



Advanced Temperature Sensitive Materials, Devices and Systems

Guest Editor:

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Message from the Guest Editor

In recent years, the study of temperature-sensitive materials, devices and systems has become an interdisciplinary topic of enormous interest to material scientists, engineers and practitioners. Specific case studies that are of interest to the scientific community include the following:

- Temperature sensitive hydrogels in biomedical applications
- Temperature induced color changes in polymers
- Temperature sensitive fabrics for monitoring temperature of the skin
- Microfluidic actuators based on temperature-responsive hydrogels
- Temperature-sensitive cathode materials for safer lithium-ion batteries
- Temperature sensors based on semiconducting oxides
- Energy Storage in phase change materials

Investigations on temperature sensitive materials and devices have significant applications in the aerospace, automotive and transportation, communications, defense, electronics, energy and environment, food, health and space related industry.

The proposed Special Issue on “Advanced Temperature Sensitive Materials, Devices & Systems” invites authors to contribute their research on the above related topics.





Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers fourteen comprehensive topics: Biomaterials; Energy Materials; Composites; Structure Analysis; Porous Materials; Manufacturing Processes; Advanced Nanomaterials; Smart Materials; Thin Films; Catalytic Materials; Carbon Materials; Materials Chemistry; Materials Physics; Optics and Photonics; Corrosion; Building Materials. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles.

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CiteScore (2018 Scopus data): **3.26**, which equals rank 97/439 (Q1) in 'General Materials Science'.

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