What's New @ ADS

Alberto Accomazzi, Kelly Lockhart, Jennifer Lynn Bartlett & Michael Kurtz <u>adshelp@cfa.harvard.edu</u> <u>http://ui.adsabs.harvard.edu</u>

January 2024

CENTER FOR



HARVARD & SMITHSONIAN





Overview

A review of the exciting developments taking place with ADS:

- Launch of the NASA Science Explorer (SciX) platform (Alberto Accomazzi)
- AI/ML initiatives at ADS (Kelly Lockhart)
- Using ADS in the SciX Era (Jennifer Lynn Bartlett & Michal Kurtz)

The NASA Science Explorer: ADS for all NASA Science







What is the NASA Science Explorer?

SciX is a new literature portal that we just launched as part of the expansion of the NASA Astrophysics Data System (ADS) to the research disciplines funded by the NASA Science Mission Directorate: Astrophysics, Planetary Science, Heliophysics, Earth Science, Biological and Physical Sciences

	NASA Science Explorer							
QUICK FIELD:	author	first author	abstract	year	fulltext	all search terms	~	
ßearch								ç

WELCOME TO THE SciX Digital Library



Learn more about the SciX digital library and how it can support your scientific research in this welcome video and brief user tutorial from Dr. Stephanie Jarmak.

 \bullet \circ \circ \circ \circ

The CAOINACA Data Sustan

<

DECOUDCES

SOCIAL

DRO IECT

>

What is the NASA Science Explorer?

SciX supports NASA's Open Science efforts and enables interdisciplinary research and collaboration.

	Di NASA So	cience Exp	DIOTET	March 1
QUICK FIELD: author f	first author abstract y	year fulltext	all search terms $\qquad \lor$	Q

DISCOVER Open Science

SciX is part of the NASA Open Source Science Initiative. SciX supports open science principles, expanding access & accelerating scientific discovery for societal benefit.



0 0 • 0 0

© The <u>SAO/NASA</u> Data System help[at]scixplorer.org

SciX

General Science

SciX is a project created by the Astrophysics Data System (ADS), which is operated by the Smithsonian Astrophysical Observatory under

<

RESOURCES About SciX Give Feedback SciX Help Careers@ADS

Accessibility

SOCIAL

@scixcommunity SciX Blog

PROJECT

>

Feedback 🗸 🝈 ORCiD 🗸 About 🗸 Help 👗 Account 🗸

Privacy Policy Terms of Use Smithsonian Astrophysical Observatory Smithsonian Institution



NASA Science Explorer

What is the NASA **Science Explorer?**

The NASA Science Explorer, or SciX for short, is available as a beta release at the following website:

https://SciXplorer.org

While the system is still under development, it already provides a wealth of information and functionality ready for use.



© The SAO/NASA Data System

help[at]scixplorer.org

SciX is a project created by the Astrophysics Data System (ADS), which is operated by the Smithsonian Astrophysical Observatory under

RESOURCES

About SciX **Give Feedback** SciX Help Careers@ADS Accessibility

SOCIAL

@scixcommunity SciX Blog

PROJECT

Privacy Policy Terms of Use Smithsonian Astrophysical Observatory Smithsonian Institution NASA

Why the NASA Science Explorer?

NASA's Science Mission Directorate in 2019 calls for the creation of interdisciplinary literature portal spanning across SMD in support of Open Science.

https://SciXplorer.org



Why the NASA Science Explorer?

NASA's Science Mission Directorate in 2019 calls for the creation of interdisciplinary literature portal spanning across SMD in support of Open Science.

ADS has been selected for its support of open science goals: facilitating discovery and dissemination of OA publications, data, and software by aggregating and linking them.

Earth Science





Planetary Science

Heliophysics

Astrophysics

Biological & Physical Sciences

https://SciXplorer.org

Why the NASA Science Explorer?

NASA's Science Mission Directorate in 2019 calls for the creation of interdisciplinary literature portal spanning across SMD in support of Open Science.

ADS has been selected for its support of open science goals: facilitating discovery and dissemination of OA publications, data, and software by aggregating and linking them.

Over the next three years, the ADS team will be developing and expanding the **NASA Science Explorer** to include all relevant NASA SMD content.

https://SciXplorer.org

Biological & Physical Sciences

Earth Science





Planetary Science

Heliophysics

Astrophysics



SciX is built on top of the same database and API, but has a few different features:



© The SAO/NASA Data System help[at]scixplorer.org

SciX is a project created by the Astrophysics Data System (ADS), which is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement

RESOURCES

About SciX Give Feedback SciX Help Careers@ADS Accessibility

SOCIAL

@scixcommunity SciX Blog

PROJECT

Privacy Policy Terms of Use Smithsonian Astrophysical Observatory Smithsonian Institution NASA

SciX is built on top of the same database and API, but has a few different features:

• Improved accessibility

SciX BETA	General Science 🗸 🗸]		Feedback 🗸 👘 ORCiD	∽ About ∽ Help	💄 Account 🗸
	General Science			N N N		
	Astrophysics	jo nasa So	cience Exp	lorer.	AKS C	
	Heliophysics					LEX.
	Planetary Science					
	Earth Science	first author abstract y	ear fulltext	all search terms 🛛 🗸		
	Biological & Physical Science				Q	
		Search	Examples			
	author	author:"penrose, roger"	citations	citations(abstract:JWST)		
	first author	author:"^penrose, roger"	refereed	property:refereed		
	abstract+title	abs:"black hole"	collection	collection:astronomy		
	year 🖌	year:2000	exact search	=body:"reproducibility"	>	
	year range	year:2000-2005	institution	inst:NASA	v	
	full text	full:"black hole"	record type	doctype:software		
	publication	bibstem:ApJ				
		0 0	0 0 •			

© The <u>SAO/NASA</u> Data System

١

SciX is a project created by the Astrophysics Data System (ADS), which is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement

RESOURCES

About SciX Give Feedback SciX Help Careers@ADS Accessibility

SOCIAL

@scixcommunity SciX Blog

PROJECT

Privacy Policy Terms of Use Smithsonian Astrophysical Observatory Smithsonian Institution NASA

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"



© The SAO/NASA Data System

help[at]scixplorer.org

SciX is a project created by the Astrophysics Data System (ADS), which is operated by the RESOURCES About SciX Give Feedback SciX Help SOCIAL

@scixcommunity SciX Blog

PROJECT

Privacy Policy Terms of Use Smithsonian Astrophysical Observatory

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins" (including the "Classic Form")



Ex: "Content of the Future in the ADS"

.

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"
- Better handling of filters

QUICK FIELD: author	first	author
AGN		
Your search returned 50,006	results	
Filters		C X
Year(s)		
0		
1955		2024
🗄 🗸 Author		0
🗌 Fabian, A	573	>
🗌 Stern, D	546	>
🗌 Wang, J	492	>
🗌 Vignali, C	446	>
🗌 Brandt, W	445	>
🗌 Elvis, M	444	>
🗌 Ho, L	425	>
🗌 Mushotzky, R	407	>
🗌 Comastri, A	400	>
🗌 Urry, C	383	>
		•••
🗄 🗸 Collections		0
astronomy		49k
physics		3.8k
general		383
earthscience		139
`		

Astrophysics

or first author	abstract	year fulltext all search terms ~	
			ΧQ
06 results			
$\mathcal{C} \times$	Relevan	ce v =j	٢
		Bulk Actions 👻	Explore ~
	1 🗔	The host galaxies of active galactic nuclei Kauffmann, Guinevere; Heckman, Timothy M.; Tremonti, Christy; Brinchmann, Jarle; Charlot, Stéphane; White, Simo Ridgway, Susan E.; Brinkmann, Jon; Fukugita, Masataka; Hall, Patrick B.; and 3 more 2003/12 · Monthly Notices of the Royal Astronomical Society · cited: 3152	▶
2024 © 573 >	2 🗌	Unified Schemes for Radio-Loud Active Galactic Nuclei Urry, C. Megan; Padovani, Paolo; show list 1995/09 · Publications of the Astronomical Society of the Pa · cited: 4149	
546 > 492 > 446 > 445 >	3 🗌	Unified models for active galactic nuclei and quasars. Antonucci, Robert; <i>show list</i> 1993/00 · Annual Review of Astronomy and Astrophysics · cited: 3587	
444 > 425 > 407 >	4 🗌	Astrophysics of gaseous nebulae and active galactic nuclei Osterbrock, Donald E.; <i>show list</i> 1989/00 · Astrophysics of Gaseous Nebulae and Active Galacti · cited: 3861 ~	
383 >	5 🗌	Observational Evidence of Active Galactic Nuclei Feedback Fabian, A. C.; show list 2012/09 · Annual Review of Astronomy and Astrophysics · cited: 1974	
49k 3.8k 383 139	6 🗌	Astrophysics of gaseous nebulae and active galactic nuclei Osterbrock, Donald E.; Ferland, Gary J.; <i>show list</i> 2006/00 · Astrophysics of gaseous nebulae and active galacti · cited: 2123 ~	

Feedback 🗸 🝈 ORCiD 🗸 About 🗸 Help 👗 Account 🗸

S Call

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"
- Better handling of filters (paging, sorting & searching)

