Call for Papers

Science of Advanced Materials

(www.aspbs.com/sam)

A Special Issue on

“Functional Materials for Advanced Future Applications”

Functional materials are specifically designed material with native properties and functions. Semiconductors, flexible polymers, organic molecules, and nanocrystals are good examples of them. Their physical-chemical properties make functional materials can be used in special applications, such as ferroelectricity, piezoelectricity, magnetism, energy conversion and storage. Functional materials are also usually synthesized with special structures. For instance, nanomaterials possess large surface to volume ratio, which can maximize their interaction with surroundings. In the past decades, functional materials with special properties and structures have been widely applied, which greatly changed people’s daily life. Moreover, lots of future applications can be explored with functional materials. The research on the fabrication, characterization and application of functional materials is crucial for future technologies.

The goal of this special issue is to highlight recent experimental and theoretical developments in functional materials for advanced future applications. We invite contributions on novel concepts and ingenious designs of functional materials related to flexible electronics, wearable devices, electronic skins, smart sensors, nanogenerators, solar cells, energy storage, and catalysis. The submitted works are expected to feature, but are not limited to, the following topics:

- Flexible materials for flexible electronics
- Novel materials for wearable devices
- Stretchable materials for electronic skins
- Smart sensing materials
- Materials for nanogenerators
- Photoelectric materials for solar cells
- Electrode materials for batteries and supercapacitors
- Nanostructured electrocatalysts and photocatalysts
Manuscript Submission:
Manuscripts must be prepared according to Journal’s guidelines, available at http://www.aspbs.com/sam. All papers submitted to this issue will be subject to a strict peer review process to ensure high quality articles. Please make sure in the cover letter that the submitted paper has not been published previously and is not currently submitted for review to any other journal and will not be submitted elsewhere before a decision is made by this journal. Please notify well in advance all accepted manuscripts shall be paid general manuscript processing fees.

KEY TIMETABLE DATES

Manuscript due: August 15, 2020
Authors’ notification: September 31, 2020
Publication date: October-November 2020

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