

Special Issue

Advanced Materials for CO₂ Conversion

Message from the Guest Editor

At present, the CO₂ concentration in the atmosphere is increasing due to human activity, having a negative environmental impact in many ecosystems. There are several approaches to mitigate this phenomena: reduce emissions, capture CO₂ from the atmosphere, and convert it to valuable chemicals. A profitable technology for CO₂ conversion to valuable products would drive industrial implementation. During the last decade, many procedures/technologies have been developed; it is likely that not only one solution, but a combination of several procedures, will help to restore the CO₂ levels. However, in the short term, there is a special interest in CO₂ conversion to fuels, as this technology would cycle the CO₂ emitted by industries and activities based on fossil fuel and considerably reduce their carbon footprint. The aim of this Special Issue is to cover the research trends on materials for CO₂ conversion. Full papers, short communications, and reviews in this field are welcome. Mini-reviews with an overview on the state of the art with the future perspectives and trends will be also considered.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2021)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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