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CdTe and Related Compounds: New Emerging Functionalities, Technologies and Applications

Guest Editor:

Prof. Jan Franc
Charles University, Prague Praha, Czech Republic

Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

CdTe and related compounds have so far achieved a number of various excellent commercial applications. CdZnTe and CdTe bulk crystals are materials of choice for the detection of hard X-ray and gamma rays used in medical imaging, nonproliferation, radiation safety, materials diagnostics, and other fields. CdTe quantum dots are widely applied as biosensors. This Special Issue welcomes submissions on topics below:

- Materials and fabrication processes—novel CdTe-based materials and hybrids, as 1D, 2D nanostructures, thin films, and bulk crystals, or organic/inorganic hybrid materials;
- Physics of CdTe-based structures—focused on fundamental electrical, optical, and mechanical properties, 1D-3D defects, charge transport, contacts, and interfaces;
- Devices and device structures—device reliability, stability, modeling, and simulation;
- Breakthroughs in fundamental physics—spin-polarized charge transport, CdTe/HgTe quantum wells as topological insulators, and other emerging topics.

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Message from the Editor-in-Chief

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