol for flexible hybrid silica composite membranes with spray-coated active layer on polymers. Separation and Purification Technology, 2022, 283, 120230.	7.9	4
87	Enhancing Dehydration Performance of Isopropanol for Flexible Hybrid Silica Composite Membranes with Spray-Coated Active Layer on Polymers. SSRN Electronic Journal, 0, , .	0.4	0