



applied sciences



Special Issue Reprint

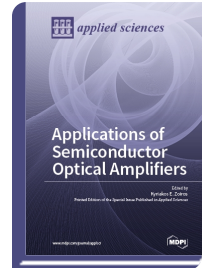
Applications of Semiconductor Optical Amplifiers

www.mdpi.com/books/reprint/777

Edited by
Kyriakos Zoiros

ISBN 978-3-03897-170-2 (Softback)

ISBN 978-3-03897-171-9 (PDF)



Semiconductor optical amplifiers (SOAs) are considered a key enabling technology for the design and implementation of photonic circuits, subsystems, and networks. Owing to the attractive features of low power consumption, compactness, broad gain bandwidth and ability for integration with affordable cost, SOAs enjoy continuous popularity as core versatile devices within the optical communications research and industrial sector for the accomplishment of critical and indispensable tasks at fundamental and system-oriented level. Given the establishment and widespread employment of SOAs as technological platform, a Special Issue on ‘Applications of Semiconductor Optical Amplifiers’ was introduced and prepared to address, present, and investigate modern applications of SOAs, as well as explore and highlight trends, challenges, and perspectives for motivating efforts toward continuous exploitation of these active modules in a feasible, innovative, and global manner. This book collates the Special Issue papers reporting on significant results obtained from the cutting-edge research conducted by experts in the field. Readers will benefit by acquiring useful knowledge and opening their scientific horizons on SOA-enabled applications, such as direct signal amplification, external modulation, all-optical signal processing, all-optical memories, photonic integrated circuits, photonic switching, optical code division multiple access systems, passive optical networks, etc.]



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/777

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.