Special Issue

Emerging Trends in Pesticides Discovery Based on Natural Products

Message from the Guest Editor

Natural products (NPs) are animal or plant metabolites which have the advantages of biocompatibility, structural diversity, and unique mechanism. The discovery of new leads based on natural products is an important way to innovate pesticides. However, due to the low natural abundance and structural complexity of many bioactive natural products, most cannot be used as pesticides directly. Total synthesis and structural simplification by truncating unnecessary substructures are powerful strategies for overcoming these limitations and improving the efficiency and success rate of NP-based pesticide development. In this Special Issue, we invite researchers to contribute original research or review articles on topics related to all aspects of natural lead compounds in NP-based pesticide discovery and development, including but not limited to the discovery of natural lead compounds, total synthesis, structural modification and activity evaluation of natural leads, structure–activity relationships, mechanism study and target identification, biogenic nanopesticides, etc.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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