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Laser-Based Synthesis, Processing, and Characterization of 2D Quantum Materials

Guest Editor:

Dr. Masoud Mahjouri-Samani

Department of Electrical and Computer Engineering, Auburn University, Auburn, AL 36849, USA

Deadline for manuscript submissions:

closed (7 October 2020)

Message from the Guest Editor

Dear Colleagues,

Two-dimensional (2D) quantum materials have recently emerged as an exciting class of atomically thin structures that possess extraordinary optical, electrical, mechanical properties. Motivated by their properties and potential applications, there has been a worldwide interest in research areas ranging from synthesis and processing to characterization and functionality of 2D materials. Interestingly, the strong light interactions with 2D materials not only govern their behavior but can also be used as versatile synthesis, processing, and diagnostic tools to precisely tailor their structures and probe their properties. The spatial and temporal tunability, controlled energy, and power densities of laser beams enable a broad spectrum of applications in the synthesis and processing of 2D quantum materials that are not accessible by other means. This Special Issue of Nanomaterials aims to document recent advances in the application of lasers for the synthesis, processing, and characterization of 2D materials and heterostructures











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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

Message from the Editor-in-Chief

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