

Special Issue

Adsorption/Degradation for Environmental Pollutants

Message from the Guest Editors

This Special Issue advances research on sorption and degradation of pollutants across water, air and soil. The scope covers conventional contaminants and new pollutants that have emerged in recent years, including heavy metals, dyes, volatile organic compounds, per and polyfluoroalkyl substances, pharmaceuticals and personal care products, endocrine-disrupting chemicals, micro- and nano-plastics and antibiotic resistance determinants. We seek contributions that clarify mechanisms and inform robust and scalable technologies.

Core themes include adsorption from molecular understanding to process design. We welcome studies on the creation and functional tuning of high-efficiency adsorbents, thermodynamics and kinetics of uptake, selectivity in complex matrices and strategies for regeneration and long-term durability that enable circular use. Degradation is equally central, with emphasis on catalytic and photocatalytic routes, advanced oxidation and reduction processes, enzymatic catalysis and microbial pathways that transform pollutants into benign products.

Guest Editors

Dr. Xiaoying Guo

College of Ecology and Environment, Zhengzhou University, Zhengzhou 450001, China

Dr. Jie Zhang

College of Ecology and Environment, Zhengzhou University, Zhengzhou 450001, China

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Separations
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
separations@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

Prof. Dr. Frank L. Dorman
Department of Chemistry, Dartmouth College, Hanover, NH 03755,
USA

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