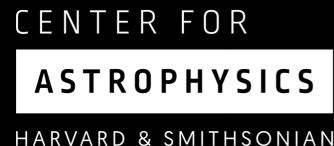


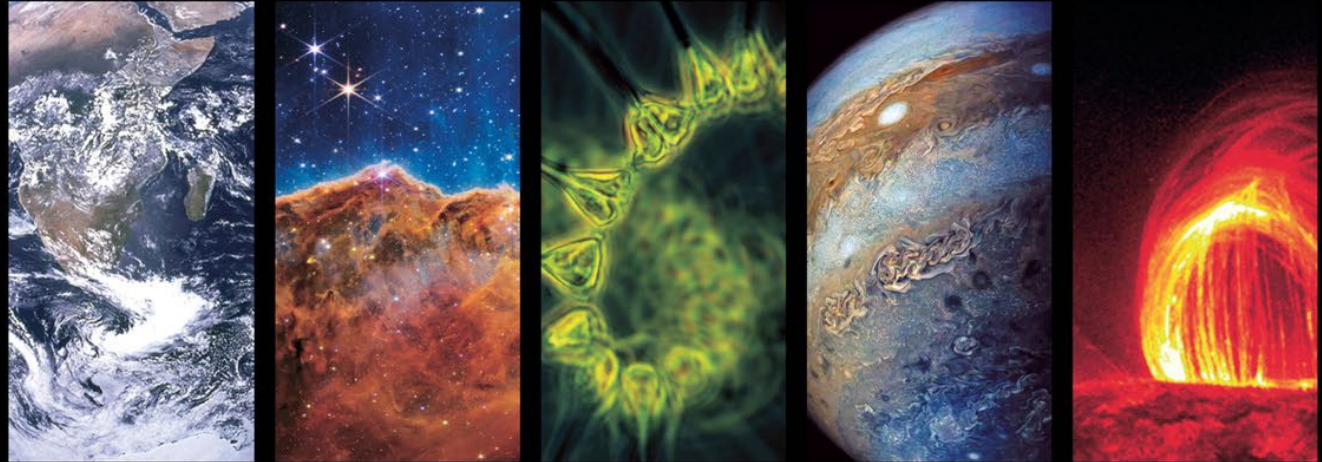
The Science Explorer: A Revolutionary Platform for all NASA Science

Simon Anghel and the SciX Team

*Astronomical Institute of the Romanian Academy
IMCCE, Paris Observatory
Center for Astrophysics | Harvard & Smithsonian*



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[SciXplorer.org]



