

## Special Issue

# Nucleosynthesis and Dust Production in AGB Stars: Open Issues and Future Perspectives

### Message from the Guest Editors

This Special Issue of *Galaxies* will gather contributions to the XIV Torino Workshop, which will be held in Rome 10–14 June 2024. The conference, along with the tradition of the previous editions of the Torino workshop, will be focused on the physics and nucleosynthesis of asymptotic giant branch (AGB) stars and several related topics. The meeting will offer a valuable opportunity to discuss the state of the art of AGB, post-AGB and super AGB modeling, and the impact of current and future experimental efforts, above and below ground, to determine the rates of the relevant charged particle and neutron capture reactions, as well as the role of AGB stars in the chemical evolution of the Milky Way and other galaxies. The possibilities offered by the present and oncoming observational facilities (such as JWST, VLT, LAMOST, ELT, etc.), the study of dust formation in the wind of evolved stars and the meteoritic dust measurements, and hot topics in the field of theoretical and nuclear astrophysics will be also addressed. The arguments will be presented in a series of oral presentations and poster sessions, and then published in the Special Issue of *Galaxies*.

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 September 2024)



## Galaxies

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### 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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