

Yun-Xia Hu

List of Publications by Year in descending order

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4547
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#	ARTICLE	IF	CITATIONS
1	Novel RO membranes fabricated by grafting sulfonamide group: Improving water permeability, fouling resistance and chlorine resistant performance. <i>Journal of Membrane Science</i> , 2022, 641, 119919.	8.2	39
2	Potential application of machine learning for exploring adsorption mechanisms of pharmaceuticals onto biochars. <i>Chemosphere</i> , 2022, 287, 132203.	8.2	29
3	Enhancing dehydration performance of isopropanol for flexible hybrid silica composite membranes with spray-coated active layer on polymers. <i>Separation and Purification Technology</i> , 2022, 283, 120230.	7.9	4
4	Robust reduced graphene oxide composite membranes for enhanced anti-wetting property in membrane distillation. <i>Desalination</i> , 2022, 526, 115549.	8.2	15
5	Quantitatively unveiling the activity-structure relationship of polyamide membrane: A molecular dynamics simulation study. <i>Desalination</i> , 2022, 528, 115640.	8.2	15
6	Ultra-thin microporous membranes based on macrocyclic pillar[n]arene for efficient organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 655, 120583.	8.2	14
7	Treatment of agro-food industrial waste streams using osmotic microbial fuel cells: Performance and potential improvement measures. <i>Environmental Technology and Innovation</i> , 2022, 27, 102773.	6.1	10
8	Anti-fouling and anti-bacterial graphene oxide/calcium alginate hybrid hydrogel membrane for efficient dye/salt separation. <i>Desalination</i> , 2022, 538, 115908.	8.2	28
9	Construction of pseudo-zwitterionic polyamide RO membranes surface by grafting positively charged small molecules. <i>Desalination</i> , 2022, 537, 115892.	8.2	10
10	Hydrophilic polyethyleneimine-TiO ₂ hybrid layer on polyethersulfone/sulfonated polysulfone blend membrane with antifouling characteristics for the effective separation of oil-in-water emulsions. <i>Journal of Water Process Engineering</i> , 2022, 49, 102982.	5.6	13
11	Preparation of antifouling TFC RO membranes by facile grafting zwitterionic polymer PEI-CA. <i>Desalination</i> , 2022, 539, 115972.	8.2	12
12	Spray coating of polysulfone/poly(ethylene glycol) block polymer on macroporous substrates followed by selective swelling for composite ultrafiltration membranes. <i>Chinese Journal of Chemical Engineering</i> , 2021, 29, 85-91.	3.5	13
13	Tailoring the morphology of polyethersulfone/sulfonated polysulfone ultrafiltration membranes for highly efficient separation of oil-in-water emulsions using TiO ₂ nanoparticles. <i>Journal of Membrane Science</i> , 2021, 620, 118868.	8.2	48
14	High-flux robust PSf-b-PEG nanofiltration membrane for the precise separation of dyes and salts. <i>Chemical Engineering Journal</i> , 2021, 405, 127051.	12.7	62
15	Fabrication of antifouling thin-film composite nanofiltration membrane via surface grafting of polyethyleneimine followed by zwitterionic modification. <i>Journal of Membrane Science</i> , 2021, 619, 118564.	8.2	88
16	Engineering carbon nanotubes enhanced hydrophobic membranes with high performance in membrane distillation by spray coating. <i>Journal of Membrane Science</i> , 2021, 625, 118978.	8.2	32
17	Characterization of dissolved organic matter for understanding the adsorption on nanomaterials in aquatic environment: A review. <i>Chemosphere</i> , 2021, 269, 128690.	8.2	25
18	Understanding the interaction mechanism of algal cells and soluble algal products foulants in forward osmosis dewatering. <i>Journal of Membrane Science</i> , 2021, 620, 118835.	8.2	17

