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Dr. Pei Xu is a professor in the Department of Civil Engineering at the New Mexico State University, and the research director of the New Mexico Produced Water Research Consortium. She leads basic and applied research on water quality, water reuse, membrane processes, and renewable energy-powered water treatment and desalination systems. The goal of her research is to address critical water challenges in arid and semi-arid regions using non-traditional water supplies such as brackish water, produced water, desalination concentrate, industrial and municipal wastewater.