



astrophysics data system



Alberto Accomazzi & the ADS Team

@aacomazzi | @adsabs

AAS 231 - 8-12 Jan 2018



astrophysics
data system

Don't Panic!



astrophysics
data system

Don't Panic!

...or how to survive the transition from
ADS Classic to Bumblebee



Whaaaaat?



Whaaaaat?

ADS (Classic) is going away

- Old technology hard to maintain
- Not compliant with current standards
- Drain on resources, prevents innovation





Whaaaaat?



ADS (Classic) is going away

- Old technology hard to maintain
- Not compliant with current standards
- Drain on resources, prevents innovation

Long live ADS (Bumblebee)!

- New interface is up and running
- Has the same content as ADS Classic
- Provides more functionality & features





Why?



Why?

Legacy

ADS Classic is over 20 years old, custom-built system predating Google, current web standards



Why?

Legacy

ADS Classic is over 20 years old, custom-built system predating Google, current web standards

Technology

400K lines of undocumented code, does not use state of the art search technology



Why?

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ADS Classic is over 20 years old, custom-built system predating Google, current web standards

Technology

400K lines of undocumented code, does not use state of the art search technology

Features

ADS Classic only indexes basic article metadata, not its contents (fulltext, graphics, data)



Who?



Who?

Lineage

ADS Bumblebee
uses the same
data as Classic,
wrapped in a
new package



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ADS Bumblebee
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Technology

State of the art
search, modern
user interface,
hosted in the
cloud



Who?

Lineage

ADS Bumblebee uses the same data as Classic, wrapped in a new package

Technology

State of the art search, modern user interface, hosted in the cloud

Features

Search and filter, visualize results, compute metrics, claim papers via ORCID



When?





When?



April 2018

All functionality
and content of
ADS Classic
available in ADS
Bumblebee



When?



April 2018

All functionality
and content of
ADS Classic
available in ADS
Bumblebee

October 2018

Use of ADS
Classic
discouraged in
favor of
Bumblebee



When?



April 2018

All functionality and content of ADS Classic available in ADS Bumblebee

October 2018

Use of ADS Classic discouraged in favor of Bumblebee

April 2019


ADS Classic search discontinued, redirected to Bumblebee



Where?



Where?

 **astrophysics data system**

Classic Form **Modern Form** Paper Form

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Where?

astrophysics data system

Classic Form Modern Form Paper Form

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Simple Search



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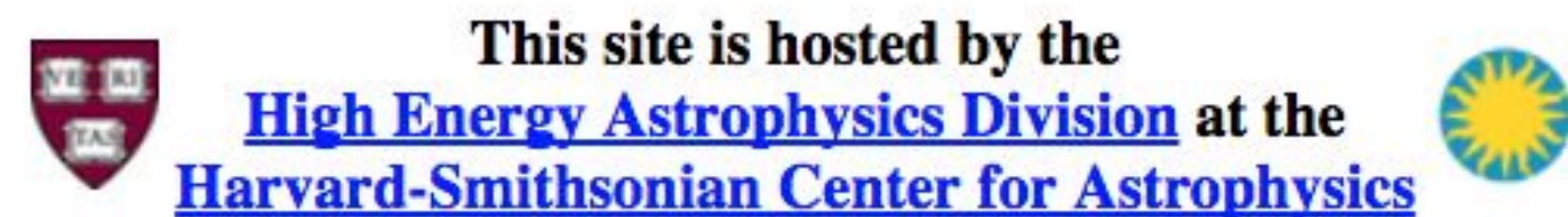
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Paper Form

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first author	author:"^huchra, john"	references	references(author:"huchra, j") ?
abstract + title	abs:"dark energy"	reviews	reviews("gamma-ray bursts") ?
year	year:2000		
year range	year:2000-2005	refereed	property:refereed ?
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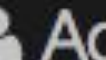
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Modern Form

Paper Form

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author:"szkody, p" [X] [Q]

