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Epitaxial Growth of Semiconductor Materials and Devices

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Deadline for manuscript submissions:
closed (15 October 2023)

Message from the Guest Editors

Dear Colleagues,

Epitaxial growth is a valuable method for exploring the physical limits of semiconductor material, accessing novel (nano)structures requiring near-atomic precision, and producing critical devices. It is responsible for a significant range of semiconductor devices and applications including but certainly not limited to optoelectronics, photovoltaics, biomedical engineering, and power electronics. The ability to grow single-crystalline, low-defect semiconductor material is a necessity to innovate within these paradigm-shifting applications. While epitaxy has served this purpose for decades, advances continue to be made through development of novel materials, structures, and growth techniques. Recent examples include the resurgence of hydride vapor phase epitaxy, as well as the development of remote epitaxy and droplet epitaxy to name a few. This Special Issue seeks submissions in which epitaxy enables the furthering of semiconductor material understanding, the development of novel/unique growth techniques, as well as the recent progress in epitaxy-based devices.

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Message from the Editor-in-Chief

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