

Direct broadband infrared generation from 12 to 35 THz with a Kerr-lens modelocked Cr:ZnS oscillator

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We generate mid-infrared ranging from 12 to 35 THz (9 - 25 μm) via IDFG. Theradiation is directly generated in GaSe by the pulses of an in-house developed KLM Cr:ZnS oscillator. The spectral coverage towards 30 μm is in reach, which is of interest for ultrafast spectroscopy of solids.

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