

# S2O: part of EDPS strategy to transition its entire portfolio of journals to OA

Charlotte Van Rooyen

Marketing & Communications Director EDP Sciences

Open Science Week - 19 October 2023



# Overview

---

- About EDP Sciences
- Our Subscribe to Open Journals
- Astronomy & Astrophysics
- Mathematics
- Transparency
- Usage story
- What has worked well and what hasn't

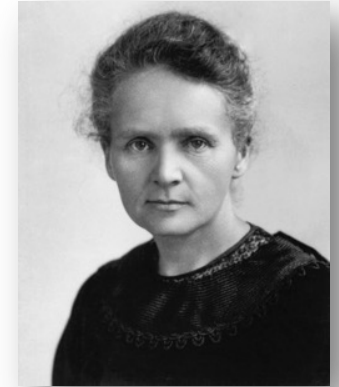


# About EDP Sciences



- **Our Illustrious Beginnings**

- Founded a century ago by prestigious members of the French academic community, including luminaries like Marie Curie, Paul Langevin, and Louis de Broglie.



- **Publications Portfolio**

- EDP Sciences today publishes a rich spectrum of academic resources:
  - Journals
  - Conference Proceedings
  - Books
  - Magazines
- Covering an extensive array of STM disciplines.

- **Archives of Rich Content**

- Our digital archives, host articles authored by world-renowned scientists including many Nobel Prize winners.



# About EDP Sciences



- **Collaboration with Learned Societies**

- We pride ourselves on partnerships, with 60% of our journals co-published with prestigious learned societies.

- **Advancing Open Access**

- Committed to open science, we're actively supporting the transition to complete Open Access for our content in the coming years.

- **Empowering Future Researchers**

- EDP Sciences organizes Masterclasses in collaboration with important institutions. These sessions equip early career researchers with a deeper understanding of the scholarly publishing landscape.



# Subscribe to Open



Collaborative OA model using subscriptions to convert content to Open Access, applicable globally and across disciplines



No article processing charges for authors encourages a diverse and inclusive scholarly environment.



Institutional customers continue to subscribe to the journals that their patrons value.



With sufficient support, content becomes OA under Creative Commons; otherwise, paywall stays



# Subscribe to Open

## EDP Sciences' S2O journals

Journal	Year joined S2O programme	Year published in open access			
		2020	2021	2022	2023
MMNP	2020	OA	OA	OA	OA
ESAIM: M2AN	2021	Subs.	OA	OA	OA
ESAIM: COCV	2021	Subs.	OA	OA	OA
ESAIM: PS	2021	Subs.	OA	OA	OA
RAIRO-RO	2021	Subs.	OA	OA	OA
RAIRO-ITA	2021	Subs.	OA	OA	OA
Astronomy & Astrophysics	2022	Hybrid	Hybrid	OA	OA
Radioprotection	2023	Hybrid	Hybrid	Hybrid	Hybrid*

