Artificial Photosynthesis: Recent Progress in Solar Energy Utilization

Message from the Guest Editors

Dear Colleagues,

Solar energy constitutes an alternative and sustainable energy source. Realizing an efficient method for converting sunlight into chemical energy is a key step towards large-scale solar energy utilization. For several decades, the natural photosynthetic system has been a source of inspiration for the development of artificial systems that are able to harness sunlight and store the energy in chemical bonds. Artificial photosynthesis is currently a topic of intense interest with the aim of producing carbon-neutral fuels through light-driven water splitting. In this Special Issue, recent achievements in water oxidation, hydrogen production and CO₂ reduction using heterogeneous and homogeneous catalysts will be highlighted.

Prof. Dr. Björn Åkermark
Dr. Eric V. Johnston
Dr. Markus D. Kärkäs

Guest Editors

Deadline for manuscript submissions:
closed (30 September 2019)
Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 22nd 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 by the Science Citation Index Expanded (Web of Science), MEDLINE (PubMed), Scopus and other databases.

**Rapid publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 14 days after submission; acceptance to publication is undertaken in 2.3 days (median values for papers published in this journal in the second half of 2019).

Contact Us

*Molecules*
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland
Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com
molecules@mdpi.com
@Molecules_MDPI