Exercise 2

- Conduct a survey as comprehensive as possible of at least 10 journals that publish astronomy- or astrophysics-related research results. Which of them have associated publications, e.g., letters or supplements?
- Select a handful of '**core**' journals (definition?), and summarize how often each journal publishes, in what language, by what publisher.

Assignment-2

11 March 2024



Astronomy Journals

Of the ten Astronomy Journals I have surveyed, five of them have associated publications, which may include letters, supplements, or companion series. The above-mentioned journals are:

1. The Astrophysical Journal Supplement Series (ApJS) 2. Astronomy & Astrophysics Supplement Series (A&A Supplement) 3. Publications of the ? Astronomical Society of the Pacific (PASP) 4. Monthly Notices of the Royal Astronomical Society (MNRAS) 5. Living Reviews in Solar Physics

2 Core Journals

The "core journals" are such publications which are considered as publishing the most relevant findings, and central concepts and are highly respected in the particular discipline. They are widely read by researchers and used for further development in the field. Some of the core journals in Astronomy and Astrophysics are given below:

1) **The Astronomy and Astrophysics Review** is a core journal published quarterly by Springer-Verlag GmbH Germany, part of Springer Nature. The journal is published in English language.

2)Living Reviews in Solar Physics is a peer-reviewed scientific journal published in English by Springer Science+Business Media. It <u>doesn't have a fixed frequency</u> for publication.

3)Nature Astronomych is a monthly journal published by Nature Portfolio in the English language.

4)Publications of the Astronomical Society of the Pacific (PASP) is a monthly journal published in English by the Astronomical Society of the Pacific.

5) The Astronomical Journal (AJ) is a monthly journal published by IOP for the American Astronomical Society. It is published in the English language.

Exercise II Barrowerk II A Homework II	2 Table 1 The information of Journals. Journal language publish publisher impact factor (2022) H index Nature Astronomy English monthly Nature Portfolio 12.1 71 AJ English monthly IOP Publishing 5.3 259 A&A English monthly EDP Sciences 6.5 320 Ap.J English Jomoth IOP Publishing 4.9 462 MNRAS English Coffyean Oxford University Press 4.8 357
 1.1. Exercise Conduct a survey, as some phase base observed publications, e.g., letters or supplements? 1. Nature Astronomy Nature is an international journal including all aspects of scientific discoveries/(blus, Nature has the highest impact factor of any journal. Nature Astronomy is one of the portfolios of Nature, providing astronomers to publish the scenario related to astronomy, such as astrophysics, planetary sciences, cosmology. 2. The Astronomical Journal (A) As an international journal which publishes astronomy research, accentuating the results proved from observations. 3. Astronomy & Astrophysics (A&A) A&A is an international journal which publishes astronomy and astrophysics papers. 4. The Astrophysical Journal (ApJ) 4. ApJ novides a platform for astronometrs to publish later research, discoveries, theories, and observations. 5. The Astrophysical Journal buffet publishes astronomy and astrophysics papers. 6. The Astrophysical Journal buffet publishes acculations of their important research. 7. ApJ novides a platform for astronometries to publish later renorm research. 8. Astrophysical Journal Supplement (ApJS) 4. ApJ allows astronometries to publishing their research covering all criteria of astronomy and astrophysics. 9. Anothal Novies of the Idoyal Astronomical Society (MNRAS) MNRAS allows astronometries publishing their research covering all criteria of astronomy and astrophysics. 9. The Publications of the Astronomical Society of the Pacific (PASP) 9. The Publications of the Astronomical Society (MNRAS) 9. The Publications of the Astronomical Society of the Pacific (PASP) 9. The Publications of the Astronomical Society of the Pacific (PASP) 9. The Publications of the Astronomical Society of the Pacific (PASP) 9. The Publications of the Astronomy and astrophysics, especially for the	 Impact factor is a remark to realmate how important of a journal in its field, measuring the frequency with which the "average article" in a journal has been cited within a particular time period (e.g. previous two years). Index is defined as the given anthor/journal has published at least h papers that have each been cited at least (h) times. The definition of core" journal is inpact factor and H index might be one of the important standard. These journals are standard.

Scientific Writing Exercise 2



1 Astronomical Journals Survey

1.1 Astronomy and Astrophysics (A & A)

Astronomy and Astrophysics Review covers all areas include cosmic ray physics, solar system studies, astrobiology, relevant laboratory or particle physics, instrumentation, computational or statistical methods, and more, According to Schimago Journal Ranking (SJR) is 9.937, which is the top SJR ranking journal in 2022, and its H index is 74.

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Astronomy Astrophysics

Associated pub?

LETTER TO THE EDITOR

A newborn active galactic nucleus in a star-forming galaxy

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2 Core jounal

According to the google scholar top publications ranking based on their h5-index, the top 5 journals in astronomy and astrophysics are The Astrophysical Jounral (ApJ), Monthly Notices of the Royal Astronomical Society (MNRAS), Astronomy & Astrophysics (A & A), Journal of Cosmology and Astroparticle Physics (JCAP), Nature Astronomy. The h5 index of these journals are 169, 160, 136, 106, and 92 respectively.

Categories > Physics & Mathematics > Astronomy & Astrophysics -

	Publication	h5-index	h5-median
1	The Astrophysical Journal	169	234
2	Monthly Notices of the Royal Astronomical Society	150	212
3	Astronomy & Astrophysics	136	190
4.	Journal of Cosmology and Astroparticle Physics	106	151
5.	Nature Astronomy	92	118

However, my personal preference would be Icarus, because it is the top planetary science journal. It publishes monthly and written in English, both American or British usages is accepted, but not a mixture of these. It is officially endorsed by the American Astronomical Society's Division for Planetary Sciences (DPS). The journal was founded in 1962, and became affiliated with the DPS in 1974. Its original owner and publisher was Academic Press, which was purchased by Elsevier in 2000. Elesevier owns several journas, such as Planetary and Space Science, Advances in Space Research, Astroparticle Physics and so on.

V

Exercise:

- Conduct a survey as comprehensive as possible of at least 10 journals that publish astronomy- or astrophysics-related research results. Which of them have associated publications, e.g., letters or supplements?
- Select a handful of '**core**' journals (definition?), and summarize how often each journal publishes, in what language, by what publisher.
- Compare the 'style' of the core journals. Note the layout of the title, abstract, references, etc. (e.g., ApJ vs A&A)
- Zoom in to one journal and browse through one recent paper of your choice. What is it about? By whom?
- Identify one off-core journal. Does our library subscribe to it.
- What is the *Science Citation Index*? What is the *Impact Factor*? What is the *Open Access* policy? *PLOS One*?