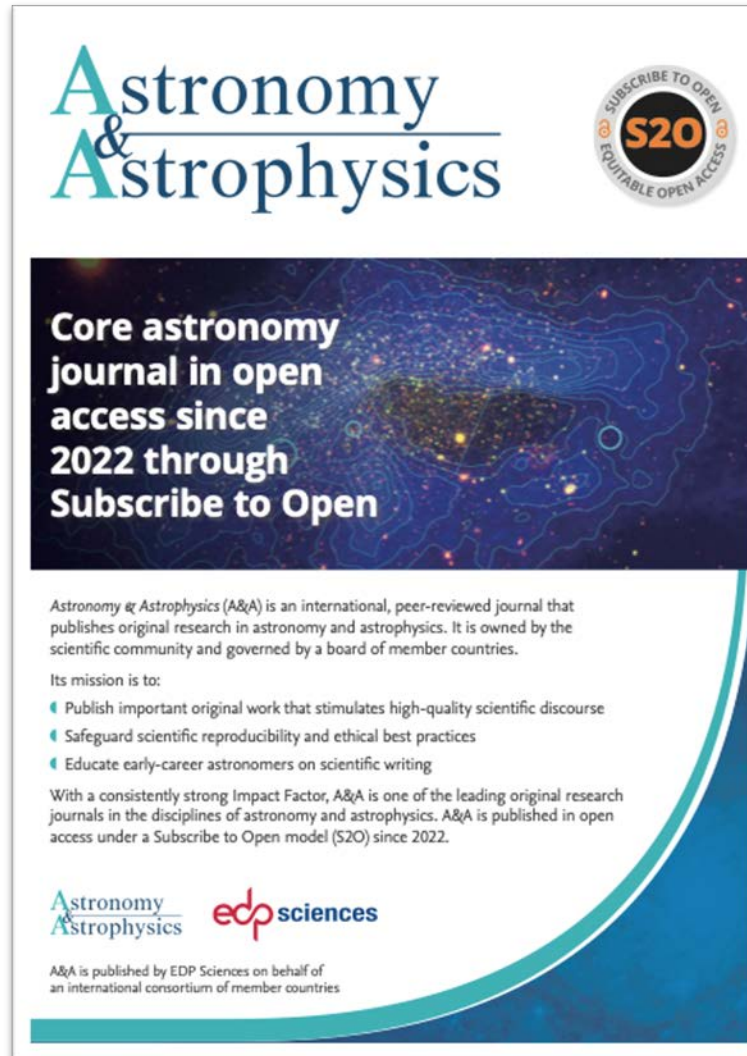


Maths S2O programme


\*In 2023 Radioprotection did not achieve the financial thresholds to convert to Open Access



# Astronomy & Astrophysics



**Astronomy  
&  
Astrophysics**



**Core astronomy  
journal in open  
access since  
2022 through  
Subscribe to Open**

Astronomy & Astrophysics (A&A) is an international, peer-reviewed journal that publishes original research in astronomy and astrophysics. It is owned by the scientific community and governed by a board of member countries.

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

With a consistently strong Impact Factor, A&A is one of the leading original research journals in the disciplines of astronomy and astrophysics. A&A is published in open access under a Subscribe to Open model (S2O) since 2022.

**Astronomy  
&  
Astrophysics** **edp sciences**

A&A is published by EDP Sciences on behalf of  
an international consortium of member countries



- One of the leading journals publishing peer-reviewed original research in astronomy & astrophysics
- A community journal: governed by a board of directors made up of representatives of 27 member countries (including the Czech Republic) who own the journal. Administered by ESO
- Well-known for the publication of important special issues e.g., Planck, Gaia, H.E.S.S., Rosetta, Solar Orbiter, LOFAR





# OA in Astronomy (a sneak peak!)

## Key Points

- 4 main journals: 35% of refereed astronomy original research articles
- Governance by Learned Societies published by “commercial” Publishers
- Prevalent use of Green Open Access
- Core journals transitioned or transitioning to full OA, with APC model EXCEPT A&A

**More insights ahead.....**



# Why S2O for A&A

- A strong commitment to full open access for the journal.
- EDP and the board of A&A strongly believed that open access through a gold route was not acceptable to the astronomy community.
- Experience with our maths journals.



# A&A Financial model

## S2O publishing model



# The A&A S2O cycle

Decision to publish under S2O 2021

Subscription renewal campaign for 2022 onwards

IMPLEMENTATION



EVALUATION of subscription renewals

Target reached: **DECISION** to publish in OA in Year Y

Target not reached: Journal remains in gated access

## 2022

- Articles **newly accepted from 4 April 2022** published **open access**
- Articles from the beginning of the year in **free access**
- Archives in **free access** (for mathematics their archives are gated as a subscriber benefit)

## 2023

- Subscription target reached
- All Articles published **open access**
- Archives in **free access**



Decision to publish in Open Access depends on subscription renewals

Decision is reviewed every year

# How to reward subscribers?

## Survey of A&A subscribers conducted by EDP Sciences in March 2022

9. Please indicate whether the following subscriber benefits would make it more or less likely that you would subscribe in 2023, or make no difference.

