Special Issue

Nano- and Micro-Scale Surface Reactivity in Selected 2D Materials and Its Influence on Electronic Properties of Those Materials

Message from the Guest Editor

This issue will report on and elucidate the mechanisms of nano-/micro-scale surface reactions in selected 2D materials. Contributions are expected to concentrate on transition metal dichalcogenides (TMDCs), but other 2D materials can also be included. Contributions are expected to report and decipher various modes of surface reactivity, doping, etching, etc. in either atmospheric conditions, for example, in the presence of oxygen molecules and water vapors, and/or in atmospheres of other gases. All kinds of approaches are welcome, including experiments, theories, and simulations. Contributions are also welcome that address the influence of such micro/nano chemistry change on electronic properties and on the electronic structures of modified 2D materials. Papers dealing with the effects of underlying substrates are also welcome.

Guest Editor

Prof. Robert Szoszkiewicz
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Deadline for manuscript submissions

closed (20 November 2021)

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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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