Special Issue on Solid State Physics Research

Call for Papers

Solid state physics is the study of rigid matter, or solids, through methods such as quantum mechanics, crystallography, electromagnetism, and metallurgy. Solid state physics studies how the large-scale properties of solid materials result from their atomic-scale properties. It is not the properties of single atom, but the collective properties of massive atoms composed together to form a solid. Thus, solid-state physics forms the theoretical basis of materials science. For decades, based on the energy band theory of solid physics, scientists have made great breakthroughs in modern scientific research, such as semiconductors, lasers, superconductors and magnetics. This special issue will be focusing on studying basic concepts of solid state physics and discussing the practical applications in various fields.

In this special issue, we intend to invite front-line researchers and authors to submit original researches and review articles on exploring solid state physics research. Potential topics include, but are not limited to:

- Solid dielectric and optical properties
- Solid state physics in materials science
- Electron metamorphosis
- Quasicrystal
- Spin glass
- Internal friction and solid defects
- New structure and functional materials
- Solid state physics in transistors and semiconductors technology

Authors should read over the journal’s For Authors carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal’s Paper Submission System.

Please kindly notice that the “Special Issue” under your manuscript title is supposed to be specified and the research field “Special Issue – Solid State Physics Research” should be chosen during your submission.

According to the following timetable:

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Guest Editor: