



materials



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Tribology and Computational Mechanics for Materials

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Message from the Guest Editor

This Special Issue is devoted to advances in Tribology and Computational Mechanics of Materials. Tribology as a branch of science has received great attention from the materials community due to its interdisciplinary approach to control friction and wear in technical systems and its ability to enhance system performance and efficiency through the suitable monitoring of the superior mechanical and tribological properties of materials, from the monitoring of surface roughness and characteristics to the contact analysis of materials to yield better system performance. Friction and wear can be controlled through suitable surface engineering principles and lubrication approaches. The mechanics of materials, on the other hand, is not the only scientific discipline that governs the characteristics of engineering structures. It is often necessary to consider the interaction of several scientific fields such as chemistry, heat conduction and mechanics with the help of a multi-physics approach. With the advent and proliferation of digital computers, the branch of computation mechanics has evolved and has great impact on our understanding of the behaviours of materials and structures.



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Special issue



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Message from the Editor-in-Chief

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