

## Special Issue

# The Application of Materials in Modern Manufacturing Processes: Design, Performance and Applied Research

### Message from the Guest Editors

This Special Issue, titled "The Application of Materials in Modern Manufacturing Processes: Design, Performance and Applied Research", is a collection of papers focusing on the current problems in both research and manufacturing. We invite you to publish in this Special Issue original scientific papers, announcements, and reviews. The issue will include papers written by scientists and research teams working in design, prototyping, data analysis, simulation, optimization, etc., in the following areas (among others):

- Advanced materials: metals, composites, and polymers;
- Joining technologies: welding, laser welding, mechanical joining, and hybrid adhesive-mechanical;
- Additive manufacturing;
- Production designing;
- New surfaces and coatings;
- Control of manufacturing processes;
- Automotive production;
- Industry 5.0 challenges and risks;
- Ecological aspects of mechanical engineering technologies.

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### Guest Editors

Prof. Dr. Jacek Mucha

Dr. Marta Wójcik

Dr. Lydia Sobotova

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### Deadline for manuscript submissions

20 October 2025



## Materials

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## 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.

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### Editor-in-Chief

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