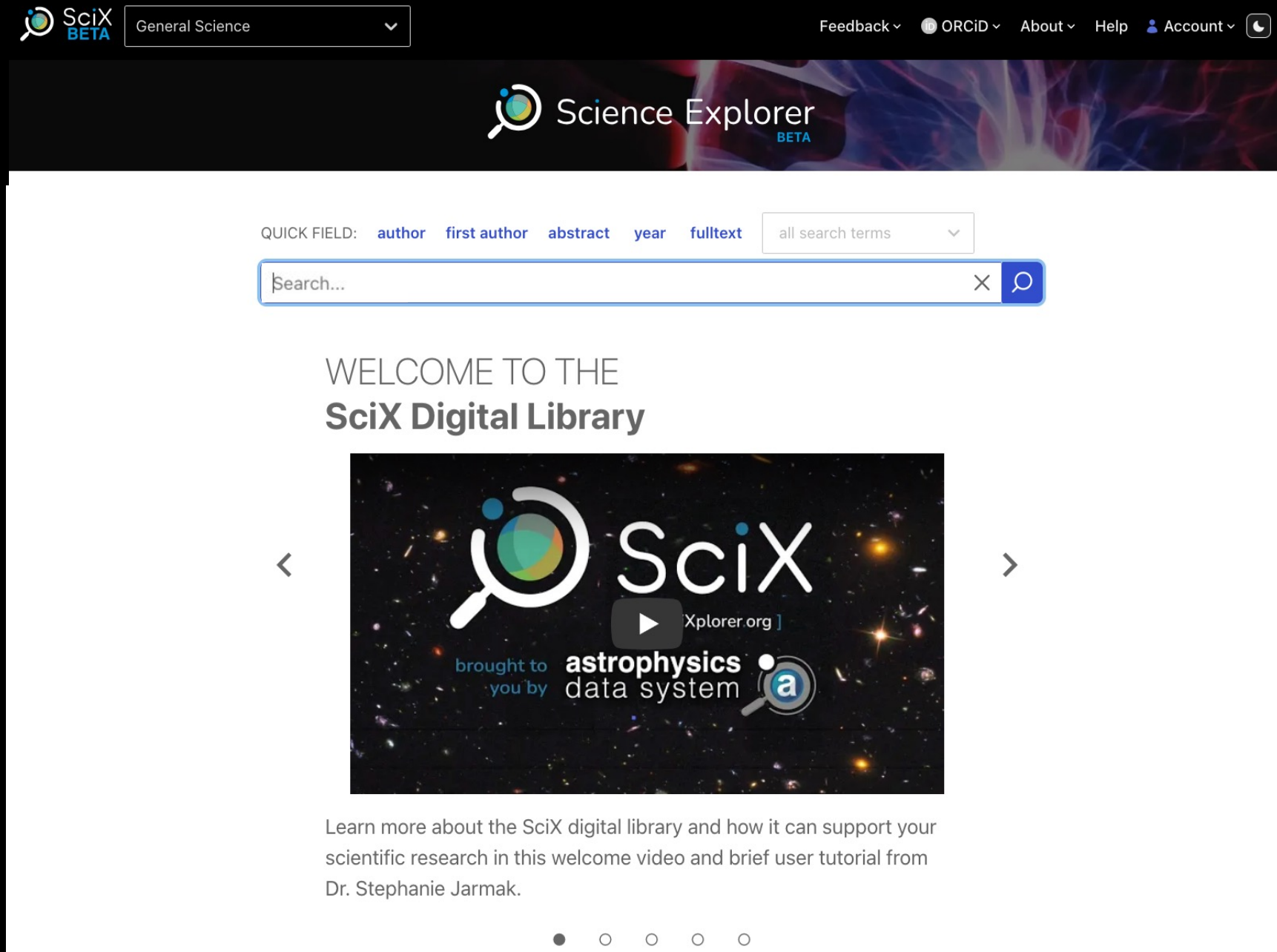
NASA Science Explorer

Accelerating the discovery of NASA Science.

What is The Science Explorer?

SciX is a **new literature portal** that was just launched as part of the **expansion** of the **NASA Astrophysics Data System (ADS)**, a digital library focusing on **Space Science research**.

<https://SciXplorer.org>




The screenshot shows the SciXplorer website interface. At the top, there is a navigation bar with the SciX BETA logo, a dropdown menu set to "General Science", and links for Feedback, ORCID, About, Help, Account, and a moon icon. Below the navigation bar is a large banner with the SciXplorer BETA logo and a background image of a nebula. Under the banner is a search section with a "QUICK FIELD:" dropdown showing options: author, first author, abstract, year, and fulltext. To the right of these options is a search input field with a placeholder "all search terms" and a search button. Below the search section is a large video player. The video player has a title "WELCOME TO THE SciX Digital Library" and a video thumbnail showing the SciX logo and the text "brought to you by astrophysics data system". The video player has navigation arrows on the left and right, and a play button in the center. Below the video player is a caption: "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." At the bottom of the video player are five small circular indicators, with the first one filled.






What is The Science Explorer?


SciX is a literature-based,
**open digital information
system** covering and unifying
the research disciplines
**funded by the NASA Science
Mission Directorate.**

<https://SciXplorer.org>




General Science


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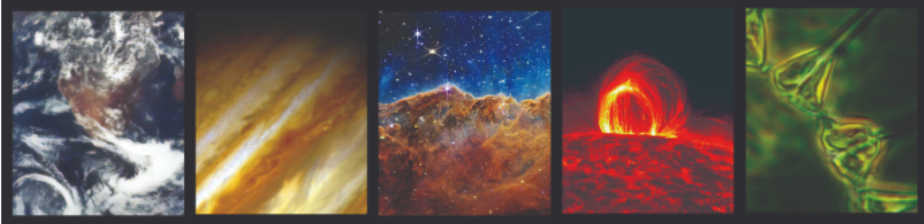
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all search terms 

Search...




EXPLORE ACROSS
Science Focus Areas





NASA 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.



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SciX is a project created by the Astrophysics Data System (ADS), which is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement 80NSSC21M0056.

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What is The Science Explorer?


SciX supports NASA's
Open Science efforts and
enables interdisciplinary
research and
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<https://SciXplorer.org>





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DISCOVER

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



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



What is The Science Explorer?


The **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.**





General Science

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all search terms 

Search... 

Search Examples

author

author:"penrose, roger"

first author

author:"^penrose, roger"

abstract+title

abs:"black hole"

year

year:2000

year range

year:2000-2005

full text

full:"black hole"

publication

bibstem:ApJ

citations

citations(abstract:JWST)

refereed

property:refereed

collection

collection:astronomy

exact search



=body:"reproducibility"






institution

inst:NASA

record type

doctype:software





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Why **The Science Explorer (SciX)**?

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

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

Partner:



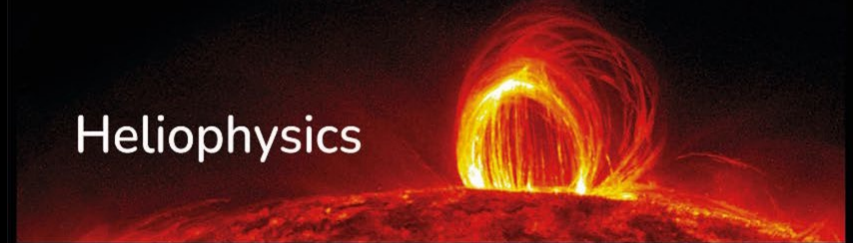
<https://SciXplorer.org>

Earth Science



Planetary Science

Heliophysics



Astrophysics



Biological &
Physical Sciences



Historic Observatory Publications **digitized** in the Science Explorer

Through the mid-20th century, many observatories had **their own outlets** for disseminating their **research and administrative information**.

