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2D Material-Based Semiconductors: Design and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The last decade has witnessed rapid progress in the development of two-dimensional materials for application in novel technologies. 2D nanostructured materials turn into novel platforms for fabrication of advanced electronic, photonic, and mechatronic systems. Therefore, this Special Issue may cover various topics in the area of 2D semiconductor materials, including the synthesis, design, and fabrication of advanced technologies that exploit the functionalities of 2D materials for their performances. We eagerly accept high-quality studies in various area of science and technology that brings interesting concepts in the rapidly growing field of 2D semiconductors. Our Special Issue covers various areas, including the synthesis and the application of 2D semiconductor materials in electronics, photonics, artificial intelligent systems, micromechanics, biotechnologies, environmental, catalysis, and energy applications. The present collection of papers is expected to provide a paradigm of the merit of the two-dimensional materials to discover new opportunities for improving the current technologies.



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Message from the Editor-in-Chief

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