Special Issue

Advanced 2D Materials for New-Generation Electronic Devices

Message from the Guest Editor

Graphene and other two-dimensional (2D) materials have been one of the hottest research areas in the past decade. To date, 2D materials have been used to fabricate a new generation of devices with improved functionalities. However, the great potential of these materials lies in the capacity for conceiving and fabricating new building blocks that could change the paradigm of electronic devices, moving to the “beyond CMOS” realm. We can mention new devices based on spintronics or also other, very interesting, new exotic materials such as 2D topological insulators that will lead the real revolution in 2D materials, exploiting their unique and intrinsic properties. It is my pleasure to invite all the main actors in the field of 2D materials to submit contributions that will help to identify the main trends for the future of disruptive technologies in the field of electronics, which will be published in the Special Issue. Full papers, communications and reviews on experimental and theoretical studies of atomically thin 2D materials in devices based on nanoelectronics, optoelectronics or spintronics are all welcome.

Guest Editor

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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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