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Research on Laser Welding and Laser Additive Manufacturing

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Message from the Guest Editors

With the progress of laser technology in recent decades, manufacturing in aerospace, biomedical, electronics, and other fields depends more on laser welding and laser additive manufacturing.

More and more new materials, manufacturing processes, and post treatments are being applied to change the microstructure of joints and additive manufacturing constructions, thereby improving mechanical properties and enabling formed components to be applied in harsher working environments. For example, using laser shock peening to eliminate residual tensile stress on the surface of additive manufacturing turbine blades; laser welding assembly technology for additive manufacturing components; laser additive manufacturing and welding of shape memory alloys, etc. These studies are of great significance for the development of laser processing technology.



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Special Issue



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Message from the Editor-in-Chief

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