- author** author:"huchra, john"
- first author** author:"^huchra, john"
- abstract + title** abs:"dark energy"
- year** year:2000
- year range** year:2000-2005
- full text** full:"gravitational waves"
- publication** bibstem:ApJ
- citations** citations(author:"huchra, j")
- references** references(author:"huchra, j")
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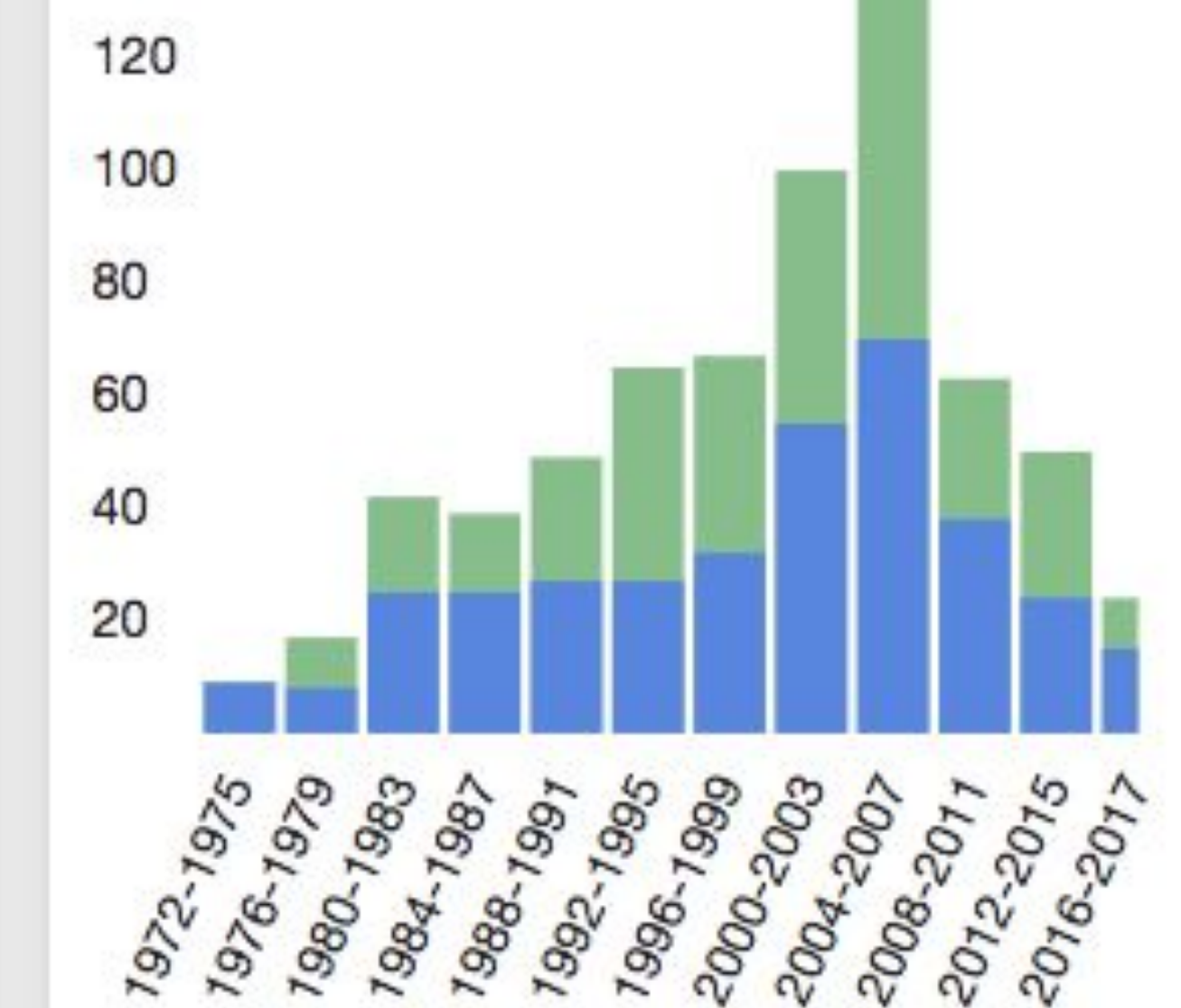
