

Environmental Nanotechnology: Understanding and Application

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During the last decade, conversions of nanotechnology to environmental engineering draw a significant attention. Namely, environmental nanotechnology seems to meet its expectation in terms of their enhancement in performances as cutting-edged materials for environmental management in various terms. Among them, separation processes and adsorption are one of major technological areas to which nano-enhanced materials reveal potential capacities. In this talk, the state-of-the-art research movement and examples of environmental materials incorporated with nanomaterials, i.e., nano-enhanced membranes for seawater desalination and energy harvesting using osmotic gradient, nano-sorbent applied for the removal of micropollutants, and electrospun nanofiber filter are discussed. Furthermore, open discussion about current limitation and future direction will entertain the audiences.