					Feedback ~	ll ORC	CiD ~	About ~ He	lp 👗 Account ~
QUICK FIELD: at	uthc	Author						×	
AGN		Search			×	Co	unt	~ ≡↓	Q X
Your search returned 8	50,0	🗌 Fabian, A						573 >	
Filters		🗌 Stern, D						546 >	
		🗌 Wang, J						492 >	٢
Yea	ar(s)	🗌 Vignali, C						446 >	Explore
		🗌 Brandt, W						445 >	
		🗌 Elvis, M						444 >	Simon D. M.;
		🗌 Ho, L						425 >	
		Mushotzky	, R					407 >	
		🗌 Comastri, A	4					400 >	
1955		Urry, C						383 >	
H v Author		Showing 1 to 1	0 of 35,354 re	esults	< Pre	ev 1 of	3,536	Next >	
 Fabian, A Stern, D 			•						
Wang, J		704		Antonicol Lobort chow lot					
Uignali, C		446 >	3 🗌	Antonucci, Robert; show list 1993/00 · Annual Review of Astronomy and Astrophysics ·	cited: 3587				
🔲 Brandt, W		445 >			~				
🗌 Elvis, M		444 >		Astrophysics of gaseous nebulae and active ga	lactic nuclei				
Ho, L		425 >	4 🗆	Osterbrock, Donald E.; <i>show list</i> 1989/00 · Astrophysics of Gaseous Nebulae and Active Gal	lacti , citad: 386	81			
Mushotzky		407 >		1305/00 · Astrophysics of Obsecus Repute and Active Ob	v				
Comastri,	A	400 >			el Elecally e els				
				Observational Evidence of Active Galactic Nucle Fabian, A. C.; show list	еі Feedback				
			5	2012/09 · Annual Review of Astronomy and Astrophysics ·	cited: 1974				
∷ ✓ Collections		0			¥.,				
astronomy	/	49k		Astrophysics of gaseous nebulae and active ga	lactic nuclei				
physics		3.8k 383	6 🗌	Osterbrock, Donald E.; Ferland, Gary J.; show list 2006/00 · Astrophysics of gaseous nebulae and active gala	acti · cited: 2123	3			
earthscien	nce	139			~				
									2 - 0

Planetary Science

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"
- Better handling of filters
- Discipline-specific enhancements

QUICK FIELD: author f	first author	abstract	year fulltext all search terms V	
		aboundor		_
mars craters				X D
Your search returned 11,466 resu	ults			
range: 1950-2024 ×				
Remove all filters				
Filters	av			
Filters	I ×	Relevan	ce v =	٥
۲ear(s) Year(s)			Bulk Actions 👻	Explore ~
		1 🗔	Evidence for recent volcanism on Mars from crater counts Hartmann, William K.; Malin, Michael; McEwen, Alfred; Carr, Michael; Soderblom, Larry; Thomas, Peter; Danielson, Edv Phillip; Veverka, Joseph; <i>show list</i> 1999/02 · Nature · cited: 174	₽
1950	2024 ©	2	The martian hemispheric dichotomy may be due to a giant impact Wilhelms, D. E.; Squyres, S. W.; <i>show list</i> 1984/05 · Nature · cited: 227	
_	1.1k ✓ 520 366 142	3 🗌	Pseudocraters on Mars. Frey, H.; Lowry, B. L.; Chase, S. A.; <i>show list</i> 1979/12 · Journal of Geophysical Research · cited: 88	
 Holden Eberswalde Victoria Eagle 	65 57 53 47	4 🗌	Impact crater and basin control of igneous processes on Mars. Schultz, P. H.; Glicken, H.; <i>show list</i> 1979/12 · Journal of Geophysical Research · cited: 88	
ZunilHaleEndeavour	42 41 39	5 🗌	Martian Cratering Hartmann, William K.; show list 1966/00 · Icarus · cited: 91	
	586 > 559 >		Martian cratering 8: Isochron refinement and the chronology of Mars Hartmann, William K.; show list	

ORCiD
 About

Help 👗 Account 🗸

Feedback ~

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"
- Better handling of filters
- Discipline-specific enhancements (with links to additional resources)

Abstract Citations Citations References References Co-Reads Similar Papers Volume Content Graphics Metrics Alluvial fan planet. Add the diverse value is brolivine and rich in Mg during the in the Vallis Metrics Export Citation

Planetary Science

Back to Results

Ma'adim Vallis, Mars: Insights into episodic and late-stage water activity from an impact crater Tuhi, S.; Harish; Kimi, K. B.; Vigneshwaran, K.; Sharini, K. S.; Priva, R. K. S.; Vijavan, S. show list

