

Discovering and Accessing Scientific Literature and Data with the Science Explorer (SciX)

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Harvard & Smithsonian | Center for Astrophysics

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FDLP Academy Webinar

Feb 19 2025

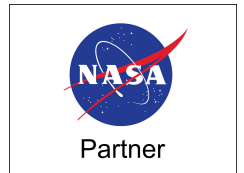


SciX



astrophysics
data system

CENTER FOR
ASTROPHYSICS
HARVARD & SMITHSONIAN



What is Science Explorer (SciX)?

- Open, literature-based digital information system
- Covers & unifies
 - Astrophysics
 - Heliophysics
 - Planetary Science
 - Earth Science
 - NASA-funded Biological & Physical Sciences
- Launched December 2023

The screenshot shows the Science Explorer (SciX) website. At the top, there is a navigation bar with the SciX logo, a dropdown menu for "General Science", and links for "Feedback", "ORCID", "About", "Help", and "Account". Below the navigation bar is a search bar with a "QUICK FIELD:" dropdown menu containing options like "author", "first author", "abstract", "year", "fulltext", and "all search terms". The main content area features a section titled "EXPLORE ACROSS Science Focus Areas" with a carousel of five images representing different scientific fields. Below the carousel, a text block states: "SciX covers and unifies the fields of Earth Science, Planetary Science, Astrophysics, and Heliophysics. It will also cover NASA funded research in Biological and Physical Sciences." The footer contains information about the SAO Astrophysics Data System, resources for users, social media links, and project details.

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help@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 80NSSC21M0056.

RESOURCES
About SciX
Give Feedback
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Careers@SciX
Accessibility
NASA Science Discovery Engine

SOCIAL
@scixcommunity
SciX Blog

PROJECT
Privacy Policy
Terms of Use
Smithsonian Astrophysical Observatory
Smithsonian Institution
NASA

ENTER FOR ASTROPHYSICS
NASA

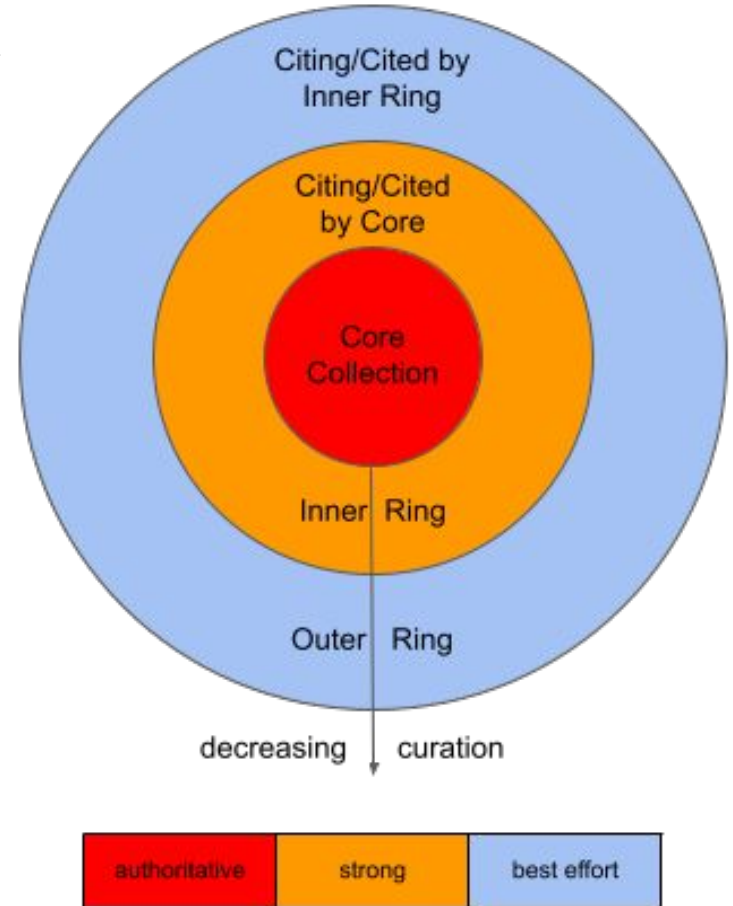
The material contained in this document is based upon work supported by a National Aeronautics and Space Administration (NASA) grant or cooperative agreement. Any opinions, findings, conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of NASA.

<https://SciXplorer.org>

Science Explorer (SciX) Content

For each discipline, research is aggregated, connected, and indexed

- Authoritative/complete for core journals
- Strong effort to index papers directly tied to core collection
- Best effort to index papers indirectly tied to core collection



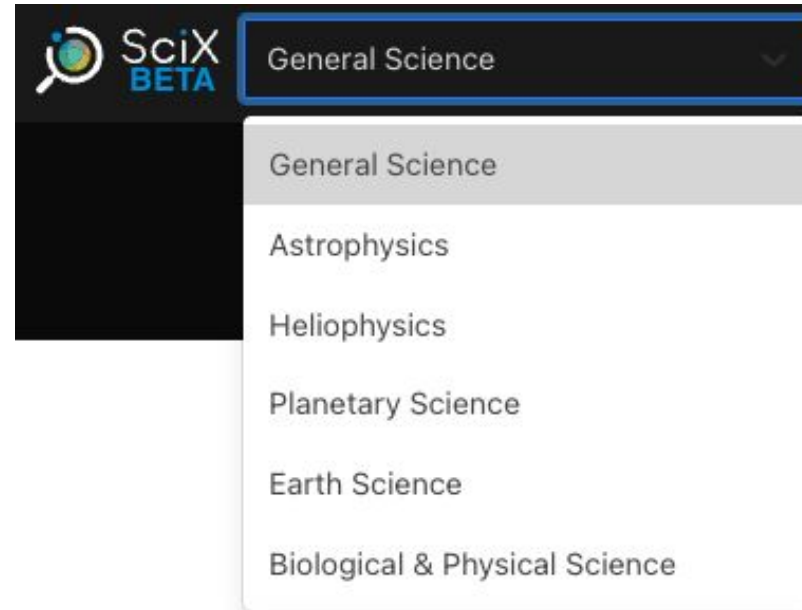
<https://SciXplorer.org>

Science Explorer (SciX) Disciplinary Interfaces

Each discipline

- has a customized interface to the multidisciplinary content
- can use familiar keywords, language, and conventions

Every search accesses the full multidisciplinary library

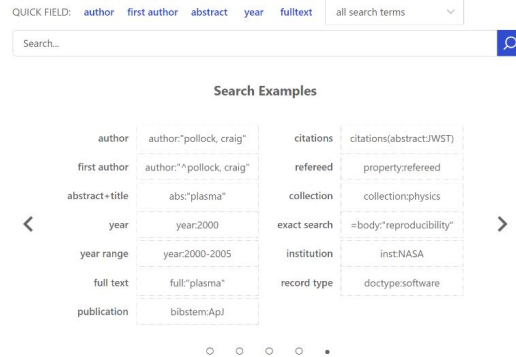


<https://SciXplorer.org>

What can SciX do?



- Search the scientific literature via
 - Topics
 - Objects
 - People
 - Organizations
- Ask for papers that are
 - Similar
 - Trending
 - Useful
 - Reviews



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help[at]scixplorer.org

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 NASA
Partner

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RESOURCES
About SciX
Give Feedback
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NASA Science Discovery Engine

SOCIAL
@scixcommunity
SciX Blog

PROJECT
Privacy Policy
Terms of Use
Smithsonian Astrophysical Observatory
Smithsonian Institution
NASA

<https://SciXplorer.org>

Results!

