

Reviews in Advanced Sciences and Engineering

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“Perspectives of Disordered Materials”

Disorder is the common theme in the minimization and lifting of lattice constraints, which permits the placing of elements in three dimensional space where they interact in ways that were not previously available. This allows the utilization of multi-elements and complex materials including metals where positional, translational and compositional disorder removed the restrictions so that new local order environments could be generated that controls physical, electronic and chemical properties of the material. Disordered materials are disordered collection of discrete particles in various length scales that interact via short range forces. Disordered materials are very different from common solids and liquids due to their unique behaviour.

Devices made of disordered materials (e.g., amorphous semiconductors, glasses, liquid semiconductors, non-crystalline solids etc) have become the enabling technology for generating electricity through thin film photo-voltaics which can be cost competitive to fossil fuels, for storage of electricity in batteries for electric and hybrid vehicles, ushering in a new, much needed transportation revolution, and high density switching and storage media based on phase change optical and electrical memories, liquid crystal displays, so needed for our information society.

We encourage the submission of innovative full-length research articles, reviews and communications for rapid publication on the aforesaid fields and related disciplines. Experimental as well as theoretical research works are also welcomed that provides some insight of new concepts.

Manuscript Submission

- Manuscripts must be prepared according to Journal's guidelines, available at <http://www.aspbs.com/rase>. Submit your manuscripts in MS word or PDF format online to any of the following email addresses.
- In the cover letter, please mention that the manuscript is submitted for the special issue. All papers submitted to this issue will be subject to a strict peer review process to ensure high quality articles. Mention the name of three potential referees with their contact address and designation in the cover letter.
- Authors should submit a statement of novelty and originality in the cover letter to ensure that the submitted paper is original and it is neither published previously nor submitted to any other journal presently and will not be submitted somewhere else before a final decision is made by this journal.

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