Full Text Sources Y Other Resources Y

Alluvial fans, a form of sedimentary deposit reported on Mars, offer insight into the evolution and nature of fluvial activity on the planet. Additionally, the region's preserved mineralogy can also be used to study its hydrological history. In this context, we discuss the diverse geomorphology and mineralogy of an unnamed crater that formed on the eastern wall of Ma'adim Vallis, Mars. Ma'adim Vallis is an irregular-shaped, flat-floored valley incised due to the outflow of water from the Eridania basin. The rim of the unnamed crater is breached at multiple locations and it hosts an alluvial fan of an area ~ 50 km². The CRISM spectral signatures show Mg-rich olivine and Mg-rich smectite. Mg smectite was plausibly transported through water or formed in situ while the underneath terrain was rich in Mg olivine. The crater retention age on the ejecta of the unnamed crater is 3.7 Ga which suggests that the crater likely formed during the Noachian-Hesperian period boundary or earlier. This unnamed crater probably with east of water activity in the Vallis, which was most likely fed by water overflowing from a resurged early Hesperian water activity in Eridania Basin. This study substantiates episodic, late- stage water activity in Ma'adim Vallis, and the unnamed crater formed on the floodplains of the Vallis providing an excellent opportunity for future landing missions to explore astrobiological significance of the region.

Publication	Icarus, Volume 387, article id. 115214.
Publication Date	2022-11-00
DOI	10.1016/j.icarus.2022.115214 🗗
Bibcode	2022lcar38715214T 🖻
Keywords	Mars Ø Crater Ø Mineralogy Ø Water Ø Astrobiology Ø
Planetary Features	Mars/Crater/Gale の ご Mars/Crater/Gusev の ご Mars/Crater/Jezero の ご Mars/Crater/Reuyl の ご Mars/Terra/Terra Cimmeria の ご Mars/Terra/Terra Sirenum Go to the USGS page for this feature ご

https://planetarynames.wr.usgs.gov/Feature/14300

+

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"
- Better handling of filters
- Discipline-specific enhancements
- Improved ORCID integration

Alberto Accomazzi 0 0000-0002-4110-3511	My OR Learn abou
Academic Affiliation	Claims tak
Center for Astrophysics Harvard & Smithsonian	All my pa
	TITLE
Aliases No aliases found	The Futur
Add new alias +	AstroLLa
Search by alias Q	Expansion
Logout from ORCiD	Expansion

SciX General Science

My ORCiD Page

Learn about using ORCiD with NASA SciX

Claims take up to 24 hours to be indexed in SciX

All my papers				
TITLE	SOURCE	UPDATED V	STATUS	ACTIONS
The Future of Astronomical Data Infrastructure: Meeting Report	NASA SciX	2 months ago	Verified	\$
AstroLLaMA: Towards Specialized Foundation Models in Astronomy	NASA SciX	3 months ago	Verified	¢
Expansion of the NASA Astrophysics Data System to Earth and Space Sciences	Crossref NASA SciX	3 months ago	Verified	¢
Expansion and Enhancement of FAIR Content in the ADS	Crossref NASA SciX	3 months ago	Verified	Φ
Expansion and Enhancement of FAIR Content in the ADS	Crossref NASA SciX	3 months ago	Verified	\$
Best Practices for Data Publication in the Astronomical Literature	NASA SciX Crossref	3 months ago	Pending	\$
Expansion and Enhancement of FAIR Content in the ADS	NASA SciX	3 months ago	Verified	¢
Building the UAT as a Community	NASA SciX	3 months ago	Verified	φ
Content of the Future in the ADS	NASA SciX	3 months ago	Verified	¢
Automatically detecting facilities in the scientific literature using Deep Learning techniques	NASA SciX	3 months ago	Verified	ø
Introducing the New ADS OpenAPI Exploration Tool: Making API Access More User- Friendly	NASA SciX	3 months ago	Verified	¢
Asclepias: Software Citations Enter the Scholarly Literature World	NASA SciX	3 months ago	Verified	¢
ADS Support of Open Science in Heliophysics	NASA SciX	3 months ago	Verified	¢
The Earth and Space Science Knowledge Commons: Building capacity and community	NASA SciX	3 months ago	Verified	¢
ADS Support of Open Science in Heliophysics	NASA SciX	3 months ago	Verified	Φ
Improving astroBERT using Semantic Textual Similarity	NASA SciX	3 months ago	Verified	¢
Proceedings of the first Workshop on Information Extraction from Scientific Publications	NASA SciX	3 months ago	Verified	¢
ADS Machine Learning and Deep Learning Efforts	NASA SciX	3 months ago	Verified	¢
Software Citation and Discoverability in ADS with the Citation Capture Pipeline	NASA SciX	3 months ago	Verified	¢
Advancing Space Science Requires NASA Support for Coordination Between the Science Mission Directorate Communities	NASA SciX	3 months ago	Verified	ø

SciX is built on top of the same database and API, but has a few different features:

- Improved accessibility
- Discipline specific "skins"
- Better handling of filters
- Discipline-specific enhancements
- Improved ORCID integration
- New default for search ranking (customizable)





SciX is built on the same database and search engine, so no need to learn new search syntax or workflows:

- Type your query
- Filter the results
- Rank, analyze, visualize, refine
- Find citations, software, data products



The CAO/MACA Data Sunta

DESOLIDOES

SOCIAL

DRO JECT

What happens to ADS?