Then what?

- Look interesting?
- Keep exploring!
 - OA versions
 - Citations
 - References
 - Similar papers
 - Software
 - Datasets
 - Metrics

<https://SciXplorer.org>

SciX BETA General Science

Feedback ORCID About Account

< Back to Results

- Abstract
- Citations
- References
- Co-Reads
- Similar Papers
- Volume Content
- Graphics
- Metrics
- Export Citation

Forming Relic Cratered Blocks: Left Lateral Shear on Enceladus Inferred From Ice Shell Deformation in the Leading Hemisphere

Leonard, E. J. ; Yin, A. ; Pappalardo, R. T. [show list](#)

Full Text Sources Other Resources

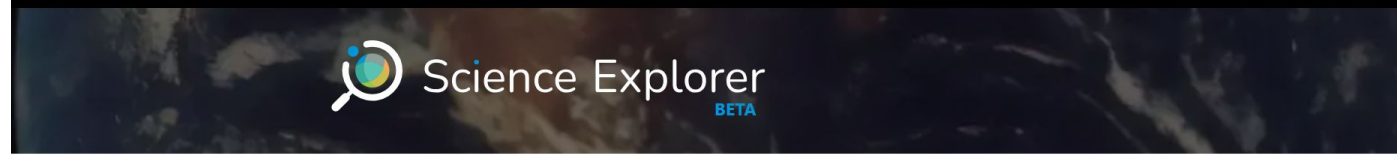
Data Products
PDS
USGS

The Leading Hemisphere of Enceladus has experienced distributed deformation expressed by the pervasive development of long ductile strike slip shear zones and sparsely distributed craters. Within the zone of strike slip shear, the ice shell has formed semirigid blocks up to 10–20 km in size with surfaces dominated by impact craters. The ice shell blocks display ductile drag folds and smeared tails of rigid fragments, which are associated with ductile strike slip shear. Kinematic analysis requires the development of the LHT to have been driven mainly by toroidal flow of the ice shell material. Additionally, the structural mapping quantifies the shear strain magnitude (2.8) and minimum strain rate (10^{-17} s^{-1}). If the observed deformation induced by tidal stress, the estimated ice shell deformation requires a high heat flux ($\sim 0.13 \text{ W/m}^2$) and a thin brittle layer ($\sim 4 \text{ km}$) during the development of the LHT. However, the observed deformation may have formed under high stresses, exceeding 1 MPa and a heat flux similar to the current background observed today.

Publication	Journal of Geophysical Research: Planets, Volume 126, Issue 2, article id. e06499
Publication Date	2021-02-00
DOI	10.1029/2020JE006499
Bibcode	2021JGRE..12606499L
Keyword(s)	Enceladus icy satellites planetary science tectonics

Feedback/Corrections?

First Author Search



QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^"

- entdate
- first author**
- fulltext
- identifier
- institution
- keyword
- object
- orcid
- page
- property
- publication full name

first author

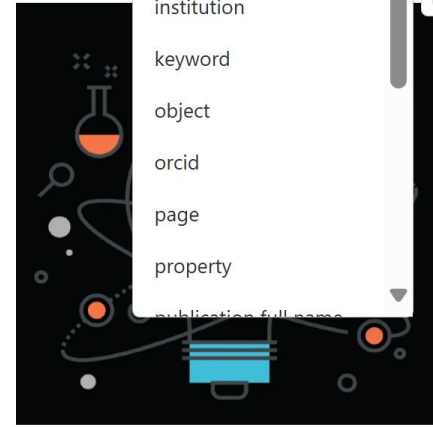
Search by first author of the paper

Syntax:
`author:"^Last, F"`

Example:
`author:"^huchna, j"`

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.



Hover over term in drop down menu for help



Too Much of a Good Thing

Original request

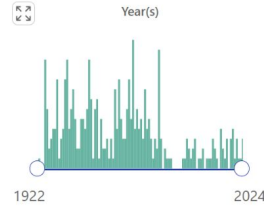
QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

350 results returned

author:"^van de Kamp"

Your search returned 350 results

Filters ✕



Author

- van de Kamp, P 299 >
- van de Kamp, M 26 >
- Vyssotsky, A 17 >
- Lippincott, S 10 >
- van de Kamp, T 6 >
- Leake, B 5 >
- Baumbach, T 4 >
- Riedel, A 4 >
- Salonen, E 4 >
- Tervonen, J 4 >

Collections

- astronomy 289
- physics 51
- earthscience 38
- general 12

Refereed

- refereed 244
- notrefereed 106

Institutions

Keywords

Relevance ⌵ ⌵

Bulk Actions ⌵ Explore ⌵

Sort order, relevance by default

- Principles of astrometry**
Van De Kamp, Peter; [show details](#)
1967/00 · San Francisco: Freeman · cited: 123
- Astrometric study of Barnard's star from pl**
van de Kamp, P; [show details](#)
1963/09 · The Astronomical Journal · cited: 75
- Alternate dynamical analysis of Barnard's star.**
van de Kamp, P; [show details](#)
1969/08 · The Astronomical Journal · cited: 42
- The Nearby Stars**
van de Kamp, Peter; [show details](#)
1971/00 · Annual Review of Astronomy and Astrophysics · cited: 88
- Quantum gravity witness via entanglement of masses: Casimir screening**
van de Kamp, Thomas W.; Marshman, Ryan J.; Bose, Sougato; Mazumdar, Anupam; [show details](#)
2020/12 · Physical Review A · cited: 84
- Smectite-illite-Muscovite Transformations, Quartz Dissolution, and Silica Release in Shales**
van de Kamp, Peter C.; [show details](#)
2008/02 · Clays and Clay Minerals · cited: 84
- Unseen astrometric companions of stars.**
van de Kamp, P; [show details](#)
1975/00 · Annual Review of Astronomy and Astrophysics · cited: 47
- A model providing long-term data sets of energetic electron precipitation during geomagnetic storms**
van de Kamp, M.; Seppälä, A.; Ciliverd, M. A.; Rodger, C. J.; Verronen, P. T.; Whittaker, I. C.; [show details](#)
2016/10 · Journal of Geophysical Research (Atmospheres) · cited: 62

Sorting Your Results

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^van de Kamp"
Your search returned 350 results

Filters

Year(s)

1922 2024

Author

- van de Kamp, P 299 >
- van de Kamp, M 26 >
- Vysotsky, A 17 >
- Spinncott, S 10 >
- van de Kamp, T 6 >
- ... 5 >
- ... 4 >
- Riedel, A 4 >
- Salonen, E 4 >
- Tervonen, J 4 >

Collections

- astronomy 289
- physics 51
- earthscience 38
- general 12

Refereed

- refereed 244
- notrefereed 106

Institutions

Relevance

- Relevance
- Date
- Author Count
- Citation Count
- Entry Date
- First Author
- Normalized Citation Count
- Read Count

Bulk Actions **Explore**

4 [The Nearby Stars](#)
van de Kamp, Peter; [show details](#)
1971/00 · Annual Review of Astronomy and Astrophysics · cited: 123

5 [Quantum gravity witness via entanglement of maser stars](#)
van de Kamp, Thomas W.; Marshman, Ryan J.; Bose, Sougato; ...
2020/12 · Physical Review A · cited: 84

6 [Smectite-Illite-Muscovite Transformations, Quartz Dissolution, and Silica Release in Shales](#)
van de Kamp, Peter C.; [show details](#)
2008/02 · Clays and Clay Minerals · cited: 84

