Special Issue

Latest Advances in Laser-Based Manufacturing Technologies

Message from the Guest Editor

Laser material processing is increasingly used in industry due to multiple advantages in supporting or replacing conventional processing technologies. Modern equipment and simulation methods help to increase our understanding of laser beam processes, which is highly desired to guarantee high-quality production and products. The Special Issue of Applied Sciences on “Latest Advances in laser-based Manufacturing Technologies” welcomes all kinds of novel articles that help to explain the complex phenomena occurring during laser–material interaction and material behavior. Addressed topics are (but are not limited to):

- Fundamentals of laser–material interaction;
- Process design;
- Spatial and temporal beam shaping;
- Process monitoring and control;
- Experimental observation of process dynamics and defect formation;
- Material properties;
- Process simulations;
- Quality assurance.

Guest Editor

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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.

Editor-in-Chief

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