Astronomers reported their work in **observatory periodicals** and reviewed journals.

These historic records contain **foundational work** that remains **relevant today**, observational data of **unrepeatable sky views**, and evidence of the **evolving culture of astronomy**.

SciX continues to digitize (600 dpi, single TIFF file) **legacy materials** as we receive them.

e.g. Astronomical Observations made at the Royal Observatory at Greenwich, Annals of the Private Observatory of Lucien Libert, Bulletin Horaire du Bureau International de l'Heur, and Yale University Observatory Reports for the year

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

all search terms

cassini saturn



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year

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Filters

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Institutions

Keywords

Publications

Bibgroups

Data

astronomy

physics

earthscience

general

notrefereed

refereed

8.3k

4.2k

1.4k

154

6.2k

2.4k

Relevance

Bulk Actions

Explore

1

The formation of the Cassini division in Saturn's rings

Goldreich, P.; Tremaine, S. D.; [show list](#)

1978/05 · Icarus · cited: 211

2

Cassini Observes the Active South Pole of Enceladus

Porco, C. C.; Helfenstein, P.; Thomas, P. C.; Ingersoll, A. P.; Wisdom, J.; West, R.; Neukum, G.; Denk, T.; Wagner, R.; Roatsch, T.; [and 15 more](#)

2006/03 · Science · cited: 856

3

Encounter with Saturn: Voyager 1 Imaging Science Results

Smith, B. A.; Soderblom, L.; Beebe, R. F.; Boyce, J. M.; Briggs, G.; Bunker, A.; Collins, S. A.; Hansen, C.; Johnson, T. V.; Mitchell, J. L.; [and 17 more](#)

1981/04 · Science · cited: 712

4

Cassini Plasma Spectrometer Investigation

Young, D. T.; Berthelier, J. J.; Blanc, M.; Burch, J. L.; Coates, A. J.; Goldstein, R.; Grande, M.; Hill, T. W.; Johnson, R. E.; Kelha, V.; [and 48 more](#)

2004/09 · Space Science Reviews · cited: 410

5

Saturn's Interior After the Cassini Grand Finale

Fortney, J. J.; Militzer, B.; Mankovich, C. R.; Helled, R.; Wahl, S. M.; Nettelmann, N.; Hubbard, W. B.; Stevenson, D. J.; less, L.; Marley, M. S.; [and 1 more](#)

2023/04 · arXiv e-prints

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abstract

year

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Your search returned 7,803 results

range: 2004-2023

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> Collections

astronomy7.5k

physics3.9k

earthscience1.3k

general127

> Refereed

notrefereed5.7k

refereed2.1k

> Institutions

> Keywords

> Publications

> Bibtex

Relevance

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Explore

1

Cassini Observes the Active South Pole of Enceladus

Porco, C. C.; Helfenstein, P.; Thomas, P. C.; Ingersoll, A. P.; Wisdom, J.; West, R.; Neukum, G.; Denk, T.; Wagner, R.; Roatsch, T.; and 15 more

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2023/04 · arXiv e-prints

4

Phosphine on Jupiter and Saturn from Cassini/CIRS

Fletcher, L. N.; Orton, G. S.; Teanby, N. A.; Irwin, P. G. J.; show list

2009/08 · Icarus · cited: 142

5

The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation

Brown, R. H.; Baines, K. H.; Bellucci, G.; Bibring, J. -P.; Buratti, B. J.; Capaccioni, F.; Cerroni, P.; Clark, R. N.; Coradini, A.; Cruikshank, D. P.; and 12 more

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first author

abstract

year

fulltext

all search terms

cassini saturn property:data

X

Your search returned 261 results

range: 2004-2023

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Filters

2004

2023

> Author

> Collections

astronomy258

earthscience127

physics89

general3

> Refereed

refereed210

notrefereed51

> Institutions

> Keywords

> Publications

> Bihgroups

Relevance

Bulk Actions

Explore

1

Cassini Imaging Science: Initial Results on Saturn's Atmosphere

Porco, C. C.; Baker, E.; Barbara, J.; Beurle, K.; Brahic, A.; Burns, J. A.; Charnoz, S.; Cooper, N.; Dawson, D. D.; Del Genio, A. D.; and 25 more

2005/02 · Science · cited: 96

2

Magnetopause Dynamics at Saturn as Observed by Cassini

Mo, Wenli; Vines, Sarah K.; Allen, Robert C.; Jackman, Caitriona M.; Paranicas, Chris; show list

2023/08 · Journal of Geophysical Research (Space Physics)

3

The Orbits of the Main Saturnian Satellites, the Saturnian System Gravity Field, and the Orientation of Saturn's Pole

