Special Issue

Friction and Laser-Based Welding, Processing, and Applications

Message from the Guest Editors

Research and developments in “Friction and Laser-Based Welding, Processing, and Applications” are attracting attention in the field of the manufacturing industries and scientific communities. Technological processing advancements, microstructure analysis, mechanical properties of processed regions, simulation and modeling, and state-of-the-art literature studies are invited to be considered for this Special Issue. In particular, the topic of interest includes but is not limited to:

- Friction stir welding and processing
- Friction stir spot welding
- Friction stir additive manufacturing
- Friction stir scribe welding
- Friction stir extrusion
- Friction stir channeling
- Linear and rotary friction welding
- Laser welding and processing
- Hybrid laser beam welding
- Selective laser sintering and melting (laser based additive manufacturing)
- Laser based directed energy deposition
- Laser engraving and cutting
- Applications of friction and laser-based welding and processing
- Environmental impacts in friction and laser-based welding and processing

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Deadline for manuscript submissions

closed (31 December 2023)

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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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