Special Issue

Advances in Molecular Electronics: Materials and Devices

Message from the Guest Editors

This Special Issue, “Advances in Molecular Electronics: Materials and Devices”, will address the most recent progress in the field of molecular electronics, ranging from molecular design and synthesis to device integration strategies and functioning. To achieve robust functional solid-state molecular devices, original papers are solicited to cover aspects involved in the design and preparation of advanced functional molecular-based devices. Such as synthesis of functional molecular components; single and large molecular junctions (fabrication, characterization, charge-transport mechanism rationalization); molecular function integrity (charge, spin, conformation, etc.) upon electrode binding; molecule–electrode interface characterization; molecule integration into devices (i.e., to tune electrode work function or to implement additional functions); and self-assembled monolayers applied to sensing, memory, switching, and actuation functions.

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Deadline for manuscript submissions

closed (10 July 2022)

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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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