



Biomolecular and Biohybrid Systems for Solar Energy Conversion

Guest Editors:

Dr. Joanna M. Kargul

Centre of New Technologies,
University of Warsaw, Warsaw,
Poland

Dr. Margot Jacquet

Centre of New Technologies,
University of Warsaw, Warsaw,
Poland

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

Dear Colleagues,

Biohybrid technologies form a relatively young and dynamic field of green nanotechnology that utilizes a combination of designed synthetic and biological components. Such systems can take advantage of biological solar capture from photosynthetic organisms, such as cyanobacteria and algae; their photosynthetically active biological membranes; or the components of the photosynthetic apparatus to harness solar energy and convert it into electricity and solar fuels.

This Special Issue will provide an up-to-date compendium on the recent advances in direct conversion of sunlight into chemicals using rational approaches aimed at obtaining the highest product yields and conversion efficiencies.

Prof. Dr. Joanna M. Kargul
Dr. Margot Jacquet
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI