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Cavitation Erosion, Abrasive and Sliding Wear Behaviour of Metal-Based Structures

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

This Special Issue is focused on the studies related to cavitation erosion, abrasive or sliding resistance, and wear mechanisms of metal-based structures: metal alloys, sinters, hardfacings, thermally sprayed deposits, thin films, composites, and additive manufactured metal structures, and many more. Papers focused on wear improvement via microstructural properties modification, surface layer treatment, and the deposition of wear-resistant coatings onto a metal-based substrate are encouraged. The scientific papers contained in this Special Issue will provide new knowledge in the fields of materials science and mechanical engineering. The content of this Special Issue is addressed to a broad group of scientists and engineers systematically working in the field of wear prevention of machine parts and components manufactured with metallic materials.

This Special Issue is open for submissions, and welcomes original research contributions and review articles highlighting recent advances and future directions in the fields of cavitation erosion, and abrasive and sliding wear behavior of metal-based structures.

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Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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