Special Issue

Laser Surface Processing: From Fundamentals to Applications

Message from the Guest Editor

In today's evolving manufacturing landscape, achieving precise and reliable control over material properties is a top priority. Laser surface processing, an advanced class of techniques that harnesses high-intensity laser beams, has emerged as a powerful solution to meet this need. By focusing laser energy onto the surface of a material, engineers can induce rapid heating, melting, or even vaporization—leading to controlled changes in a material's microstructure and properties. Whether strengthening steel components or creating micro-textures for biomedical implants, laser surface processing is driving innovation across many industries.

Guest Editor

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