7 [Unseen astrometric companions of stars.](#)
van de Kamp, P.; [show details](#)
1975/00 · Annual Review of Astronomy and Astrophysics · cited: 47

8 [A model providing long-term data sets of energetic electron precipitation during geomagnetic storms](#)
van de Kamp, M.; Seppälä, A.; Clilverd, M. A.; Rodger, C. J.; Verronen, P. T.; Whittaker, I. C.; [show details](#)

Reverse the order for a particular criterion

SciX Default: Relevance

ADS Default: Date, most recent first

Refine by Name

<https://SciXplorer.org>

Variants on the requested “van de Kamp” name among the results

Other authors who contributed to the papers among the results

Limit or Exclude options

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^van de Kamp"

Your search returned 350 results

Filters ✕

1922 2024

Author

- van de Kamp, P 299
- van de Kamp, Peter 153
- van de Kamp, P 128
- van de Kamp, Peter C 9
- van de Kamp, P C 5
- van de Kamp, Piet 3
- van de Kamp, Peter... 1
- van de Kamp, M 26 >
- Vyssotsky, A 17 >
- Lippincott, S 10 >
- van de Kamp, T 6 >
- Leake, B 5 >
- Baumbach, T 4 >
- Riedel, A 4 >
- Salonen, E 4 >
- Tervonen, J 4 >

limit to exclude

Collections

- astronomy 289
- physics 51
- earthscience 38

Relevance

Bulk Actions Explore

- Principles of astrometry**
Van De Kamp, Peter; [show details](#)
1967/00 · San Francisco: Freeman · cited: 123
- Astrometric study of Barnard's star from plates taken with the 24-inch Sproul refractor.**
van de Kamp, P.; [show details](#)
1963/09 · The Astronomical Journal · cited: 75
- Alternate dynamical analysis of Barnard's star.**
van de Kamp, P.; [show details](#)
1969/08 · The Astronomical Journal · cited: 42
- The Nearby Stars**
van de Kamp, Peter; [show details](#)
1971/00 · Annual Review of Astronomy and Astrophysics · cited: 88
- Quantum gravity witness via entanglement of masses: Casimir screening**
van de Kamp, Thomas W.; Marshman, Ryan J.; Bose, Sougato; Mazumdar, Anupam; [show details](#)
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van de Kamp, Peter C.; [show details](#)
2008/02 · Clays and Clay Minerals · cited: 84
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2016/10 · Journal of Geophysical Research (Atmospheres) · cited: 62

Only consider refereed papers

Limit your search to refereed or nonrefereed articles.

<https://SciXplorer.org>

The screenshot displays the SciXplorer.org search interface. At the top, there is a navigation bar with 'Feedback', 'ORCID', and 'About' links. Below this, a search bar contains the query 'author:"^van de Kamp"'. The search results indicate 306 items returned. A filter bar shows 'author: van de Kamp, P' is active. A 'Filters' sidebar on the left includes a bar chart for 'Year(s)' from 1922 to 2024 and a list of filter categories: Author, Collections, Refereed (with sub-options for 'refereed' and 'notrefereed'), Institutions, Keywords, Publications, Bibgroups, Data, Publication Type, and Planetary Features. The main results area shows a list of six articles, each with a checkbox, title, author, journal, and citation count. A 'Feedback' dropdown menu is open in the top right corner, listing options: 'Missing/Incorrect Record', 'Missing References', 'Associated Articles', and 'General Feedback'. A callout box points to this menu with the text 'Feedback menu, including options for submitting missing articles'.

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^van de Kamp"

Your search returned **306** results

author: van de Kamp, P

[Remove all filters](#)

Filters

Year(s)

1922 2024

- > Author
- > Collections
- > Refereed
 - refereed 209
 - notrefereed 97
- > Institutions
- > Keywords
- > Publications
- > Bibgroups
- > Data
- > Publication Type
- > Planetary Features

Show hidden filters (3) >

Relevance

- [Principles of astrometry](#)
Van De Kamp, Peter; [show details](#)
1967/00 · San Francisco: Freeman · cited: 123
- [Astrometric study of Barnard's star from plates taken with the 24-inch Sproul refractor.](#)
van de Kamp, P.; [show details](#)
1963/09 · The Astronomical Journal · cited: 75
- [Alternate dynamical analysis of Barnard's star.](#)
van de Kamp, P.; [show details](#)
1969/08 · The Astronomical Journal · cited: 42
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2008/02 · Clays and Clay Minerals · cited: 84
- [Unseen astrometric companions of stars.](#)
van de Kamp, P.; [show details](#)
1975/00 · Annual Review of Astronomy and Astrophysics · cited: 47

Feedback ORCID About

- Missing/Incorrect Record
- Missing References
- Associated Articles
- General Feedback

Feedback menu, including options for submitting missing articles

Bulk Actions Explore

Limit by publication year

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fullt](#)

author:"^van de Kamp"

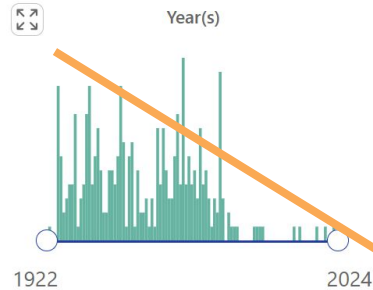
Your search returned **306** results

author: van de Kamp, P ×

[Remove all filters](#)

Earlier filter applied

Filters



Author

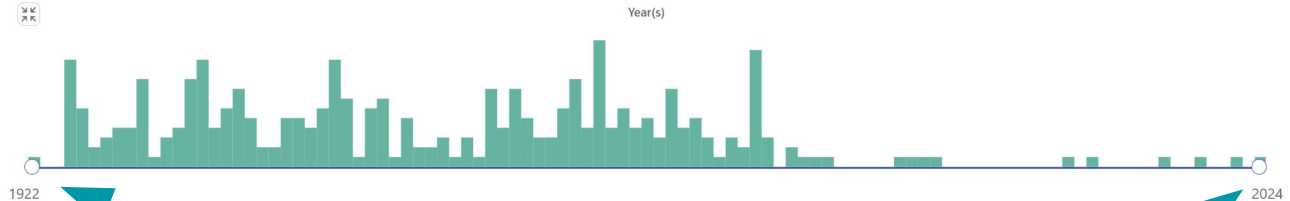
van de Kamp, P 299 >

Relevance

1 Princip Van De I 1967/00

author: van de Kamp, P ×

[Remove all filters](#)



Move these dots to adjust the time limits

Results View

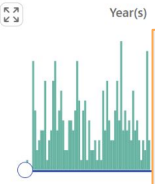
<https://SciXplorer.org>

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^van de Kamp"
Your search returned 350 results

Filters

Year(s)



