



Laser Processing Effects on Special Steels and High Entropy Alloys

Guest Editors:

Prof. Dr. Ionelia Voiculescu

Faculty of Industrial Engineering
and Robotics, Politehnica
University of Bucharest, 313
Splaiul Independentei, 060042
Bucharest, Romania

Dr. Julia Claudia Mirza-Rosca

Nanomaterials and Corrosion
Group, Mechanical Engineering
Department, University of Las
Palmas de Gran Canaria, Campus
Universitario Tafira, Edificio
Ingenieria, 35017 Las Palmas de
Gran Canaria, Spain

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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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Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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