

# ADS Community Input

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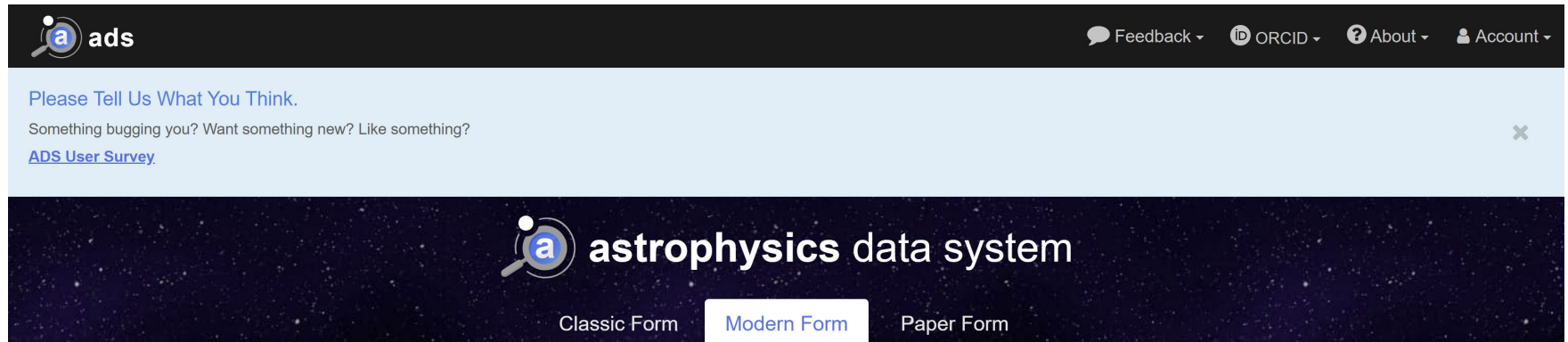
**ASTROPHYSICS**