[Plus de détails](#)

■ More likely to subscribe ■ Equally likely to subscribe ■ Less likely to subscribe ■ Don't know

"Freemium"-type model: reserved access to certain article formats for subscribers (e.g. PDF)

Financial transparency report

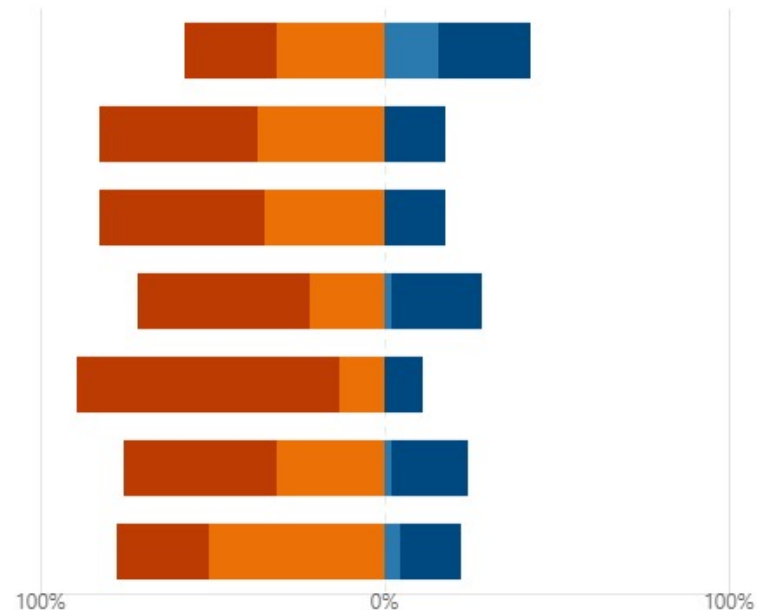
Personalized usage data report

Discount on page charges for authors from subscribing institutions who are not in an A&A...

Discount on subscription price

Being credited for the contribution of my institution to open access publication of A&A

More information about the Subscribe-to-Open model



# A&A Subscriber benefits - 2024



« Early-bird » price-freeze for A&A S20 subscribers who renew before end 2023



Content reserved to subscribers: Forthcoming articles (cf. Annual Reviews)



Page charge discount for authors of subscribing institutions from non-member countries



# Mathematics journals

## World-class mathematics journals – enabling open access through Subscribe to Open



### Mathematical Modelling of Natural Phenomena

MMNP publishes original and review papers on Mathematical Modelling in biology, medicine, chemistry, physics, and other areas in the context of real world problems.

[mmnp-journal.org](http://mmnp-journal.org)

The first mathematics journal in the world to transition to open access using Subscribe to Open!



### ESAIM: Control, Optimisation and Calculus of Variations

ESAIM: COCV publishes papers and surveys in the areas of Control, Optimisation, and Calculus of Variations. Articles may be theoretical and/or computational and cover topical subjects.

[esaim-cocv.org](http://esaim-cocv.org)



### ESAIM: Mathematical Modelling and Numerical Analysis

ESAIM: M2AN publishes original research papers in Mathematical Modelling and Numerical Analysis providing rigorous theoretical analysis and evidence of computational relevance.

[esaim-m2an.org](http://esaim-m2an.org)



### ESAIM: Probability and Statistics

ESAIM: P&S publishes original research and survey papers in Probability and Statistics. It covers theoretical and practical aspects and methodological developments with applications.

[esaim-ps.org](http://esaim-ps.org)



### RAIRO – Operations Research

RAIRO – RO is an international journal of high-level pure and applied research on Operations Research. It includes theory and methodology papers, case studies and state-of-the-art surveys.

