

## Special Issue

# Electron-Positron Annihilation in Our Galaxy

### Message from the Guest Editor

In this Special Issue, we aim to collect both review and original papers on the 511 keV line emission in our Galaxy. Some of the key topics that will be covered in this Special Issue of *Galaxies* are:

- All sky map of the annihilation diffuse emission.
- High resolution spectral analysis of the 511 keV line and positronium continuum.
- Search for 511 keV point sources.
- Map of 26 Al 1.8 MeV and 44 Ti 1.157 MeV diffuse emission along the Galactic plane to estimate the contribution due to supernovae.
- Constraints on positrons injection energy by measuring the in-flight annihilation spectrum.
- Study of the propagation of the positrons in the interstellar medium to answer how far the positrons travel before annihilation.
- Observational and theoretical studies on the possible sources of Galactic positrons
- Design and development of new missions

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### Guest Editor

Dr. Giovanni De Cesare

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### Deadline for manuscript submissions

closed (30 June 2020)



## Galaxies

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## About the Journal

### Message from the Editorial Board

*Galaxies* provides an advanced forum for studies related to astronomy, astrophysics, and cosmology, including all of their subfields. Different formats, such as specialized research articles, reviews, communications and technical notes are welcomed. Manuscripts containing original and creative research proposals and ideas are especially appreciated.

We encourage scientists to publish their astronomical observations and theoretical results in as much detail as possible. There is no restriction on the paper length and full experimental and methodological details, as applicable, should be provided. All papers will be peer reviewed promptly. On behalf of the distinguished members of the editorial board, I extend my welcome to all researchers working on these subjects to contribute to *Galaxies*.

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### Editors-in-Chief

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.4 days after submission; acceptance to publication is undertaken in 4.8 days (median values for papers published in this journal in the first half of 2025).