Special Issue

Laser Processing Effects on Special Steels and High Entropy Alloys

Message from the Guest Editors

To optimize the laser processing parameters, a simulation program can be performed that allows reducing the number of experiments and focusing on the optimal solution. The topics of interest for this Special Issue include:

- Effects of laser processing on new, high-temperature-resistant alloys, including high entropy alloys;
- Methods for obtaining thin ceramic or metal–ceramic layers on various metallic substrates;
- Characterization of composite materials (laser treated, ceramic or metal-ceramic layers)—nano, micro, and macro friction and wear characterization, microstructure, microhardness, tensile strength, elastic modulus, etc.;
- Characterization of coatings under various operating conditions;
- Corrosion resistance of base material and laser treatment/cladded coatings;
- Any other aspects of refractory coatings.

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closed (30 June 2023)

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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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