

## Special Issue

# 2D Materials for Advanced Devices

### Message from the Guest Editor

The aim of this Special Issue, entitled “2D Materials for Advanced Devices”, is to offer the latest cutting-edge research and development of 2D technology. This issue seeks to publish recent advances in the synthesis of novel and high-quality 2D materials, device fabrication and testing, integration challenges solving, and surface and interface engineering.

- Graphene and its analogs (graphane, graphene oxide, fluorographene, etc.)
- Monoelement 2D materials: silicene, germanene, borophene, phosphorene, arsenene, stanene, bismuthene, tellurene, etc.
- 2D chalcogenides: WSe<sub>2</sub>, MoTe<sub>2</sub>, TaS<sub>2</sub>, GaTe, InSe, Sb<sub>2</sub>Te<sub>3</sub>, Bi<sub>2</sub>Se<sub>3</sub>, etc.
- 2D oxides, carbides, and nitrides
- 2D perovskites, hydroxides, MOFs, MAX phases, MXenes, metal halides, and other novel 2D materials.
- 2D Materials engineering: surfaces, interfaces, heterostructures, alloying, passivation, functionalization, etching, 0D and 1D structures from 2D materials, 2D quantum wells, etc.
- 2D advanced devices and applications
- Physics and materials science at 2D limit

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### Guest Editor

Dr. Rafik Addou

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### Deadline for manuscript submissions

closed (15 July 2021)



## Materials

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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