

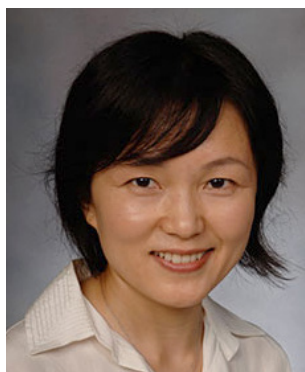
# Multifunctional Nanocomposite Coatings for Desalination and Water Treatment: *Technological Solutions to Integrated Water Management*

Thursday • February 25th, 2021 • 3:30 PM EST

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## Dr. Qilin Li

Professor, Rice University



Utilizing alternative water sources is an important aspect of the integrated water management paradigm. Cost-effective advanced treatment processes are needed to treat alternative water sources, which usually contain higher salinity and low concentrations of specific contaminants. Polymeric coatings and thin films are highly versatile platforms to introduce functionalities into a materials system. Immobilization of functional nanomaterials or nano-structured materials into a polymeric matrix provides a simple approach to multifunctional coatings on a variety of substrates.

Dr. Qilin Li is a Professor of Civil and Environmental Engineering, Chemical and Biomolecular Engineering, and Materials Science and Nanoengineering at Rice University. Her research is on advanced technologies for water and wastewater treatment and reuse, environmental nanotechnology, novel desalination methods, environmental fate and transport of contaminants, and environmental impact of nanotechnology. She is the Associate Director for Research for the NSF Nanosystems Engineering Research Center for Nanotechnology Enabled Water Treatment.

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