molecules

IMPACT FACTOR 4.6

Indexed in: PubMed

CITESCORE 6.7

an Open Access Journal by MDPI

Non-fullerene Acceptor Organic Solar Cells

Guest Editors:

Dr. Maria Vasilopoulou
Institute of Nanoscience and Nanotechnology (INN), National Center for Scientific Research (NCSR) "Demokritos", 15341 Agia Paraskevi, Attica, Greece

Prof. Dr. Leonidas Palilis
Department of Physics, Section of Condensed Matter Physics, University of Patras, Rio, 26504 Patras, Greece

Prof. Dr. Abd Rashid Bin Mohd Yusoff
Department of Physics, Swansea University, Swansea SA2 8PP, UK

Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Organic solar cells using non-fullerene acceptors (NFAs) have recently improved their power-conversion efficiencies to almost 16%. Based on blends of the NFAs with semiconducting polymers, these solar cells are fabricated from solution-processing techniques and have unique prospects for achieving low-cost solar energy harvesting, owing to their material and manufacturing advantages. Their potential applications are broad, ranging from flexible solar modules and semitransparent solar cells in windows, to building applications and even photon recycling in liquid-crystal displays. This Special Issue on "Non-Fullerene Acceptors for Organic Solar Cells" aims to reflect the state-of-the-art topics and progress in the design and synthesis of novel NFAs, material requirements and device operation mechanisms, photoactive layer morphology control, interfaces and electrodes modification, device characterization and photophysics studies, fabrication of novel device architectures, encapsulation methodologies, stability studies, etc. Contributions of theoretical and experimental work or both are welcome, and your contribution to this Special Issue would be greatly appreciated.

molecules

IMPACT FACTOR 4.6 | Indexed in: PubMed | CITESCORE 6.7

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 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
𝕏@Molecules_MDPI