

Special Issue

Advanced Material, Machinability & Intelligent Future Manufacturing Systems

Message from the Guest Editors

Recent years have seen several new discoveries and developments in materials including graphene, carbon nanotubes and a variety of ceramics. Material scientists have earnestly taken advantage of these new advances to create a myriad of new materials. We invite papers from experts in the fields of material characterization and material machining, focusing on their production processes that serve as an important resource to underpin further activities in manufacturing. Papers will cover the current progress, gaps between areas and encourage new directions for research over the coming decades. Therefore, contributions are welcomed from the following topics list of topics, which is by no means exhaustive:

- Materials in additive manufacture of safety-critical components;
- Manufacture of metal matrix composites (MMC) and ceramic matrix composites (CMC);
- MMC and CMC composites, characterization and machinability;
- New techniques in the machining of hard-to-machine materials;
- Biological material manufacture process and applications;
- Material and manufacturing process modelling ;

Guest Editors

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Prof. Dr. James Ren
Prof. Dr. Anna Burduk

Deadline for manuscript submissions

closed (20 July 2023)



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About the Journal

Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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