Special Issue

Physicochemical Properties of Organic and Hybrid Semiconductor Materials

Message from the Guest Editor

In this Special Issue, we are calling for original and review papers regarding “Physicochemical Properties of Organic and Hybrid Semiconductor Materials” in a broad sense. Not only *literally* organic semiconductors (including polymeric semiconductors) but also “hybrid” materials in any sense, such as organic–inorganic, metal–organic, bio-inspired, and so on, are within the scope of this Special Issue as long as these exhibit (or are expected to exhibit) semiconductor characteristics. Any fundamental properties of these materials lying behind fabrication and operation processes of the electronic devices, e.g., crystallization, epitaxial growth, electronic (band) structures, and charge carrier transport mechanisms, are covered in the range of the topics. Keywords

- organic (opto-)electronics
- emerging materials for flexible devices
- bioelectronics
- superconductivity
- charge carrier transport
- electronic (band) structures
- quasi-particle properties (polaron/exciton/phonon/vibron)
- doping/charge transfer
- crystal growth/epitaxy
- state-of-the-art methodologies for materials properties

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

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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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