

Special Issue

Recent Advances in Phosphorus Chemistry

Message from the Guest Editors

Phosphorus, the multifaceted element, is still attracting the interest of worldwide scientists and specialists from chemical industries. This Special Issue will collect some of the most recent advances in the fascinating field of phosphorus chemistry, going from molecular science to materials and their wide applications in science and technology. We invite scientists active in these broad areas of chemistry to contribute to this Special Issue, including, but not limited to:

- Activation and functionalization of elemental phosphorus;
- Synthesis and characterization of P-based ligands and organophosphorus compounds;
- Phosphorus-based catalysts in organic synthesis via homo- and heterogeneous processes;
- Synthesis of bioactive phosphorus compounds and their applications;
- Mechanistic studies by experimental methods and theoretical calculations;
- Phosphorus-based nanomaterials (metal phosphides nanoparticles, exfoliated black phosphorus);
- P-containing materials and their applications in energy conversion and storage

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).