

Laser Surface Modification And Adhesion Adhesion And Adhesives Fundamental And Applied Aspects

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Laser Surface Modification And Adhesion

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.

Laser Surface Modification and Adhesion | Wiley Online Books

The book provides a unique overview on laser techniques and applications for the purpose of improving adhesion by altering surface chemistry and topography/morphology of the substrate. 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.

Laser Surface Modification and Adhesion | Wiley

Laser Surface Modification and Adhesion (Adhesion and Adhesives: Fundamental and Applied Aspects) 1st Edition by K. L. Mittal (Author), Thomas Bahners (Author)

Amazon.com: Laser Surface Modification and Adhesion ...

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Laser Surface Modification and Adhesion | Adhesives ...

The IFSS results indicate that laser treatment improves the adhesion strength of UHSPE fibers with epoxy resin because of the changes in surface chemistry and enhanced roughness.

Laser Surface Modification and Adhesion

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...

Laser Surface Modification for Adhesion Enhancement ...

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.

Scrivener Publishing: Laser Surface Modification and Adhesion

It summarizes the result of laser surface modification of NiTi with Mo using a CO 2 laser into three sections. The microstructure, chemical composition, surface morphology, hardness, corrosion resistance, nickel release rate, wettability, bone-like apatite formation and cell adhesion behavior of the surface alloyed layer were analyzed using scanning electron microscopy (SEM), energy dispersive analysis by X-rays (EDAX), X-ray diffractometry (XRD), Vicker's microhardness, polarization tests ...

Laser Surface Modification - an overview | ScienceDirect ...

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 ...

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Laser Surface Modification of Poly(etheretherketone) to ...

Basic Mechanisms of Laser Surface Modification. Laser Induced Surface Modification of Metal Substrates to Enhance Adhesion. Laser Induced Surface Modification of Polymers and Composites to Enhance Their Adhesion. Summary.

Laser Surface Modification for Adhesion Enhancement ...

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.

Laser Surface Modification and Adhesion eBook por K. L. ...

The topics covered include:Topographical modification of polymers and metals by laser ablation to create superhydrophobic surfaces.Non-ablative laser surface modification.Laser surface modification to enhance adhesion.Laser surface engineering of materials to modulate their wetting behaviorLaser surface modification in dentistry.Laser polymer welding.Laser based adhesion testing technique to measure thin film-substrate interface toughness.Laser surface removal of hard thin ceramic coatings ...

Laser Technology: Applications in Adhesion and Related ...

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...

Laser Surface Modification and Adhesion by K. L. Mittal ...

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. show more

Laser Surface Modification and Adhesion : K. L. Mittal ...

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 ...

Laser-surface modification on UHMWPE has been successfully demonstrated by means of fs, ps, and ns laser sources. Laser treatments produces the increment of the roughness and wettability (see Table 3). Pulsed Yb:XYW fs laser ($\lambda = 1,027$ nm, and pulse duration = 450 fs) was used to create size-controlled craters on UHMWPE surfaces.

Frontiers | Laser Surface Texturing of Polymers for ...

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.

Laser surface modification and adhesion (Book, 2015 ...

Laser modification creates a surface phenomenon that physically and chemically alters the natural biopolymer organization of lignocellulosic materials in a way that promotes adhesion when hot pressed using typical industrial equipment. Laser optimization was determined through mechanical and microscopic observation.