

Micropatterning of InP by laser bry-etching.

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-Micropatterning of InP by laser bry-etching.

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Employing linearly polarized light with an appropriate choice of experimental parameters based on the afore mentioned studies , gratings were patterned by laser-induced coherent modulation of the beam at the semiconductor surface. Keywords: biomaterials; fibrinogen; hydrogels; micropatterning; nerve guidance conduit; nerve regeneration. We have also, for the first time, combined diffraction with LADEA to develop regular shaped features on semiconductor surfaces.

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A photo-patterning technique was further applied to these 3D hydrogel biomaterials, in the form of laser-ablated microchannels, to provide contact guidance for unidirectional growth following sciatic nerve injury. Laser-assisted etching for micropatterning of InP.

Hydrogel composition and laser micropatterning to regulate sciatic nerve regeneration

In this research, we explored the use of an advanced design strategy for peripheral nerve repair, using biological and semi-synthetic hydrogels that enable controlled environmental stimuli to regenerate neurons and glial cells in a rat sciatic nerve resection model.

Laser

Proceedings of SPIE, 2403 1 , 414-424. .

Laser

Among the factors tested were shear modulus, biological composition, and micropatterning of the materials.

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