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It details laser surface modification techniques for a wide range of industrially relevant materials (plastics, metals, ceramics, composites) with the aim to improve and enhance their adhesion to other materials. The joining of different materials is of critical importance in the fabrication of many and varied products.

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For laser surface modification of metallic materials, mechanical interlocking has been identified as the dominant mechanism to enhance adhesion. Whereas for laser surface modification of polymeric...

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Laser surface modification technology includes laser transformation hardening, laser solution strengthening, laser remelting strengthening, laser shock peening (LSP), laser glazing, laser surface alloying, laser cladding and composite strengthening combined with other surface treatments (such as spraying or electroless plating) [6]. The three basic techniques (laser solution strengthening, laser surface alloying and laser cladding) have a close relationship with corrosion and erosion ...

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Abstract. Enhancement of the surface wettability and surface free energy of thermoplastic materials is an effective way of improving their adhesion and consequently the adhesive joint strength. A nanosecond pulsed Nd:YAG laser was selected in this work to provide energetic treatment of PEEK surfaces, in order to investigate its effectiveness in increasing the performance of lap shear adhesive joints.

Laser surface modification of poly(etheretherketone) to ...

Recently, it has been demonstrated that laser surface modification enable to enhance the adhesion of subsequent coating layers , , which suggests the potential of decomposing the precursor films and modifying the ceramic surfaces by laser modification simultaneously. Thus, it underlines the necessity of basic researches such as studying the effects of processing parameters on adhesion and the optimization of processing parameters.

High-adhesion Cu patterns fabricated by nanosecond laser ...

Excimer lasers have been employed to modify the surfaces of a range of polymers to enhance adhesion. Considerable increases in joint strength were achieved as a result of laser treatment. Many lap shear joints, exposed to hot/wet environments, provided high retention of joint strength and durability.

Polymer Laser Surface Modification to Enhance Adhesion Pt ...

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Front Matter - Laser Surface Modification and Adhesion ...

Objectives To assess the effects of laser surface modification for: Alteration of the surface energy of PEEK for medical implants and microfluidic devices. Improvement of adhesion between PP and itself and PU in particular for insulated oil and gas pipelines, when compared to untreated surfaces.

PEEK/PP Laser Surface Modification for Adhesion ...

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4 Laser Surface Modification and Adhesion. failure changed from interfacial to cohesive as the optimal parameters were used. Th is change in failure mode is correlated with changes in morphology ...

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