ADS is not going away!

ADS will remain accessible online in its current, familiar format. All links to ADS will remain valid forever



© The SAO/NASA Astrophysics Data System

The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement 80NSSC21M005



lesources	Social	Project
About ADS	🎔 @adsabs	Switch to basic HTML
ADS Help	💷 ADS Blog	Privacy Policy
≎ What's New		Terms of Use
Careers@ADS		Smithsonian Astrophysical Obser
Accessibility		Smithsonian Institution
		NASA

What happens to ADS?

ADS Support will continue

Existing ADS support will continue throughout the transition, ensuring you have the assistance and resources you need whether you stick to ADS "as is" or explore SciX



© The SAO/NASA Astrophysics Data System

The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement 80NSS<u>C21M005</u>



lesources	Social	Project
About ADS	🎔 @adsabs	Switch to basic HTML
ADS Help	💷 ADS Blog	Privacy Policy
⊅ What's New		Terms of Use
Careers@ADS		Smithsonian Astrophysical Observa
Accessibility		Smithsonian Institution
		NASA

What happens to ADS?

Astrophysics remains a key focus

SciX will retain a strong emphasis on astrophysics. New services will continue to be designed for astrophysics, providing models for other disciplines



© The SAO/NASA Astrophysics Data System

The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement 80NSSC21M005



lesources	Social	Project
About ADS	🎔 @adsabs	Switch to basic HTML
ADS Help	💷 ADS Blog	Privacy Policy
\$ What's New		Terms of Use
Careers@ADS		Smithsonian Astrophysical Observ
Accessibility		Smithsonian Institution
		NASA

Why should I use SciX?

New Features will be developed in SciX

The SciX platform is our development focus and the place where new capabilities and new content will be rolled out



WELCOME TO THE SciX Digital Library



Learn more about the SciX digital library and how it can support your scientific research in this welcome video and brief user tutorial from Dr. Stephanie Jarmak.

• • • • • •

The CAOINACA Data Susta

<

DESOURCES

SOCIAL

DPO IFCT

>

Why should I use SciX?

Disciplinary focus in an Interdisciplinary context

We are committed to making sure the transition will increase, not decrease, research productivity and enable interdisciplinary research





Learn more about the SciX digital library and how it can support your scientific research in this welcome video and brief user tutorial from Dr. Stephanie Jarmak.

• • • • • •

The SAOINASA Data Suctor

<

PESOLIPCES

SOCIAL

DPO IFCT

>

Why the NASA Science Explorer?



- Connected to the data
- Linked to the code

Better than the rest...

- Open
- Trustworthy
- Complete
- Innovative
- Interdisciplinary
- Developed by scientists, for scientists





NASA Science Explorer

Accelerating the discovery of NASA Science.

Thank You!

For more information:

https://SciXplorer.org @SciXCommunity

Visit us at booth #315







NASA Science Explorer

Accelerating the discovery of NASA Science.

Artificial Intelligence/Machine Learning Initiatives

- Machine learning datasets
 - Expert curated, publicly available, permissively licensed
- Data enrichment with machine learning pipelines
 - Planetary features
 - Automated keyword labeling
- Data discovery with large language models
 - Experimenting with a new way of searching and synthesizing information

Machine Learning Datasets

- Created for the Workshops for Information Extraction from the Scientific Literature (WIESP, part of AACL-IJCNLP 2022, 2023)
- Manually curated by a domain expert
- Extracted from recent astrophysics articles
- Available via Hugging Face
- Datasets:
 - Detecting Entities in the Astrophysics Literature
 - Named Entity Recognition (NER) dataset
 - Used to identify and disambiguate entities (e.g. missions, organizations)
 - Function Of Citation in the Astrophysics Literature
 - Citation context dataset
 - Used to identify purpose of a citation (e.g. background, motivation)

Data Enrichment Pipelines

Automated identification of features, keywords, or categories

- Planetary feature identification (in production)
- Unified Astronomy Thesaurus keyword, category tagging (in development)