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19	Combined electrocoagulation-microfiltration-membrane distillation for treatment of hydraulic fracturing produced water. <i>Desalination</i> , 2021, 500, 114886.	8.2	41
20	Exploration of food preservatives as draw solutes in the forward osmosis process for juice concentration. <i>Journal of Membrane Science</i> , 2021, 635, 119495.	8.2	14
21	Crosslinked copolystyrenes based membranes bearing alkylcarboxylated and alkylsulfonated side chains for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2021, 274, 119028.	7.9	11
22	Membrane cleaning and performance insight of osmotic microbial fuel cell. <i>Chemosphere</i> , 2021, 285, 131549.	8.2	23
23	A high-flux organic solvent nanofiltration membrane with binaphthol-based rigid-flexible microporous structures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7180-7189.	10.3	40
24	Fabrication of high performance polyamide reverse osmosis membrane from monomer 4-morpholino-m-phenylenediamine and tailoring with zwitterions. <i>Desalination</i> , 2020, 473, 114169.	8.2	56
25	Construction of an electroneutral zinc incorporated polymer network nanocomposite membrane with enhanced selectivity for salt/dye separation. <i>Chemical Engineering Journal</i> , 2020, 380, 122560.	12.7	75
26	Optimization and organic fouling behavior of zwitterion-modified thin-film composite polyamide membrane for water reclamation: A comprehensive study. <i>Journal of Membrane Science</i> , 2020, 596, 117748.	8.2	56
27	Fabrication of interweaving hierarchical fibrous composite (iHFC) membranes for high-flux and robust direct contact membrane distillation. <i>Desalination</i> , 2020, 477, 114264.	8.2	26
28	Fabrication and characterization of a high performance polyimide ultrafiltration membrane for dye removal. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 589-597.	9.4	87
29	Electrospun hierarchical fibrous composite membrane for pomegranate juice concentration using osmotic membrane distillation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104475.	6.7	18
30	Electropolymerization of robust conjugated microporous polymer membranes for rapid solvent transport and narrow molecular sieving. <i>Nature Communications</i> , 2020, 11, 5323.	12.8	80
31	Organic fouling assessment of novel PES/SPSf/Double layered hydroxide mixed matrix membrane for water treatment application. <i>Journal of Water Process Engineering</i> , 2020, 37, 101526.	5.6	7
32	High-performance zwitterionic TFC polyamide nanofiltration membrane based on a novel triamine precursor. <i>Separation and Purification Technology</i> , 2020, 251, 117380.	7.9	24
33	Ionic and pH responsive thin film composite hollow fiber nanofiltration membrane for molecular separation. <i>Desalination</i> , 2020, 496, 114709.	8.2	20
34	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	23.7	195
35	Unveiling the Molecular Mechanisms of Thickness-Dependent Water Dynamics in an Ultrathin Free-Standing Polyamide Membrane. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11939-11948.	2.6	11
36	Preparation of high performance TFC RO membranes by surface grafting of small-molecule zwitterions. <i>Journal of Membrane Science</i> , 2020, 608, 118209.	8.2	46

