

Tentative Outline

Special Issue for Recent Patents on Materials Science

Title: Recent innovations on Composite materials and its applications

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Aims & Scope:

Composites exhibit higher strength and stiffness with lightweight when compared to matrix material. Not only for simply improving mechanical properties, but also many composites are nowadays prepared for improving specific functions, such as good conductivity, insulation, magnetic properties, etc. Modern composite industry is tailored to make composites for having specific characteristics in terms of the structure, properties, processing and applications. An appropriate combination of matrix and reinforcement materials, the composites can be produced to fit the specific requirements of the need. These composites are used in aviation, electrical devices, packaging, solar cells, sensors, anti-corrosive coatings, high temperature applications, biomedical applications, etc. There are also development of composites from waste plastic bottles, building materials and agricultural wastes. There is still a need of composites for specific applications that are exposed to the extreme environmental conditions, such as marine applications, spacecrafts, chemical-handling equipments, automotive, electronics, sports, surface transportation, power generation and other general engineering industries. In this special issue, an attempt is made to incorporate the recent works related to composites for specific and demanding applications.

Key words: Composite Materials , Applications

Subtopics:

- Metal matrix composites
- Ceramic matrix composites
- Polymer matrix Composites
- Hybrid Composites
- Fiber-reinforced composites
- Bio composites
- Nano composites

Schedule:

Manuscript submission deadline: **30 October 2018**

Peer Review Due: **21 November 2018**

Revision Due: **21 December 2018**

Notification of acceptance by the Guest Editor: **03 January 2019**

Final manuscripts due: **31 January 2020**