3 Cited 42 times

van de Kamp, P.; [show details](#)
1963/09 · The Astronomical Journal · cited: 75

van de Kamp, P.; [show details](#)
1969/08 · The Astronomical Journal · cited: 42

van de Kamp, M.; [show details](#)
1975/00 · Annual Review of Astronomy and Astrophysics · cited: 47

van de Kamp, Thomas W.; Marshman, Ryan J.; Bose, Sougato; Mazumdar, Arpan; [show details](#)
2020/12 · Physical Review A · cited: 84

van de Kamp, Peter C.; [show details](#)
2008/02 · Clays and Clay Minerals · cited: 84

van de Kamp, P.; [show details](#)
1975/00 · Annual Review of Astronomy and Astrophysics · cited: 47

van de Kamp, M.; Seppälä, A.; Ciliverd, M. A.; Rodger, C. J.; Verronen, P. T.; Whittaker, I. C.; [show details](#)
2016/10 · Journal of Geophysical Research (Atmospheres) · cited: 62

van de Kamp, M.; 26 >
Vyssotsky, A; 17 >
Lippincott, S; 10 >
van de Kamp, T; 6 >
Leake, B; 5 >
Baumbach, T; 4 >
Riedel, A; 4 >
Salonen, E; 4 >
Tervonen, J; 4 >

limit to exclude

Collections

- astronomy 289
- physics 51
- earthscience 38

3

Basic bibliographic information:
title, author list,
publication date, journal

Cited 42 times

Resources available: full-text, references or citations, and data

Results View

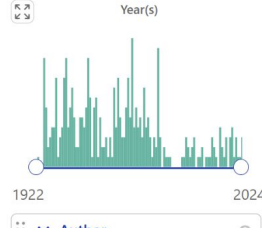
<https://SciXplorer.org>

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^van de Kamp"

Your search returned 350 results

Filters



Relevance

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1967/00 · San Francisco: Freeman · cited: 123
- [Astrometric study of Barnard's star from plates taken with the 24-inch Sproul refractor.](#)
van de Kamp, P.; [show details](#)
1963/09 · The Astronomical Journal · cited: 75

3

Alternate dynamical analysis of Barnard's star.

van de Kamp, P.; [show details](#)

1969/08 · The Astronomical Journal · cited: 42

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- Leake, B 5 >
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- Salonen, E 4 >
- Tervonen, J 4 >

☰ Collections

- astronomy 289
- physics 51
- earthscience 38

1971/00 · Annual Review of Astronomy and Astrophysics · cited: 60

[Classes: Casimir screening](#)
Sougato, Mazumdar, Anupam; [show details](#)

[ADS PDF](#)

[ADS Scanned Article](#)

[Citations \(42\)](#)

[References \(2\)](#)

[SIMBAD](#)

[Unseen astrometric companions of stars.](#)
van de Kamp, P.; [show details](#)
1975/00 · Annual Review of Astronomy and Astrophysics · cited: 47

[A model providing long-term data sets of energetic electron precipitation during geomagnetic storms](#)
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Results View

<https://SciXplorer.org>

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

author:"^van de Kamp"
Your search returned 350 results

Filters

1922 2024

Author

- van de Kamp, P 299
- van de Kamp, Peter 153
- van de Kamp, P 128
- van de Kamp, Peter C 9
- van de Kamp, P C 5
- van de Kamp, Piet 3
- van de Kamp, Peter... 1

Relevance

Search authors

	NAME	ORCID	AFFILIATION
1	van de Kamp, Thomas W.		University of Groningen P.O. Box 72, 9700 Groningen, The Netherlands
2	Marshman, Ryan J.		Department of Physics and Astronomy, University College London, Gower Street, WC1E 6BT London, United Kingdom
3	Bose, Sougato		Department of Physics and Astronomy, University College London, Gower Street, WC1E 6BT London, United Kingdom
4	Mazumdar, Anupam		Van Swinderen Institute, University of Groningen, 9747 AG Groningen, The Netherlands




The Nearby Stars
van de Kamp, Peter; [show details](#)
1971/00 - Annual Review of Astronomy and Astrophysics - cited: 88

5

Quantum gravity witness via entanglement of masses: Casimir screening

van de Kamp, Thomas W.; Marshman, Ryan J.; Bose, Sougato; Mazumdar, Anupam; [show details](#)

2020/12 · Physical Review A · [cited: 84](#)



Saionen, E 4 2008/02 · Clays and Clay Minerals · [cited: 84](#)

Tervonen, J

[limit to](#) [exclude](#)

Collections

- astronomy
- physics
- earthscience

Publisher Article

Preprint PDF

Preprint Article

[show details](#)

Research (Atmospheres) · [cited: 62](#)

Datasets available

12

Interannual variability in global biomass burning emissions from 1997 to 2004

van der Werf, G. R.; Randerson, J. T.; Giglio, L.; Collatz, G. J.; Kasibhatla, P. S.; Arellano, A. F., Jr.; [show details](#)

2006/08 · Atmospheric Chemistry & Physics · cited: 1137



ORNL.DAAC

The screenshot shows the ORNL DAAC website interface. At the top, there is a navigation bar with the ORNL DAAC logo and the NASA logo. Below the navigation bar is a search bar with the text "Search ORNL DAAC" and a green search button. The main content area features a breadcrumb trail: "DAAC Home > Get Data > NASA Projects > Net Primary Productivity (NPP) > Landing page". The title of the dataset is "NPP Multi-Biome: Gridded Estimates for Selected Regions Worldwide, 1954-1998, R3". Under the "Overview" section, there is a table with the following information:

DOI	https://doi.org/10.3334/ORNLDAAC/614
Version	4
Project	NPP
Published	2013-08-29
Usage	1179 downloads
Citations	18 publications cited this dataset

Below the table, there are two buttons: "Download Data" (540.4 KB) and "User Guide". To the right of the table is a world map showing the spatial coverage of the dataset, with a red bounding rectangle over the Americas. Below the map, the "Spatial Coverage" section provides the bounding rectangle coordinates: N: 63.75, S: -33.75, E: 152.75, W: -122.25. The "Temporal Coverage" section shows the date range: 1954-01-01 to 1998-12-31. The "Description" section at the bottom explains that the dataset provides two data files (.csv format) containing gridded (0.5-degree) estimates of net primary productivity (NPP), elevation, temperature, precipitation, NDVI, and biome type for selected terrestrial regions of the world. The field data used to develop NPP estimates came from 15 worldwide data sources in several different biomes covering the period 1954-1998. NPP values were developed from natural resource field inventories (e.g., forest, rangeland, crop) at different scales, from plot to county; from data compiled from published literature and high resolution maps; from simulation models using key independent variables; from regression analyses with environmental variables; and by using relationships between remotely-sensed spectral vegetation indices and field observations. The first file,

<https://SciXplorer.org>

Abstract View

[Back to Results](#)

- Full Text Sources
 - ADS
 - My Institution
 - Publisher
- Data Products
- Related Materials
- Abstracts
- References (55)
- Co-Reads
- Similar Papers
- Volume Content
- Graphics
- Metrics
- Export Citation

Unseen astrometric companions of stars.

van de Kamp, P. [show details](#)



Available information is collected on unseen stellar companions that have been revealed either as unresolved astrometric binaries found and studied from perturbations in the proper motion of a star previously considered single or as an irregularity in the orbital motion of a visual double star. Techniques and instruments used in long-focus photographic astrometry are described, well-established stellar perturbations are tabulated, and equations are presented for analyzing data on resolved as well as unresolved binaries. Methods are outlined for analyzing the dynamic and geometric elements of perturbations, and individual results are discussed for unseen companions investigated by long-focus photographic astrometry. These include the companions of BD +66 deg 34 A, mu Cas, epsilon Eri, Ross 614, alpha Oph, and Barnard's star.

