Special Issue

Ionic Liquids: A Greener Approach in Catalysis

Message from the Guest Editor

Ionic liquids (ILs) can be generally defined as materials that are composed of cations and anions which melt at a certain temperature without being decomposed. The facile functionalization and modification as well as the vast variety of cations and ions that can be combined to form an IL make ILs a kind of valuable material to be used in catalysis as reaction media, catalyst stabilizers, and/or co-catalysts. The use of ILs in catalysis—mainly in biphasic or supported systems—could in most cases provide improved conversion and selectivity as well as good product separation, catalyst recovery, and reutilization. Due to a recently growing interest shown by the scientific community in the application of ILs in catalysis, this Special Issue is devoted to the design and preparation of innovative ILs and their applications and vast roles in catalysis (e.g., reaction media, co-catalysts, stabilizers, etc.). For the above-mentioned reasons, we kindly invite you to submit a manuscript to this Special Issue in the form of a full paper, communication, or review.

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Deadline for manuscript submissions

closed (31 October 2020)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/19428

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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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