Special Issue

Laser-Based Micro/Nano Manufacturing Technology

Message from the Guest Editor

Since the birth of the laser, laser-based micro/nanofabrication technologies have attracted widespread attention. Apart from their wide applications in the industry as cutting and drilling tools through thermal melting, our understanding of light-matter interactions has also revealed significant new phenomena. By utilizing such new mechanisms, laser-based technologies have been extensively studied and found application in the fields of life science, material science, metasurfaces science, micro/nano-optics, micromechanics, and so on.

Nevertheless, these technologies still present significant challenges, for which the theoretical understanding of the near-field interaction between light and matter and experimental research on laser fabrications are key. This Special Issue thus aims to highlight and summarize the latest advancements in both the theoretical and experimental understanding of laser-based technologies for micro/nanofabrication. Moreover, papers detailing their application in various scientific fields, such as superhydrophobicity/oleophobic, antireflection, antibacterial, dynamic/geometric phase optical elements, lab on chips, quantum chips, etc., are welcomed.

Guest Editor

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Deadline for manuscript submissions

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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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