

Special Issue for Current Smart Materials

Guest Editors: Anh-Tuan Le, Pham Thanh Huy

Functional Nanomaterials and Devices for Health-care, Environment and Sustainable Energy Applications

Aims and Scope:

Nowadays, the infectious and non-communicable diseases, inefficient use of energy, and environmental pollutions are the emerging global problems and challenges. Therefore, there is a pressing need for seeking new solutions to address these problems. Recently, functional nanomaterials and devices have attracted growing interest from worldwide researchers for their advanced technological applications such as health-care, environment and energy because they exhibit unique properties such as high surface area, high dispersion and long-term stability.

To explore the novel ability of advanced functional nanomaterials and devices for such applications, we cordially invite global researchers to contribute original research and review articles to this special issue. We are particularly interested in publishing articles reporting recent and new developments in synthesis, characterization of functional nanomaterials and devices as well as their demonstrations for potential applications in all aspects of health-care, environment and sustainable energy.

This issue also will select some high-quality papers presented at the National Conference on Solid State Physics and Materials Science (SPMS-2017), this conference will be organized by Vietnam-Materials Research Society that will be held at Hue city in Vietnam, October 19-21, 2017.

Key words:

Nanomaterials, Devices, Health-care, Environment, Sustainable Energy

Topic Covered in this Special Issue:

- Functional nanomaterials: synthesis and characterization
- Functional nanomaterials for early diagnostics of targeted cancer cells
- Advances in nanomaterials, nanodevices for detection and treatments of infectious pathogens
- Nanomaterials for drug delivery and bone tissue engineering
- Nanomaterials for therapeutic applications and biomedical engineering
- Functional nanomaterials in health-care technology
- Nanomaterials for monitoring and treatment of environmental pollutants
- Advanced functional nanomaterials for biosensing technologies
- Nanomaterial-based chemical sensor technology
- Advanced functional nanomaterials and devices for energy conversion
- Advanced nanomaterials and devices for energy storage
- Nanomaterials for energy harvesting

List of contributing authors:

Vu Quang Khue, Vu Van Cat, Hoang Van Tuan, Ong Van Hoang, Ngo Xuan Dinh
Other authors are invited to submit papers to this Special Issue

Schedule:

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