Special Issue

Applied Materials and Joining Technology in Mechanical Engineering

Message from the Guest Editors

In the ever-evolving field of mechanical engineering, materials and joining technologies play a crucial role in shaping various products and systems' design, implementation, and sustainability. The main goal of our Special Issue is to collect the latest developments in the field of advanced materials and joining technologies, including their applications in mechanical engineering. It was proposed that such a general title would cover a wide range of materials and technologies for producing structural elements, both conventional (casting, forming, milling, and turning) and innovative (hybrid and additive manufacturing), as well as various joining technologies (welding, friction welding, explosive joining). Innovative research results focused on different materials and joining technologies will be of interest to all important industries, such as heavy industry and the automotive, aviation, and aerospace industries.

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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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