

Special Issue

Ultra-Precision Machining Technology and Applications

Message from the Guest Editors

This Special Issue aims to showcase the latest advancements in the field of ultra-precision machining technology and its applications. As an interdisciplinary field, ultra-precision machining is essential for the fabrication of advanced devices, components, and structures with high precision. The growing demand for ultra-precise components in industries such as optoelectronics, aerospace, optics, and biomedical engineering has driven the need for innovative solutions to meet stringent surface quality requirements. This issue welcomes original research articles and comprehensive review papers that explore various facets of ultra-precision machining, including but not limited to novel mechanisms of material removal, scientific advancements in machining processes, surface topography measurement techniques, and new modeling and experimental approaches to improve machining accuracy. We also welcome contributions on emerging trends, such as the development of new machining methods, precision measurement techniques, and applications in advanced manufacturing. We encourage researchers from various disciplines to contribute their findings to push the boundaries of this critical field.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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