



sensors



an Open Access Journal by MDPI

Lidar for Atmospheric Remote Sensing

Guest Editor:

Dr. Francesco Cairo

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), 00133
Rome, Italy

Deadline for manuscript
submissions:

closed (25 December 2023)

Message from the Guest Editor

Dear Colleagues,

Lidar systems are important tools for obtaining atmospheric profiles of density, temperature, wind and turbulence, as well as detecting minor gaseous species and clouds or particulate matter in the atmosphere. The high degree of automation that has been achieved has allowed lidar systems to be hosted on satellites or to set up automatic measurement networks, thereby contributing significantly to the increase in the understanding of atmospheric, meteorological and climatic physical-chemical processes, as well improving the ability to monitor the environment in real time. Recent technological and methodological innovations allows these systems to carry out measurements with unprecedented accuracy and resolution, while cutting-edge technologies in laser emission and signal detection systems, as well as innovative signal interpretation algorithms, pave the way for new systems of unprecedented capabilities, miniaturization and low cost. This Special Issue invites contributions on lidar technology and algorithm developments, including new hardware design, innovative laser sources and detectors, and new environmental application fields.



mdpi.com/si/166850

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)