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Growth and Characterization of II-VI Crystals

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Message from the Guest Editor

The purpose of this Special Issue is to publish the latest work of academics who work with II-VI materials. II-VI mixed compounds are known in a wide range of applications: x-ray and gamma-ray radiation sensors (CdZnTe), detector technologies operating in the infrared (HgCdTe), ultraviolet, solar cells (CdTe), broadband devices based on ZnO, spintronics (ZnMnSe, ZnMnTe), optoelecronics and many more, based on other II-VI semiconductors and alloys. Mixed compounds allow a smooth change of the band gap and lattice constants, allowing for tunable band gaps. These materials are finding applications in many fields.

The Issue aims for a better understanding of the basic physics and chemistry of these materials, as well as growth processes. The areas of interest include: materials growth and characterization, materials engineering, intrinsic and extrinsic defects and dopants, surface chemistry, fabrication processes, electrical properties and modeling, charge transport, optical properties, electro-optical and magneto-optical properties, as well as the interaction among all of these.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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