







an Open Access Journal by MDPI

Alkynes: From Reaction Design to Applications in Organic Synthesis

Guest Editor:

Prof. Dr. Igor Alabugin

Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL 32306, USA

Deadline for manuscript submissions:

closed (30 January 2019)

Message from the Guest Editor

Dear Colleagues,

Alkyne functionality represents one of the most valuable building blocks of organic chemistry. Despite its seeming simplicity, it combines many unusual and attractive features. Furthermore, alkynes have the same oxidation state as carbonyl compounds and, hence, via simple addition of nucleophiles, offer a "hidden door" entry into carbonyl chemistry. Due to the presence of two independently addressable π -systems, alkynes can readily form four (and, under certain conditions, up to six) new bonds, lending themselves perfectly to the design of cascade transformations. The recent examples of unusual alkyne transformations include ionic chemistry of neutral hydrocarbons, preparation of radicals without radical initiators, generation of excited states without light, "1.2dicarbene reactivity" of alkynes in "boomerang" radical processes, selective conversion of alkynes into carbonyl compounds, and full disassembly of the alkyne moiety.

Prof. Dr. Igor V. Alabugin Guest Editor













an Open Access Journal by MDPI

Editor-in-Chief

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

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank: JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us