HARVARD & SMITHSONIAN



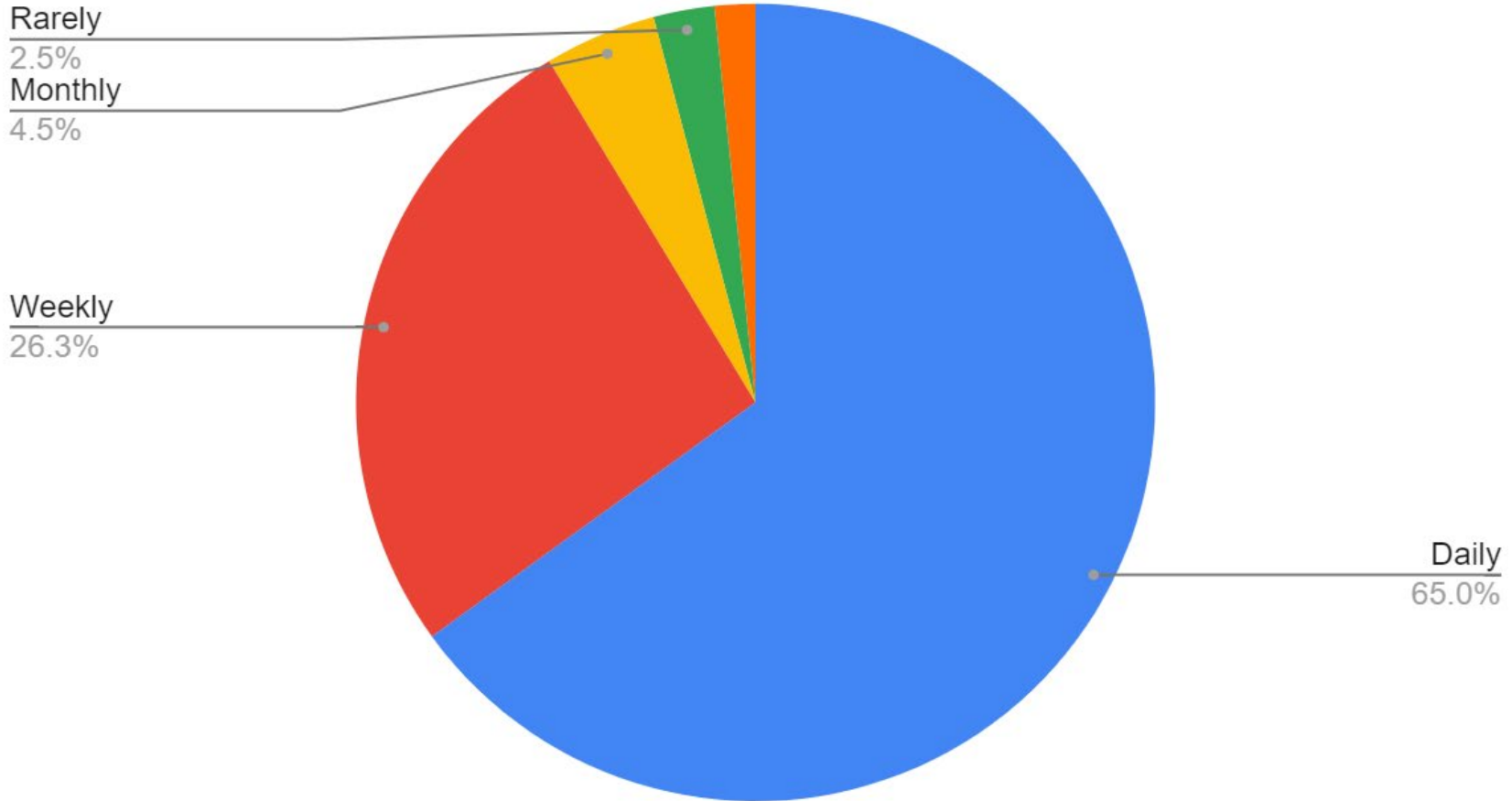
# Science Community Outreach Survey

- Nov 1 through 14, 2023
- 245 responses to 11 questions
- Tested different social media outlets



The screenshot shows the top portion of the Astrophysics Data System (ADS) website. At the top left is the ADS logo, which consists of a magnifying glass icon over a blue circle containing a white 'a', followed by the text 'ads'. To the right of the logo are four navigation links: 'Feedback' with a speech bubble icon, 'ORCID' with an 'ID' icon, 'About' with a question mark icon, and 'Account' with a person icon. Below the navigation bar is a light blue banner with the text 'Please Tell Us What You Think.' and 'Something bugging you? Want something new? Like something?' followed by a link to 'ADS User Survey' and a close button (an 'x' icon). At the bottom of the screenshot is a dark blue navigation bar with the ADS logo and the text 'astrophysics data system'. Below this are three buttons: 'Classic Form', 'Modern Form' (which is highlighted with a white background), and 'Paper Form'.

# How often do you use NASA ADS?



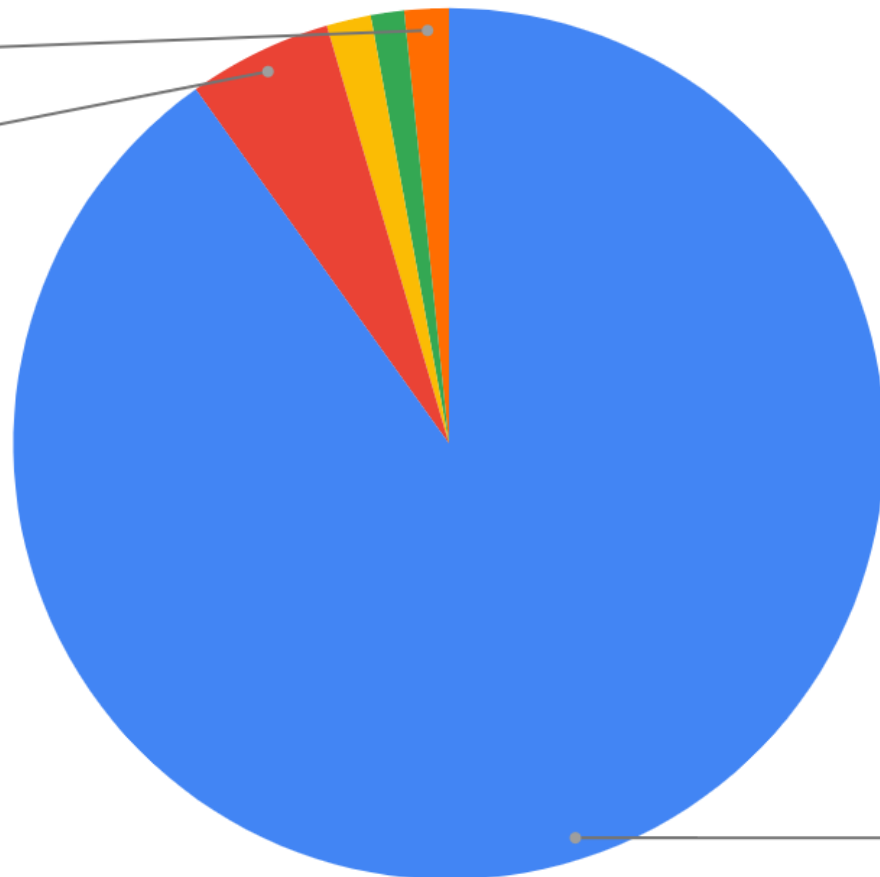
# How likely are you to recommend NASA ADS?