Jacobson, Robert. A.; show list

2022/11 · The Astronomical Journal · cited: 11

4

The Enigmatic Abundance of Atomic Hydrogen in Saturn's Upper Atmosphere

Ben-Jaffel, Lotfi; Moses, Julianne I.; West, Robert A.; Aye, Klaus-Michael; Bradley, Eric T.; Clarke, John T.; Holberg, Jay B.; Ballester, Gilda E.; show list

2023/03 · The Planetary Science Journal

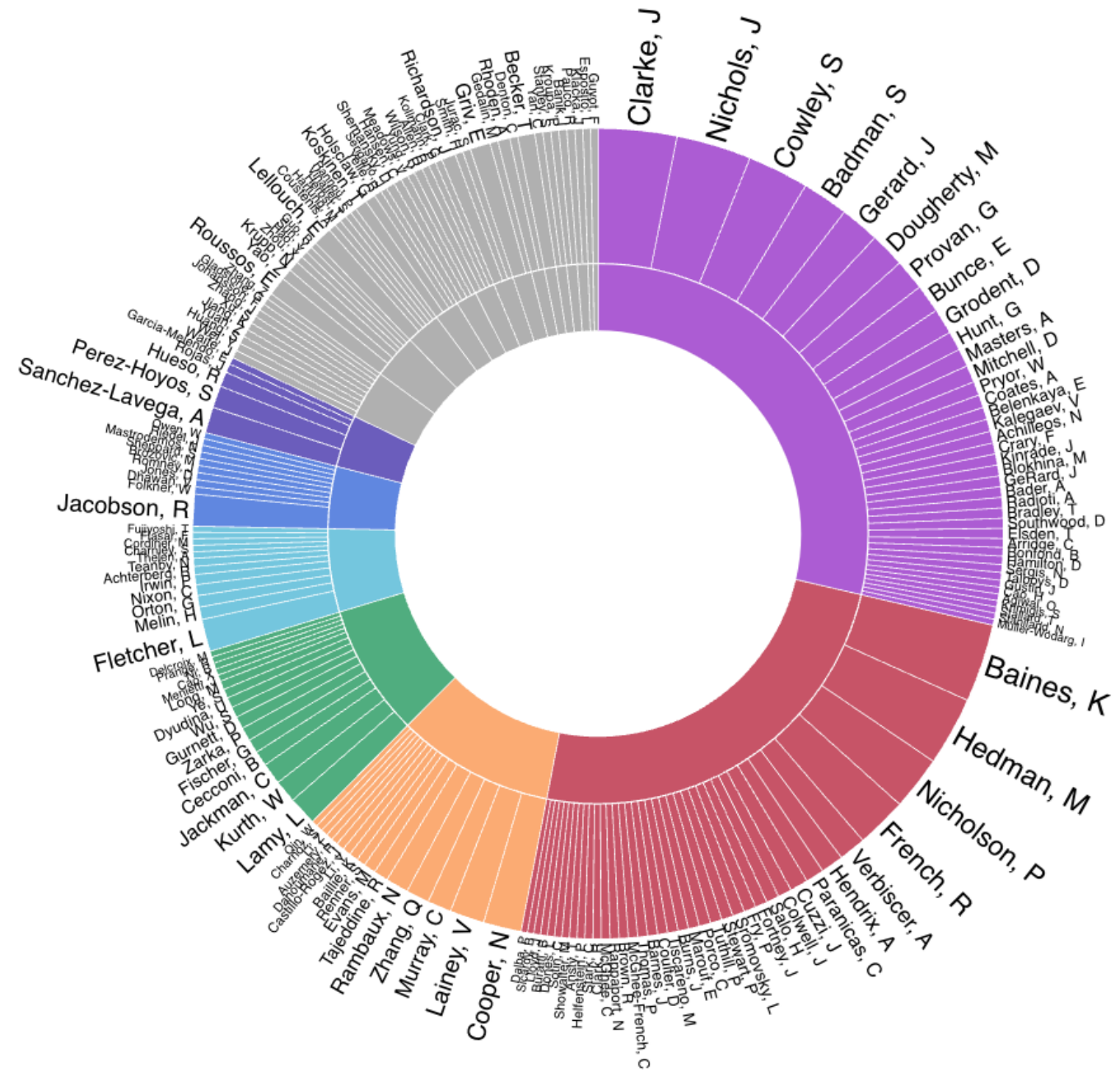
5

The Orbits of Saturn's Small Satellites Derived from Combined Historic and Cassini Imaging Observations