☐ general ∨ Refereed	Planetary Features > Mars >	Crater	× and 40 more
article	Search (case-sensitive)	Count	✓ =j O Claim D = 0
refereed	< Crater		
openaccess	Gale		1k
pubopenaccess	Gusev		787
eprintopenaccess	Jezero		253
adsopenaccess	Holden		97
associated	Eagle		96
notrefereed	Eberswalde		93 (Claim) 🗈 🗮 🗐
Institutions	Uictoria		75 Juber, E.; and 17 more
🗄 > Keywords	Endeavour		62
E > Publications	Hale		57
Eibgroups	🗌 Zunil		57 🕜 Claim
🗄 > Data	Showing 1 to 10 of 324 results	< Prev 1 of 33	Next >
E > Publication Type			

Data Discovery: SciX Brain chatbot

- Large language model (LLM) testbed
- Experimental, restricted access
- Experiments have included:
 - Retrieval augmented generation (RAG): providing additional context via ADS queries or selected fulltext paragraphs
 - Comparison of various open-source LLMs
 - Architectures
 - Grammars
 - Natural language → structured Solr queries

SciX Brain



Come Visit Us at Booth #315!





HARVARD & SMITHSONIAN



Jennifer Lynn Bartlett, Michael Kurtz, and the SciX Team Center for Astrophysics | Harvard & Smithsonian jennifer.bartlett@cfa.harvard.edu

@adsabs

9 Jan 2024 | AAA Mtg 243

CENTER FOR

ASTROPHYSICS

HARVARD & SMITHSONIAN





ja) ads		🗩 Feed	dback -
	QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms	×	
← Start New Search	author:"^van de Kamp, P"	×	٩
	Your search returned 304 results		
Τοο Μι	uch of a Good Thing	↓ . Date -	

✓ AUTHORS			Show highlights Show abs	stracts Hide Sidebars	Go To Bottom
〉 🗆 van de Kamp, P	298	<u> </u>			
> 🗆 Vyssotsky, A	17	1 🗌	2022PreR37806607V	2022/08 cited: 1	
> 🗆 Lippincott, S	10	ΙÚ			mation clastic rocks at Sandy Lake,
> 🗆 Leake, B	5				hering and depositional processes
> Worth, M	4		van de Kamp, P. C.; Jam	nes, R. S.	
	more	2 🗌	2019SedG38679V	2019/05 cited: 4	
✓ COLLECTIONS	more				nical mass balance in supermature klahoma and Kansas, U.S.A.
□ astronomy	283		van de Kamp, Peter C.		
physics	22	3 🗌	2016JSedR86683V	2016/06 cited: 16	
earthscience	17		Potassium Distribution Relation To Postdeposi		s and Schists: How and When,
general	5		van de Kamp, Peter C.		
✓ REFEREED		4 🗌	2010JSedR80895V	2010/10 cited: 32	
C refereed	208		Arkose, Subarkose, Qu Rocks in Glacial to Tro		Auds Derived from Felsic Plutonic
non-refereed	96		van de Kamp, P. C.	 The second state of the second st	
> INSTITUTIONS		5 🗌	2008CCM5666V	2008/02 cited: 76	
> KEYWORDS				e Transformations, Quartz Di	issolution, and Silica Release in
> PUBLICATIONS			Shales van de Kamp, Peter C.		





✓ AUTHORS Show highlights Show abstracts Hide Sidebars	Go To Bottom
> van de Kamp, P 298	
> □ Vyssotsky, A 17 1 □ 2022PreR37806607V 2022/08 cited: 1	
Crigin and Provenance of Archean Keewaywin Formation clastic	
> □ Leake, B 5 NW Ontario, Canada: Constraints on Archean weathering and department	positional processes
Van de Kamp, P. C.; James, R. S.	
2 2019SedG38679V 2019/05 cited: 4	
Provenance, shallow to deep diagenesis, and chemical mass bala arenites and pelites, Ordovician Simpson Group, Oklahoma and H	· · · · · · · · · · · · · · · · · · ·
astronomy 283 van de Kamp, Peter C.	
physics 22 3 2016JSedR86683V 2016/06 cited: 16	
Potassium Distribution and Metasomatism In Pelites and Schists: Relation To Postdepositional Events	How and When,
general 5 van de Kamp, Peter C.	
✓ REFEREED 4 □ 2010JSedR80895V 2010/10 cited: 32	
Arkose, Subarkose, Quartz Sand, and Associated Muds Derived to Rocks in Glacial to Tropical Humid Climates	from Felsic Plutonic
non-refereed 96 van de Kamp, P. C.	
> INSTITUTIONS 5 2008CCM5666V 2008/02 cited: 76	
> KEYWORDS Smectite-Illite-Muscovite Transformations, Quartz Dissolution, and	d Silica Release in
PUBLICATIONS Shales van de Kamp, Peter C.	



