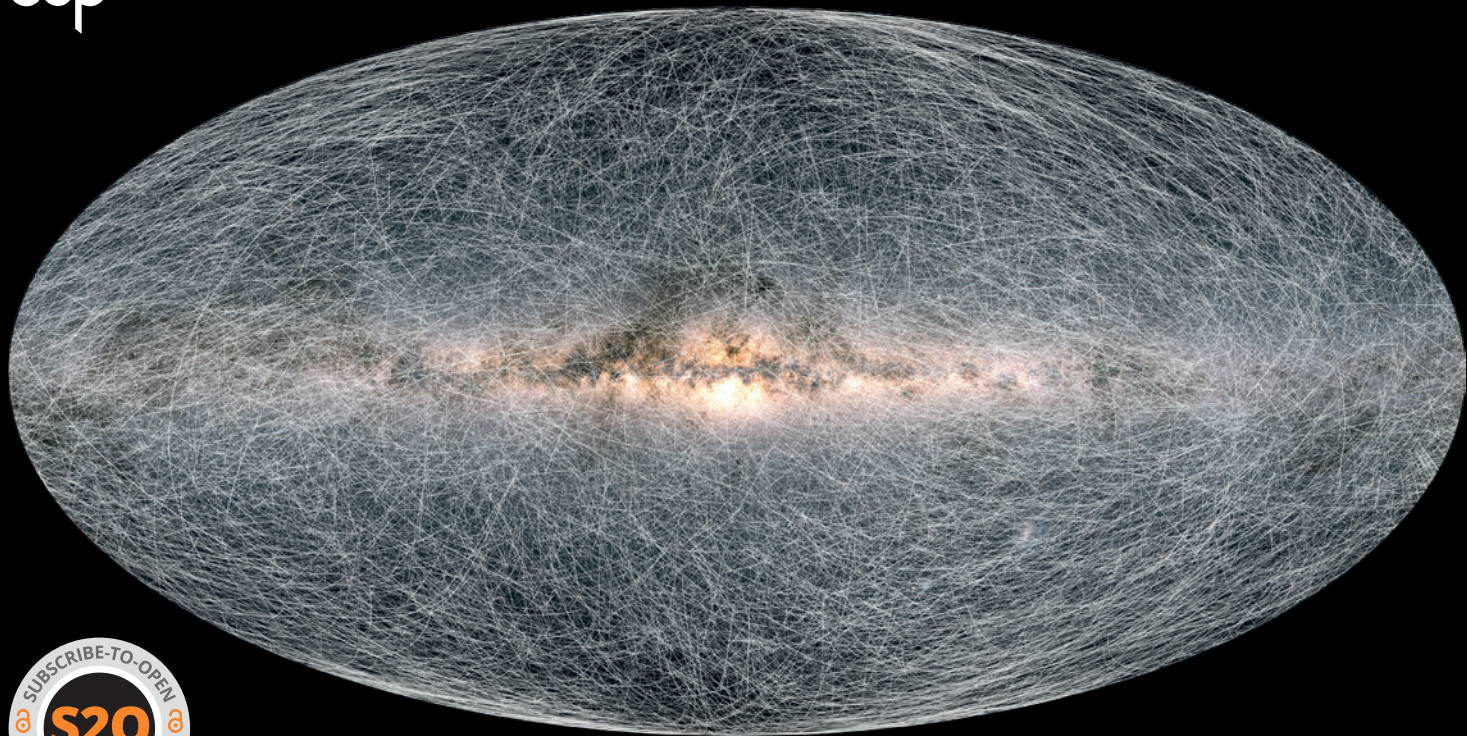


Astronomy & Astrophysics

Published by
edp sciences



aanda.org

Worldwide astronomical and astrophysical research

Astronomy & Astrophysics (A&A) is an international, peer-reviewed journal that publishes original research in astronomy and astrophysics. Its mission is to:

- Publish important original work that stimulates high-quality scientific discourse
- Safeguard scientific reproducibility and ethical best practices
- Educate early-career astronomers on scientific writing

2021 Journal Impact Factor™
6.240
Journal Citation Reports™
Clarivate, 2022

CiteScore
2021
9.9
Scopus

With a consistently strong Impact Factor, A&A is one of the leading original research journals in Astronomy and Astrophysics.

Key Points

- **Owned by the scientific community and governed by a board of member countries.**
- **Indexed in all major databases including Science Citation Index and Scopus (Quartile 1).**
- **Wide dissemination: Articles read in over 210 countries around the world.**
- **Publication of important special issues online and, by agreement, in print. For example, Planck, Gaia, H.E.S.S., Rosetta, Solar Orbiter, LOFAR.**
- **More than 50 years of publishing excellence including Nobel Prize laureates.**
- **Language editing service: Clarity and excellence of language editing to match the high-quality science.**

Editors

Thierry Forveille

Editor-in-Chief

Astronomer at the Observatory of Grenoble.

His main area of research is the observational study of brown dwarfs and extrasolar planets.



João Alves

Letters Editor-in-Chief:

Professor of Stellar Astrophysics at the University of Vienna.

He investigates the formation of stars and planets and is also interested in Astrobiology.



David Elbaz

Managing Editor

Scientific Director of the Astrophysics Department of CEA.

His primary research interest is to understand how galaxies formed and evolved during cosmic time.



