

# Yanan Liu

## List of Publications by Year in descending order

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40  
papers

3,672  
citations

212478

28  
h-index

325983

40  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antifouling membranes for sustainable water purification: strategies and mechanisms. <i>Chemical Society Reviews</i> , 2016, 45, 5888-5924.	18.7	977
2	Antifouling membrane surface construction: Chemistry plays a critical role. <i>Journal of Membrane Science</i> , 2018, 551, 145-171.	4.1	309
3	Free-Standing Graphene Oxide-Palygorskite Nanohybrid Membrane for Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8247-8256.	4.0	214
4	2D Heterostructure Membranes with Sunlight-Driven Self-Cleaning Ability for Highly Efficient Oil-Water Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1706545.	7.8	182
5	Covalent organic framework-modulated interfacial polymerization for ultrathin desalination membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25641-25649.	5.2	173
6	Self-assembled MOF membranes with underwater superoleophobicity for oil/water separation. <i>Journal of Membrane Science</i> , 2018, 566, 268-277.	4.1	143
7	Green coating by coordination of tannic acid and iron ions for antioxidant nanofiltration membranes. <i>RSC Advances</i> , 2015, 5, 107777-107784.	1.7	141
8	Fabrication of electro-neutral nanofiltration membranes at neutral pH with antifouling surface via interfacial polymerization from a novel zwitterionic amine monomer. <i>Journal of Membrane Science</i> , 2016, 503, 101-109.	4.1	126
9	Antifouling, high-flux oil/water separation carbon nanotube membranes by polymer-mediated surface charging and hydrophilization. <i>Journal of Membrane Science</i> , 2017, 542, 254-263.	4.1	96
10	Manipulating the segregation behavior of polyethylene glycol by hydrogen bonding interaction to endow ultrafiltration membranes with enhanced antifouling performance. <i>Journal of Membrane Science</i> , 2016, 499, 56-64.	4.1	91
11	Improved antifouling properties of polyethersulfone membrane by blending the amphiphilic surface modifier with crosslinked hydrophobic segments. <i>Journal of Membrane Science</i> , 2015, 486, 195-206.	4.1	85
12	Fabrication of antifouling polymer-inorganic hybrid membranes through the synergy of biomimetic mineralization and nonsolvent induced phase separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7287-7295.	5.2	84
13	Mixed Nanosheet Membranes Assembled from Chemically Grafted Graphene Oxide and Covalent Organic Frameworks for Ultra-high Water Flux. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28978-28986.	4.0	72
14	Creation of active-passive integrated mechanisms on membrane surfaces for superior antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2018, 548, 621-631.	4.1	67
15	Engineering amphiphilic nanofiltration membrane surfaces with a multi-defense mechanism for improved antifouling performances. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7892-7902.	5.2	66
16	Synergy of the mechanical, antifouling and permeation properties of a carbon nanotube nanohybrid membrane for efficient oil/water separation. <i>Nanoscale</i> , 2017, 9, 7508-7518.	2.8	63
17	Asymmetric Aerogel Membranes with Ultrafast Water Permeation for the Separation of Oil-in-Water Emulsion. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 26546-26554.	4.0	59
18	Enhanced membrane antifouling and separation performance by manipulating phase separation and surface segregation behaviors through incorporating versatile modifier. <i>Journal of Membrane Science</i> , 2016, 499, 406-417.	4.1	54

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19	Reduced graphene oxide aerogel membranes fabricated through hydrogen bond mediation for highly efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11468-11477.	5.2	54
20	Antifouling high-flux membranes via surface segregation and phase separation controlled by the synergy of hydrophobic and hydrogen bond interactions. <i>Journal of Membrane Science</i> , 2016, 520, 814-822.	4.1	52
21	Mixed-dimensional membranes: chemistry and structure–property relationships. <i>Chemical Society Reviews</i> , 2021, 50, 11747-11765.	18.7	51
22	In situ construction of chemically heterogeneous hydrogel surfaces toward near-zero-flux-decline membranes for oil-water separation. <i>Journal of Membrane Science</i> , 2020, 594, 117455.	4.1	50
23	Polyphenol-assisted in-situ assembly for antifouling thin-film composite nanofiltration membranes. <i>Journal of Membrane Science</i> , 2018, 566, 258-267.	4.1	43
24	Manipulating membrane surface porosity and pore size by in-situ assembly of Pluronic F127 and tannin. <i>Journal of Membrane Science</i> , 2018, 556, 285-292.	4.1	41
25	Producing methylcyclopentadiene dimer and trimer based high-performance jet fuels using 5-methyl furfural. <i>Green Chemistry</i> , 2020, 22, 7765-7768.	4.6	35
26	Multiple antifouling capacities of hybrid membranes derived from multifunctional titania nanoparticles. <i>Journal of Membrane Science</i> , 2015, 495, 226-234.	4.1	34
27	Highly specific detection of thrombin using an aptamer-based suspension array and the interaction analysis via microscale thermophoresis. <i>Analyst</i> , 2015, 140, 2762-2770.	1.7	33
28	Constructing membrane surface with synergistic passive antifouling and active antibacterial strategies through organic-inorganic composite modifier. <i>Journal of Membrane Science</i> , 2019, 576, 150-160.	4.1	32
29	Ultrathin fluorinated self-cleaning membranes via coordination-driven metal-bridging assembly for water purification. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4505-4514.	5.2	31
30	Mussel-inspired construction of organic-inorganic interfacial nanochannels for ion/organic molecule selective permeation. <i>Journal of Membrane Science</i> , 2018, 555, 337-347.	4.1	29
31	Graphene oxide membranes with an ultra-large interlayer distance through vertically grown covalent organic framework nanosheets. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25458-25466.	5.2	28
32	In-situ construction of antifouling separation layer via a reaction enhanced surface segregation method. <i>Chemical Engineering Science</i> , 2018, 190, 89-97.	1.9	27
33	Preparation of Antifouling Nanofiltration Membrane via Interfacial Polymerization of Fluorinated Polyamine and Trimesoyl Chloride. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 8302-8310.	1.8	25
34	Engineering multi-pathway graphene oxide membranes toward ultrafast water purification. <i>Journal of Membrane Science</i> , 2021, 638, 119706.	4.1	24
35	Manipulating the multifunctionalities of polydopamine to prepare high-flux anti-biofouling composite nanofiltration membranes. <i>RSC Advances</i> , 2016, 6, 32863-32873.	1.7	23
36	Cell Membrane-Inspired Graphene Nanomesh Membrane for Fast Separation of Oil-in-Water Emulsions. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19

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37	Achieving persistent high-flux membranes via kinetic and thermodynamic synergistic manipulation of surface segregation process. <i>Journal of Membrane Science</i> , 2017, 540, 333-343.	4.1	16
38	Fabrication and characterization of antifouling carbon nanotube/polyethersulfone ultrafiltration membranes. <i>RSC Advances</i> , 2016, 6, 35532-35538.	1.7	13
39	Increased <i>E. coli</i> bio-adsorption resistance of microfiltration membranes, using a bio-inspired approach. <i>Science of the Total Environment</i> , 2021, 751, 141777.	3.9	6
40	Two types of oil modified tips as force sensors to detect adhesion forces between oil and membrane surfaces in fluid. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 127-134.	2.0	4