	ja) ads	QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms	
	← Start New Search	author:"^van de Kamp, P"	X Q
		Your search returned 283 results	
	Collection × +astronomy	nited to Astronomy	Date -
Filter applied	AUTHORS U van de Kamp, P	82 Show highlights Show abstracts Hide Sidebars	Go To Bottom
	 Vyssotsky, A Lippincott, S Worth, M 	17 1 □ 1988SSRv46380V 1988 10 Book Review: Dark companions of stars. / Reidel, 1986. 4 van de Kamp, P.; Heintze, J. R. W.	
	> Damkoehler, J	3 2 ☐ 1987S&T73283V 1987/03 Book-Review - Dark Companions of Stars - Astrometric Comentary on the Lower the Main Sequence van de Kamp, P.	End of
	astronomy 28	33 3 □ 1986SSRv43211V 1986/04 cited: 19 Image: Second	
	✓ REFEREED	4 □ 1985Ap&SS.110103V 1985/03 cited: 1 Friedrich Wilhelm Bessel 1784, July 22 1846, March 17 van de Kamp, P.	
	 non-refereed INSTITUTIONS KEYWORDS 	¹³ 5 □ 1985lrAJ1775V 1985 Book-Review- Stellar Paths. Photographic Astrometry with long-focus instruments van de Kamp, Peter	1
	> PUBLICATIONS	6 ☐ 1983nssl.conf15V 1983/06 cited: 1 The Fainter End of the Main Sequence van de Kamp, P.	



Second Author Search





Second Author Search 2/3





Second Author Search 3/3





ads	🧩 Feedba	ck •
	GUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms	
← Start New Search	pos(title:"M31",1)	Q
	Your search returned 171 results	
Posit	tion Works Generally	