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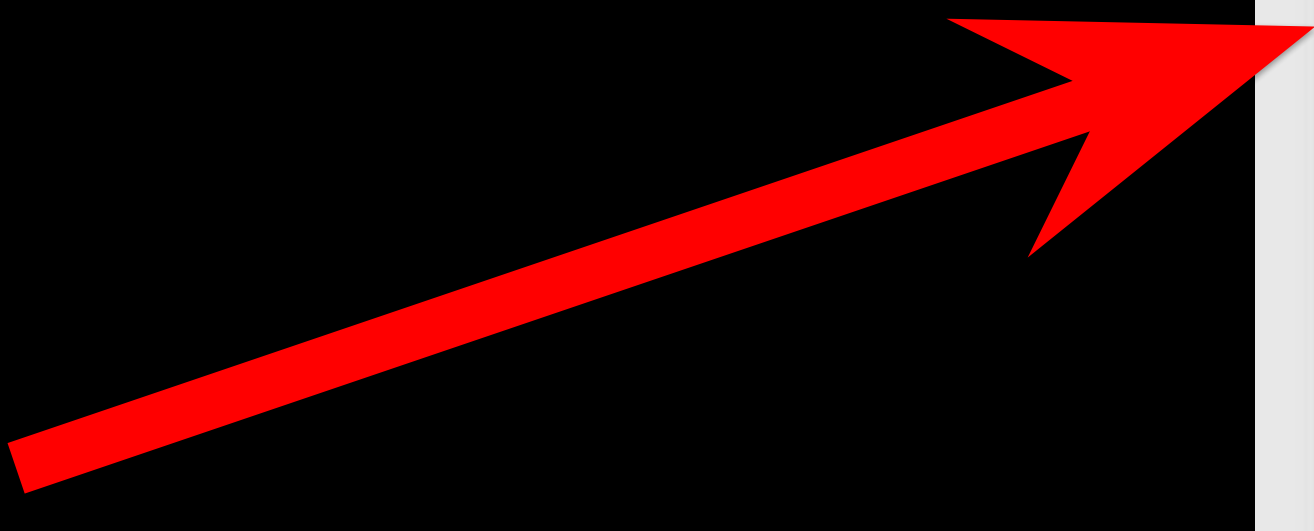
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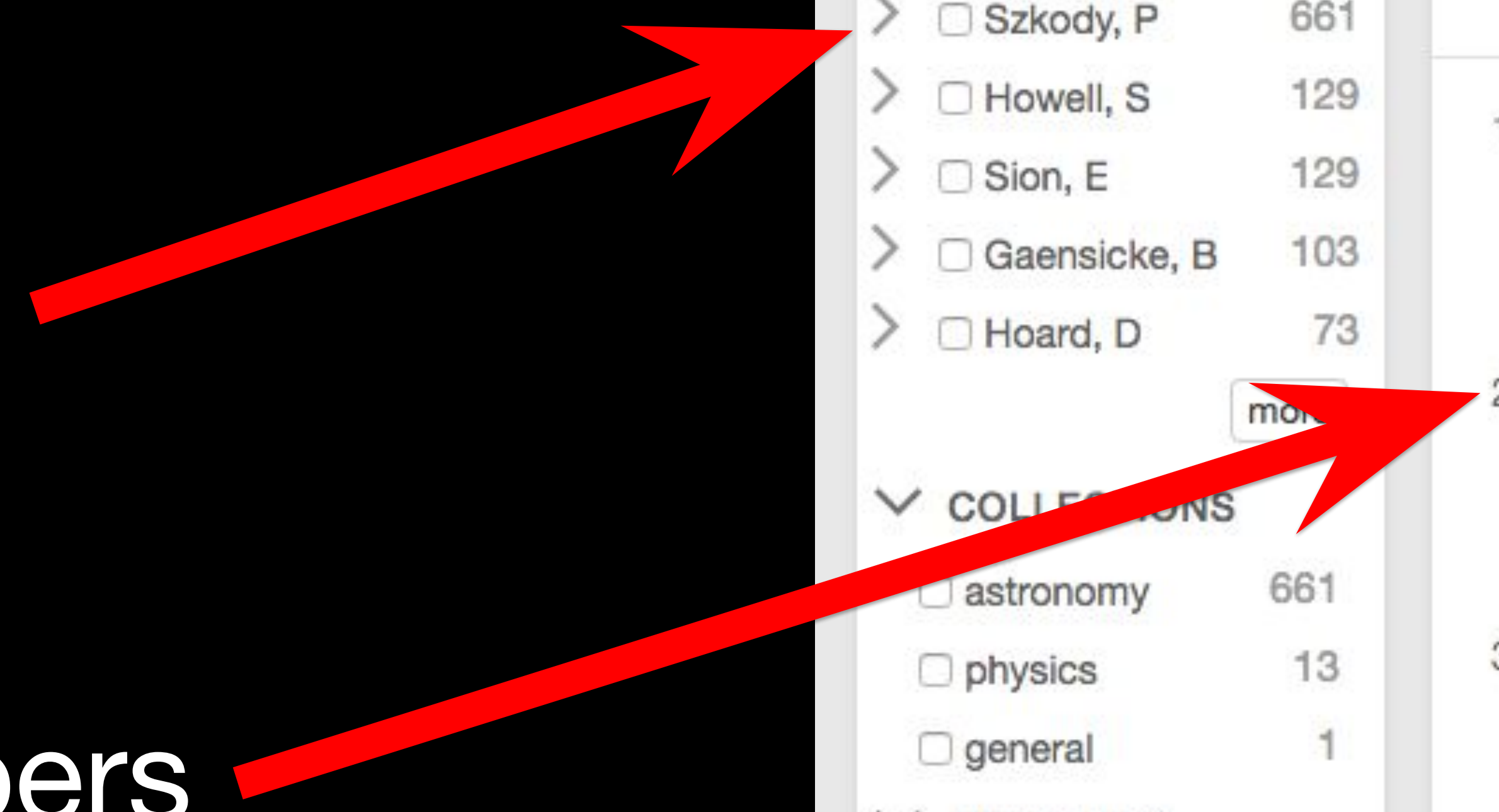
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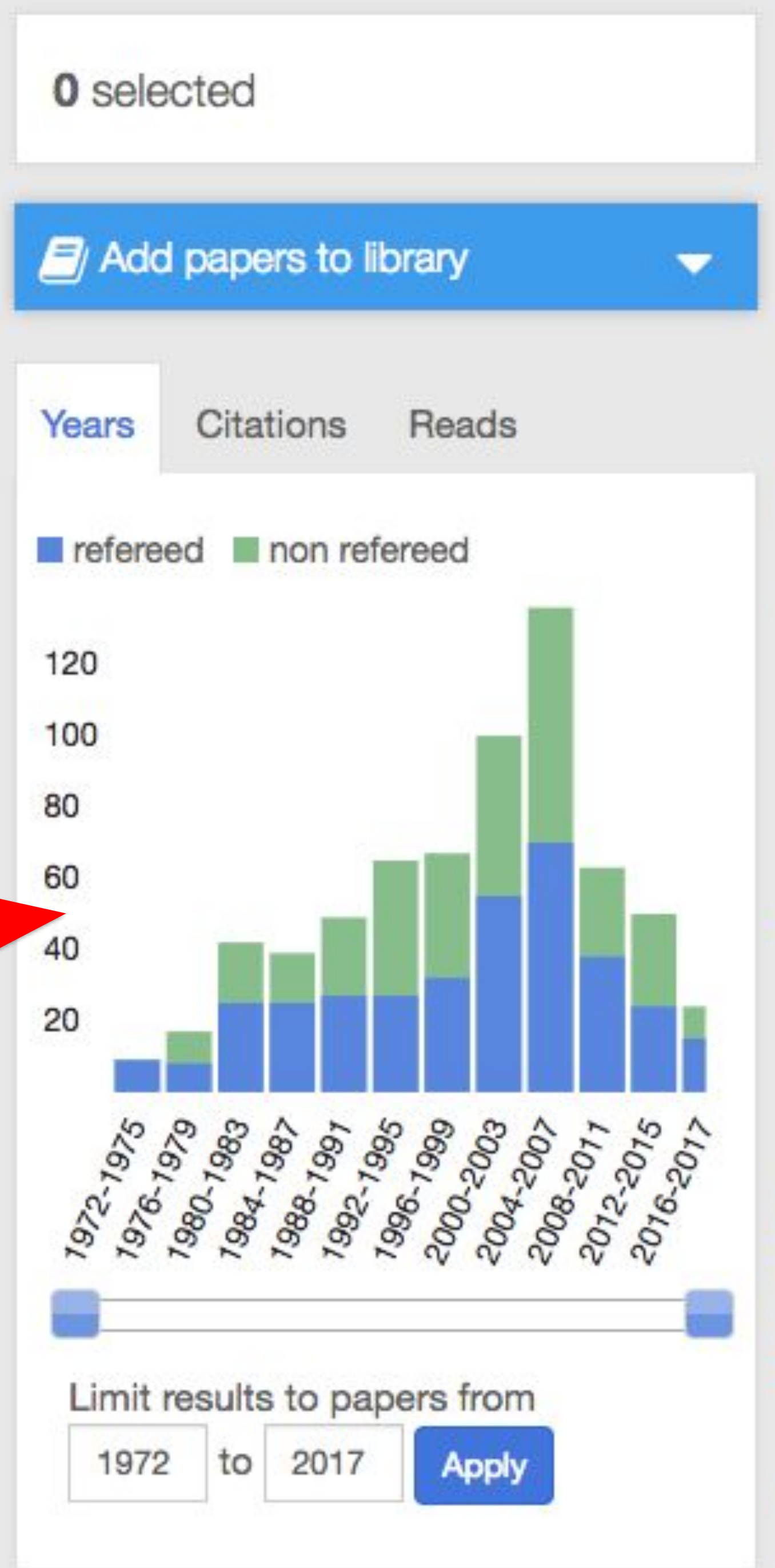
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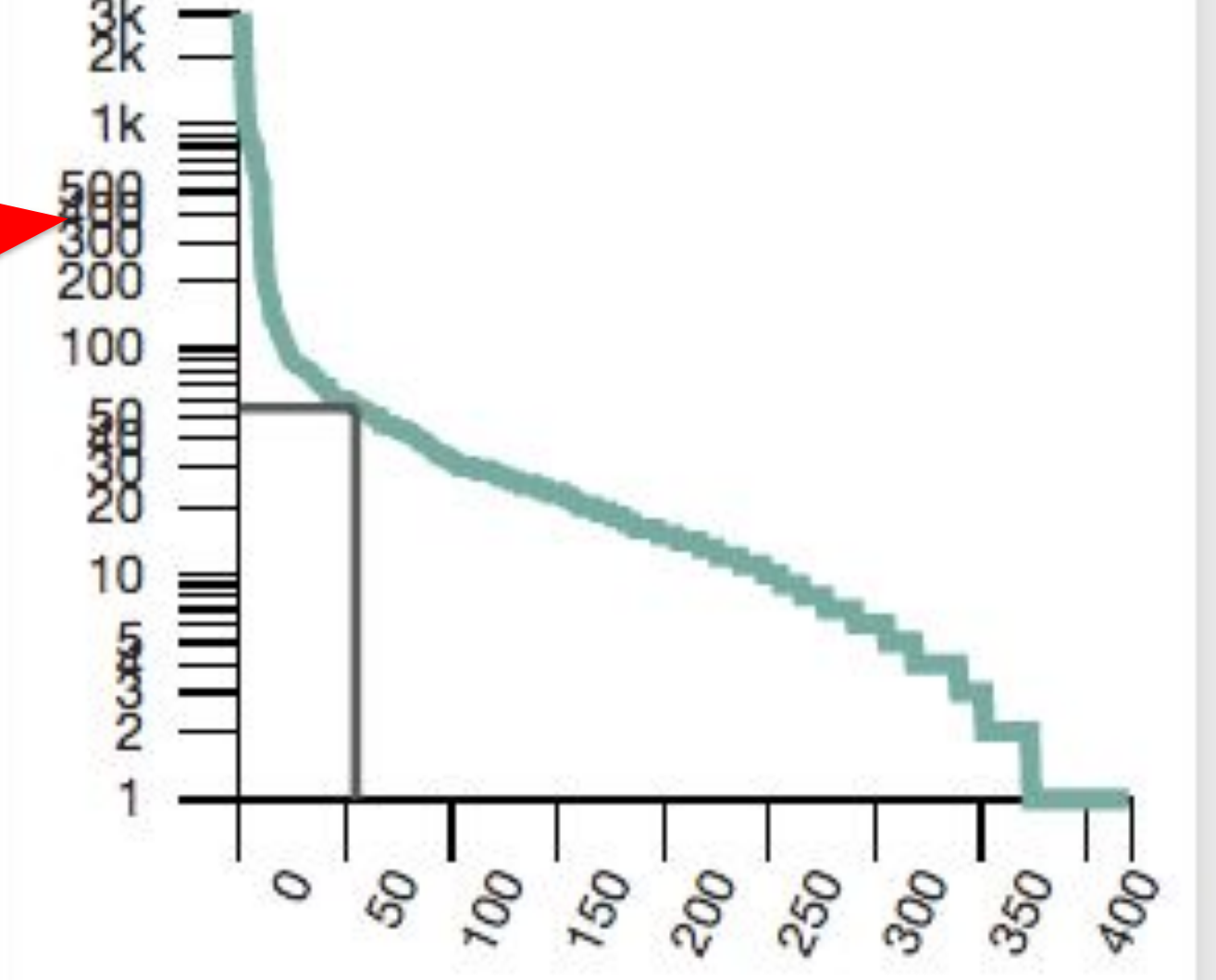
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Limit to top 661 most cited

