

Special Issue

Ultra-High Energy Cosmic Rays: Past, Present and Future

Message from the Guest Editors

Cosmic rays, one of the main pillars of modern astrophysics, convey valuable information about distant energetic objects and phenomena in the universe. These charged particles range from electrons and protons to iron nuclei, with their energies extending across eleven orders of magnitude. The propagation of these particles through magnetic fields scatters their initial trajectories such that, by the time they reach Earth, their original sources become obscured. In this Special Issue, we welcome the submission of articles that review key historical results, highlight advances in the field of multi-messenger astronomy, and discuss future projects.

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Deadline for manuscript submissions

31 October 2025



Universe

an Open Access Journal
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Impact Factor 2.6
CiteScore 5.2



mdpi.com/si/232816

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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
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