

Special Issue

Multi-Messenger Astrophysics: Synergies Between Cosmic Rays, Gravitational Waves, Neutrinos, and Electromagnetic Signals

Message from the Guest Editors

Major international projects contribute to multi-messenger observations of cosmic rays, neutrinos, gamma-rays and gravitational waves, this will lead to progress on open questions on the nature and type of sources of these messengers (e.g. super-massive black holes at the center of active galaxies, violent supernova explosions, or mergers of compact stars in binary systems), on the role of hadronic processes in astrophysical sources, of extra-galactic magnetic fields, and of acceleration and propagation mechanisms. This Special Issue aims to provide an overview of the existing and future developments in multi-messenger astrophysics, of theoretical models and the experimental results obtained by space-based and ground-based infrastructures, together with open questions and future prospects towards next generation multi-messenger observatories. The study of these and other related topics are the goal of this special issue, [...] For further reading, please follow the [link](#) to the Special Issue Website.

Guest Editors

Dr. Gina Isar

Institute of Space Science (ISS), Bucharest-Magurele, Romania

Prof. Dr. Günter Sigl

II. Institut für Theoretische Physik, Universität Hamburg, Luruper
Chaussee 149, 22761 Hamburg, Germany

Deadline for manuscript submissions

31 July 2026



Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.0



mdpi.com/si/229226

Universe
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
universe@mdpi.com

[mdpi.com/journal/
universe](https://mdpi.com/journal/universe)





Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.0



[mdpi.com/journal/
universe](https://mdpi.com/journal/universe)



About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
Ministero dell' Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari,
Italy

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), Astrophysics Data System, INSPIRE, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)