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author:"szkody, p" X Q

Your search returned 661 results

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- AUTHORS
 - Szkody, P 661
 - Howell, S 129
 - Sion, E 129
 - Gaensicke, B 103
 - Hoard, D 73
- COLLECTIONS
 - astronomy 661
 - physics 13
 - general 1
- REFEREED
 - refereed 355
 - non-refereed 306
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Show abstracts

- 2017MNRAS.472.2937H 2017/12
Roche tomography of cataclysmic variables - VIII. The irradiated and spotted dwarf nova, SS Cygni
 Hill, C. A.; Smith, Robert Connon; Hebb, L. *and 1 more*
- 2017AJ....154..276Z 2017/12
Observational Study of an Unusual Cataclysmic Binary 2MASS J16211735+4412541
 Zola, S.; Szkody, P.; Ciprini, S. *and 7 more*
- 2017A&A...606A..45D 2017/10
Quiescent photometric modulations of two low-inclination cataclysmic variables KZ Geminorum and TW Virginis
 Dai, Zhibin; Szkody, Paula; Taani, Ali *and 2 more*
- 2017arXiv170804058L 2017/08 cited: 4
Science-Driven Optimization of the LSST Observing Strategy
 LSST Science Collaboration; Marshall, Phil; Anguita, Timo *and 102 more*
- 2017AJ....154...48H 2017/08
Hubble COS Spectroscopy of the Dwarf Nova CW Mon: The White Dwarf in Quiescence?
 Hause, Connor; Sion, Edward M.; Godon, Patrick *and 4 more*
- 2017MNRAS.466.2855P 2017/04 cited: 6
Effective temperatures of cataclysmic-variable white dwarfs as a probe of their evolution
 Pala, A. F.; Gänsicke, B. T.; Townsley, D. *and 29 more*
- 2017ASPC..509..341M 2017/03
Contrasting Accreting White Dwarf Pulsators with the ZZ Ceti Stars
 Mukadam, A. S.; Szkody, P.; Gänsicke, B. T. *and 1 more*
- 2017ASPC..509..335C 2017/03
The Post-outburst Pulsations of GW Librae
 Chote, P.; Mukadam, A. S.; Aungwerojwit, A. *and 7 more*

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Add papers to library

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H-Index for results: 28
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Limit to top 661 most read Apply

author:"szkody, p"

Co-authors

Recent papers

Reads



QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

author:"szkody, p"

Your search returned 661 results

sort: Date desc

Export Explore

author:"szkody, p"

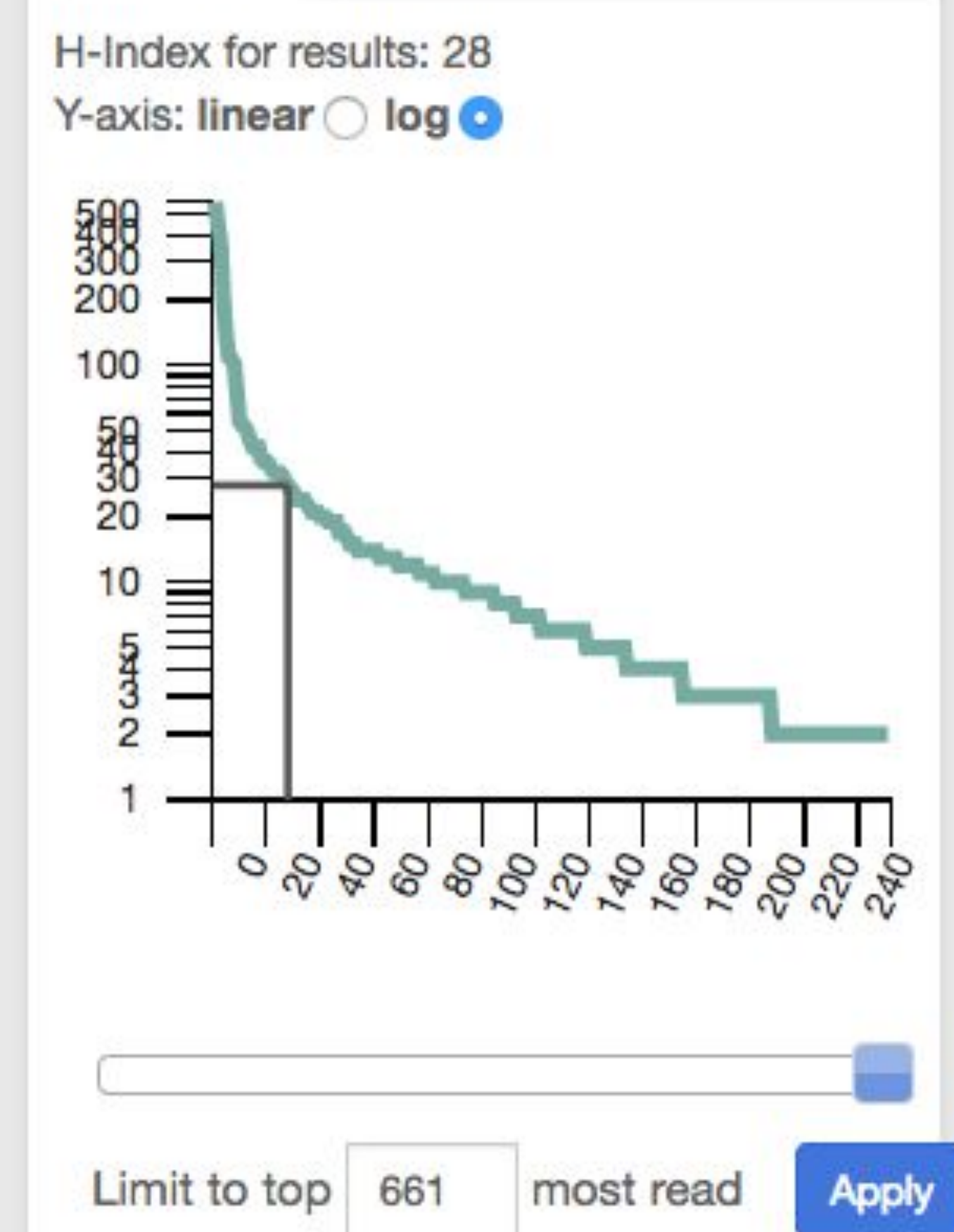
Metrics Page

- AUTHORS**
 - Szkody, P 661
 - Howell, S 129
 - Sion, E
 - Gaensicke, B 103
 - Hoard, D 73
 - more
- COLLECTIONS**
 - astronomy 661
 - physics 13
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- REFEREED**
 - refereed 355
 - non-refereed 306
- KEYWORDS**
- PUBLICATIONS**
- BIB GROUPS**
- SIMBAD OBJECTS**
- DATA**
- VIZIER TABLES**
- GRANTS**
- PUBLICATION TYPE**

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- 2017MNRAS.472.2937H 2017/12
Roche tomography of cataclysmic variables - VIII. The irradiated and spotted dwarf nova, SS Cygni
Hill, C. A.; Smith, Robert Connon; Hebb, L. *and 1 more*
- 2017AJ....154..276Z 2017/12
Observational Study of an Unusual Cataclysmic Binary 2MASS J16211735+4412541
Zola, S.; Szkody, P.; Ciprini, S. *and 7 more*
- 2017A&A...606A..45D 2017/10
Quiescent photometric modulations of two low-inclination cataclysmic variables KZ Geminorum and TW Virginis
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Science-Driven Optimization of the LSST Observing Strategy
LSST Science Collaboration; Marshall, Phil; Anguita, Timo *and 102 more*
- 2017AJ....154...48H 2017/08
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Hause, Connor; Sion, Edward M.; Godon, Patrick *and 4 more*
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The Post-outburst Pulsations of GW Librae
Chote, P.; Mukadam, A. S.; Aungwerojwit, A. *and 7 more*

