Special Issue

Advances in Medicinal Chemistry for Drug Discovery and Development

Message from the Guest Editor

While remarkable progress has been made in combating many diseases, the global burden of cancer, cardiovascular and cerebrovascular diseases, and diabetes continues to grow. Innovative approaches and novel next-generation drugs are urgently needed. Natural products and designed small heterocyclic molecules remain invaluable in this effort, forming the basis of most drugs used in clinical practice. We invite researchers to contribute original studies and insightful reviews that highlight breakthroughs, opportunities, and challenges in harnessing natural and designed molecules for drug discovery. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Discovery of novel natural and synthesized drug molecules;
- Structural determination of bioactive molecules;
- Advances in the application of established molecules in drug discovery;
- Computer-aided drug design and molecular modeling approaches;
- Structure–activity relationship (SAR) studies between molecules and their biological targets.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Impactful chemistry often arises from the marriage of disparate chemical themes and fundamental concepts to focus on an important application and can feature collaborations across the sciences, industry, and beyond. This open access journal, *AppliedChem*, has been created to provide a new home for chemistry research that affords wide-ranging and substantive solutions to current and future global challenges. The broad scope of the journal will enable the best collaborative and targeted chemistry to be exhibited and new applications to be revealed.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.5 days after submission; acceptance to publication is undertaken in 5.6 days (median values for papers published in this journal in the first half of 2025).

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