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Physicochemical Properties of Organic and Hybrid Semiconductor Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

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

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Message from the Editor-in-Chief

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