Highly unlikely (1 or 2)

1.6%

Likely (7 or 8)

5.3%



Highly likely (9 or 10)

90.1%

# What is most valuable to you?

Most Valued Qualities	# of References
Comprehensive Results (Published, Pre-print, Open Access, Data, References All in 1 Place)	83
Easy/Quick/User Friendly/Accessible (No Cost/Subscription Login)	59
Relevance/Astro Content Focus/Ability to Find What You are Seeking	52
Access/Direct Links to Publications (esp. arXiv)	40
BibTeX/User Defined Download/Reference Manager Integration	34
Flexibility/Quality/Power/Complexity of Search Interface & Results Sorting Scheme	34
Aids to Finding " Similar" Content (Linked Citations & References, Similar Papers, Trending, Visualizations)	24
Ability to Create (Sortable) Libraries	23
Citation Statistics/Scores/Key Figures (e.g. H-Index)	17
Speed from Publication to Entry into Library/Quality of Library Maintenance/ "Up to Date"	10
Accuracy, Reliability, Consistency, Dependability, Standardized	7
Inclusion of Historic/Older Materials	7
Documentation & Access to User Support (Tutorials/Email Updates/Ability to Contact Staff for Help or Corrections)	4
Ability to Share/Send Entries to ORCID/Personal Sites/Groups	3
Quality of Content Highlights before Accessing Full Papers	2
Other	2

# Sample: What is most valuable to you?

- Convenient links between articles and their BibTeX formatted citations, arXiv preprints, and datasets. I also like the ability to create collections of articles based on my needs (for example, for use in my CV). The comprehensiveness of ADS, particularly in terms of astronomy and astrophysics makes it a great one-stop shop for information.
- 1) Being able to access any publication in astronomy given just the first author and the year. 2) Assessing the impact of a paper by looking at the metrics. 3) I also like the ability to search for phrases in the abstract and/or full text.
- As one without institutional library access to literature, most valuable is the ability to find and read articles critical to my research activities.

# What improvements would you like?

Desired Improvement	# of References
Search	59
Metrics	22
Catalog	18
Display/Layout/Versions	18
Open Access/Links	16
Load Time	10
Libraries	9
Citations	8
Export/Import	8
User Accounts	8
User Feedback & Updating	8
Integrations	7
Synonyms	7
ORCiD	6
Documentation	5
Similar Papers	5
AI Compatibility	4
Refereed Content	4
Author Info	3
Collaborator Networks	3
RSS/Feeds	3

# Sample: What improvements would you like?

- The website should run faster. An AI interface (ChatGPT-style) trained on abstracts, text, citations, etc. could be extremely powerful.
- Adding suggestions for the inquiries of Chinese and Korean authors, by using their ORCID. The current system is very unfriendly to Chinese and Korean authors due to their very common family name.
- Some times I stumble on missing or broken links in ADS but I know the correct link. Have an interface that may repair those links may help you. Certainly this interface may test new link eventually waiting for human confirmation. Improve the connection to Vizier in order to get data tables used for make plots in several articles, even for geology and others.



