Special Issue

Alloy and Metal Surface Modification: Friction Welding and Machining

Message from the Guest Editor

In the last decade, there has been tremendous interest towards metal surface modification because of the enhancement of tensile strength, resistance to wear and corrosion, and potentially lucrative properties such as biocompatibility for diverse industrial applications. The increasing need to change the surface properties of the entire component or some areas to meet design and functional requirements is driving the development of surface engineering. This is widely recognized as an area of great importance to materials and mechanical engineers. Advancements in the addition of reinforcement to manufacture new nanostructured metal matrix composites provide great possibilities of breakthrough overcoming traditional challenges. Owing to this need, this Special Issue deals with friction- and machining-based breakthrough technologies that have promising applications and huge cost benefits.

Guest Editor

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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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