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- Author Network
- Paper Network
- Concept Cloud
- Results Graph



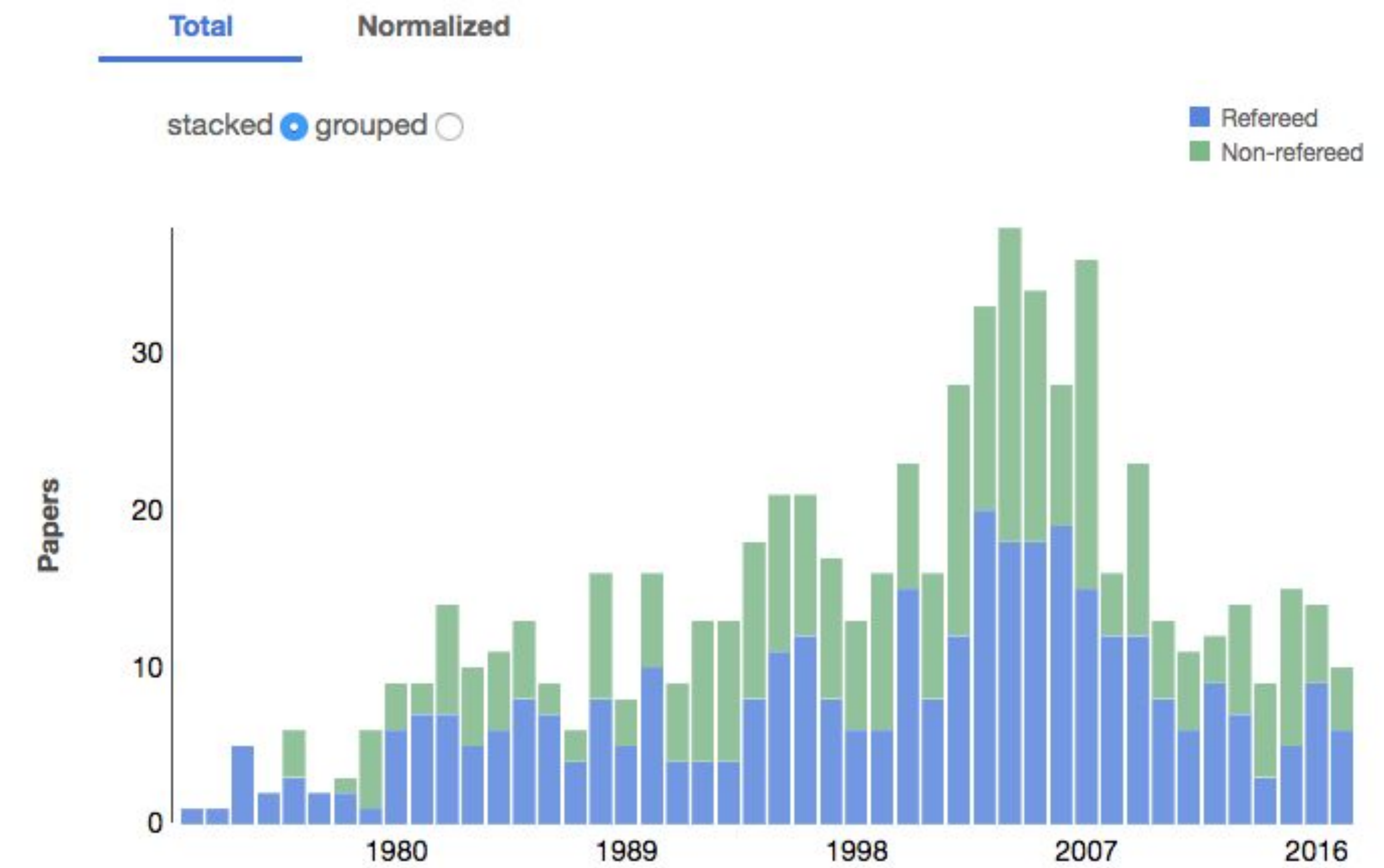
author: "szkody, p"

