Katherine R Zodrow

List of Publications by Year in Descending Order

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	Quantification and modeling of the response of surface biofilm growth to continuous low intensity UVC irradiation. *Water Research*, **2021**, 193, 116895	12.5	4
23	Organic fouling in forward osmosis: Governing factors and a direct comparison with membrane filtration driven by hydraulic pressure. *Journal of Membrane Science*, **2021**, 619, 118759	9.6	9
22	Photothermal Floats for Evaporation Enhancement and Waterfowl Deterrence. *Mine Water and the Environment*, **2020**, 39, 716-723	2.4	2
21	Permeability is the Critical Factor Governing the Life Cycle Environmental Performance of Drinking Water Treatment Using Living Filtration Membranes. *Environmental Science & Technology*, **2020**, 54, 7651-7658	10.3	0
20	Sustainable Living Filtration Membranes. *Environmental Science and Technology Letters*, **2020**, 7, 213-218	11	11
19	Facile Postprocessing Alters the Permeability and Selectivity of Microbial Cellulose Ultrafiltration Membranes. *Environmental Science & Technology*, **2020**, 54, 13249-13256	10.3	1
18	Proper Adhesive Choice Increases Photothermal Float Durability in Mine Water Disposal Applications. *Mine Water and the Environment*, **2020**, 39, 724-734	2.4	1
17	Integrated geophysical methods to characterize urban subsidence in Butte, Montana, U.S.A.. *Journal of Applied Geophysics*, **2019**, 164, 87-105	1.7	4
16	Nanophotonics-enabled solar membrane distillation for off-grid water purification. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6936-6941	11.5	227
15	Photothermal nanocomposite membranes for direct solar membrane distillation. *Journal of Materials Chemistry A*, **2017**, 5, 23712-23719	13	76
14	Acid Rock Drainage Treatment Using Membrane Distillation: Impacts of Chemical-Free Pretreatment on Scale Formation, Pore Wetting, and Product Water Quality. *Environmental Science & Technology*, **2017**, 51, 11928-11934	10.3	28
13	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. *Environmental Science & Technology*, **2017**, 51, 10274-10281	10.3	93
12	A new frontier in Texas: managing and regulating brackish groundwater. *Water Policy*, **2016**, 18, 727-749	1.6	6
11	Low flow data logger in membrane distillation: An interdisciplinary laboratory in process control **2014**,		2
10	Biofouling and microbial communities in membrane distillation and reverse osmosis. *Environmental Science & Technology*, **2014**, 48, 13155-64	10.3	59
9	In situ formation of silver nanoparticles on thin-film composite reverse osmosis membranes for biofouling mitigation. *Water Research*, **2014**, 62, 260-70	12.5	199
8	The importance of microscopic characterization of membrane biofilms in an unconfined environment. *Desalination*, **2014**, 348, 8-15	10.3	24

7	Surface functionalization of thin-film composite membranes with copper nanoparticles for antimicrobial surface properties. *Environmental Science & Technology*, **2014**, 48, 384-93	10.3	266
6	Mitigating biofouling on thin-film composite polyamide membranes using a controlled-release platform. *Journal of Membrane Science*, **2014**, 453, 84-91	9.6	28
5	Polyamide formation on a cellulose triacetate support for osmotic membranes: Effect of linking molecules on membrane performance. *Desalination*, **2013**, 312, 2-9	10.3	30
4	Biodegradable polymer (PLGA) coatings featuring cinnamaldehyde and carvacrol mitigate biofilm formation. *Langmuir*, **2012**, 28, 13993-9	4	61
3	Electronic-structure-dependent bacterial cytotoxicity of single-walled carbon nanotubes. *ACS Nano*, **2010**, 4, 5471-9	16.7	392
2	Developmental phytotoxicity of metal oxide nanoparticles to Arabidopsis thaliana. *Environmental Toxicology and Chemistry*, **2010**, 29, 669-75	3.8	387
1	Polysulfone ultrafiltration membranes impregnated with silver nanoparticles show improved biofouling resistance and virus removal. *Water Research*, **2009**, 43, 715-23	12.5	610