

Special Issue

Latest Research on Advanced Material Surface Treatment Processing

Message from the Guest Editors

Advanced material surface treatment processing is a procedure that aims to modify the material surface properties of a component by forming a functional surface layer. It has the significant advantages of saving expenditure on energy and core materials and being eco-friendly. Advanced technologies based on modern physics, chemistry, and mechanics are applied to achieve special surface requirements, e.g., surface quenching, shot peening, nitriding, vapour deposition, thermal spray, etc. The aim of this Special Issue is to present recent research and development in the field of advanced material surface treatment processing through research and review papers. This issue will include, but will not be limited to, the following topics:

- Advanced methods for material surface treatment processing with regard to obtaining desired surface functions, including:
 - (a) Surface modifications;
 - (b) Surface alloying;
 - (c) Coating technology.
- Characterization, modelling and performance of treated surfaces.
- Applications of advanced material surface treatment processing in industry.

Guest Editors

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Deadline for manuscript submissions

closed (25 May 2024)



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Editor-in-Chief

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