Papers

Citations

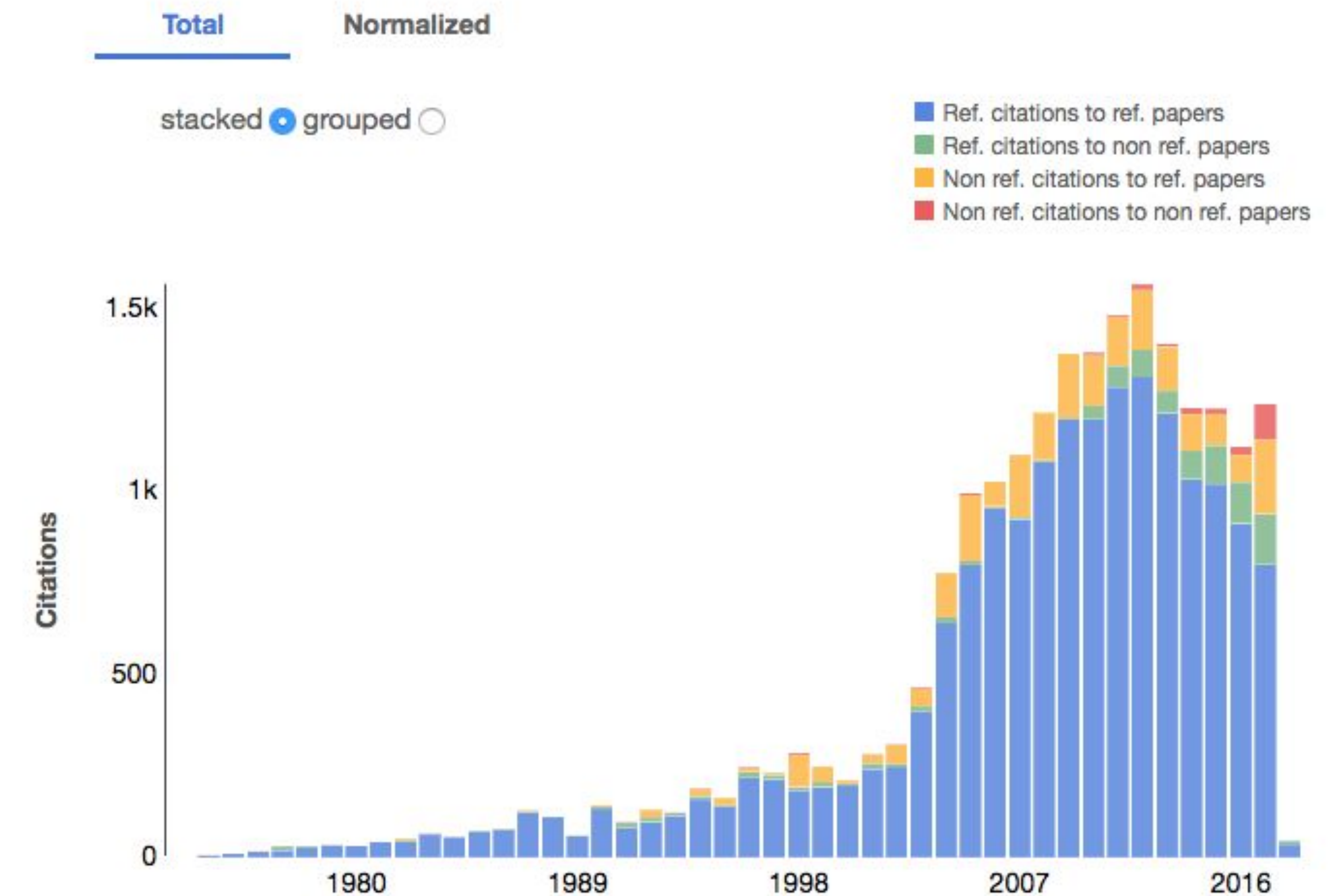
Papers

	Totals	Refereed
Number of papers	661	355
Normalized paper count	239.2	99.4



Citations

	Totals	Refereed
Number of citing papers	12310	11521
Total citations	21139	20000
Number of self-citations	1930	1834
Average citations	32.0	56.3
Median citations	4	17
Normalized citations	2473.4	2342.3
Refereed citations	18666	17757
Average refereed citations	28.2	50.0
Median refereed citations	4	15
Normalized refereed citations	2226.6	2110.6



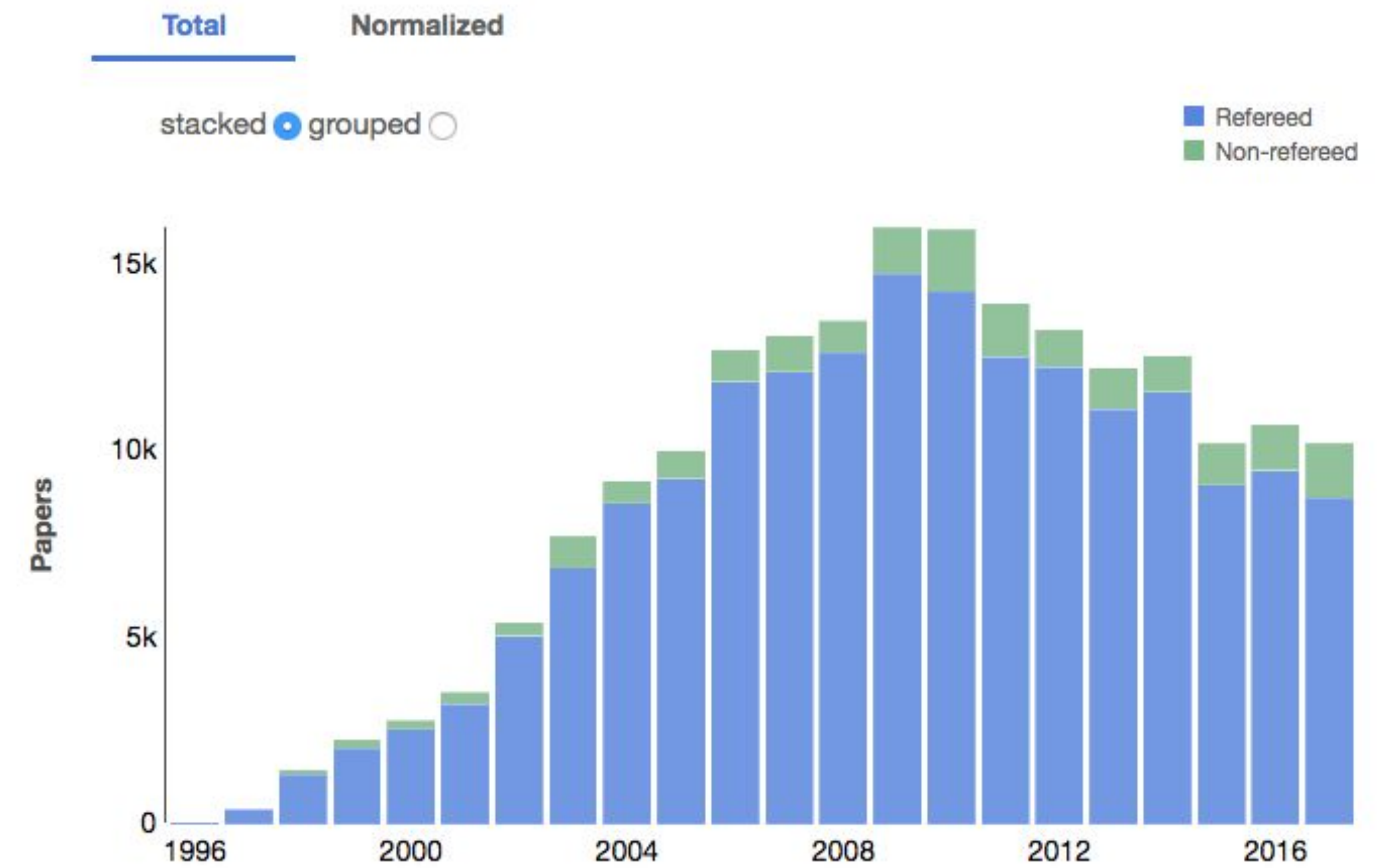
author: "szkody, p"