Spitale, J. N.; Jacobson, R. A.; Porco, C. C.; Owen, W. M., Jr.; show list

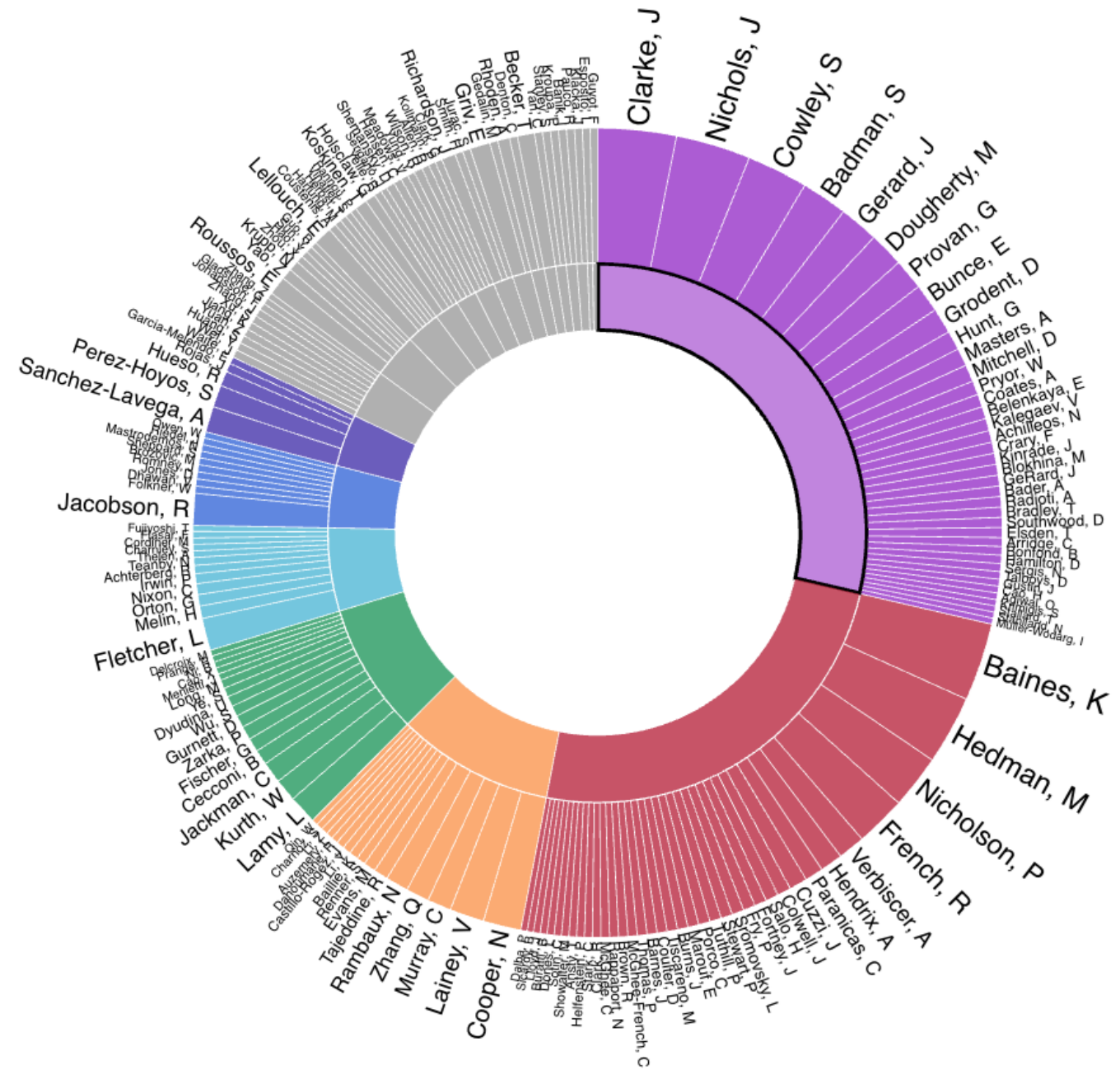
Example search: cassini saturn

8,660 results, sorted by relevance
7,803 published in the last 20 years
261 with data products
7 collaboration groups detected



Example search: cassini saturn

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- 7,803 published in the last 20 years
- 261 with data products
- 7 collaboration groups detected
- 1 group selected



Example search:

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8,660 results, sorted by relevance
7,803 published in the last 20 years
261 with data products
7 collaboration groups detected
1 group selected
75 papers authored by group

Summary		Detail
Group 1		
Total papers: 75, most recent: 2023		
1	Variable morphology of Saturn's southern ultraviolet aurora cited: 90; 5 authors from this group	
2	Open flux estimates in Saturn's magnetosphere during the January 2004 Cassini-HST campaign, and implications for reconnection rates cited: 84; 6 authors from this group	
3	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations cited: 54; 10 authors from this group	
4	Signature of Saturn's auroral cusp: Simultaneous Hubble Space Telescope FUV observations and upstream solar wind monitoring cited: 51; 6 authors from this group	
5	Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter cited: 129; 8 authors from this group	
6	Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions cited: 122; 8 authors from this group	
7	On the origin of Saturn's outer auroral emission cited: 44; 4 authors from this group	
8	Characterization of auroral current systems in Saturn's magnetosphere: High-latitude Cassini observations cited: 36; 6 authors from this group	
9	Oscillation of Saturn's southern auroral oval cited: 79; 5 authors from this group	