Title and author list

Yup, actual abstract

Publication	In: Annual review of astronomy and astrophysics. Volume 13. (A76-10076 01-88) Palo Alto, Calif., Annual Reviews, Inc., 1975, p. 295-333. NSF-supported research.
Publication Date	1975-00-00
DOI	10.1146/annurev.aa.13.090175.001455
Bibcode	1975ARA&A..13..295V
Keywords	Astrometry Astronomical Photography Binary Stars Companion Stars Stellar Motions Celestial Mechanics Doppler Effect Orbit Perturbation Parallax Space Density Spectrometers Stellar Luminosity Stellar Mass Astronomy

Detailed bibliographic information

DOI for full article


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Unseen astrometric companions of stars.

van de Kamp, P. [show details](#)



Available information is collected on unseen stellar companions that have been revealed either as unresolved astrometric binaries found and studied from perturbations in the proper motion of a star previously considered single or as an irregularity in the orbital motion of a visual double star. Techniques and instruments used in long-focus photographic astrometry are described, well-established stellar perturbations are tabulated, and equations are presented for analyzing data on resolved as well as unresolved binaries. Methods are outlined for analyzing the dynamic and geometric elements of perturbations, and individual results are discussed for unseen companions investigated by long-focus photographic astrometry. These include the companions of BD +66 deg 34 A, mu Cas, epsilon Eri, Ross 614, alpha Oph, and Barnard's star.

Publication	In: Annual review of astronomy and astrophysics. Volume 13. (A76-10076 01-88) Palo Alto, Calif., Annual Reviews, Inc., 1975, p. 295-333. NSF-supported research.
Publication Date	1975-00-00
DOI	10.1146/annurev.aa.13.090175.001455 
Bibcode	1975ARA&A..13..295V 
Keywords	Astrometry Astronomical Photography Binary Stars Companion Stars Stellar Motions Celestial Mechanics Doppler Effect Orbit Perturbation Parallax Space Density Spectrometers Stellar Luminosity Stellar Mass Astronomy

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Papers that cite Unseen astrometric companions of stars.




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- [A Sun-like star orbiting a black hole](#)**   




El-Badry, Kareem; Rix, Hans-Walter; Quataert, Eliot; Howard, Andrew W.; Isaacson, Howard; Fuller, Jim; Hawkins, Keith; Breivik, Katelyn; Wong, Kaze W. K.; Rodriguez, Antonio C.; [and 11 more](#)

2023/01 · Monthly Notices of the Royal Astronomical Society · cited: 110
- [Gaia's binary star renaissance](#)**   




El-Badry, Kareem; [show details](#)

2024/06 · New Astronomy Reviews · cited: 15
- [Stellar Multiplicity](#)**   




Duchêne, Gaspard; Kraus, Adam; [show details](#)

2013/08 · Annual Review of Astronomy and Astrophysics · cited: 1106
- [Unresolved stellar companions with Gaia DR2 astrometry](#)**   




Belokurov, Vasily; Penoyre, Zephyr; Oh, Semyeong; Iorio, Giuliano; Hodgkin, Simon; Evans, N. Wyn; Everall, Andrew; Koposov, Sergey E.; Tout, Christopher A.; Izzard, Robert; [and 2 more](#)

2020/08 · Monthly Notices of the Royal Astronomical Society · cited: 272
- [Triage of the Gaia DR3 astrometric orbits - I. A sample of binaries with probable compact companions](#)**   




Shahaf, S.; Bashi, D.; Mazeh, T.; Faigler, S.; Arenou, F.; El-Badry, K.; Rix, H. W.; [show details](#)

2023/01 · Monthly Notices of the Royal Astronomical Society · cited: 37
- [The Solar Neighborhood. XLV. The Stellar Multiplicity Rate of M Dwarfs Within 25 pc](#)**   

Winters, Jennifer G.; Henry, Todd J.; Jao, Wei-Chun; Subasavage, John P.; Chatelain, Joseph P.; Slatten, Ken; Riedel, Adric R.; Silverstein, Michele L.; Payne, Matthew J.; [show details](#)

2019/06 · The Astronomical Journal · cited: 152
- [Detecting Detached Black Hole binaries through Photometric Variability](#)**   

Chawla, Chirag; Chatterjee, Sourav; Shah, Neev; Breivik, Katelyn; [show details](#)

2023/10 · arXiv e-prints · cited: 3
- [Determining the true mass of radial-velocity exoplanets with Gaia. Nine planet candidates in the brown dwarf or stellar regime and 27 confirmed planets](#)**   






Kiefer, F.; Hébrard, G.; Lecavelier des Etangs, A.; Martioli, E.; Dalal, S.; Vidal-Madjar, A.; [show details](#)

2021/01 · Astronomy and Astrophysics · cited: 25

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Metrics for Unseen astrometric companions of stars.



Citations

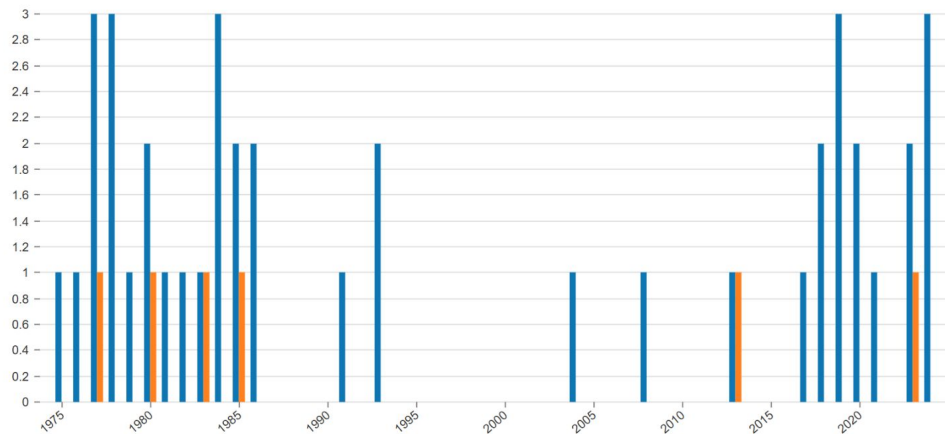
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Refereed citations		41
Normalized refereed citations		41

Total Normalized

Stacked Grouped







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 Citations from non ref. papers



