

Call for Papers

WSEAS TRANSACTIONS on APPLIED and THEORETICAL MECHANICS

Special Issue on Advances Materials Research

Editor:

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Aim: The Special Issue covers all areas of materials research with a particular interest in synthesis, processing, and properties from the nanoscale to the microscale to the bulk. Coverage includes all classes of material – ceramics, metals, and polymers; semiconductors and other functional materials; organic and inorganic materials – alone or in combination as composites. Innovation in composition and processing to impart special properties to bulk materials and coatings, and for innovative applications in technology, represents a strong focus.

Topics:

Materials:

Alloy Materials
Amorphous Materials
Bio-Composites Materials
Biomaterials
Biomimetic Materials
Ceramic Materials
Coating Materials
Composites Materials
Electrochemical Materials
Fibre Materials
Hybrid materials
Microporous materials
Nanomaterials
Phase Change Materials
Polymeric materials
Smart Materials
Design:

Adaptive Structures
Computational Failure Analysis
Design against Failure
Design for Manufacturing
Design of Ultralight Structures
Design for a Clean Environment

Design Analysis and Optimisation
FEM, BEM and Hybrid Methods
Integrated Computer Aided Design
Multiscale Modeling and Simulation

Submission Deadline: December 31, 2016

Submission Rules: Manuscripts should be prepared according to the formatting instructions. Manuscripts submitted to the Special Issue on Heat Transfer and Thermo-mechanical Wear in High Temperature Systems and Industry are to be submitted following the standard submission process. All submitted manuscripts will be reviewed using the standard procedure that is followed for regular submissions.