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Mid-Infrared Coherent Sources and ...

This feature issue, based on the OSA Topical meeting on Mid-Infrared Coherent Sources (MICS), focuses on the most recent advances in mid-infrared to THz science and technology, from materials to laser sources and applications.

MID-IR COHERENT SOURCES AND ...

Mid-Infrared Coherent Sources in Proceedings OSA High-brightness Sources and Light-driven Interactions Congress 2020 (EUVXRAY, HILAS, MICS) Part of High-brightness Sources and Light-driven Interactions. 16-20 November 2020, Washington, DC, United States

Laser-based Mid-infrared Sources and Applications | ...

MT2C.1 Mid-Infrared Coherent Sources (MICS) 2018 View: PDF. Refined Sellmeier equations up to the near-infrared in the organic N-benzyl-2-methyl-4-nitroaniline (BNA) crystal. Cyril Bernerd, Patricia Segonds, Jérôme Debray, Takashi Notake, Mio Koyama, ...

[PDF] Mid Infrared Coherent Sources And Applications

Jul 12, 2020 · The book describes major approaches for mid-infrared light generation including ion-doped solid-state lasers, fiber lasers, semiconductor lasers, and laser sources based on nonlinear optical frequency conversion, and reviews a range of applications: spectral recognition of molecules and trace gas sensing, biomedical and military applications, high-field physics and attoscience, and others.

OSA | Mid-Infrared Coherent Sources 2020

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, photo-chemistry, photobiology and photomedicine. The mid-IR ...

Mid-infrared coherent sources and applications: ...

Nov 16, 2020 · 1. Materials for mid-IR and THz Sources: Active ion-doped dielectric and semiconductor crystals; Semiconductor materials and structures; Specialty nonlinear fibers; Nanomaterials; Nonlinear optical materials and structures; 2. Mid-IR and THz Coherent Sources: Semiconductor lasers; Mid-IR and THz quantum cascade lasers; Optically pumped semiconductor lasers

MID-IR COHERENT SOURCES AND APPLICATIONS

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

Mid-Infrared Coherent Sources | Meetings & ...

Laser-based Mid-infrared Sources and Applications gives a comprehensive overview of the existing methods for generating coherent light in the important yet difficult-to-reach mid-infrared region of the spectrum (2-20 μm) and their applications.

Mid-Infrared Coherent Sources and Applications (Sep ...

Mid-Infrared Coherent Sources (MICS) Focuses on the most recent advances in mid-IR to THz science and technology. This includes the latest developments in solid-state and fiber lasers, semiconductor and quantum cascade lasers, nonlinear materials, frequency conversion devices and parametric sources, high-energy and high-intensity lasers, integrated photonics for frequency combs and continuum generation, as well as the application of mid-IR ...

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Laser-based Mid-infrared Sources and Applications | ...

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-borne safety and security, amongst many. The timely advancement of coherent mid-IR sources is, therefore, vital to future progress in many application ...

Advances in Mid-Infrared Fiber Lasers | SpringerLink

Mid-infrared coherent sources and applications: introduction. Majid Ebrahim-Zadeh and Konstantin Vodopyanov. J. Opt. Soc. Am. B 33(11) MIC1-MIC1 (2016) Mid-infrared Lasers for Medical Applications: introduction to the feature issue. Fatima Toor, Stuart Jackson, Xiaoming Shang, Shamsul Arafin, and Haining Yang. Biomed.

Mid-Infrared Coherent Sources and Applications | ...

Jun 01, 2020 · Laser-based Mid-infrared Sources and Applications gives a comprehensive overview of the existing methods for generating coherent light in the important yet difficult-to-reach mid-infrared region of the spectrum (2-20 μm) and their applications.

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OSA | Mid-Infrared Coherent Sources 2018

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

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Mid-Infrared Coherent Sources and Applications. pp.315-346. M. Pollnau. Stuart Jackson. The current state of the art in mid-infrared fiber laser research is reviewed. The relevant glass and

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