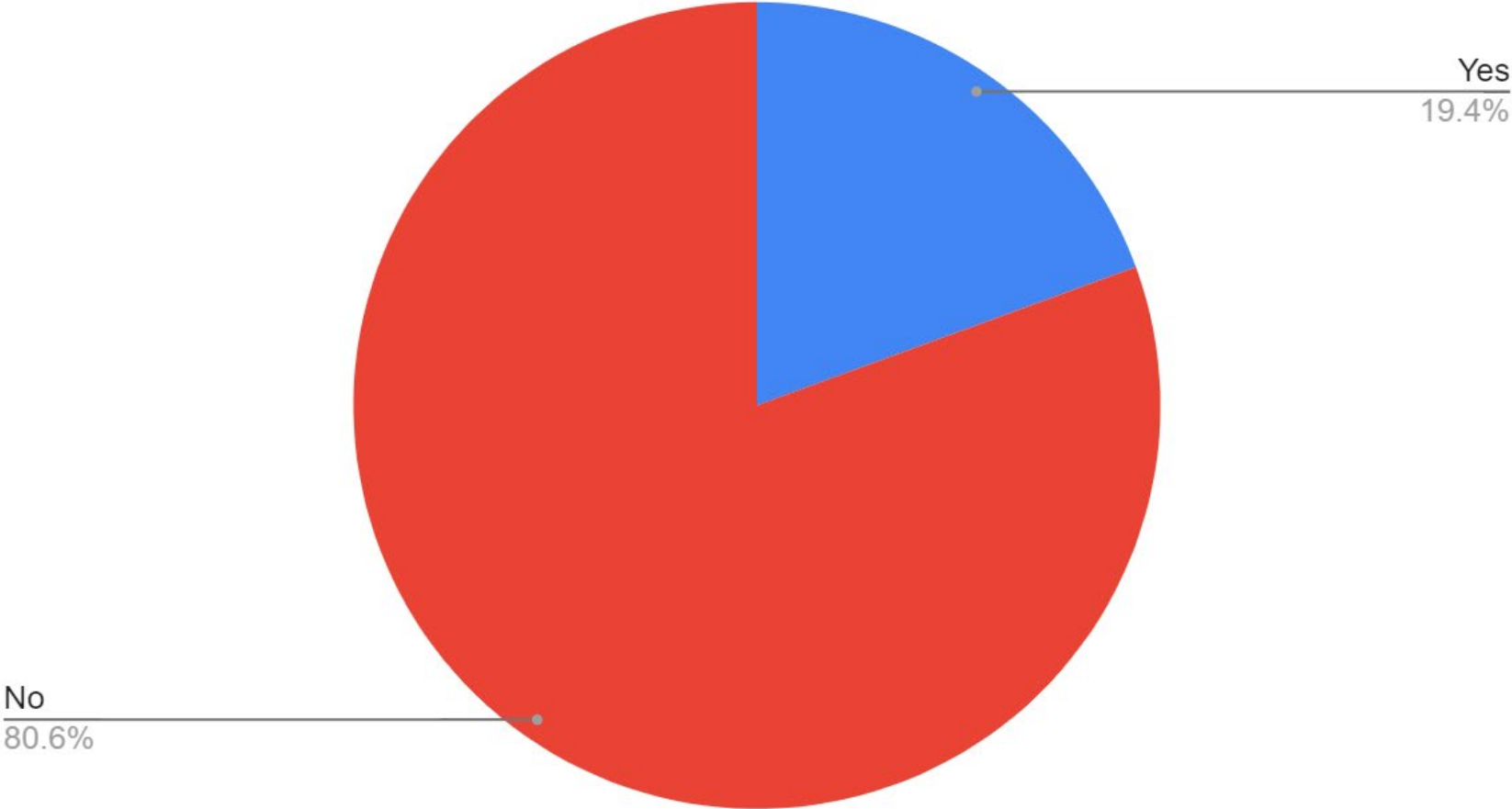
# What additional research would you like to see

Suggested New Science Topics/Content	# of References
Mathematics and Statistics	10
Chemistry and Astrochemistry	10
Physics	9
Planetary Science	9
Astrobiology	8
Computer Science/Scientific Computing/Software/ML	8
Astrophysics and Astronomy	5
Biology and Genetics	4
Geology	4
Heliophysics	4
Instrumentation, Optics, & Engineering	4
Geophysics	3
Geoscience	3
Meteoritics	3
Planetary Defense	2
Astroarcheology	1
Informatics	1
Mission Design	1
Molecular Spectroscopy	1
NASA data products	1
Outreach	1
Quantum Mechanics	1
Science History	1
Space Policy	1
Space Weather	1

