Special Issue

Developments in Laser Processing of Thin Films

Message from the Guest Editors

Laser material processing has a major role in various engineering research and manufacturing industries. This is due to the application of laser energy to modify the properties or the shape of a material.Laser processing of thin films is a novel and rapidly expanding field with potential application in various industries, such as electronic products. Therefore, a lot of publications report the effect of laser processes, including welding, deposition, and treatment, on the properties and the microstructure of the films. Potential topics for this Special Issue include, but are not limited to, the following:

- Recent developments in laser processing (welding, deposition) of thin films;
- Novel approaches and technologies using the laser process to improve quality and efficiency;
- Theoretical and experimental research, knowledge and new ideas in thin-film processes using a laser source;
- Mathematical modeling or numerical simulation to predict the optimal operational parameters for laser processing of thin films;
- The latest development of test methods, including mechanical and microstructural analysis of laser-fabricated or -treated thin materials.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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