Associate Editors

- S. Campana (Osservatorio Astronomico di Brera, Italy)
- F. Combes (Observatoire de Paris, France)
- Z. Han (Yunnan Observatories, Chinese Academy of Sciences, China)
- R. Kotak (Tuorlan observatorio, Finland)
- E. Lellouch (Observatoire de Paris, France)
- D. Minniti (Universidad Andres Bello, Chile)
- D. Mouillet (Observatoire de Grenoble, France)
- B. Noyelles (University of Franche-Comté, France)
- L. Pentericci (Osservatorio Astronomico di Roma, Italy)
- M. Salaris (Liverpool John Moores University, United Kingdom)
- S. Shore (Università di Pisa, Italy)
- M. Tafalla (Observatorio Astronomico Nacional, Spain)
- Y. Zouganelis (European Space Agency, Spain)

At the forefront of innovation

New in 2022: Subscribe-to-Open (S2O)

A&A is now published under a Subscribe-to-Open model (S2O). S2O is an alternative open access model which enables libraries to use their budgets to support open access publishing. Every year, if libraries renew their subscriptions, A&A will publish that year's content in full open access.

If support is insufficient, the content from that year will be published behind a paywall. Authors wishing or required to publish in open access can then choose the Open Access Option or publish under one of the existing transformative agreements if eligible.

See the FAQs for more information – anda.org/subscribe-to-open-faqs

Subscribe to A&A to support its publication in open access. Contact: subscribers@edpsciences.org



Other Key Features

Article formats

A&A offers an extended range of formats (PDF, HTML, etc.). This allows reading of scientific articles on most specialized e-readers and tablets (e-Pub, Kindle).

Mobile version

The A&A website is available in a mobile-optimized format.

BibTeX

A&A BibTeX style includes “eprint” commands to enable authors to add links to the ASCL (Astrophysics Source Code Library) and arXiv records.

Rich-media in A&A articles

This important tool for researchers offers the possibility of publishing multimedia and 3D models.

Author names using non-Latin alphabets

A&A authors may choose to include names in their own language as well as in English.

Links from arXiv

Once a paper has been published online, links can be automatically added from arXiv to the published paper.

Dedicated to authors



Follow us on Twitter!
@AandA_journal

Scientific Writing for Young Astronomers (SWYA)

A school, created by A&A, that helps PhD students present their results and explains the major aspects of scientific writing and publishing.

Press releases and Highlights

Services that showcase articles selected by the A&A editors. Weekly Highlights are also freely available by e-mail. Sign-up via aanda.paris@obspm.fr

Technical tools

Authors benefit from services such as Altmetric data, FundRef, CrossRef, ORCID, etc.

Editorial office and language editing

Experienced and permanent editorial office (aanda.paris@obspm.fr) and a specialist team of language editors support the journal.

Tables of contents by e-mail

Never miss another issue of A&A. Sign up for the free e-mail alert service on aanda.org.

Alongside original research articles, A&A publishes Letters to the Editor, which are short papers reporting on ground-breaking results or ideas (with fast-track publication).

Sections

- Letters
- Astrophysical processes
- Cosmology (including clusters of galaxies)
- Extragalactic astronomy
- Galactic structure, stellar clusters, and populations
- Interstellar and circumstellar matter
- Stellar structure and evolution
- Stellar atmospheres
- The Sun and the Heliosphere
- Planets and planetary systems
- Celestial mechanics and astrometry
- Atomic, molecular, and nuclear data
- Astronomical instrumentation
- Catalogs and data
- Numerical methods and codes

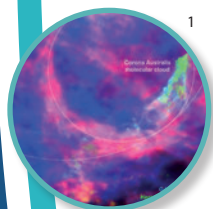
ISSN: 0004-6361 • e-ISSN: 1432-0746

Help and information:

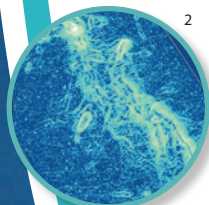
Please contact EDP Sciences via edpsciences.org

Astronomy
& Astrophysics

edpsciences



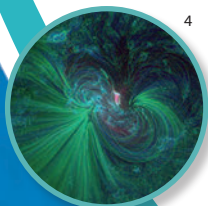
1



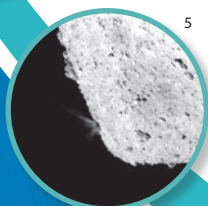
2



3



4



5

Front:
Trails showing the displacement of stars on the sky 400 thousand years into the future, based on *Gaia* Early Data Release 3 (Credit: ESA/Gaia/DPAC) ("*Gaia* Early Data Release 3" Special Issue, 2021, A&A, 649)

1. Molecular-cloud origin from atomic-shell compression (Bracco, A., et al., 2020, A&A, 644, A5)

2. Complexity of filamentary structures in Musca (Yahia, H., et al., 2021, A&A, 649, A33)

3. The Yutu-2 Rover that measured the in-situ lunar phase curves (Jiang, T., et al., 2021, A&A, 646, A2)

4. Hot solar coronal loops: How do they originate? (Chitta, L. P., et al., 2020, A&A, 644, A130)

5. Expanding ejecta curtain of SCI crater on Ryugu (Wada, K., et al., 2021, A&A, 647, A43)