

Special Issue

Fundamentals and Practical Applications of Artificial Intelligence, Machine Learning, and Deep Learning in Photo- and Electrochemical-Based Wastewater Treatment

Message from the Guest Editors

The integration of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) is driving transformative innovation across scientific disciplines. In the field of advanced wastewater treatment, these computational tools offer unprecedented potential for enhancing prediction accuracy, optimizing processes, enabling intelligent automation, and accelerating material discovery. This Special Issue aims to curate cutting-edge research that bridges AI/ML/DL methodologies with photo- and electrochemical advanced oxidation processes. We seek to showcase work that fundamentally improves efficiency, understanding, design, and control of next-generation water remediation systems. We believe this collection will serve as a valuable resource for researchers and practitioners, fostering the development of smarter, more efficient, and sustainable solutions for water purification.

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