

Special Issue

Organic and Hybrid Energy Materials: Photo-Electrocatalytic Applications

Message from the Guest Editors

Solar energy is a very promising candidate to supply the huge demand for renewable and clean energy in our society. One way to take advantage of this enormous source of energy is using photon-to-chemical energy conversion to produce so-called solar fuels. This task requires the use of highly efficient photo-electrocatalysts. Organic materials are a very promising class of materials to be employed as catalysts, for instance, for hydrogen evolution reaction (HER). The advent of donor-acceptor copolymers has brought a new horizon to the field of organic photovoltaics thanks to the key feature of such a kind of materials as the broad absorption profile in the visible range of the electromagnetic spectrum and an improved charge transfer process. In fact, a number of organic and hybrid materials have been proposed as candidate materials as photo(electro)catalysts for solar fuel production. We warmly welcome contributions, both original papers and reviews, to compose this Special Issue devoted to showcasing recent developments regarding advanced organic and hybrid materials employed as photo-electrocatalysts for energy generation.

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Deadline for manuscript submissions

closed (31 January 2022)



Catalysts

an Open Access Journal
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Impact Factor 4.0
CiteScore 7.6



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