Special Issue

Finishing Operations to Enhance Surface Integrity of Parts

Message from the Guest Editors

Surface integrity management is remarkably important when metal alloys are used to manufacture relevant parts. Advanced materials such as titanium, nickel alloys, non-ferrous alloys, or special steels make surface integrity preservation after machining particularly difficult. Consequently, thorough finishing techniques are required to rectify the surface integrity.

In this context, processes like burnishing, honing, plateau-honing, grinding, and shot peening can contribute to improving the described surfaces in terms of texture, residual stress, and hardness, as well as for being easily maneuverable from a procedural point of view. This Special Issue is proposed to collect the research results about these kinds of finishing processes, which are very important to the transportation industry.

It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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Deadline for manuscript submissions

closed (20 November 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/50690

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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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