Special Issue

Innovation in Joining and Welding Processes

Message from the Guest Editors

Increasing endeavor for the effective and green use of energy has led to the development of new materials and processing technologies. When designing elements that fit the characteristics of these materials, the use of hybrid components consisting of dissimilar materials cannot be disregarded. Joining processes have therefore necessarily had to evolve and innovate for the production of multi-material joints. Despite these already being utilized in widespread research activities, gaps of information still exist and future trends need to be highlighted to provide indications for the application of these technologies in various industrial fields. The scope of this Special Issue focuses on innovation in the field of joining and welding processes of materials but are not limited to: innovative welding processes; development of adhesive bonding processes, concerning all manufacturing phases; original applications of traditional joining technologies; hybrid joining techniques; forward-looking use of joining technologies on dissimilar joints. We would like to invite you to submit original research articles and reviews related to any of the topics mentioned above.

Guest Editors

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Prof. Dr. Massimiliano Avalle

Prof. Enrico Lertora

Deadline for manuscript submissions

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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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