Special Issue

Advanced Technology for Materials Synthesis and Processing

Message from the Guest Editor

This Special Issue of *Materials* is focused on recent developments in the area of Additive Manufacturing (AM) processing methods, materials and related implementation. AM production technologies have developed significantly in recent years. We have seen the development and implementation of new metals, polymers and ceramics; multi-material printing; shape memory alloys; nano and multi-scale material design; composites; and metamaterials. Production technologies development includes for metals: SLM, DED, and Ink jetting; for polymers: STL, SLS and Ink jetting; and for ceramic: STL, FDM composite, and Ink jetting. The sustainability of AM has been noted as an advantage of this production method compared to alternative conventional and assembly technologies, yet this remains an under examined area and while correct in the case of some part designs, it is not correct for all part designs. While papers are encouraged in the above mentioned areas, papers are invited more broadly from this rapidly changing area of AM technology.

Guest Editor

Prof. Dr. Dermot Brabazon

1. School of Mechanical and Manufacturing Engineering, Dublin City University, D09 V209 Dublin, Ireland
2. Advanced Processing Technology Research Centre APT, D09 V209 Dublin, Ireland
3. I-Form Advanced Manufacturing Research Centre, D04 C1P1 Dublin, Ireland

Deadline for manuscript submissions

closed (30 June 2020)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/18284

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)