Diode-Induced Laser

High-power narrow-linewidth 969nm diode laser pump source for kW class disk laser Xiaohua Chen, Yongzhen Yan, Dongbing He, et al. Show abstract

In this study, to investigate temporal changes in ion-velocity distributions, we developed a time-resolved laser-induced fluorescence ...

Diode lasers coupled to internal optical systems that improve beam shape and stability are now able to rival helium-neon lasers in many fluorescence microscopy applications. This interactive tutorial ...

A laser diode (or diode laser) is a semiconductor device that undergoes stimulating emission to emit coherent light. Laser diodes offer high power for their size and produce electrical ...

Laser-induced graphene (LIG) has emerged as a promising route for scalable graphene fabrication; however, most reported studies rely on infrared laser sources, limiting the accessibility ...

Laser diodes form a subset of the larger classification of semiconductor p - n junction diodes. Forward electrical bias across the laser diode causes the two species of charge carrier - holes and electrons ...

By taking advantage of the high precision of this laser processing, we achieved the in-situ synthesis of Fe3O4, Ag-Fe3O4, and Cu-Fe3O4 nanostructures on laser-induced graphene (LIG), ...

In this study, to investigate temporal changes in ion-velocity distributions, we developed a time-resolved laser-induced fluorescence spectroscopy (LIF) system using a continuous-wave ...

A new integration approach, nano-ridge engineering, enables electrically driven GaAs-based laser diodes to be fabricated on Si wafers in a complementary metal-oxide-semiconductor ...

Here, we demonstrate that large direct-current-driven external-cavity laser arrays, subject only to optical feedback and engineered frequency heterogeneity, can exhibit robust, coherent multi ...

The subject of this paper is the assembly of a relatively low-cost diode laser fluorimeter and its use in the teaching labo-ratory to measure the concentration of a dye dissolved in methanol.

A new integration approach, nano-ridge engineering, enables electrically driven GaAs-based laser diodes to be fabricated on Si wafers in a ...

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