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Semimetal, Semiconductor or Oxide based Electronics, Optoelectronics and Integrated Devices and Sensors

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Deadline for manuscript submissions:

closed (15 December 2020)

Message from the Guest Editors

Dear Colleagues,

The purpose of this Special Issue is to provide an update of the developments and trends towards the realisation of smaller, smarter, and less power hungry devices spanning from electronics and photonics to various sensing and data storage architectures. We seek research and review articles about different aspects of material science and device concepts, including atomic-scale simulation, TCAD modelling, design, growth, synthesis, functionalisation, nanofabrication, and material/device structural, electronic, optical, chemical, mechanical and magnetic characterization, as well as quantum effects, surface termination, impurities, defects and grain boundary studies. Papers on a wide range of material systems from semimetals and semiconductors to oxides, organic and inorganic materials and the devices made of such materials, and their diverse and emerging applications in any form of integrated circuits and systems will be considered. This could be expanded to topological insulators and spin-polarised materials and devices as well.

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Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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