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QUICK FIELD:

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first author

abstract

year

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all search terms

cassini saturn property:data

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Your search returned 75 results with 1,361 total citations

range: 2004-2023

selection: d6fcf12231f17b83

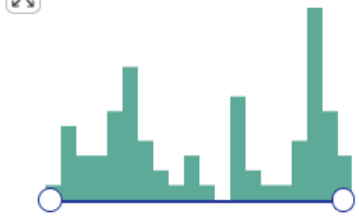
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Filters

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20042023

> Author

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▼ Collections

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☐ astronomy

75

☐ earthscience

53

☐ physics

45

☐ general

1

▼ Refereed

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> Publications

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Citation Count

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Bulk Actions

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Explore

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1

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Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter

Clarke, J. T.; Gérard, J. -C.; Grodent, D.; Wannawichian, S.; Gustin, J.; Connerney, J.; Crary, F.; Dougherty, M.; Kurth, W.; Cowley, S. W. H.; and 3 more

2005/02 · Nature · cited: 129

▼

2

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Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions

Mitchell, D. G.; Krimigis, S. M.; Paranicas, C.; Brandt, P. C.; Carbary, J. F.; Roelof, E. C.; Kurth, W. S.; Gurnett, D. A.; Clarke, J. T.; Nichols, J. D.; and 4 more

2009/12 · Planetary and Space Science · cited: 122

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3

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Variable morphology of Saturn's southern ultraviolet aurora

Grodent, D.; Gérard, J. -C.; Cowley, S. W. H.; Bunce, E. J.; Clarke, J. T.; show list

2005/07 · Journal of Geophysical Research (Space Physics) · cited: 90

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4

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Open flux estimates in Saturn's magnetosphere during the January 2004 Cassini-HST campaign, and implications for reconnection rates

Badman, S. V.; Bunce, E. J.; Clarke, J. T.; Cowley, S. W. H.; Gérard, J. -C.; Grodent, D.; Milan, S. E.; show list

2005/11 · Journal of Geophysical Research (Space Physics) · cited: 84

▼

An auroral oval at the footprint of Saturn's kilometric radio sources, colocated with the

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Filter current search:

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plasma x

x

Search

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unique

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8,660 results, sorted by relevance
7,803 published in the last 20 years
261 with data products
7 collaboration groups detected
1 group selected
75 papers authored by group
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261 with data products
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1 group selected
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view & select concepts in papers
33 papers containing “plasma”

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all search terms

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Your search returned 33 results with 775 total citations

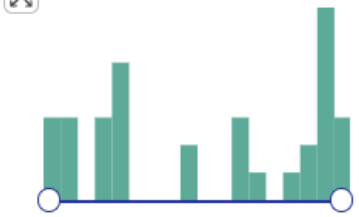
range: 2004-2023

selection: d6fcf12231f17b83

wordcloud: plasma

Remove all filters

Filters



20052022

> Author

> Collections

astronomy33

earthscience22

physics20

general1

> Refereed

refereed28

notrefereed5

> Institutions

> Keywords

> Publications

> Bibgroups

Citation Count

⌵

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Bulk Actions

Explore

1

Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter

Clarke, J. T.; Gérard, J. -C.; Grodent, D.; Wannawichian, S.; Gustin, J.; Connerney, J.; Crary, F.; Dougherty, M.; Kurth, W.; Cowley, S. W. H.; and 3 more

2005/02 · Nature · cited: 129

2

Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions

Mitchell, D. G.; Krimigis, S. M.; Paranicas, C.; Brandt, P. C.; Carbary, J. F.; Roelof, E. C.; Kurth, W. S.; Gurnett, D. A.; Clarke, J. T.; Nichols, J. D.; and 4 more

2009/12 · Planetary and Space Science · cited: 122

3

An auroral oval at the footprint of Saturn's kilometric radio sources, colocated with the UV aurorae

Lamy, L.; Cecconi, B.; Prangé, R.; Zarka, P.; Nichols, J. D.; Clarke, J. T.; show list

2009/10 · Journal of Geophysical Research (Space Physics) · cited: 81

4

Oscillation of Saturn's southern auroral oval


Nichols, J. D.; Clarke, J. T.; Cowley, S. W. H.; Duval, J.; Farmer, A. J.; Gérard, J. -C.; Grodent, D.; Wannawichian, S.; show list

2008/11 · Journal of Geophysical Research (Space Physics) · cited: 79

Example search:

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33 papers containing “plasma”
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2005 2022

> Author

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☐ astronomy 33

☐ earthscience 22

☐ physics 20

☐ general 1

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☐ notrefereed 5

> Institutions

> Keywords

> Publications

> Bibgroups

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1

Clarke, J. T.; Gérard, J. -C.; Grodent, D.; Wannawichian, S.; Gustin, J.; Connerney, J.; Cray, F.; Dougherty, M.; Kurth, W.; Cowley, S. W. H.; and 3 more

2005/02 · Nature · cited: 129

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Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions

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2009/12 · Planetary and Space Science · cited: 122

