Special Issue

C-H Bond Functionalization of Heterocyclic Compounds

Message from the Guest Editor

The functionalization of C-H bonds in heterocyclic compounds represents a transformative strategy in modern organic synthesis, enabling the direct modification of complex molecular frameworks with high efficiency and selectivity. This Special Issue focuses on recent advancements in methodologies, catalysts, and mechanistic insights regarding the activation of C-H bonds in heterocycles, which are pivotal structures in natural products, pharmaceuticals, agrochemicals, and materials science. We welcome submissions that highlight innovative approaches, such as transition metal catalysis, photoredox chemistry, and electrochemical methods, as well as the development of sustainable and atom-economical protocols. This Special Issue also explores the challenges and opportunities associated with achieving site-selective functionalization, stereocontrol, and the application of these techniques to the synthesis of biologically active molecules.

Guest Editor

Prof. Dr. Dong Wang
College of Chemistry, Xinjiang University, Urumqi 830017, China

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules

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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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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