

Soil as a Reactive Matrix: Understanding the Fate and Transport of Microplastics and PFAS in the Built Environment

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Bio:

Dr. Tonoy Das is an Assistant Professor of Environmental Engineering at Texas A&M University-Kingsville (TAMU-K). Previously, he was a postdoctoral researcher in the Department of Civil and Environmental Engineering at the University of California, Los Angeles (UCLA). He holds a Ph.D. in Environmental and Conservation Science from North Dakota State University and an M.S. in Soil Science from Punjab Agricultural University. His research focuses on engineered soil and water quality management solutions, exploring how weather variability impacts water and solute transport in porous media. He studies solute dynamics across scales using spectroscopy, microscopy, and experimental methods to inform nature-based stormwater treatment systems that enhance water quality and resilience in urban and natural environments.