CALL FOR PAPERS

Two-dimensional (2D) nanomaterials have been the focus of intense research efforts since the discovery of graphene in 2004. These single-layered nanomaterials exhibit properties which differ dramatically as compared to those of corresponding bulk materials. Due to their exotic properties, 2D nanomaterials have been regarded as a family of promising materials for next-generation technologies with wide applications. The broad application prospect of 2D nanomaterials is currently attracting rapidly increasing research efforts on both fundamental sciences and technological applications of these materials.

We invite original research and review papers reporting recent efforts in the field of 2D nanomaterials. This special issue seeks to publish experimental, computational, and theoretical studies of all aspects in this field. The materials of interest include but are not limited to graphene, hexagonal boron nitride, element analogues of graphene (silicene, germanene, stanene, black phosphorus, and borophene), transition metal dichalcogenides, topological insulators, perovskite nanosheets, MXenes, van der Waals heterostructures, and other novel 2D nanomaterials.

Potential topics include but are not limited to the following:

- ▸ Synthesis, characterization, processing, and chemistry of 2D nanomaterials
- ▸ Applications of 2D nanomaterials in electronics, photonics, catalysis, sensing, photovoltaics, energy storage, membranes, biological engineering, composites, and so forth
- ▸ Computational and theoretical prediction of new 2D nanomaterials and related novel properties

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