Femtosecond laser

??,??????????????????????????????,??????? "Femtosecond Laser Breaks the Lattice Symmetry and Induces Broadband Second Harmonic ...

In this work, perovskite CsPbBr3 nanocrystals (NCs) were grown using a femtosecond laser (fs) in a transparent fluorophosphate (FP) glass matrix without damage to the material. TEM images ...

In this study, a facile and mask-free femtosecond laser direct writing (FLDW) approach is proposed to fabricate porous graphene (FLIG) patterns directly on polyimide (PI) substrates. ...

Femtosecond laser 3D micromachining enables the fabrication of spiral microfluidic devices in polymethylmethacrylate with a trapezoidal cross-section. The process relies on scanning ...

We present a femtosecond (fs) laser-based method for gene delivery to corneal endothelial cells (CECs) via transcorneal irradiation of gold nanoparticles (AuNPs). Upon irradiation, the ...

A femtosecond laser is a specialized infrared laser that emits ultra-short pulses of light, each lasting only a quadrillionth of a second (a femtosecond). Its unique property is its ability to ...

Kerato-refractive lenticule extraction (KLEx) is an evolving technique in corneal refractive surgery. The objective of this narrative review is to compare laser settings, visual outcomes, and higher ...

Ultrafast vortex lasers, capable of emitting structured femtosecond pulses with orbital angular momentum, hold great potential for high-speed optical communications, super-resolution ...

The femtosecond laser was focused at the interface between solution and glass substrate again. With the moving of the laser beam, Ag micro/nanostructures at the tracks were erased by laser ...

The femtosecond laser has digitally controlled burst mode, sub-500 fs pulse durations, and true TEM 00 beam quality (M ² <1.3) for peak performance in high-throughput micromachining, ...

Meanwhile, internationally accredited clinics abroad often offer state-of-the-art laser technology, including femtosecond lasers and wavefront-guided systems, at prices ranging from $1,000 to ...

??????"Femtosecond laser-assisted printing of hard magnetic microrobots for swimming upstream in subcentimeter-per-second blood flow"??,????Science Advances?????

?? Corneal endothelial cell loss and corneal thickness in conventional compared with femtosecond

laser-assisted cataract surgery: Three-month follow-up ??????????? ...

Bioinspired femtosecond laser surface texturing for enhancing tribological properties of Ti6Al4V titanium alloy This study investigates bioinspired femtosecond laser surface texturing (FsLST) ...

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