[rairo-ro.org](http://rairo-ro.org)



### RAIRO – Theoretical Informatics and Applications

RAIRO – ITA publishes original high-level research papers in the area of theoretical computer science and its applications including game theory, quantum computation, cryptography.

[rairo-ita.org](http://rairo-ita.org)



All the journals are published by EDP Sciences in partnership with SMAI except for *RAIRO – Theoretical Informatics and Applications* which is published by EDP Sciences only



# Why S2O for Maths Journals



- A strong commitment to full open access for the journals.
- EDP and SMAI our partner society strongly believed that open access through a gold route was not acceptable to the mathematics community.





## S2O Pilot Success in 2020

- Launch of the S2O pilot in 2020, featuring the journal *Mathematical Modelling of Natural Phenomena (MMNP)*.
- Initial phase included a small subscriber base.

## Expanding the Program in 2021

Building on the pilot's success, the S2O program expanded to encompass five additional mathematics journals in 2021.

## Resilience Amid Challenges

Despite the challenges posed by the COVID-19 pandemic in 2021, all six journals have been consistently published in open access since that year.



# Revenue Sources for Mathematics Journals

- **Traditional Subscriptions**
  - Positive renewal rates in 2023
  - Moderate subscription price increases
- **Partnership with Knowledge Unlatched (KU)**
  - 3-year agreement (2022-2024) extended to 2025-2027
  - Focus on selling the package of 6 maths journals to institutions
  - Subscribers commit to 3 years with price stability
- **French National Open Access Agreement**
  - Transformative "Read & Publish" agreement
  - Read access and free open access publication for authors
  - Subscribe to Open model plays significant role



# Additional revenue sources for Mathematics Journals



- **Exceptional Laboratory Contributions**
  - Generous donations from French mathematics laboratories in 2021
  - Temporary support scheme to address budget challenges
- **Fonds National pour la Science Ouverte (FNSO)**
  - Funding for S2O transition and commercial activities
  - Contributions for publication costs and marketing efforts
  - Support influenced the decision to transition to open access in 2021
- **Centre National de la Recherche Scientifique (CNRS)**
  - Funding for continued open access
  - Allocation for publication costs and increased sales and communication activities
  - Aims to engage long-term support from libraries and institutions



# Programme gouvernance

- **Advisory Committee**

- Oversees the EDP Sciences-SMAI Subscribe to Open initiative.
- Focus: Ensuring the journals' long-term transition to open access (S2O model).
- Explores funding options beyond subscriptions.
- Consulted on transparency and accountability.

