



Recent Progress in Treatment of Organic Pollutants

Guest Editor:

Prof. Dr. Xiyun Cai

Key Laboratory of Industrial Ecology and Environmental Engineering (Ministry of Education), School of Environmental Science and Technology, Dalian University of Technology, Dalian 116024, China

Deadline for manuscript submissions:

closed (30 April 2022)

Message from the Guest Editor

Chemical oxidation systems (based on persulfate, H₂O₂, and KMnO₄) have widespread applications in the soil and groundwater remediation of organic contaminants. Some challenges remain to developing and optimizing chemical oxidation systems. Particularly, the development of oxidants and/or activators with high reactivity and longevity is the key basis for the development and application of chemical oxidation systems. The development of methods to maintain in situ levels of oxidants and/or activators will improve the performance of chemical oxidation systems. The development of combination methods of chemical oxidation and other treatments may minimize the use of oxidants and/or activators through the facilitated regeneration of oxidant/activator reagents, or enhanced availability of organic contaminants. Additionally, modeling simulations of chemical oxidation systems are highly appreciated, as they can provide novel knowledge and insights into in situ chemical reactions. Research and review articles covering all aspects of oxidation of organic contaminants in soil and groundwater are welcomed for inclusion in the Special Issue of Molecules.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)