

# Special Issue

## Solar Activity During Cycle 25

### Message from the Guest Editors

Solar activity remains a pivotal focus in solar physics research and is the source of space weather that can profoundly impact the Earth's environment and our daily life. This Special Issue aims to showcase the latest research findings in solar activities, along with relevant theoretical modeling efforts and instrumental advancements. Potential topics include, but are not limited to

- Solar dynamo and the solar cycle;
- Solar magnetic field and its role in solar activity;
- Solar flares: energy accumulation and release, triggers, dynamics, particle acceleration, and hard X-ray (HXR) emissions;
- Coronal mass ejections (CMEs): source region, acceleration, and dynamical evolution and propagation;
- Solar activity and space weather: modeling, prediction, and impact on Earth;
- Chromospheric and coronal heating: observational insights and simulation studies;
- Machine learning applications in the diagnosis and analysis of solar activity;
- Current and upcoming solar instrumentations.

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### Guest Editors

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### Deadline for manuscript submissions

30 June 2026



# Universe

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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.

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### Editor-in-Chief

Prof. Dr. Lorenzo Iorio  
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