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Laser Institute of America	Journal of Laser Applications	2012	24	4	42012
Laser Institute of America	Journal of Laser Applications	2012	24	4	42013
Laser Institute of America	Journal of Laser Applications	2012	24	4	42014
Laser Institute of America	Journal of Laser Applications	2012	24	4	42015
Laser Institute of America	Journal of Laser Applications	2012	24	4	42016
Laser Institute of America	Journal of Laser Applications	2012	24	4	42017
Laser Institute of America	Journal of Laser Applications	2012	24	5	50101
Laser Institute of America	Journal of Laser Applications	2012	24	5	52001
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Laser Institute of America	Journal of Laser Applications	2012	24	5	52007

Title

Fabrication of microtransmittance grating using laser induced backside dry etching  
Laser texturization to improve absorption and weld penetration of aluminum alloys  
Surgical treatment of squamous cell carcinoma of tongue with carbon dioxide laser radiation (CO2)  
Silicon(IV) phthalocyanine-loaded-nanoparticles for application in photodynamic process  
Hazard class downscaling of a class 4 retina safe laser  
Possible explanations for different surface quality in laser cutting with 1 and 10  $\mu\text{m}$  beams  
Ultra-high speed disk laser cutting of carbon fiber reinforced plastics  
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Synthesis of nitrogen-doped diamond films using vibrational excitation of ammonia molecules in laser-assisted combustion flame  
Laser dressing of metal bonded diamond blades for cutting of hard brittle materials  
Laser ablation of polyetheretherketone films for reversible wafer bonding  
Weld strength of laser-welded hot-press-forming steel  
Laser induced backside wet and dry etching of solar glass by short pulse ytterbium fiber laser irradiation  
Temperature measurement of laser heated metals in highly oxidizing environment using 2D single-band and spectral pyrometry  
Energetic efficiency of remote cutting in comparison to conventional fusion cutting  
Stability limits of laser drilled hole arrays on large areas  
Optimization of the aluminum oxide properties for adhesive bonding by laser surface pretreatment  
Laser cladding with scanning optics: Effect of power adjustment  
Laser cladding for railway repair and preventative maintenance  
Contributing factors to fires in clinical settings during medical laser applications  
Quality detection and control during laser cutting progress with coaxial visual monitoring  
Trepanning drilling of microholes on cemented tungsten carbide using femtosecond laser pulses  
2D longitudinal modeling of heat transfer and fluid flow during multilayered direct laser metal deposition process  
Investigation of the effects of basic laser material interaction parameters in laser welding  
Laser hole sealing of commercially pure grade 1 titanium

EDITORIAL

Femtosecond laser welded nanostructures and plasmonic devices  
Morphology of nanoscale structures on fused silica surfaces from interaction with temporally tailored femtosecond pulses  
Optical trap assisted laser nanostructuring in the near-field of microparticles  
Development of functional sub-100 nm structures with 3D two-photon polymerization technique and optical methods for characterization  
3D-steering and superfocusing of second-harmonic radiation through plasmonic nano antenna arrays  
Femtosecond laser-induced periodic surface structures  
Laser-assisted nanofabrication of carbon nanostructures  
Nanogratings in fused silica: Formation, control, and applications  
Sub-100 nm material processing and imaging with a sub-15 femtosecond laser scanning microscope  
In-process measuring procedure for sub-100 nm structures  
Direct laser writing-mediated generation of standardized topographies for dental implant surface optimization

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Synthesis of hybrid microgels by coupling of laser ablation and polymerization in aqueous medium

Nano structures via laser interference patterning for guided cell growth of neuronal cells

Materials and technologies for fabrication of three-dimensional microstructures with sub-100 nm feature sizes by two-photon p

Structural study of near-field ablation close to plasmon-resonant nanotriangles

Cellular reactions toward nanostructured silicon surfaces created by laser ablation

Experimental and theoretical investigation on fs-laser-induced nanostructure formation on thin gold films

Quo vadis, laser additive manufacturing?

The numerical analysis and measurements of temperature profile in fat tissue during neodymium-doped yttrium aluminum garnet

Development of new processes for welding of thermal Al–Cu solar absorbers using diode lasers

Laser cladding using scanning optics

Technical safety measures for the safe use of hand-held laser processing devices

Flexible and efficient laser remote welding of ultra-thin metal foils

A comparative study of cut front profiles and absorptivity behavior for disk and CO<sub>2</sub> laser beam inert gas fusion cutting

Laser metal deposition of Inconel 625: Microstructure and mechanical properties

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