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Functional Materials by Circular Chemistry Approaches

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Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editors

The pivotal role of chemistry appears to be well acknowledged, as chemistry offers an underlying methodological and theoretical framework for all material systems. Therefore, chemical approaches for designing and producing systems may ingeniously contribute to sustainable solutions, compliant with the relevant paradigms of a circular economy. This Special Issue intends to address different possible declinations of synthetic chemistry in tackling material and chemical production and recycling according to a “circular chemistry” approach.

This Special Issue will encompass contributions dealing with the synthesis of functional inorganic, polymeric, and organic materials using circular chemistry approaches. Emphasis will particularly be given to approaches based on the following:

- natural or recycled feedstocks
- Earth-abundant and non-critical raw materials
- LCA supported synthetic approaches
- material design for recycling
- low energy consumption and low ecological footprint
- valorisation of biomasses
- valorisation of waste



mdpi.com/si/72079

Special Issue



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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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