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Lamy, L.; Cecconi, B.; Prangé, R.; Zarka, P.; Nichols, J. D.; Clarke, J. T.; show list

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Nichols, J. D.; Clarke, J. T.; Cowley, S. W. H.; Duval, J.; Farmer, A. J.; Gérard, J. -C.; Grodent, D.; Wannawichian, S.; show list

2008/11 · Journal of Geophysical Research (Space Physics) · cited: 79

5

Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations

Cowley, S. W. H.; Arridge, C. S.; Bunce, E. J.; Clarke, J. T.; Coates, A. J.; Dougherty, M. K.; Gérard, J. -C.; Grodent, D.; Nichols, J. D.; Talboys, D. L.; show list

2008/09 · Annales Geophysicae · cited: 54

6

Signature of Saturn's auroral cusp: Simultaneous Hubble Space Telescope FUV observations and upstream solar wind monitoring

Gérard, Jean-Claude; Bunce, Emma J.; Grodent, Denis; Cowley, Stanley W. H.; Clarke, John T.; Badman, Sarah V.; show list

2005/11 · Journal of Geophysical Research (Space Physics) · cited: 51

7

Radiation transport of heliospheric Lyman-α from combined Cassini and Voyager data sets

Pryor, W.; Gangopadhyay, P.; Sandel, B.; Forrester, T.; Quemerais, E.; Möbius, E.; Esposito, L.; Stewart, I.; McClintock, W.; Jouchoux, A.; and 8 more

2008/11 · Astronomy and Astrophysics · cited: 42

Characterization of auroral current systems in Saturn's magnetosphere: High-latitude

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The Response of Saturn's Dawn Field-Aligned Currents to Magnetospheric and Ring Current Conditions During Cassini's Proximal Orbits: Evidence for a Region 2 Response at Saturn

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Full Text Sources

Other Resources

Data Products

PDS

DATASOURCE

Cassini's 2017 proximal dawn sector in relation to dawn region auroral field-aligned currents in the magnetosphere. For comparison, the current sheet, located in the midnight-dawn sector during tail reconnection events results in an enhanced subcorotation current system.

Publication	Journal of Geophysical Research: Space Physics, Volume 127, Issue 6, article id. e29852
Publication Date	2022-06-00
DOI	10.1029/2021JA029852
Bibcode	2022JGRA..12729852H
Keyword(s)	Saturn magnetosphere field-aligned currents current systems magnetospheric dynamics

Feedback/Corrections?

Example search: cassini saturn

- 8,660 results, sorted by relevance
- 7,803 published in the last 20 years
- 261 with data products
- 7 collaboration groups detected
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- 33 papers containing “plasma”
- 9 of which have PDS data
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PDS Planetary Data System
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PDS: PLANETARY PLASMA INTERACTIONS

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Instrument	Missions	Target/Planet	Volume Series	Errata				

QUICK SEARCH

Search By Missions

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- Gravitational Waves
- Interstellar Medium

QUICK LINKS

- FAQ
- Citation Policy
- Errata for all volumes
- Help for Data Users
- Help for Data Reviewers
- Help for Data Providers

PDS NODES

- PDS Home
- Atmospheres
- Geosciences
- Cartography and Imaging Sciences
- NAIF - SPICE
- Ring-Moon Systems
- Small Bodies Management

Cassini : MAG

5 Results

Cassini-Saturn/Earth/Solar Wind/Venus/Jupiter-MAG
CO-E/SW/J/S-MAG-2-REDR-RAW-DATA-V2.0 CERTIFIED

Start Time: 1997-10-28 12:45:37 - Stop Time: 2017-09-15 20:31:49

Cassini Orbiter Magnetometer Raw Data MAG REDRs covering the period 1997-10-28 (DOY 301) to 2017-09-15 (DOY 258). These PRODUCT_VERSION_ID = 2 Data were released on 2019-05-17 with an updated calibration.

Cassini-Saturn/Earth/Solar Wind/Jupiter-MAG
CO-E/SW/J/S-MAG-3-RDR-CALIB-SHM-V2.0 CERTIFIED

Start Time: 1999-08-16 17:00:03 - Stop Time: 2005-10-11 16:58:10

Cassini Orbiter Magnetometer Raw Data MAG SHM RDRs, Version 2, covering the period 1999-08-18 (DOY 230) to 2005-10-11 (DOY 284).

Cassini-Saturn/Solar Wind/Jupiter-MAG
CO-E/SW/J/S-MAG-3-RDR-FULL-RES-V2.0 CERTIFIED

Start Time: 1998-12-30 11:38:33 - Stop Time: 2017-09-15 13:31:44

Cassini Orbiter Magnetometer Calibrated MAG RDRs at the highest time resolution available covering the period 1998-12-30 (DOY 364) to 2017-09-15 (DOY 258). New versions (PRODUCT_VERSION_ID 5) of these data products, processed using an updated calibration, are in the process of being released. Currently the data from 2001-01-01 through 2017-09-15 are version 5 products. Prior to this interval the products use an older calibration. The data are in RTN coordinates prior Cassini's arrival at Saturn, and Kronographic (K RTP) coordinates at Saturn (beginning 2004-05-14, DOY 135). These data have passed PDS peer review. Every effort has been made to ensure that the data and documentation are of the best possible quality. However, users of this data set are encouraged to verify the correctness of the data prior to submitting any publications or other work.

