

## Special Issue

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

### 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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### Guest Editor

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

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### Deadline for manuscript submissions

closed (31 December 2021)



## Materials

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### Message from the Editorial Board

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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