Special Issue

Thin Film Laser Damage, Ablation, Deposition and Structuring

Message from the Guest Editor

This Special Issue seeks to promote research from all aspects of thin-film connections to laser irradiation, including basic, applied, and engineering investigations. This Issue will publish papers in the cutting-edge advances of thin-film interaction, modification, and deposition by the laser beam. The works related to topics of thin-film texturing induced by lasers, including interference ablation, self-organization, and micro-/nano-structuring, are welcome for submission. The scientific insights of multilayer thin-film solar cell laser will also be published. Optical coating damage resistance to laser irradiation is one of the key scopes. Advances in thin-film pulsed laser deposition will also be accepted. Papers related to bio-inspired functional surface creation by the laser ablation of metal, semiconductor, and dielectric layers on various substrates are invited. Potential topics include, but are not limited to, the following:

- Laser interference ablation of thin films;
- Laser-induced nano-structuring of layers;
- Advances in laser-induced forward transfer;
- Pulsed laser deposition of thin films;
- Laser-induced damage threshold of optical coatings.

Guest Editor

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closed (30 June 2021)

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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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