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```
TY - JOUR
TI - Unseen astrometric companions of stars.
AU - van de Kamp, P.
AD - AA(Swarthmore College, Department of Physics and
Astronomy)
JO - Annual Review of Astronomy and Astrophysics
VL - 13
Y1 - 1975/01/1
SP - 295
EP - 333
KW - Astrometry
KW - Astronomical Photography
KW - Binary Stars
KW - Companion Stars
KW - Stellar Motions
KW - Celestial Mechanics
KW - Doppler Effect
KW - Orbit Perturbation
KW - Parallax
KW - Space Density
KW - Spectrometers
```

Position: Second Author Search

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

Your search returned 12 results

Filters

Relevance

Bulk Actions

1 [Hump-shaped \$^{40}\text{Ar}/^{39}\text{Ar}\$ age spectra in K-feldspar and evidence for Cretaceous authigenesis in the Fountain Formation near Eldorado Springs, Colorado](#)

Warnock, Andrew C.; van de Kamp, Peter C.; [show details](#)
1999/12 · Earth and Planetary Science Letters · cited: 11

The image shows a search interface with a search bar containing the query `pos(author:"van de Kamp, P", 2)`. A callout box labeled "Position to search" points to the entire query. Another callout box labeled "Position operator" points to the `pos` part of the query. The interface includes a "QUICK FIELD" section with options like "author", "first author", "abstract", "year", and "fulltext". Below the search bar, it says "Your search returned 12 results". There is a "Filters" section with a bar chart and a "Relevance" dropdown menu. The search results list includes a paper titled "Hump-shaped $^{40}\text{Ar}/^{39}\text{Ar}$ age spectra in K-feldspar and evidence for Cretaceous authigenesis in the Fountain Formation near Eldorado Springs, Colorado" by Warnock, Andrew C.; van de Kamp, Peter C.

Position: Second or Third Author Search

Position operator

QUICK FIELD: **author** first-author abstract year **fulltext** all search terms

pos(author:"Shoemaker, Carolyn", 2, 3)

Your search returned 7 results

author: Shoemaker, Carolyn S

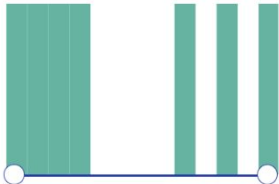
Remove all filters

Beginning and end of range to search

Filters



Year(s)



1987

1999

Author

Date



Bulk Actions

Explore

1

The Role of Collisions

Shoemaker, Eugene M.; Shoemaker, Carolyn S.; [show details](#)

1999/00 · The New Solar System · cited: 2

2

Dynamical evolution of Jupiter's Trojan asteroids

Levison, Harold F.; Shoemaker, Eugene M.; Shoemaker, Carolyn S.; [show details](#)

1997/01 · Nature · cited: 130

Position: Last Author Search

Position operator

QUICK FIELD: **author** first author abstract year **fulltext** all search terms

pos(author:"Shoemaker, E", -1)

Your search returned 60 results

property: refereed

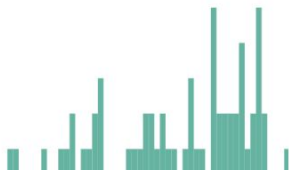
Remove all filters

Use -1 for last author

Filters



Year(s)



Date



Bulk Actions

Explore

1

Effects of bed depressions upon floods from subglacial lakes

Shoemaker, E. M.; [show details](#)

2003/02 · Global and Planetary Change · cited: 5



Position Works Generally

Position operator

QUICK FIELD: author first abstract year fulltext all search terms

pos(title:"M31", 1)

Use 1 for "begins with"

Title field

First word of title = M31

M31 is a catalog designation for the Andromeda Galaxy

Filters

Year(s)



1856

2024

Author

Quimby, R

13

Relevance

M31 Globular Clusters: Colors and Metallicities

Barmby, Pauline; Huchra, John P.; ...; Forbes, Duncan A.; Schroder, Linda L.; Grillmair, Carl J.; [show details](#)
2000/02 · The Astronomical Journal · cited: 313

Andromeda's Dust

Draine, B. T.; Aniano, G.; Krause, Oliver; Groves, Brent; Sandstrom, Karin; Braun, Robert; Leroy, Adam; Klaas, Ulrich; Linz, Hendrik; Rix, Hans-Walter; [and 3 more](#)
2014/01 · The Astrophysical Journal · cited: 312

M31: A Unique Laboratory for Gravitational M...

Bulk Actions

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Search by Topic

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

abstract

Search for word or phrase in abstract, title and keywords

Syntax:
`abs: "phrase"`

Example:
`abs: "dark energy"`

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SciX has a user-friendly search interface. New users will have no trouble jumping in to explore.

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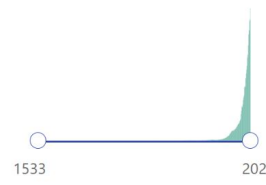
QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

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Your search returned **1,701,498** results

Filters ↻ ×

Year(s)



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- Collections
 - earthscience 1275.2k
 - physics 863.2k
 - astronomy 81.6k
 - general 79.8k
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- Institutions
- Keywords
- Publications
- Bibgroups
- SIMBAD Objects
- NED Objects
- Data
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- Planetary Features

Show hidden filters (0) >

Relevance ↓

Bulk Actions Explore

- Evaluation on the Quality of Bangkok Tap Water with Other Drinking Purpose Water**
Kordach, A.; Chardwattananon, C.; Wongin, K.; Chayaput, B.; Wongpat, N.; [show details](#)
2018/02 · E3S Web of Conferences · cited: 1
- Global monthly water stress: 1. Water balance and water availability**
van Beek, L. P. H.; Wada, Yoshihide; Bierkens, Marc F. P.; [show details](#)
2011/07 · Water Resources Research · cited: 276
- Interactions between groundwater and surface water: the state of the science**
Sophocleous, Marios; [show details](#)
2002/02 · Hydrogeology Journal · cited: 900
- Global monthly water stress: 2. Water demand and severity of water stress**
Wada, Yoshihide; van Beek, L. P. H.; Viviroli, Daniel; Dürr, Hans H.; Weingartner, Rolf; Bierkens, Marc F. P.; [show details](#)
2011/07 · Water Resources Research · cited: 233
- Recent developments in photocatalytic water treatment technology: A review**
Chong, Meng Nan; Jin, Bo; Chow, Christopher W. K.; Saint, Chris; [show details](#)
2010/00 · Water Research · cited: 879
- Future water availability for global food production: The potential of green water for increasing resilience to global change**
