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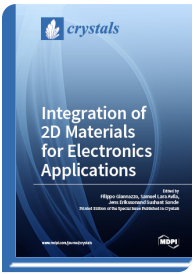
Special Issue Reprint

Integration of 2D Materials for Electronics Applications



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Edited by
Filippo Giannazzo
Samuel Avila
Jens Eriksson
Sushant Sonde

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Two-dimensional (2D) materials 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 Book is a collection of 9 papers, covering the different key topics of this rapidly developing research field. These include: synthesis of 2D materials, progress in relevant processing issues (contact, doping and mobility engineering), advanced characterization techniques, novel device applications based on the integration of these 2D materials.

Many of the papers of this collection are review papers, providing the general introductory information and a broad overview of the most recent advances in the specific topic. Hence, this book can serve both as a general introduction for non-experts in the field and as a guide for scientists/engineers working in the field of 2D materials integration.

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