Reads

Indices

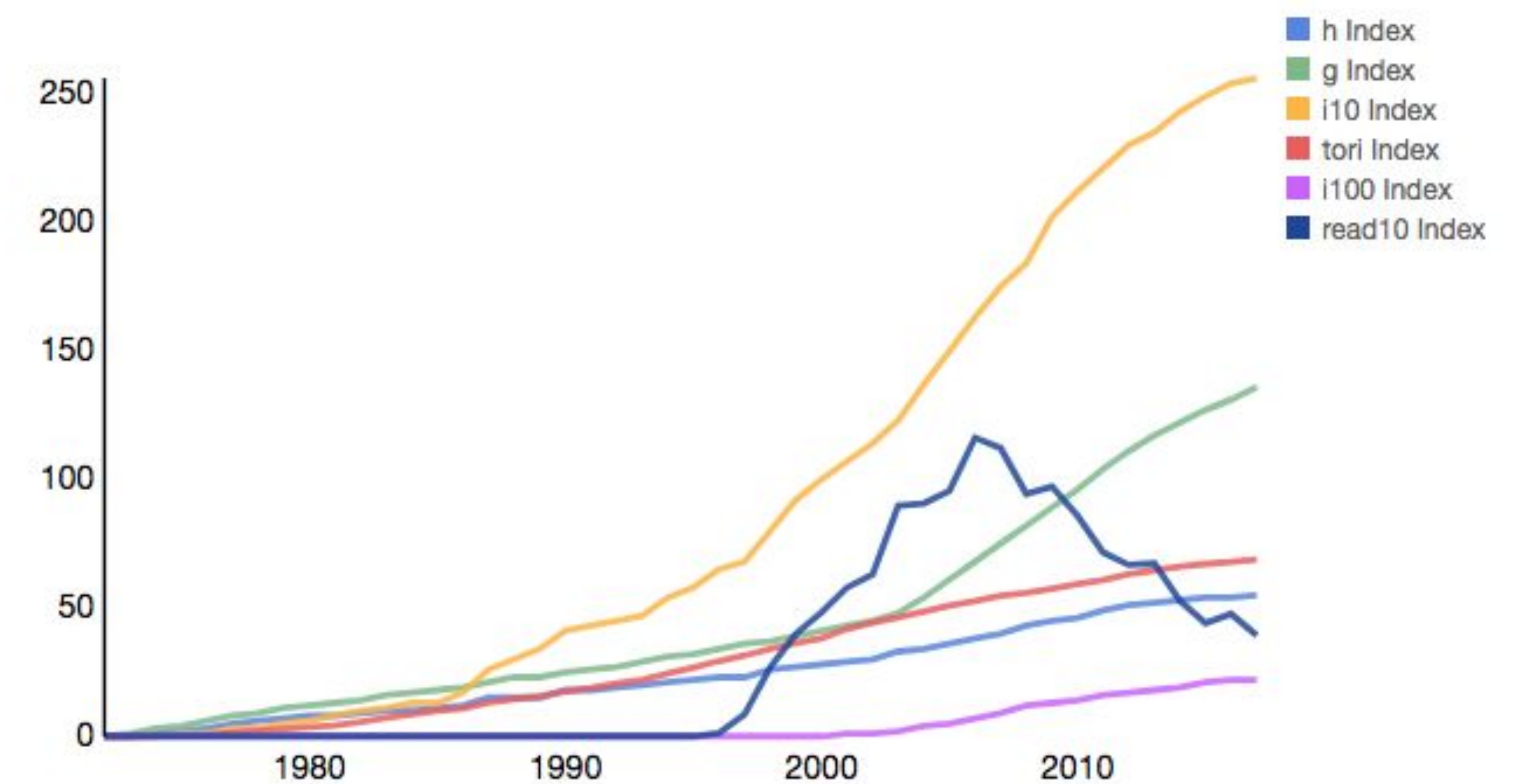
Reads

	Totals	Refereed
Total number of reads	197023	179533
Average number of reads	299.4	505.7
Median number of reads	92.5	278
Total number of downloads	104720	99577
Average number of downloads	159.1	280.5
Median number of downloads	44	44



Indices

	Totals	Refereed
h-index	55	55
m-index	1.2	1.2
g-index	136	133
i10-index	256	246
i100-index	22	21
tori index	68.9	65.2
riq index	180	175
read10-index	392.1	317.5



“TRAPPIST-1”

Searches:

- Author
- Title
- Abstract
- Keywords
- Fulltext

The screenshot shows the ADS Beta search interface. At the top, the search term "TRAPPIST-1" is entered in the search box, and the results are sorted by "Date desc". The search returned 228 results. On the left, there are filters for Authors (Gillon, M: 25; Triaud, A: 22; Jehin, E: 19; Queloz, D: 19; Bolmont, E: 14), Collections (astronomy: 224; physics: 28; general: 13), and Refereed status (refereed: 96; non-refereed: 94). The main results list shows five entries, each with a checkbox, a citation key, a date, and a title. The first entry is "Trapping of low-mass planets outside the truncated inner edges of protoplanetary discs" by Miranda, Ryan; Lai, Dong, published in 2018MNRAS.473.5267M. The second entry is "Stratosphere circulation on tidally locked ExoEarths" by Carone, L.; Keppens, R.; Decin, L. and 1 more, published in 2018MNRAS.473.4672C. The third entry is "Hydrocode modeling of the spallation process during hypervelocity impacts: Implications for the ejection of Martian meteorites" by Kurosawa, Kosuke; Okamoto, Takaya; Genda, Hidenori, published in 2018Icar..301..219K. The fourth entry is "Transit visibility zones of the Solar system planets" by Wells, R.; Poppenhaeger, K.; Watson, C. A. and 1 more, published in 2018MNRAS.473..345W. The fifth entry is "Searching for the Transit of the Earth-mass Exoplanet Proxima Centauri b in Antarctica: Preliminary Result" by Liu, Hui-Gen; Jiang, Peng; Huang, Xingxing and 21 more, published in 2018AJ....155...12L. On the right, there is a "Years" tab with a bar chart showing the number of refereed (blue) and non-refereed (green) papers from 2011 to 2018. The chart shows a significant increase in 2017, with a total of approximately 160 papers. Below the chart, there is a "Limit results to papers from" section with a date range from 2011 to 2018 and an "Apply" button.

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QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

"TRAPPIST-1"

Your search returned 228 results

sort: Date desc

Export

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0 selected

Add papers to library

Years Citations Reads

refereed non refereed

2011 2012 2013 2014 2015 2016 2017 2018

Limit results to papers from 2011 to 2018 Apply

Hide highlights Show abstracts

1 2018MNRAS.473.5267M 2018/02

Trapping of low-mass planets outside the truncated inner edges of protoplanetary discs

Miranda, Ryan; Lai, Dong

with multiple coplanar, transiting planets, such as Kepler 11 (Lissauer et al. 2011) and TRAPPIST-1 (Gillon)

2 2018MNRAS.473.4672C 2018/02

Stratosphere circulation on tidally locked ExoEarths

Carone, L.; Keppens, R.; Decin, L. and 1 more

like the TRAPPIST-1 planets, Proxima Centauri b, LHS 1140 b and GJ 667 C f (Anglada-Escudé et al. 2013, 2016; Gillon)

3 2018Icar..301..219K 2018/02

Hydrocode modeling of the spallation process during hypervelocity impacts: Implications for the ejection of Martian meteorites

Kurosawa, Kosuke; Okamoto, Takaya; Genda, Hidenori

.LyonsF.J.CieslaFast litho-panspermia in the habitable zone of the TRAPPIST-1 systemAstrophys. J.

4 2018MNRAS.473..345W 2018/01 cited: 1

Transit visibility zones of the Solar system planets

Wells, R.; Poppenhaeger, K.; Watson, C. A. and 1 more

around M-dwarfs, such as planets e, f and g in the TRAPPIST-1 system, which have periods of 6.06, 9.1 and 12.35 d,

5 2018AJ....155...12L 2018/01 cited: 1

Searching for the Transit of the Earth-mass Exoplanet Proxima Centauri b in Antarctica: Preliminary Result

Liu, Hui-Gen; Jiang, Peng; Huang, Xingxing and 21 more

(MMP) orbits (Ye 2013, 2014). 16-16 Note that the planets of TRAPPIST-1 in near

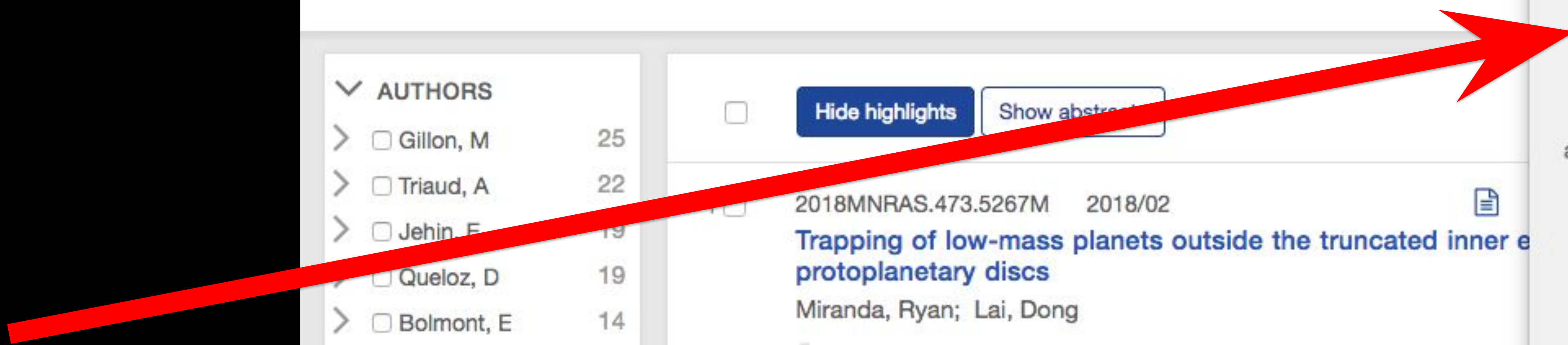
QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