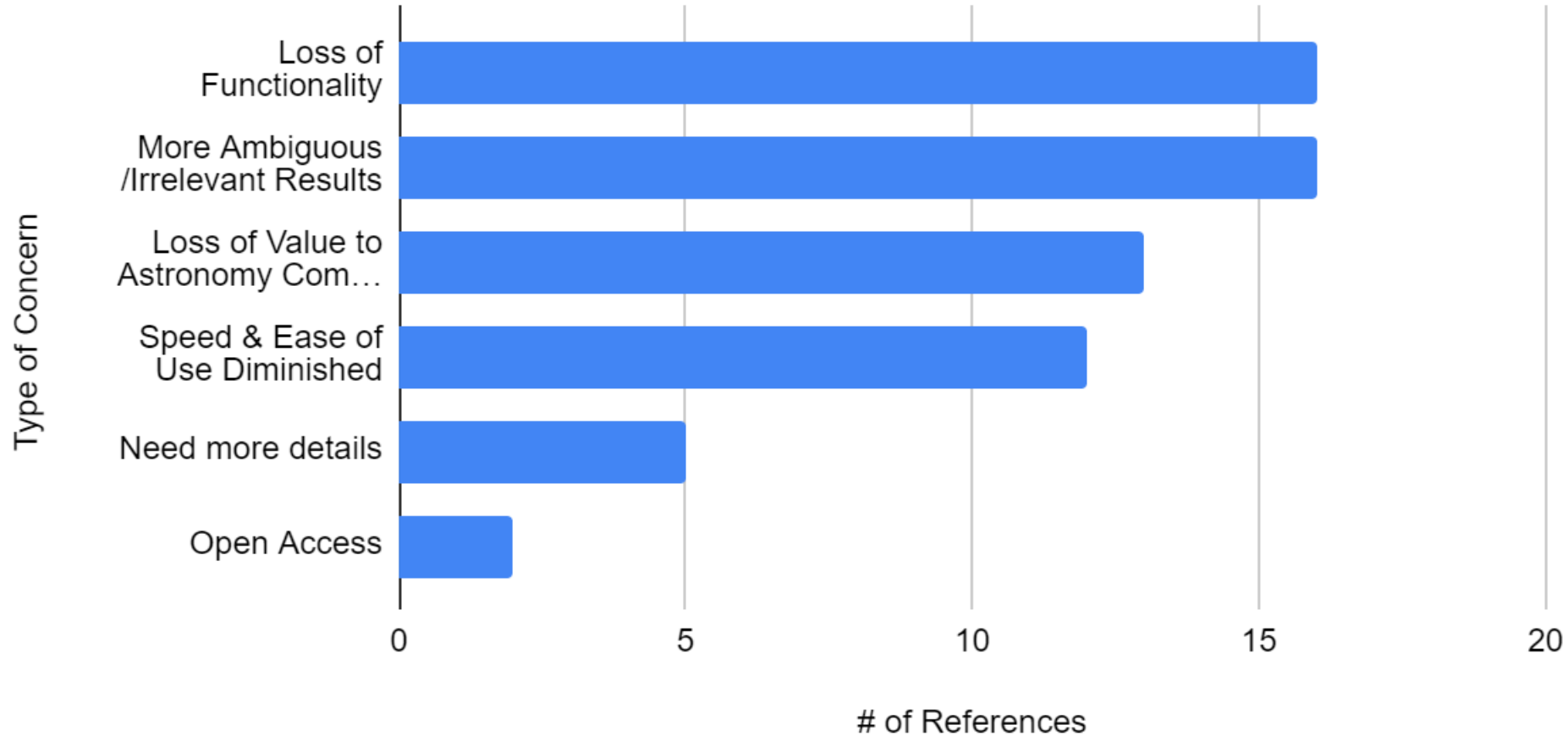
# Sample: What additional research?

- Better coverage of comp sci, maths and ML literature would be very useful. In particular, software!
- I sometimes struggle to find papers on the boundaries of astronomy that are in non-astronomy journals e.g. astrochemistry, astroparticle physics or meteoritics papers
- Earth science, broadly
- More \*books\* related to astronomy & astrophysics
- More old articles (decades or centuries old)
- No more! I often find my search queries are now clouded with more and more papers that are less relevant.
- In principle, all. There are the ones that I use, which is astronomy. But this is so useful, that all disciplines should be there

# Where you aware that ADS is becoming SciX?



# Types of Concerns



# Sample: What are your concerns?

- I will cry if my libraries don't transfer.
- inability to maintain historical records and not discard old papers
- I am concerned that it will make it hard to find astrophysics papers, esp. by authors with common names who publish in non-AAS journals.
- My concern is that SciX will be implemented badly and end up being confusing, tedious to use, and providing TMI that is unhelpful.
- I'm afraid for losing simplicity and especially the speed of the service when searching and loading the site.
- archives like MAST have made the mistake of changing their interfaces too often, without this really resulting in an improvement of their services

# More Sample Comments, Generally

- + access to all astronomy related publications and good search interface
- Honestly I need to be shown what sets you apart from Google Scholar. Remember most planetary folks don't use LaTeX so any integration with it is not an argument for your use
- + Science that is free for all to learn, grow, and expand their mind
- To be honest, it's not [valuable]. Google scholar and even mendelay do a better job of searching and then also getting you to the journal website faster.
- + I'm excited for expanded Planetary Science literature

# Raw survey results (Confidential)

[2023 ADSUG Raw Survey Results](#)



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# What would you like us to know?