 Quimby, R 13 Quimby, R 13 Wheeler, J 8 Martin, N 6 Andromeda's Parachute: Time Delays and Hubble Constant Shalyapin, Vyacheslav N.; Goicoechea, Luis J.; Dyrland, Karianne and 1 more Akerlof, C 5 Barmby, P 5 2023MNRAS.521.3527C 2023/05 2023MNRAS.521.3527C 2023/05 2023MNRAS.521.3527C 2023/05 20223MLT.414f78M 2022/12 Andromeda and Friends Manley, Patrick general 4 2022AAS24012038E 2022/06 Escala, Ivanna; Gilbert, Karoline; Fardal, Mark and 4 more non-refereed 112 2022AAS24011308G 2022/06 Escala, Ivanna; Gilbert, Karoline; Fardal, Mark and 4 more Goler, Kenneth; Zasowski, Gali; Boardman, Nicholas KEYWORDS 6 2021MNRAS.50.5688C 2021/08 cited: 29 	✓ AUTHORS		Show highlights Show abstracts Hide Sidebars	Go To Bottom
1 2023ApJ955140S 2023/10 cited: 1 Image: Cited: 1	🔪 🗆 Quimby, R	13		
> Martin, N 6 Andromeda's Parachute: Time Delays and Hubble Constant > Akerlof, C 5 Shalyapin, Vyacheslav N.; Goicoechea, Luis J.; Dyrland, Karianne and 1 more > Barmby, P 5 2 2023/NNRAS.521.3527C 2023/05 Imore More Andromeda XXV - a dwarf galaxy with a low central dark matter density Charles, Emily J. E.; Collins, Michelle L. M.; Rich, R. Michael and 7 more ✓ COLLECTIONS 3 2022S&T144f78M 2022/12 Imore astronomy 163 Andromeda and Friends physics 10 Manley, Patrick general 4 2022AAS24012308E 2022/06 earthscience 2 Andromeda as a Stepping Stone to the Local Volume: Chemodynamics of Extragalactic Tidal Shells more-refereed 112 5 2022AAS24011308G 2022/06 refereed 59 Andromeda Analogs: Analyzing the Milky Way's Strange Neighbor Image: Strange Neighbor instritutions Goler, Kenneth; Zasowski, Gail; Boardman, Nicholas Image: Strange Neighbor Image: Strange Neighbor > KEYWORDS 6 2021MNRAS.505.5686C 2021/08 cited: 29 Image: Strange Neighbor <td>> 🗆 Wheeler, J</td> <td>8</td> <td>1 □ 2023Ap.L 955 140S 2023/10 cited: 1 🖹 🏣 🛢</td> <td></td>	> 🗆 Wheeler, J	8	1 □ 2023Ap.L 955 140S 2023/10 cited: 1 🖹 🏣 🛢	
 Barmby, P Barmby, P COLLECTIONS astronomy 163 2022S&T144f78M 2022/12 Charles, Emily J. E.; Collins, Michelle L. M.; Rich, R. Michael and 7 more Collections astronomy 163 2022S&T144f78M 2022/12 Collections Andromeda and Friends Manley, Patrick General 4 2022AAS24012308E 2022/06 E Collections C	🔪 🗆 Martin, N	6		
more Andromeda XXV - a dwarf galaxy with a low central dark matter density Charles, Emily J. E.; Collins, Michelle L. M.; Rich, R. Michael and 7 more	> 🗆 Akerlof, C	5	Shalyapin, Vyacheslav N.; Goicoechea, Luis J.; Dyrland, Karianne and 1 more	
Collections astronomy 163 astronomy 163 physics 10 general 4 2022AS24012308E 2022/06 Image: Strange Neighbor 10 refereed 5 2022AS24011308G 2022/06 Image: Strange Neighbor Coler, Kenneth; Zasowski, Gail; Boardman, Nicholas KEYWORDS	> 🗆 Barmby, P	5	2 □ 2023MNRAS.521.3527C 2023/05	
3 2022\$xt144f78M 2022/12 astronomy 163 physics 10 general 4 2022AAS24012308E 2022/06 earthscience 2 Andromeda as a Stepping Stone to the Local Volume: Chemodynamics of Extragalactic Tidal Shells Escala, Ivanna; Gilbert, Karoline; Fardal, Mark and 4 more non-refereed 112 c refereed 59 Andromeda Analogs: Analyzing the Milky Way's Strange Neighbor Goler, Kenneth; Zasowski, Gail; Boardman, Nicholas KEYWORDS 6		more		
□ astronomy 163 Andromeda and Friends □ physics 10 Manley, Patrick □ general 4 2022AAS24012308E 2022/06 □ earthscience 2 Andromeda as a Stepping Stone to the Local Volume: Chemodynamics of Extragalactic Tidal Shells ▶ REFEREED Escala, Ivanna; Gilbert, Karoline; Fardal, Mark and 4 more □ non-refereed 112 □ refereed 5 10 2022AAS24011308G 2022/06 Image: Comparison of Extragalactic Tidal Shells □ non-refereed 5 112 5 2022AAS24011308G 2022/06 □ refereed 59 Andromeda Analogs: Analyzing the Milky Way's Strange Neighbor □ Goler, Kenneth; Zasowski, Gail; Boardman, Nicholas > KEYWORDS 6	✓ COLLECTIONS		2 □ 2022S&T 144f 78M 2022/12	
□ general 4 2022AAS24012308E 2022/06 □	□ astronomy	163		
□ earthscience 2 Andromeda as a Stepping Stone to the Local Volume: Chemodynamics of Extragalactic Tidal Shells ▶ REFEREED □ non-refereed 112 □ 5 □ 2022AAS24011308G 2022/06 □ □ □ □ □ □ □ refereed 59 Andromeda Analogs: Analyzing the Milky Way's Strange Neighbor □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ > INSTITUTIONS □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ > KEYWORDS □ □ □ □ □ □ □	□ physics	10	Manley, Patrick	
Image: Second	□ general	4	4 🖸 2022AAS24012308E 2022/06	
Image: Big in the	earthscience	2		igalactic
INSTITUTIONS 6 2021MNRAS.505.5686C 2021/08 E E KEYWORDS 6 2021MNRAS.505.5686C 2021/08 cited: 29 E E	✓ REFEREED		Escala, Ivanna; Gilbert, Karoline; Fardal, Mark and 4 more	
> INSTITUTIONS Goler, Kenneth; Zasowski, Gail; Boardman, Nicholas > KEYWORDS 6 □ 2021MNRAS.505.5686C 2021/08 cited: 29	non-refereed	112	5 🖸 2022AAS24011308G 2022/06	r Contraction
KEYWORDS 6 □ 2021MNRAS.505.5686C 2021/08 cited: 29 E III E	□ refereed	59	Andromeda Analogs: Analyzing the Milky Way's Strange Neighbor	
/ RETWORDS	> INSTITUTIONS		Goler, Kenneth; Zasowski, Gail; Boardman, Nicholas	
Andromeda XXI - a dwarf galaxy in a low-density dark matter halo	> KEYWORDS		6 □ 2021MNRAS.505.5686C 2021/08 cited: 29	
s://ui.adsabs.harvard.edu/#abs/20225%261144f78M/abstract collins, Michelle L. M.; Read, Justin I.; Ibata, Rodrigo A. and 6 more		_	Andromeda XXI - a dwarf galaxy in a low-density dark matter halo	

Resources

Contact Us

adshelp@cfa.harvard.edu jennifer.bartlett@cfa.harvard.edu