- **Committee Composition**

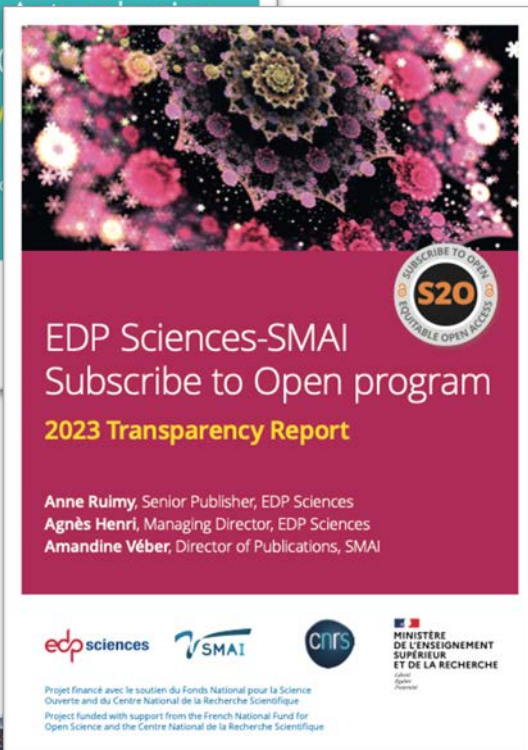
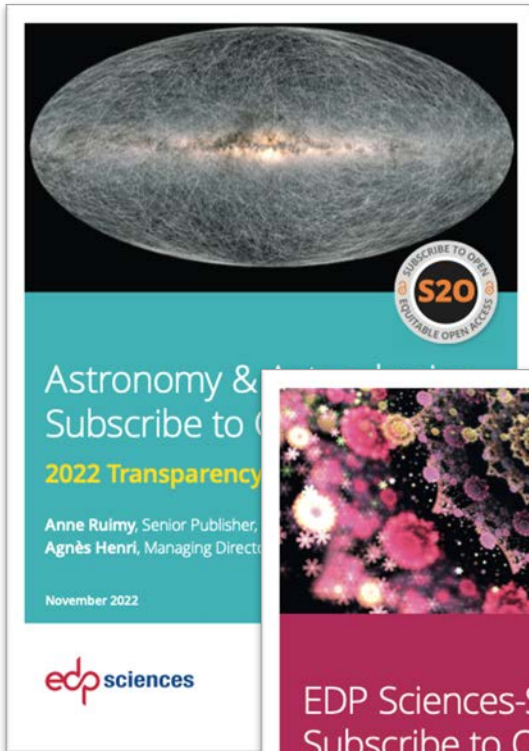
- Representatives from major organizations:
  - EDP Sciences
  - Société de Mathématiques Appliquées et Industrielles (SMAI)
  - Réseau National des Bibliothèques de Mathématiques (RNBM)
  - Institut National des Sciences Mathématiques et de leurs Interactions (INSMI)
  - National Institute for Research in Digital Science and Technology (INRIA)
  - Comité pour la Science Ouverte (COSO)
  - Couperin consortium
  - Centre National de la Recherche Scientifique (CNRS)
- Represents key players in maths publishing and open access in France.

- **S2O Community of Practice**

- Active participation in the international S2O Community of Practice.



