

Methods (sample content, edit to match your experiments):

Photoluminescence (PL) spectra were measured using an Edinburgh FLS1000 luminescence spectrometer. The excitation source was a continuous-wave 450 W Xenon arc lamp. A PMT-980 detector was used to detect PL.

Photoluminescence excitation (PLE) spectra were collected on an Edinburgh Instruments FLS1000 luminescence spectrometer using a 450 W Xenon arc lamp for excitation and an InP/InGaAs NIR-PMT (Hamamatsu Photonics H12397A-75) for detection.

Time-resolved PL (TRPL) data were measured using an Edinburgh FLS1000 luminescence spectrometer. A pulsed 60 W μ F2 microsecond flashlamp was used for sample photoexcitation, and PL signal was detected using PMT-980 and PMT-1700-TE detectors.

Excitation sources:

450 W Xenon arc lamp

60 W μ F2 microsecond flashlamp

405 nm picosecond pulsed diode laser (Edinburgh Instruments EPL-405)

Detectors:

Vis PMT: PMT-980

NIR PMT: InP/InGaAs NIR-PMT (Hamamatsu Photonics H12397A-75)

MIR PMT: PMT-1700-TE

Acknowledgment (something similar to this):

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