

Xinglin Lu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

2,347
citations

22
h-index

31
g-index

31
ext. papers

2,974
ext. citations

13.2
avg, IF

5.5
L-index

#	Paper	IF	Citations
30	Production of sulfate radical and hydroxyl radical by reaction of ozone with peroxydisulfate: a novel advanced oxidation process. <i>Environmental Science & Technology</i> , 2015 , 49, 7330-9	10.3	324
29	Degradation of sulfamethoxazole by UV, UV/HO and UV/persulfate (PDS): Formation of oxidation products and effect of bicarbonate. <i>Water Research</i> , 2017 , 118, 196-207	12.5	299
28	Enhanced antibacterial activity through the controlled alignment of graphene oxide nanosheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9793-E9801	11.5	215
27	Environmental performance of graphene-based 3D macrostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 107-119	28.7	203
26	In situ formation of silver nanoparticles on thin-film composite reverse osmosis membranes for biofouling mitigation. <i>Water Research</i> , 2014 , 62, 260-70	12.5	199
25	Amine enrichment and poly(ethylene glycol) (PEG) surface modification of thin-film composite forward osmosis membranes for organic fouling control. <i>Journal of Membrane Science</i> , 2014 , 450, 331-339	9.6	140
24	In situ surface chemical modification of thin-film composite forward osmosis membranes for enhanced organic fouling resistance. <i>Environmental Science & Technology</i> , 2013 , 47, 12219-28	10.3	137
23	Reinventing Fenton Chemistry: Iron Oxochloride Nanosheet for pH-Insensitive H ₂ O ₂ Activation. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 186-191	11	120
22	Influence of active layer and support layer surface structures on organic fouling propensity of thin-film composite forward osmosis membranes. <i>Environmental Science & Technology</i> , 2015 , 49, 1436-44	10.3	93
21	Bidirectional diffusion of ammonium and sodium cations in forward osmosis: role of membrane active layer surface chemistry and charge. <i>Environmental Science & Technology</i> , 2014 , 48, 14369-76	10.3	85
20	Functionalization of ultrafiltration membrane with polyampholyte hydrogel and graphene oxide to achieve dual antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2018 , 565, 293-302	9.6	57
19	Comparative study on degradation of propranolol and formation of oxidation products by UV/HO and UV/persulfate (PDS). <i>Water Research</i> , 2019 , 149, 543-552	12.5	56
18	Fabrication of desalination membranes by interfacial polymerization: history, current efforts, and future directions. <i>Chemical Society Reviews</i> , 2021 , 50, 6290-6307	58.5	50
17	Enhancement of the Donnan effect through capacitive ion increase using an electroconductive rGO-CNT nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4737-4745	13	48
16	Precise nanofiltration in a fouling-resistant self-assembled membrane with water-continuous transport pathways. <i>Science Advances</i> , 2019 , 5, eaav9308	14.3	44
15	Elements Provide a Clue: Nanoscale Characterization of Thin-Film Composite Polyamide Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16917-22	9.5	37
14	Relating Selectivity and Separation Performance of Lamellar Two-Dimensional Molybdenum Disulfide (MoS ₂) Membranes to Nanosheet Stacking Behavior. <i>Environmental Science & Technology</i> , 2020 , 54, 9640-9651	10.3	31

13	Tuning the permselectivity of polymeric desalination membranes via control of polymer crystallite size. <i>Nature Communications</i> , 2019 , 10, 2347	17.4	29
12	Loss of Phospholipid Membrane Integrity Induced by Two-Dimensional Nanomaterials. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 404-409	11	29
11	Fabrication of a Desalination Membrane with Enhanced Microbial Resistance through Vertical Alignment of Graphene Oxide. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 614-620	11	24
10	Graphene Oxide-Functionalized Membranes: The Importance of Nanosheet Surface Exposure for Biofouling Resistance. <i>Environmental Science & Technology</i> , 2020 , 54, 517-526	10.3	24
9	Surface functionalization of reverse osmosis membranes with sulfonic groups for simultaneous mitigation of silica scaling and organic fouling. <i>Water Research</i> , 2020 , 185, 116203	12.5	22
8	Photografting Graphene Oxide to Inert Membrane Materials to Impart Antibacterial Activity. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 141-147	11	21
7	Bacterial inactivation by a carbon nanotube/iron oxide nanocomposite: a mechanistic study using E. coli mutants. <i>Environmental Science: Nano</i> , 2018 , 5, 372-380	7.1	19
6	Influence of composition and concentration of saline water on cation exchange behavior in forward osmosis desalination. <i>Water Research</i> , 2018 , 137, 9-17	12.5	14
5	Silica Removal Using Magnetic Iron-Aluminum Hybrid Nanomaterials: Measurements, Adsorption Mechanisms, and Implications for Silica Scaling in Reverse Osmosis. <i>Environmental Science & Technology</i> , 2019 , 53, 13302-13311	10.3	11
4	Modification of forward osmosis membrane with naturally-available humic acid: Towards simultaneously improved filtration performance and antifouling properties. <i>Environment International</i> , 2019 , 131, 105045	12.9	6
3	Utilization of Bidirectional Cation Transport in a Thin Film Composite Membrane: Selective Removal and Reclamation of Ammonium from Synthetic Digested Sludge Centrate via an Osmosis-Distillation Hybrid Membrane Process. <i>Environmental Science & Technology</i> , 2020 , 54, 10313-10322	10.3	5
2	Roofing rainwater cleaner production using pilot-scale electrocoagulation coupled with a gravity-driven membrane bioreactor (EC-GDMBR): Water treatment and energy efficiency. <i>Journal of Cleaner Production</i> , 2021 , 314, 128055	10.3	4
1	Joule-Heated Layered Double Hydroxide Sponge for Rapid Removal of Silica from Water. <i>Environmental Science & Technology</i> , 2021 , 55, 16130-16142	10.3	1