



Advances in High-Power Diode Lasers

Guest Editor:

Dr. Martin Hempel

Department System Integration
and Interconnection
Technologies, Fraunhofer
Institute for Reliability and
Microintegration IZM, Berlin,
Germany

Deadline for manuscript
submissions:
closed (31 March 2022)

Message from the Guest Editor

We are pleased to announce this Special Issue of the MDPI journal “Advances in High-Power Diode Lasers”. Generating high-power laser light has developed as a versatile tool for research and industry, and has reached even the consumer market. However, demand is still growing for higher power, specific wavelengths, higher efficiency and elevated beam quality.

Due to their high conversion efficiency and compactness, diode lasers are suitable for a wide range of applications. They are the main source of laser light, either for direct use or as pump sources for other systems. Therefore, research into laser materials, epitaxial growth, active region geometry, heat sink and interconnection technology, electronic control and power sources, optical interconnects, and applications of the laser light are of high interest. This Special Issue is dedicated to combining the expertise in this field and offering a picture of the state-of-the-art research.

Keywords

- Defect mechanisms
- GaN-based, GaAs-based
- Catastrophic optical damage
- Frequency tuning





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://x.com/electronicsMDPI)