

Advanced solid state lasers: feature issue introduction

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This joint issue of *Optics Express* and the *Journal of the Optical Society of America B* (JOSA B) features 61 peer-reviewed articles, many of which are contributed by authors who participated in the International Conference of Advanced Solid State Lasers, held in Osaka, Japan, from October 20 to 24, 2024. This introduction provides a concise overview of the featured articles, which highlight recent advances in laser science, ultrafast optics, and nonlinear optics. The collection covers a broad range of topics in solid-state lasers, from material development to laser source engineering, and from design of innovations to their emerging applications. Together, these contributions reflect the dynamic developments in both fundamental research and applied photonics technologies. © 2025 Optica Publishing Group. All rights, including for text and data mining (TDM), Artificial Intelligence (AI) training, and similar technologies, are reserved.

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The Advanced Solid State Lasers (ASSL) conference continues to serve as a premier international forum for the dissemination of cutting-edge research in solid-state laser materials, architectures, and source technologies. The 2024 ASSL conference, held in Osaka, Japan, from October 20 to 24, 2024, upheld this tradition by highlighting significant advances in laser performance aimed at addressing the evolving needs of both scientific and industrial applications. As in past years, materials science remains a cornerstone of the conference, reflecting the central role that gain media—crystalline, ceramic, glass, or composite—play in defining the operational boundaries of laser sources. This year's contributions span a wide range of novel gain media, including ceramics, crystals, glasses, and 2D materials, along with enabling components such as saturable absorbers (SAs), nonlinear crystals, and microresonator structures. These developments support improved power scalability, spectral agility, and ultrashort pulse generation, while also introducing new functionalities in areas like structured light and dual-comb generation. The laser sources reported encompass diverse operational regimes, from continuous-wave (CW) operation to few-optical-cycle pulse generation, with spectral coverage ranging from the visible to the mid-infrared.

The 61 peer-reviewed articles selected for the ASSL-2024 Joint Feature Issue of *Optics Express* and JOSA B reflect the breadth and depth of innovation presented at the conference. Together, these contributions span laser materials, source architectures, nonlinear optics, and structured laser beams. We extend our sincere thanks to all contributing authors for sharing their most recent works, and to the reviewers for their critical insights, which ensured the high quality of this issue. We are also grateful to the editorial team at Optica Publishing Group—especially Carmelita Washington—for their dedicated support throughout the review and production process.

Laser gain materials and nonlinear crystals are at the core of solid-state laser technology. The focus is on the characterization of new materials and providing highly accurate material properties of both new and established crystals, glasses, and ceramics which are essential for optimizing and designing future laser sources. Laser gain media engineering continues to expand the operational limits of laser sources. Studies in this issue present detailed spectroscopic characterizations. Parameters such as absorption and emission cross-sections, thermal conductivity, and excited-state lifetimes are systematically examined to support future device optimization. This collection includes several noteworthy contributions that explore new host materials,

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Camilla Rothe



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Advanced Solid State Lasers T. Y. Fan, 1994-02-01 *OSA Proceedings on Advanced Solid-state Lasers* George Dubé, Lloyd Chase, 1991 **Advanced Solid State Lasers**, 2002 Handbook of Laser Technology and Applications: Laser design and laser systems Colin E. Webb, Julian D. C. Jones, 2004 Selected Papers on Tunable Solid-state Lasers Valerii Ter-Mikirtychev, 2002 This work includes key papers from the world literature covering important discoveries and developments in optics **Lasers** Charles Blain, 2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject author and titles indexes **Advanced Solid State Lasers** Stephen A. Payne, Bruce Huai-Tzu Chai, 1996 **Advanced Solid State Lasers** Walter R. Bosenberg, Martin Michael Fejer, 1998 The Advanced Solid State Lasers topical meeting provided a forum for leading edge results in the field Advances in solid state lasers laser materials nonlinear optical materials and high power diode lasers are creating new opportunities in medicine spectroscopy remote sensing material processing and communications New wavelengths broader tuning ranges and higher efficiency and higher powered laser sources are serving an increasingly broad range of applications **New Materials for Advanced Solid State Lasers: Volume 329** T. H. Allik, A. Cassanho, B. H. T. Chai, T. Y. Fan, S. A. Payne, 1994-03-15 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Solid State Lasers Massimo Inguscio, Richard Wallenstein, 2012-12-06 This volume contains the lectures and seminars presented at the NATO Advanced Study Institute on Solid State Lasers New Developments and Applications the fifteenth course of the Europhysics School of Quantum Electronics held under the supervision of the Quantum Electronics Division of the European Physical Society The Institute was held at Elba International Physics Center Marciana Marina Elba Island Tuscany Italy August 31 September 11 1992 The Europhysics School of Quantum Electronics was started in 1970 with the aim of providing instruction for young researchers and advanced students already engaged in the area of quantum electronics or wishing to switch to this area from a different background Presently the school is under the direction of Professors F T Arcchi and M Inguscio University of Florence and Prof H Walther University of Munich and has its headquarters at the National Institute of Optics INO Florence Italy Each time the directors choose a subject of particular interest alternating fundamental topics with technological ones and ask colleagues specifically competent in a given area to take the scientific responsibility for that course Advanced Solid-state Lasers Martin E. Fermann, Larry R. Marshall, Optical Society of America, Lasers and Electro-optics Society (Institute of Electrical and Electronics Engineers), 2002 **Laser Sources and Applications** A. Miller, 2020-12-23 Recent years have witnessed rapid advances in the development of solid state fiber semiconductor and parametric sources of coherent radiation which are opening up new opportunities for laser applications Laser Sources and Applications provides a tutorial introduction to the

basic principles of these developments at a level suitable for postgraduate research students and others with a basic knowledge of lasers and nonlinear optics Encompassing both the physics and engineering aspects of the field the book covers the nature of nonlinear optical interactions solid state fiber and semiconductor lasers optical parametric oscillators and ultrashort pulse generation and applications It also explores applications of current interest such as electromagnetically induced transparency atomic trapping and soliton optical communications Novel Laser Sources and Applications Joseph Frederick Becker,1994 **OSA Proceedings on Advanced Solid-state Lasers** Albert Pinto,Tso Yee Fan,1993 *Advanced Lasers and Systems* ,2002 *Program Solicitation* ,1993 *Solid State Lasers* ,2004 **Quantum Electronics** ,1999 Quantum Electronics is the English edition of the Russian journal Kvantova Elektronika a leading journal in all aspects of laser research founded in 1971 Published research papers are on topics which include Laser Active Media Interaction of Laser Radiation with Matter Laser Plasma Non linear Optical Phenomena Quantum Electronic Devices Optical Processing of Information Laser Applications and Other Topics in Quantum Electronics Applied Optics ,1999 Advanced Devices and Materials for Laser Remote Sensing: Volume 883 Materials Research Society. Meeting,2005-08-25 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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