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# **Synthesis, Properties and Applications of 2D Materials**

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## **Message from the Guest Editors**

Two-dimensional nanomaterials, including metals, oxides, transition metal dichalcogenides, and heterostructures, have received attention due to their versatile physiochemical properties such superconductivity, magnetization, and charge density wave, which are suitable for different applications. Further modification of these materials via defect engineering, nanoparticles deposition, Li intercalation, electron beam and light irradiation, alloying, dimension tuning, etc., lead to interesting properties suitable for various tunable device applications. Due to their superior mechanical flexibility, controllable electrical properties, planar fabrication properties, high surface-to-volume ratio, etc., 2D materials and their heterostructures have emerged as suitable materials for sensing and optoelectronics applications.

We invite researchers to contribute to this Special Issue on the synthesis, properties, and applications of 2D materials. We aim to cover the properties, structure, and fundamental understanding of the 2D materials.











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## **Message from the Editor-in-Chief**

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