# Transparency Reports



Definitions



Subscription prices



Subscription renewals



Exceptional revenue



Revenue vs. publication costs

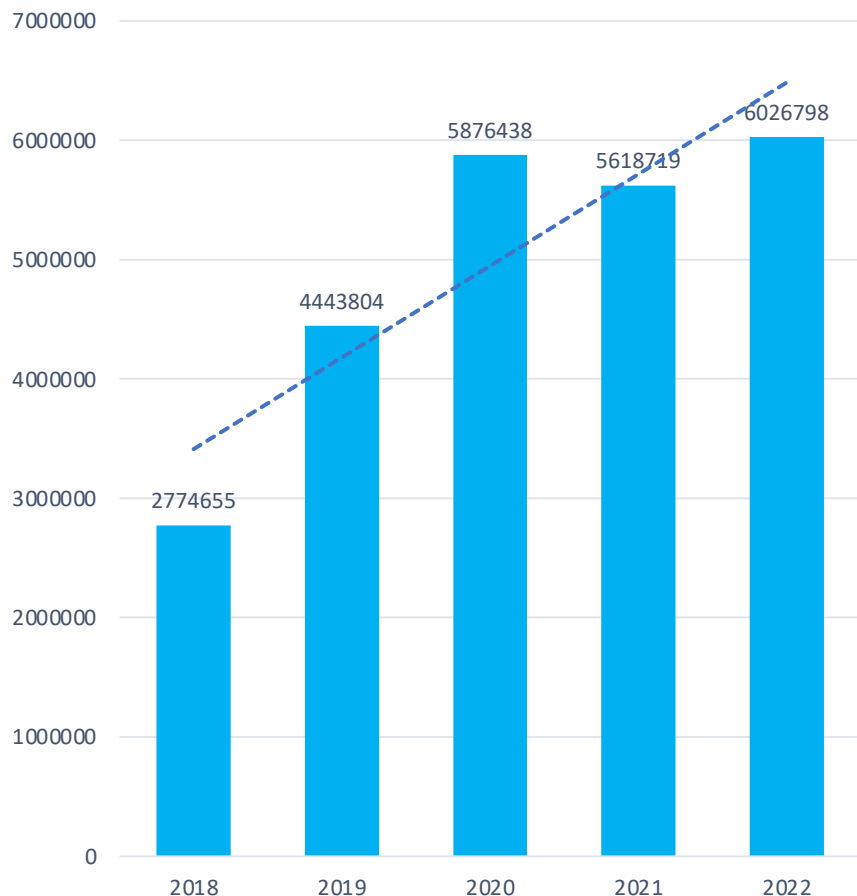


Program governance

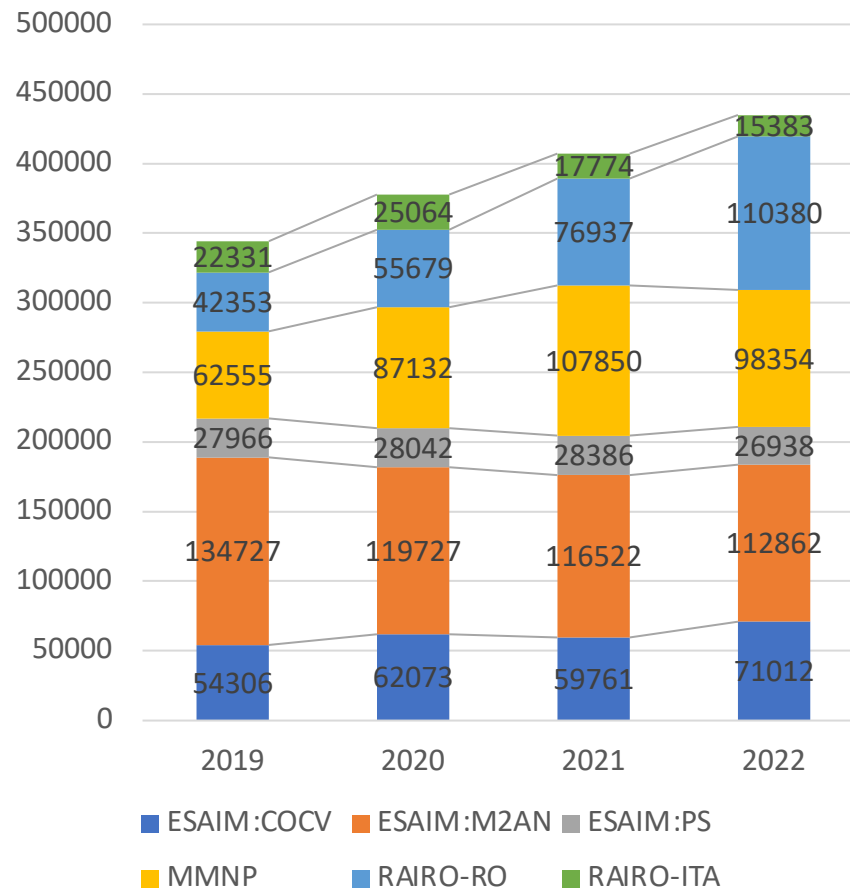
# Usage – Yearly total downloads



## A&A



## Mathematics Journals



# Usage overall

---

Currently, no very strong additional usage story for our S2O journals

- **WHY?**

- Universal use of ArXiv in maths and astrophysics
- For A&A short embargo period (1 year post publication) prior to transition to OA



# OA articles published under S2O

Over 4600 articles published in OA since 2020

Journal	OA articles published
A&A	3393
ESAIM: COCV	224
RAIRO-ITA	28
ESAIM: M2AN	253
MMNP	187
ESAIM: PS	50
RAIRO-RO	496
<b>TOTAL</b>	<b>4631</b>

Figures to end September 2023





# Subscribe to Open

## What Has Worked Well

- Society and researcher engagement in S2O model
- Multi-stakeholder advisory committee
- Financial transparency reports
- Subscriber benefits
- Varied funding sources
- Robust communication

## What's Not Working Well

- Maintaining subscriptions outside EU/US
- Complex A&A funding model involving subscriptions and page charges difficult to communicate



Thank you

