Special Issue

Laser Surface Modification: Advances and Applications

Message from the Guest Editor

Laser surface modification has emerged as a transformative technology in modern manufacturing and materials processing. This Special Issue invites high-quality original research articles and comprehensive review papers focusing on recent developments, novel methodologies, and industrial applications in laser surface modification. Topics of interest include but are not limited to the following:

- Laser-induced surface texturing for functional enhancements;
- Innovations in laser cladding and alloying;
- Advanced characterization techniques for modified surfaces;
- Theoretical and computational modeling in laser–material interactions;
- Applications in additive manufacturing and repair processes;
- Environmental and sustainability aspects of laser-based technologies.

We encourage contributions that bridge the gap between academic research and industrial practice. Join us in exploring the future of laser surface modification technologies.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (*JMMP*)(ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP.*

Editor-in-Chief

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