

Characterization of semiconductor materials

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Materials Science and Engineering: Semiconductors

Due to the relatively large size of the focused IR beam about 80 μm in diameter, see inset an illumination of the tip shaft and sample cannot be completely avoided, leading to a strong background contribution. Since reading it I find myself referencing it multiple times a day. Common optical material in infrared optics.

List of semiconductor materials

Doped n with Te, p with Zn. Can be lattice matched to InP substrates. For this purpose the near-field probe is irradiated by a focused photon beam

Electrical Characterization of Semiconductor Materials and Devices

II-VI 3 HgZnTe 0 2.

Semiconductor characterization techniques

This is also illustrated in showing the spectral change during the line scan. Can be doped with nitrogen. For the experiments Au-coated silicon-based AFM cantilevers with a resonance frequency between 76 and 263 kHz were used.

OSA

Results and discussion Since near-field microscopy is typically performed with monochromatic light sources, we first validate nanoscale focusing of ultra-broadband IR synchrotron radiation by performing high-resolution near-field imaging on a semiconductor sample. These exogenous atoms impart electrical conductivity to the whole crystal. The focused IR beam has a diameter of about 80 μm inset with an optical microscopy image.

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