Cassini-Saturn/Earth/Solar Wind/Venus/Jupiter-FGM
CO-E/SW/J/S-MAG-4-SUMM-1MINAVG-V2.1 CERTIFIED

Start Time: 1998-12-30 19:38:29 - Stop Time: 2017-09-12 08:14:31

Cassini Orbiter Magnetometer Calibrated MAG data in 1 minute averages available covering the period 1999-08-16 (DOY 228) to 2017-09-12 (DOY 255). This volume contains new versions (K RTP, KSO and KSM PRODUCT_VERSION_ID 7 and RTN PRODUCT_VERSION_ID 8) of these data products, processed using an updated calibration. The data are provided in RTN coordinates throughout the mission, with Earth, Jupiter, and Saturn centered coordinates for the respective flybys of those planets. These data have passed PDS peer review. Every effort has been made to ensure that the data and documentation are of the best possible quality. However, users of this data set are encouraged to verify the correctness of the data prior to submitting any publications or other work.

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PDS RESOURCES

- Archive Planning Guide
- Individuals
- Missions
- Data Dictionary Search
- Lookup Tool
- Document
- PDS4 Standards Documents
- PDS Subscription Service
- PDS3 Standards

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- ADS Search
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TITLE	SOURCE	UPDATED ▼	STATUS	ACTIONS
Source regions of carbonaceous meteorites and near-Earth objects	Crossref	4 weeks ago	Pending	
Source Energy Estimation of Ton TNT-Scale Impacts Based on Well-Known Meteorite Falls	NASA Astrophysics Data System	2 months ago	Verified	
Recent results from T04	NASA Astrophysics Data System	2 months ago	Verified	
The current status of MOROI network. Astrometric reduction of multistation events and meteoroids orbits	NASA Astrophysics Data System	2 months ago	Verified	
Astrojunior: An Educational Project for Interactive Teaching of Planetary Science	NASA Astrophysics Data System	2 months ago	Verified	
Photometry of all-sky cameras: preliminary results for MOROI network	NASA Astrophysics Data System	2 months ago	Verified	
Dark flight trajectory of meteoroids detected by the MOROI network	NASA Astrophysics Data System	2 months ago	Verified	
Optimizing Meteor Detection with Machine Learning	NASA Astrophysics Data System	2 months ago	Verified	
Pre-entry mass estimation of meteoroids based on wellknown impacts	NASA Astrophysics Data System	2 months ago	Verified	
Data ingestion methods and taxonomic results using MAAST	NASA Astrophysics Data System	2 months ago	Verified	

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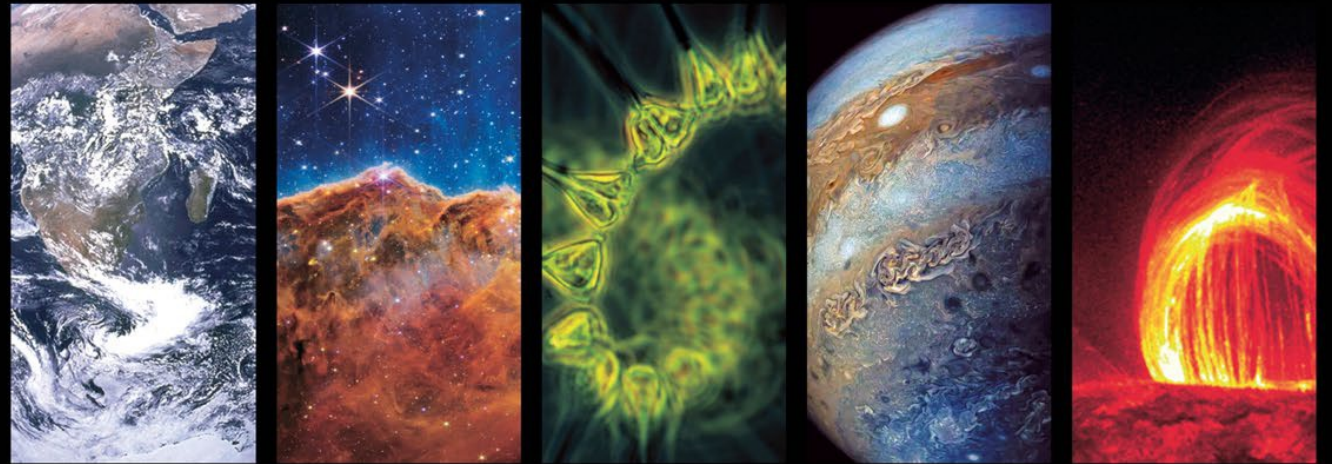
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