Rockström, Johan; Falkenmark, Malin; Karlberg, Louise; Hoff, Holger; Rost, Stefanie; Gerten, Dieter; [show details](#)
2009/07 · Water Resources Research · cited: 255
- A continental-scale hydrology and water quality model for Europe: Calibration and uncertainty of a high-resolution large-scale SWAT model**
Abbaspour, K. C.; Rouholahnejad, E.; Vaghefi, S.; Srinivasan, R.; Yang, H.; Kløve, B.; [show details](#)
2015/05 · Journal of Hydrology · cited: 643

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QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

abs:"water" ✕

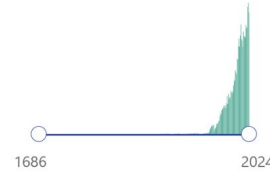
Your search returned 45,140 results

[database: astronomy](#) [property: refereed](#)

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Year(s)



Planetary Features

- Mars 106 ▼
- Vallis 49 >
- Crater 46 >
- Mons 28 ▼
- Olympus Mons 15
- Elysium Mons 8
- Arsia Mons 6
- Tharsis Montes 5
- Centauri Montes 3
- Asraeus Mons 2
- Charitum Montes 2
- Nereidum Montes 2
- Pavonis Mons 2
- Alba Mons 1

- Planum 26 >
- Planitia 25 >
- Terra 21 >
- Chasma 18 >
- Fossa 16 >

Filters applied: refereed papers in astronomy collection only

Limit to certain named planetary features

Relevance ▼

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- Formation of Martian flood features by release of water from confined aquifers**
Carr, M. H.; [show details](#)
1979/06 · Journal of Geophysical Research · cited: 428
- Global depletion of groundwater resources**
Wada, Yoshihide; van Beek, Ludovicus P. H.; van Kempen, Cheryl M.; Reckman, Josef W. T. M.; Vasak, Slavek; Bierkens, Marc F. P.; [show details](#)
2010/10 · Geophysical Research Letters · cited: 871
- Venus methane and water**
Donahue, T. M.; Hodges, R. R.; [show details](#)
1993/04 · Geophysical Research Letters · cited: 33
- The seasonal and global behavior of water vapor in the Mars atmosphere - Complete global results of the Viking atmospheric water detector experiment**
Jakosky, B. M.; Farmer, C. B.; [show details](#)
1982/04 · Journal of Geophysical Research · cited: 299
- Water Absorption in the Transmission Spectrum of the Water World Candidate GJ 9827 d**
Roy, Pierre-Alexis; Benneke, Björn; Piaulet, Caroline; Gully-Santiago, Michael A.; Crossfield, Ian J. M.; Morley, Caroline V.; Kreidberg, Laura; Mikal-Evans, Thomas; Brande, Jonathan; Delisle, Simon; [and 9 more](#)
2023/09 · The Astrophysical Journal · cited: 8
- A model for the hydrologic and climatic behavior of water on Mars**
Clifford, S. M.; [show details](#)
1993/06 · Journal of Geophysical Research · cited: 576
- The Importance of Water for Life**
Westall, Frances; Brack, André; [show details](#)

Explore a Topic

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

abs:"hurricane" year:2024

Your search returned 409 results

property:refereed

Remove all filters

Filters

Year(s)



Author

<input type="checkbox"/> Wang, X	10 >
<input type="checkbox"/> Li, Y	8 >
<input type="checkbox"/> Zhang, Y	6 >
<input type="checkbox"/> Huang, W	5 >
<input type="checkbox"/> Moradkhani, H	5 >
<input type="checkbox"/> Zhang, Z	5 >
<input type="checkbox"/> Chen, X	4 >

Collections

<input type="checkbox"/> earthscience	362
<input type="checkbox"/> physics	167
<input type="checkbox"/> general	23
<input type="checkbox"/> astronomy	14

Refereed

<input type="checkbox"/> refereed	409
-----------------------------------	-----

409 refereed articles about hurricanes published so far this year

Explore menu provides tools to learn more

Relevance

1	A Statistical Study of Space Hurricanes in the Southern Hemisphere Lu, Sheng; Xing, Zan-Yang; Zhang, Qing-He; Zhang, Yong-Liang; Yang, Hui-Gen; Oksavik, Kjellmar; Lyons, L. R.; Lockwood, Michael; Ma, Yu-Zhang; Wang, Yong; show details 2024/06 - Journal of Geophysical Research (Space Physics)
2	AI-enabled damage estimation of impacted residential communities through CFD simulations and stratified sampling Kim, Seung-Ho; Kim, Min-Ho; Kim, M. J.; show details Wind Engineering and Industrial Aerodyn...
3	Field observations of Hurricane Ian's wave and surge impact in the areas of Fort Myers Beach and Sanibel Island, USA McCann, M.; Ebrahimi, B.; Cinar, G. E.; Renteria, W.; Stehno, A.; Lynett, P.; Kaihatu, J.; show details 2024/03 - Coastal Engineering
4	What Can Hurricane Sam (2021) Tell Us About Extreme Ocean Waves Under Tropical Cyclones? Zhao, X.; Oruba, L.; Hauser, D.; Zhang, B.; Dormy, E.; show details 2024/08 - Journal of Geophysical Research (Oceans)
5	Hurricane-Induced Power Disruptions: Household Preferences for Improving Infrastructure Resilience Asadi, Mehmoosh; Price, James I.; Kessels, Roselinde; Mozumder, Pallab; show details 2024/07 - Economics of Disasters and Climate Change
6	Direct Observation of the Space Hurricane Disturbed Polar Thermosphere Xiu, Zhi-Feng; Ma, Yu-Zhang; Zhang, Qing-He; Xing, Zan-Yang; Zhang, Shun-Rong; Zhang, Yong-Liang; Oksavik, Kjellmar; Lyons, Larry; Lockwood, Michael; Wang, Yong; show details 2024/01 - Geophysical Research Letters

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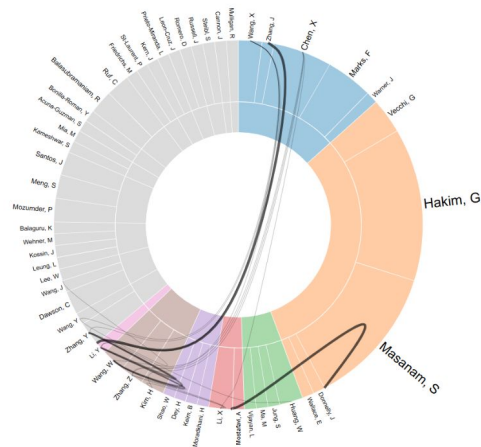
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select an author or a group in the visualization and click the 'add to filter' button

Search

Summary

Detail

Group 1

Add to filter

Total papers: 24, most recent: 2024

Parameterizations of Boundary Layer Mass Fluxes in High-Wind Conditions for Tropical Cyclone Simulations
2 authors from this group cited: 3

Sensitivity of HAFS-B Tropical Cyclone Forecasts to Planetary Boundary Layer and Microphysics Parameterizations
2 authors from this group cited: 1

Cloud Height Distributions and the Role of Vertical Mixing in the Tropical Cyclone Eye Derived From Compact Raman Lidar Observations
1 author from this group

Asymmetries during Eyewall Replacement Cycles of Hurricane Ivan (2004)
1 author from this group

Diagnosing Radial Ventilation in Dropsonde Observations of Hurricane Sam (2021)
1 author from this group

Information retrieval and classification of real-time multi-source hurricane evacuation notices
