Special Issue

Organic Synthesis: Novel Catalysts, Strategies, and Applications

Message from the Guest Editors

Organic synthesis has been an important part of chemical synthesis for decades to produce new compounds for use as pharmaceuticals, agrochemicals, materials, and many other applications. New catalysts, strategies (such as microwave-assisted organic synthesis, mechanochemical milling, and reactions under high pressure), and applications are being developed every day. In addition to new synthetic approaches, new catalysts are constantly being developed to increase the rate of organic reactions and to control the stereochemistry of the reactions. The development of novel reactions in synthesis is also complemented by detailed insights into the mechanisms of the reactions, both experimentally and by extensive computational studies at the appropriate levels of theory.

We are pleased to invite you to contribute an original research article or review to this Special Issue. Research areas may include (but are not limited to) the following:

- Organic synthesis of new compounds;
- Improved organic synthesis of known compounds;
- More environmentally friendly synthetic approaches;
- Development of new catalysts;
- Investigation of reaction mechanisms.

Guest Editors

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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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