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Laser-Assisted Fabrication of Pseudo-hexagonal Phase ...

Laser-Assisted Fabrication of Pseudo-hexagonal Phase Niobium Pentoxide Nanopillars for Lithium Ion Battery Anodes Dewei Liang,*[a] Lei Hu,[a] Lili Wang,[a] Lingli Liu,[a] Sheng Liang,[a] Lei Yang,[a] Ningning Zhou,[a] and Changhao Liang*[b] Abstract: Herein, we report a convenient route to fabricate pseudo-hexagonal phase niobium pentoxide (TT-Nb

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Recently, laser-assisted biofabrication techniques are being intensively developed with the use of computer-aided processes for patterning and assembling both living and nonliving materials with prescribed 2D or 3D organization In this review, we discuss laser-assisted fabrication methods, including laser tweezers,

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Laser-Induced Carbonization of Natural Organic Precursors ...

of organic materials like polymers or plastics by evaporating material from their surface[9] Directed 2D-film patterning by laser-induced material conversion evolved in the past years as a new synthetic fabrication method[10] In particular, the uncomplicated access to laser-assisted patterning of ...

Laser processing of polymer thin films for chemical sensor ...

Both processes have been successfully used in the fabrication of thin films and structures of a range of organic materials and systems Examples of their use in the fabrication of two types of chemical sensors, together with a comparison of the performance of these laser-processed sensors and that of similar sensors made by

Applications of excimer laser in nanofabrication

excimer laser (308 nm wavelength, 20 ns pulse duration) in nanofabrication Specifically, laser assisted nanoimprint lithography (LAN), self-perfection by liquefaction (SPEL), fabrication of metal nanoparticle arrays, and the fabrication of sub-10-nm nanofluidic channels are covered In LAN, a polymeric resist is melted by the laser pulse

Powder Feeder Redesign for Laser-Assisted Cold Spray

Mar 08, 2016 · 222 Addition of the Laser Laser-Assisted Cold Spray (LACS) is a coating fabrication process that combines the supersonic powder stream found in cold spray with laser heating of the deposition zone [1] the addition of T a laser allows nitrogen to be used as the process gas in some applications where helium was

Applications of Laser Assisted Metal Rapid Tooling Process ...

Sep 13, 2011 · of laser assisted metal rapid tooling process to the fabrication of functionally graded materials and product recycling Table 1 Characteristics of representative laser assisted metal rapid tooling processes3-5,7-14 Type Process/ Company Laser Beam delivery Device of powder feeding Thickness of layer (mm) Switching of material Characteristics

Flexible Capacitive Pressure Sensors and Triboelectric ...

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