

Special Issue

A New Window on the Radio Emission from Galaxies, Galaxy Clusters and Cosmic Web: Current Status and Perspectives

Message from the Guest Editors

The current radio astronomical interferometers, such as, for instance, LOFAR, ASKAP, MeerKAT, JVLA, uGMRT, and MWA, which are paving the way to the SKA, are providing breathtaking advances in our view of radio galaxies, galaxy clusters, and cosmic web. The image quality and fidelity of the present observational facilities as well as state-of-the-art numerical simulations are unveiling unexpected details which are challenging our knowledge. It is timely to review our current understanding and open questions of the radio galaxy phenomenon, the relation between radio galaxies and the surrounding environment, and of the origin of diffuse emission in galaxy clusters and beyond. The aim of this Special Issue is to review our knowledge in this field of research, present the new challenges we are facing and discuss scientific prospects over the next decade, in the light of the capabilities of the SKA.

Guest Editors

Dr. Francesca Loi

INAF-Osservatorio Astronomico di Cagliari, Via della Scienza, 5, 09047 Cuccuru Angius, Italy

Dr. Tiziana Venturi

INAF, Istituto di Radioastronomia, via Gobetti, 101, 40129 Bologna, Italy

Deadline for manuscript submissions

25 July 2025



Galaxies

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 6.3



mdpi.com/si/53594

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

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





Galaxies

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 6.3



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



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*.

Editors-in-Chief

Dr. Margo Aller

Department of Astronomy, University of Michigan, Ann Arbor, MI 48109-1042, USA

Dr. Jose L. Gómez

Instituto de Astrofísica de Andalucía (IAA-CSIC), Glorieta de la Astronomía S/N, 18008 Granada, Spain

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Astrophysics Data System, INSPIRE, Inspec, and other databases.

Journal Rank:

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

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).