

Special Issue

Advanced Oxidation Processes for Wastewater Treatment in Chemistry, Engineering, and Environmental Sciences

Message from the Guest Editors

Advanced Oxidation Processes (AOPs) represent a class of important procedures for the effective removal of xenobiotics, often refractory to biodegradation. As a result, the number of studies investigating the abatement of these compounds by advanced oxidation technologies is steadily increasing, also showing an interesting level of interdisciplinary collaboration between chemists, engineers, eco-toxicologists, and environmental scientists. On the other hand, the need for longer treatment times and greener processes has led to more efficient technical solutions, ranging from new photocatalytic materials to better reactor design at both lab and plant scale. Potential topics of interest for this Special Issue include, but are not limited to, the following aspects of AOPs:

- Kinetic studies and reaction mechanism identification
- Environmental fate of treated water streams and by-products identification
- Experimental techniques, lab-scale reactors
- Catalytic and photocatalytic materials
- Reactors and process design
- Environmental and eco-toxicological assessments

Keywords: Advanced oxidation processes; Wastewater treatment; Pollutants removal; Environmental protection

Guest Editors

Dr. Danilo Russo

Sustainable Reaction Engineering Group, Department of Chemical Engineering and Biotechnology, University of Cambridge, Philippa Fawcett Dr, Cambridge CB3 0AS, UK

Prof. Dr. Raffaele Marotta

Department of Chemical Engineering, Materials and Industrial Production, University of Naples Federico II, Corso Umberto I, 40, 80138 Napoli, NA, Italy

Deadline for manuscript submissions

closed (20 September 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/36853

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

mdpi.com/journal/

[applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)