

## Special Issue

# Advanced Oxidation Processes toward Challenges in Contaminants of Emerging Concern Treatment

### Message from the Guest Editors

Nowadays, water scarcity is driving the urgent need for the improvement of water treatment, especially dealing with the challenges posed by contaminants of emerging concern (CECs). Recent water treatment research has highlighted the ability of advanced oxidation processes (AOPs) to treat a wide variety of contaminants. This Special Issue highlights the recent progress in the field of groundwater and surface water treatment, wastewater treatment toward water/sewage sludge reuse and energy recovery, and contaminated site remediation. We are pleased to invite you to contribute relevant research articles and reviews focusing on (but not limited to) the following topics:

- Behavior and fate of CECs during the advanced oxidation: reaction kinetics and mechanisms, degradation by-products and toxicological aspects;
- Hydroxyl and sulfate radicals based homogeneous AOPs (O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub>, UV/H<sub>2</sub>O<sub>2</sub>; UV/persulfate, chlorine-based AOPs, Fenton process);
- Heterogeneous photocatalysis;
- Renewable energy sources and green low-cost materials in AOPs;
- Progress in reactor design and AOPs pilot plant investigation.

### Guest Editors

Dr. Jelena Molnar Jazić

Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, 21000 Novi Sad, Serbia

Dr. Thillai Sivakumar Natarajan

Environmental Science Laboratory, CSIR-Central Leather Research Institute (CSIR-CLRI), Chennai 600020, Tamil Nadu, India

### Deadline for manuscript submissions

closed (30 December 2024)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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