Special Issue

Neutral and Ionic Organic-Base Phase Change Materials: Design, Synthesis, Characterization, New Developments, Applications and Perspectives

Message from the Guest Editors

Phase Change Materials (PCM) are one of the most important players for the consolidation of thermal energy storage (TES) in the current energy transition. However, the boost to implementate TES systems in the market remains a big challenge. In this sense, the development of versatile TES systems with high TES density, easy preparation and handleing and low cost that will contribute to the desired implementation are highly demanded. This Special Issue is consequently devoted to new developments, desing, synthesis and characterization of OPCMs (neutral and ionic) with energetic solid-liquid and/or solid-solid transitions but it covers potential applications and future perspectives of these interesting materials as well. Therefore, we kindly invite you to submit your manuscript to this Special Issue in the form of a full paper, communication or critical review.

Guest Editors

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Deadline for manuscript submissions

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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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