



Advances in Laser-Aided Processing of New Materials

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Message from the Guest Editors

Laser-based technologies for material processing are now established in a wide range of applications. Many conventional and novel production processes are improved, complemented, or even made possible by the use of laser technology, e.g., structuring, polishing, joining or additive manufacturing. At the same time, we can observe how the further development of ever more performant and environmentally friendly materials down to the nanoscale is essential for the extension of product lifetimes, a responsible use of resources, and technological progress. Processes and materials are highly interdependent in their application-oriented development.

Therefore, this Special Issue is dedicated to original research and recent advances in the combined field of laser material processing and material development. The focus will be on modern methods and technologies to utilize laser radiation for material processing, on detailed investigations of photon interactions with novel alloys and compounds, and on resulting achievements in material properties.





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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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