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37	Carbon nanotube-supported polyamide membrane with minimized internal concentration polarization for both aqueous and organic solvent forward osmosis process. <i>Journal of Membrane Science</i> , 2020, 611, 118273.	8.2	35
38	Tailoring polyethersulfone/quaternary ammonium polysulfone ultrafiltration membrane with positive charge for dye and salt selective separation. <i>Journal of Polymer Science</i> , 2020, 58, 2603-2618.	3.8	22
39	Application of electrospun nanofibrous amphiphobic membrane using low-cost poly (ethylene) Tj ETQq1 101351.	0.784314 5.6	rgBT /Overlock 1 20
40	Fabrication and characterization of carbon nanotubes-based porous composite forward osmosis membrane: Flux performance, separation mechanism, and potential application. <i>Journal of Membrane Science</i> , 2020, 604, 118050.	8.2	19
41	Improving the water permeability and antifouling property of the nanofiltration membrane grafted with hyperbranched polyglycerol. <i>Journal of Membrane Science</i> , 2020, 612, 118417.	8.2	23
42	Towards enhanced antifouling and flux performances of thin-film composite forward osmosis membrane via constructing a sandwich-like carbon nanotubes-coated support. <i>Desalination</i> , 2020, 479, 114311.	8.2	42
43	Highly efficient flow-through catalytic reduction of methylene blue using silver nanoparticles functionalized cotton. <i>Chemical Engineering Journal</i> , 2020, 388, 124252.	12.7	62
44	Improving the perm-selectivity and anti-fouling property of UF membrane through the micro-phase separation of PSf-b-PEG block copolymers. <i>Journal of Membrane Science</i> , 2020, 599, 117851.	8.2	46
45	Sea salt bittern-driven forward osmosis for nutrient recovery from black water: A dual waste-to-resource innovation via the osmotic membrane process. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	6.0	11
46	Synthesis and gas separation properties of OH-functionalized Tröger's base-based PIMs derived from 1,1'-binaphthalene-2,2'-diol. <i>Polymer</i> , 2020, 193, 122369.	3.8	15
47	Nanofiltration Membranes with Metal Cation-Immobilized Aminophosphonate Networks for Efficient Heavy Metal Ion Removal and Organic Dye Degradation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30317-30331.	8.0	37
48	Vapor-permeation dehydration of isopropanol using a flexible and thin organosilica membrane with high permeance. <i>Journal of Membrane Science</i> , 2019, 588, 117226.	8.2	12
49	Fabrication of a Novel Nanofiltration Membrane with Enhanced Performance via Interfacial Polymerization through the Incorporation of a New Zwitterionic Diamine Monomer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42846-42855.	8.0	62
50	Structural tailoring of hierarchical fibrous composite membranes to balance mass transfer and heat transfer for state-of-the-art desalination performance in membrane distillation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2376-2384.	10.3	47
51	New Insights into the Role of an Interlayer for the Fabrication of Highly Selective and Permeable Thin-Film Composite Nanofiltration Membrane. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7349-7356.	8.0	234
52	Electrospun polyvinylidene fluoride/fluorinated acrylate copolymer tree-like nanofiber membrane with high flux and salt rejection ratio for direct contact membrane distillation. <i>Desalination</i> , 2019, 466, 68-76.	8.2	43
53	Characteristics and influencing factors of organic fouling in forward osmosis operation for wastewater applications: A comprehensive review. <i>Environment International</i> , 2019, 129, 164-184.	10.0	67
54	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.	5.8	90

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55	Effect of membrane wetting on the performance of PVDF and PTFE membranes in the concentration of pomegranate juice through osmotic distillation. <i>Journal of Membrane Science</i> , 2019, 584, 66-78.	8.2	56
56	Breaking the permeability–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. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	19
57	Preparation and characterization of acid and solvent resistant polyimide ultrafiltration membrane. <i>Applied Surface Science</i> , 2019, 483, 278-284.	6.1	13
58	Investigation of the reduced specific energy consumption of the RO-PRO hybrid system based on temperature-enhanced pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2019, 581, 439-452.	8.2	41
59	Facile synthesis of copper ions chelated sand via dopamine chemistry for recyclable and sustainable catalysis. <i>Chemical Engineering Science</i> , 2019, 203, 312-320.	3.8	16
60	In Situ Surface Modification of Thin-Film Composite Polyamide Membrane with Zwitterions for Enhanced Chlorine Resistance and Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12043-12052.	8.0	78
61	Modeling and measurement of temperature and draw solution concentration induced water flux increment efficiencies in the forward osmosis membrane process. <i>Desalination</i> , 2019, 452, 75-86.	8.2	35
62	Enhanced filtration performance and anti-biofouling properties of antibacterial polyethersulfone membrane for fermentation broth concentration. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 346-353.	5.8	10
63	Continuous juice concentration by integrating forward osmosis with membrane distillation using potassium sorbate preservative as a draw solute. <i>Journal of Membrane Science</i> , 2019, 573, 192-199.	8.2	85
64	Membrane fouling of forward osmosis in dewatering of soluble algal products: Comparison of TFC and CTA membranes. <i>Journal of Membrane Science</i> , 2018, 552, 213-221.	8.2	70
65	High-Performance Thin-Film Composite Membrane with an Ultrathin Spray-Coated Carbon Nanotube Interlayer. <i>Environmental Science and Technology Letters</i> , 2018, 5, 243-248.	8.7	176
66	Amphiphobic surface modification of electrospun nanofibrous membranes for anti-wetting performance in membrane distillation. <i>Desalination</i> , 2018, 432, 23-31.	8.2	96
67	Improved Anti-Biofouling Performance of Thin -Film Composite Forward-Osmosis Membranes Containing Passive and Active Moieties. <i>Environmental Science & Technology</i> , 2018, 52, 9684-9693.	10.0	43
68	Facile and efficient in situ synthesis of silver nanoparticles on diverse filtration membrane surfaces for antimicrobial performance. <i>Applied Surface Science</i> , 2018, 456, 95-103.	6.1	48
69	ALD-seeded hydrothermally-grown Ag/ZnO nanorod PTFE membrane as efficient indoor air filter. <i>Journal of Membrane Science</i> , 2017, 531, 86-93.	8.2	51
70	High-Performance Forward Osmosis Membranes Used for Treating High-Salinity Oil-Bearing Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12385-12394.	3.7	18
71	Modification of thin film composite polyamide membranes with 3D hyperbranched polyglycerol for simultaneous improvement in their filtration performance and antifouling properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23190-23197.	10.3	87
72	Sustainable catalytic properties of silver nanoparticles supported montmorillonite for highly efficient recyclable reduction of methylene blue. <i>Applied Clay Science</i> , 2017, 150, 47-55.	5.2	46

