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Coherent mid-IR sources also offer important technologies for atmospheric chemistry, free-space communication, imaging, rapid detection of explosives, chemical and biological agents, nuclear material and narcotics, as well as applications in air- and sea-born safety and security, amongst many. The timely advancement of coherent mid-IR sources is, therefore, vital to future progress in many application areas across a broad range of scientific, technological, and industrial disciplines.

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Covering fundamental principles and the state of the art, this is a collection of reviews from experts in mid-infrared (mid-IR) coherent sources. Among the sources covered are optical parametric oscillators, difference frequency generators, and the most recent broadband crystalline, quantum cascade, and fiber lasers. The authors show how advances ...

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Mid-Infrared Coherent Sources and Applications; pp.557-574; Evgeni Sorokin. Application of ultrabroadband Cr<sup>2+</sup>-doped mid-infrared lasers to sensitive molecular spectroscopy in the 2–3  $\mu\text{m}$  ...

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## Mid-Infrared Photonics—The University of Nottingham

This volume represents a collection of authoritative reviews by internationally recognized experts in the field of middle infrared (mid-IR) coherent sources and their applications. The compilation describes the fundamental principles and state-of-the-art of practical solid-state sources in the mid-IR regions of the spectrum covering the 2-50  $\mu\text{m}$  range.

## Mid-Infrared Coherent Sources and Applications | Dodax.co.uk

Global Mid-infrared Lasers Market to Reach US\$1. 5 Billion by the Year 2027. Amid the COVID-19 crisis, the global market for Mid-infrared Lasers estimated at US\$799. 9 Million in the year 2020, is projected to reach a revised size of US\$1. New York, Nov. 10, 2020 (GLOBE NEWSWIRE) -- Reportlinker.com announces the release of the report "Global Mid-infrared Lasers Industry" - <https://www ...>

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Coherent sources of mid-infrared (mid-IR) radiation are of great interest for a wide range of scientific and technological applications from spectroscopy and frequency metrology to information technology, industrial process control, photochemistry, photobiology and photomedicine. The mid-IR spectrum, which may be defined as wavelengths beyond 2 ...

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Mid-Infrared Coherent Sources and Applications by Majid Ebrahim-Zadeh, Sep 05, 2008, Springer edition, paperback

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Advances in growth of the birefringent crystals ZnGeP<sub>2</sub> and CdSiP<sub>2</sub>, as well as all-epitaxial processing of orientation-patterned semiconductors GaAs (OP-GaAs) and GaP (OP-GaP), are extending solid-state laser output deep into the mid-infrared.

~~Advances in nonlinear optical crystals for mid infrared ...~~

The past decade has seen significant progress in the development of novel mid-infrared (mid-IR) coherent light sources spanning a broad spectral bandwidth, and of new spectrometric techniques to make the most of them.

~~Mid-IR Spectroscopic Sensing | Optics & Photonics News~~

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