



Advances in Novel Pesticide Discovery

Guest Editor:

Prof. Dr. Jian-Quan Weng

College of Chemical Engineering,
Zhejiang University of
Technology, Hangzhou 310014,
China

Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editor

Pesticides are an essential tool for modern agriculture and the global food supply. Due to the negative impacts some synthetic pesticides have on human health and the environment, the development and application of safe and environmentally friendly pesticides is a major focus of researchers. For this purpose, synthetic pesticides with high activity rates and unique mechanisms of action should be discovered. In this process, the novel lead compounds should be isolated or synthesized, their structures should be elucidated, their biological activities should be screened, their mode of action should be studied, and their structure–activity relationship should be obtained. Natural products are an excellent alternative to synthetic pesticides, and the discovery of natural products as green pesticides is an attractive pursuit. The technological advancement of pesticide formulations (such as controlled release pesticides) is also gaining attention. In conclusion, this Special Issue will consider the most recent and significant developments in pesticide discovery, including new pesticide molecules, new modes of action, new methodologies or techniques, etc.





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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/X@Molecules_MDPI)