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73	Tailoring Membrane Surface Properties and Ultrafiltration Performances via the Self-Assembly of Polyethylene Glycol- <i>block</i> -Polysulfone- <i>block</i> -Polyethylene Glycol Block Copolymer upon Thermal and Solvent Annealing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31018-31030.	8.0	57
74	Surface Engineering of Thin Film Composite Polyamide Membranes with Silver Nanoparticles through Layer-by-Layer Interfacial Polymerization for Antibacterial Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40987-40997.	8.0	58
75	Sustainable Antibiofouling Properties of Thin Film Composite Forward Osmosis Membrane with Rechargeable Silver Nanoparticles Loading. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21666-21673.	8.0	82
76	Surface-independent one-pot chelation of copper ions onto filtration membranes to provide antibacterial properties. <i>Chemical Communications</i> , 2016, 52, 12245-12248.	4.1	35
77	Omniphobic Membrane for Robust Membrane Distillation. <i>Environmental Science and Technology Letters</i> , 2014, 1, 443-447.	8.7	288
78	Influence of polyethylene glycol density and surface lipid on pharmacokinetics and biodistribution of lipid-calcium-phosphate nanoparticles. <i>Biomaterials</i> , 2014, 35, 3027-3034.	11.4	73
79	Systemic Delivery of Modified mRNA Encoding Herpes Simplex Virus 1 Thymidine Kinase for Targeted Cancer Gene Therapy. <i>Molecular Therapy</i> , 2013, 21, 358-367.	8.2	164
80	A Highly Efficient Synthetic Vector: Nonhydrodynamic Delivery of DNA to Hepatocyte Nuclei <i>in Vivo</i> . <i>ACS Nano</i> , 2013, 7, 5376-5384.	14.6	100
81	Nanoparticle Delivery of Pooled siRNA for Effective Treatment of Non-Small Cell Lung Cancer. <i>Molecular Pharmaceutics</i> , 2012, 9, 2280-2289.	4.6	79
82	ABC Triblock Copolymer Vesicles with Mesh-Like Morphology. <i>ACS Nano</i> , 2011, 5, 486-492.	14.6	64
83	Ferritin-Polymer Conjugates: Grafting Chemistry and Integration into Nanoscale Assemblies. <i>Advanced Functional Materials</i> , 2010, 20, 3603-3612.	14.9	36
84	Guided Assemblies of Ferritin Nanocages: Highly Ordered Arrays of Monodisperse Nanoscopic Elements. <i>Advanced Materials</i> , 2010, 22, 2583-2587.	21.0	28
85	Connecting quantum dots and bionanoparticles in hybrid nanoscale ultra-thin films. <i>Soft Matter</i> , 2009, 5, 1048.	2.7	27
86	End-Functionalized Phosphorylcholine Methacrylates and their Use in Protein Conjugation. <i>Biomacromolecules</i> , 2008, 9, 2891-2897.	5.4	64
87	Enhancing Dehydration Performance of Isopropanol for Flexible Hybrid Silica Composite Membranes with Spray-Coated Active Layer on Polymers. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0