

Katherine R Zodrow

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.

24 papers	2,528 citations	14 h-index	27 g-index
27 ext. papers	2,874 ext. citations	8.6 avg, IF	4.92 L-index

#	Paper	IF	Citations
24	Polysulfone ultrafiltration membranes impregnated with silver nanoparticles show improved biofouling resistance and virus removal. <i>Water Research</i> , 2009 , 43, 715-23	12.5	610
23	Electronic-structure-dependent bacterial cytotoxicity of single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 5471-9	16.7	392
22	Developmental phytotoxicity of metal oxide nanoparticles to <i>Arabidopsis thaliana</i> . <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 669-75	3.8	387
21	Surface functionalization of thin-film composite membranes with copper nanoparticles for antimicrobial surface properties. <i>Environmental Science & Technology</i> , 2014 , 48, 384-93	10.3	266
20	Nanophotonics-enabled solar membrane distillation for off-grid water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6936-6941	11.5	227
19	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
18	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. <i>Environmental Science & Technology</i> , 2017 , 51, 10274-10281	10.3	93
17	Photothermal nanocomposite membranes for direct solar membrane distillation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23712-23719	13	76
16	Biodegradable polymer (PLGA) coatings featuring cinnamaldehyde and carvacrol mitigate biofilm formation. <i>Langmuir</i> , 2012 , 28, 13993-9	4	61
15	Biofouling and microbial communities in membrane distillation and reverse osmosis. <i>Environmental Science & Technology</i> , 2014 , 48, 13155-64	10.3	59
14	Polyamide formation on a cellulose triacetate support for osmotic membranes: Effect of linking molecules on membrane performance. <i>Desalination</i> , 2013 , 312, 2-9	10.3	30
13	Acid Rock Drainage Treatment Using Membrane Distillation: Impacts of Chemical-Free Pretreatment on Scale Formation, Pore Wetting, and Product Water Quality. <i>Environmental Science & Technology</i> , 2017 , 51, 11928-11934	10.3	28
12	Mitigating biofouling on thin-film composite polyamide membranes using a controlled-release platform. <i>Journal of Membrane Science</i> , 2014 , 453, 84-91	9.6	28
11	The importance of microscopic characterization of membrane biofilms in an unconfined environment. <i>Desalination</i> , 2014 , 348, 8-15	10.3	24
10	Sustainable Living Filtration Membranes. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 213-218	11	11
9	Organic fouling in forward osmosis: Governing factors and a direct comparison with membrane filtration driven by hydraulic pressure. <i>Journal of Membrane Science</i> , 2021 , 619, 118759	9.6	9
8	A new frontier in Texas: managing and regulating brackish groundwater. <i>Water Policy</i> , 2016 , 18, 727-749	1.6	6

7	Integrated geophysical methods to characterize urban subsidence in Butte, Montana, U.S.A.. <i>Journal of Applied Geophysics</i> , 2019 , 164, 87-105	1.7	4
6	Quantification and modeling of the response of surface biofilm growth to continuous low intensity UVC irradiation. <i>Water Research</i> , 2021 , 193, 116895	12.5	4
5	Photothermal Floats for Evaporation Enhancement and Waterfowl Deterrence. <i>Mine Water and the Environment</i> , 2020 , 39, 716-723	2.4	2
4	Low flow data logger in membrane distillation: An interdisciplinary laboratory in process control 2014 ,		2
3	Facile Postprocessing Alters the Permeability and Selectivity of Microbial Cellulose Ultrafiltration Membranes. <i>Environmental Science & Technology</i> , 2020 , 54, 13249-13256	10.3	1
2	Proper Adhesive Choice Increases Photothermal Float Durability in Mine Water Disposal Applications. <i>Mine Water and the Environment</i> , 2020 , 39, 724-734	2.4	1
1	Permeability is the Critical Factor Governing the Life Cycle Environmental Performance of Drinking Water Treatment Using Living Filtration Membranes. <i>Environmental Science & Technology</i> , 2020 , 54, 7651-7658	10.3	0