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Instruments



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Message from the Editor-in-Chief

The realization of dedicated instrumentation has always been a collateral aspect of experimental research. In addition, many groups dedicate efforts and resources solely to the development of new devices, sensors, equipment and large infrastructure, theoretical and numerical studies, and novel experimental methodologies. With *Instruments* we wish to address both established and emerging communities, also to favor the creation of innovative trans-disciplinary approaches. We see *Instruments* as an exciting high-impact journal that will soon hold a leading position in disseminating cutting edge scientific and technological research.

Editor-in-Chief

Prof. Dr. Antonio Ereditato

Associate Editor

Prof. Dr. Pasquale Arpaia

Aims

Instruments (ISSN: 2410-390X) is an international, peer-reviewed open-access journal that provides an advanced forum for studies related to the design and applications of instruments, apparatuses, and experimental techniques in disciplinary and interdisciplinary research.

The journal aims to exclusively publish high-quality scientific papers presenting ground-breaking and innovative results.

The journal publishes regular research papers, communications, letters, short notes, project report, brief report, technical note, and reviews. Our aim is to encourage researchers to publish their experimental and computational results in as much detail as necessary. There is no restriction on the maximum length of the papers published by the journal.

Scope

- Innovative design, methods, applications, metrological characterization, and theory of all aspects of advanced instruments, including detectors, sensors, transducers, signal generators, and virtual instruments
- Among the main fields are instrumentation in physics, astronomy, chemistry, engineering, electronics, space science, biology and medicine, and energy
- Innovative data acquisition architectures, components, and pre-processing techniques
- New data analysis tools and approaches
- Instrumentation science: theory and application, measurement production modeling, and experimental identification and validation
- Examples of keywords: particle detectors, sensors, transducers, microscopy, spectroscopy, imaging, optical devices, spectrometry, particle accelerators, plasma, dosimetry, metrology, electronics, data handling, medical diagnostics, robotics and haptics, measurement embedded applications, virtual instrumentation, the Internet of Things, augmented reality, wireless sensor networks, sensors and transducers on-chip, education and training in measurement and instrumentation, etc.

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A first decision is provided to authors approximately 28 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the second half of 2024)

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