1 author from this group

Comparison of the evolution of Rayleigh-Taylor instability during the coasting phase of the central ignition and the double-cone ignition schemes
1 author from this group cited: 1

¹⁷O-Excess in Tropical Cyclones Reflects Local Rain Re-Evaporation More Than Moisture Source Conditions
1 author from this group cited: 1

Tropical Cyclone Monitoring and Analysis Techniques: A Review
1 author from this group

Landcover-based detection of rapid impacts of extreme storm on coastal landscape
1 author from this group

A Statistical Study of Space Hurricanes in the Southern Hemisphere

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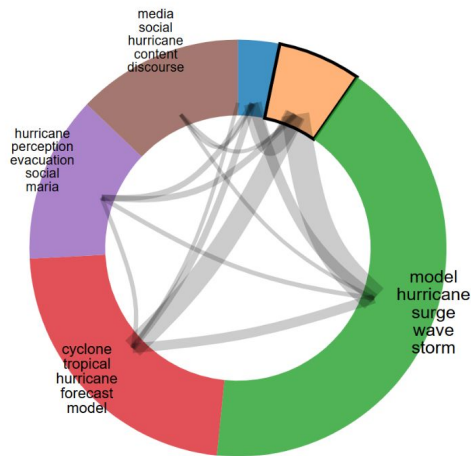
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Search

Summary

Detail

Group 2: cyclone, tropical, hurricane, climate, change, activity

[Add to filter](#)

This group consists of 42 papers, which have been cited, in total, 6 times.

Top 30 papers from this group

[A Global Increase in Nearshore Tropical Cyclone Intensification](#)

Balaguru, Karthik cited: 1

[¹⁷O-Excess in Tropical Cyclones Reflects Local Rain Re-Evaporation More Than Moisture Source Conditions](#)

Sun, Chijun cited: 1

[Rapid natural hazard extent estimation from twitter data: investigation for hurricane impact areas](#)

Florath, Janine cited: 1

[Storm surge modeling in the AI era: Using LSTM-based machine learning for enhancing forecasting accuracy](#)

Giaremis, Stefanos cited: 1

[Spatiotemporal changes in hurricane-force wind risk assessment in the Yucatan Peninsula, Mexico](#)

Romero, David cited: 1

[Last millennium hurricane activity linked to endogenous climate variability](#)

Yang, Wenchang cited: 1

[Asset-level assessment of climate physical risk matters for adaptation finance](#)

Bressan, Giacomo

[Improving Coastal Storm Surge Monitoring Through Joint Modeling Based on Permanent and Temporary Tide Gauges](#)

Yang, Lianjun

[Rapid intensification of tropical cyclones in the Gulf of Mexico is more likely during marine heatwaves](#)

Radfar, Soheil

What else should I read?

15,156,866 papers textually similar to the 406 papers we initially selected

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

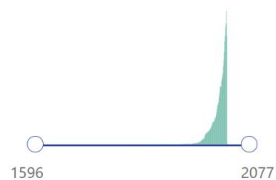
similar(abs:"hurricane" year:2024)

Your search returned 15,156,866 results

Filters



Year(s)



1956

2077

- > Author
- > Collections
- > Refereed
- > Institutions
- > Keywords
- > Publications
- > Bibgroups
- > SIMBAD Objects
- > NED Objects
- > Data
- > Vizier Tables
- > Publication Type
- > Planetary Features

Show hidden filters (0)

Relevance



1

Geophysical Hazards and Preventive Disaster Management of Extreme Natural Events

Ismail-Zadeh, A.; Takeuchi, K; [show details](#)

2007/12 · AGU Fall Meeting Abstracts

2

The concept of vulnerability within the disaster management cycle - A geospatial perspective

Aubrecht, Christoph; Freire, Sérgio; Kienberger, Stefan; Steinnocher, Klaus; Zeil, Peter; [show details](#)

2010/05 · EGU General Assembly Conference Abstracts

3

The Gujarat Earthquake: Mitigations Failures and Lessons learnt for Future Strategies

Katuri, A. K.; Mittal, J.; Kumar, K; [show details](#)

2002/00 · IAF abstracts, 34th COSPAR Scientific Assembly

4

Observing Natural Hazards: Tsunami, Hurricane, and El Niño Observations from the NDBC Ocean Observing System of Systems

O'Neil, K.; Bouchard, R.; Burnett, W. H.; Aldrich, C.; [show details](#)

2009/12 · AGU Fall Meeting Abstracts

5

Lessons on COVID-19 pandemic and Earthquake Response: What we have learned from the October 30, 2020, Mw 6.9 Samos (Eastern Aegean, Greece) earthquake

Mavroulis, Spyridon; Mavrouli, Maria; Thoma, Thekla; Kourou, Asimina; Manousaki, Maria; Karveleas, Nikolaos; Lekkas, Efthymios; [show details](#)

2021/04 · EGU General Assembly Conference Abstracts

6

Vulnerability Factors and Effectiveness of Disaster Mitigation Measures in the Bangladesh Coast

Hossain, Md. Nazir; Paul, Shitangsu Kumar; [show details](#)

2018/05 · Earth Systems and Environment · cited: 14

7

A place-based model for understanding community resilience to natural disasters

Cutter, Susan L.; Barnes, Lindsey; Berry, Melissa; Burton, Christopher; Evans, Elijah; Tate, Eric; Webb, Jennifer; [show details](#)

2008/01 · Global Environmental Change · cited: 296



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What are others reading?

9,528 papers read by people who also read the 2024 hurricane papers

QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)

trending(abs:"hurricane" year:2024)-(abs:"hurricane" year:2024)

Your search returned 9,528 results

Filters

Year(s)

1903 2025

- > Author
- > Collections
- > Refereed
- > Institutions
- > Keywords
- > Publications
- > Bibgroups
- > SIMBAD Objects
- > NED Objects
- > Data
- > Vizier Tables
- > Publication Type
- > Planetary Features

Show hidden filters (0) >

Relevance

- [Deep Unsupervised Learning using Nonequilibrium Thermodynamics](#)
Sohl-Dickstein, Jascha; Weiss, Eric A.; Maheswaranathan, Niru; Ganguli, Surya; [show details](#)
2015/03 · arXiv e-prints · cited: 257
- [Denoising Diffusion Probabilistic Models](#)
Ho, Jonathan; Jain, Ajay; Abbeel, Pieter; [show details](#)
2020/06 · arXiv e-prints · cited: 638
- [When Could Abelian Fractional Topological Insulators Exist in Twisted MoTe₂ \(an](#)
Kwan, Yves H.; Wagner, Glenn; Yu, Jiabin; Kouta Dagnino, Andrea; Jiang, Yi; Xu, Xiaodong; Bernevig
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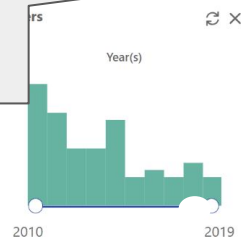
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Walsh, Kevin; *and 1 more*
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2005/08 · Nature · cited: 1880
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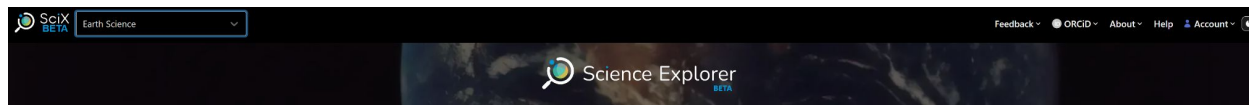
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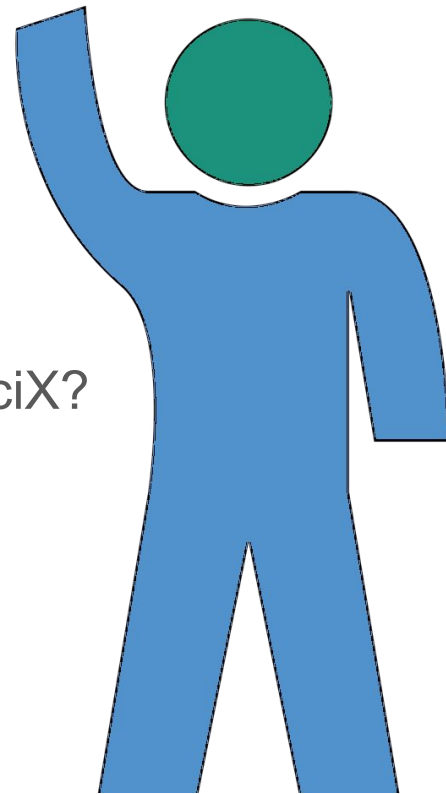


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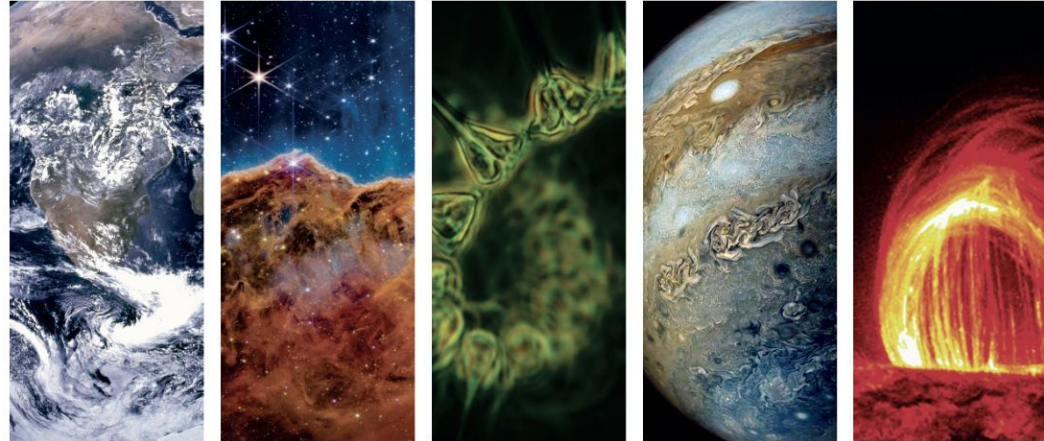
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