Special Issue

Additive Manufacturing of Smart Polymers and Composites

Message from the Guest Editors

Currently, additive manufacturing is the conceptual counterpart of molding and subtractive production techniques, but it also describes a technological paradigm that is capable of subverting, at all levels, the approach to the entire life cycle of products. Polymer-based materials and, even more so, nano- and fiber-reinforced composites with smart, hybrid, and multifunctional characteristics have gained high interest due to increasingly different areas of application in medical, aerospace, and automotive sectors thanks to new shape evolutions related to 3D printing.
We encourage researchers to submit papers for inclusion in this Special Issue. The topic themes include polymer and composite AM development, polymer-based composite deposition, multi-material deposition, in situ functionalization, process optimization for smart materials and composites, advanced strategies to improve polymer or polymer composite bonding/strength, new deposition approaches, new evaluation techniques for polymers and composites produced for additive manufacturing, and polymer-based smart additively manufactured parts.

Guest Editors

Prof. Dr. Denise Bellisario
Economy Faculty, Universitas Mercatorum, 00186 Rome, Italy

Prof. Dr. Quadrini Fabrizio
Department of Industrial Engineering, University of Rome 'Tor Vergata', 00133 Rome, Italy

Deadline for manuscript submissions

closed (20 July 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/142981

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)