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Integration of 2D Materials for Electronics Applications

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Deadline for manuscript submissions:
closed (30 November 2017)

Message from the Guest Editors

Dear Colleagues,

Two-dimensional (2D) crystals and their vertical/lateral heterostructures are currently the subject of massive research interests, both for fundamental science and for technological applications in diverse fields, such as electronics, optoelectronics, quantum metrology, spintronics, membranes, energy conversion/storage, and sensing.

Integration of 2D materials within real device structures currently represents the main challenge to move from the laboratory stage to industrial applications, especially in the fields of electronics/optoelectronics. This implies addressing several complex material science and processing issues, including: (i) the growth of high electronic quality 2D crystals on large area, and non-destructive transfer to the target substrate, when needed; (ii) the fabrication of contacts for optimal current injection at 3D/2D materials interface; and (iii) the deposition of thin dielectric films on the chemically inert surface of Van der Waals crystals.

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Editor-in-Chief

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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