"TRAPPIST-1" [X] [Q]

Your search returned 228 results

"TRAPPIST-1"

Resort by reads



- sort: v
- descending
 - Citation Count desc
 - Date desc
 - Read Count desc
 - Relevancy desc
 - First Author desc
 - Bibcode desc
 - ascending
 - Citation Count asc
 - Date asc
 - Read Count asc
 - Relevancy asc
 - First Author asc
 - Bibcode asc

- AUTHORS
- Gillon, M 25
 - Triaud, A 22
 - Jehin, E 19
 - Queloz, D 19
 - Bolmont, E 14
- more
- COLLECTIONS
- astronomy 224
 - physics 28
 - general 13
- REFEREED
- refereed 96
 - non-refereed 94
- KEYWORDS
- PUBLICATIONS
- BIB GROUPS
- SIMBAD OBJECTS
- DATA
- VIZIER TABLES
- GRANTS
- PUBLICATION TYPE

Hide highlights Show abstract

2018MNRAS.473.5267M 2018/02

Trapping of low-mass planets outside the truncated inner edge of protoplanetary discs

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2018AJ....155...12L 2018/01 cited: 1

Searching for the Transit of the Earth-mass Exoplanet Proxima Centauri b in Antarctica: Preliminary Result

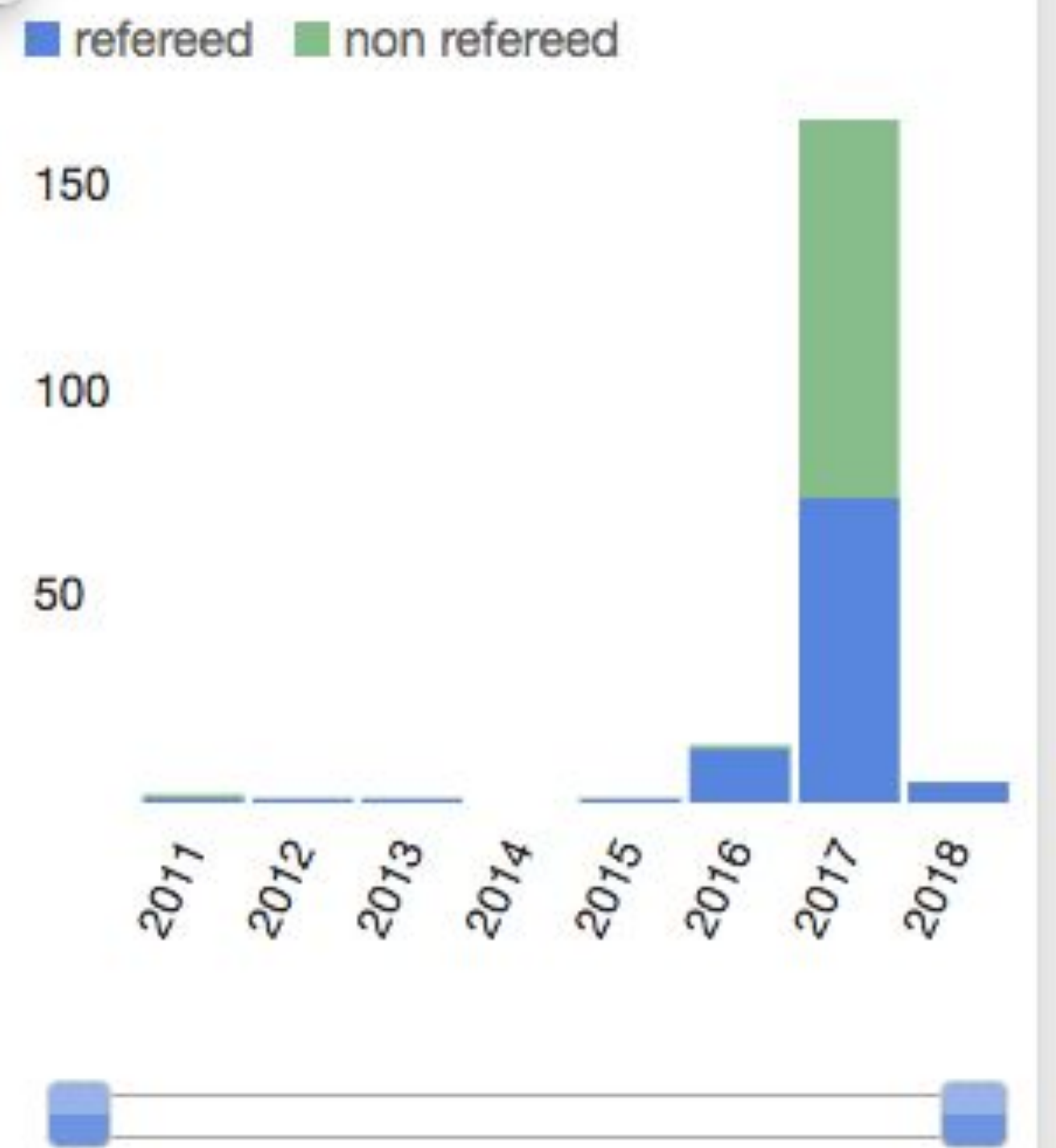
Liu, Hui-Gen; Jiang, Peng; Huang, Xingxing and 21 more

(MMP) orbits (Xie 2013, 2014). 16-16 Note that the planets of TRAPPIST-1 in near

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Years Citations Reads



Limit results to papers from 2011 to 2018 Apply

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

"TRAPPIST-1"

Your search returned 228 results

sort: Read Count desc

Export

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"TRAPPIST-1"

Most read papers

- ▼ AUTHORS
 - > Gillon, M 25
 - > Triaud, A 22
 - > Jehin, E 19
 - > Queloz, D 19
 - > Bolmont, E 14
 -
- ▼ COLLECTIONS
 - astronomy 224
 - physics 28
 - general 13
- ▼ REFEREED
 - refereed 96
 - non-refereed 94
- > KEYWORDS
- > PUBLICATIONS
- > BIB GROUPS
- > SIMBAD OBJECTS
- > DATA
- > VIZIER TABLES
- > GRANTS
- > PUBLICATION TYPE

1 2017Natur.542..456G 2017/02 cited: 128

Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1
 Gillon, Michaël; Triaud, Amaury H. M. J.; Demory, Brice-Olivier and 27 more

Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1 to those of Earth revolve around TRAPPIST-1. The six inner planets form a near-resonant chain, Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1 Michaël

2 2017arXiv171006209H 2017/10

The nature of the giant exomoon candidate Kepler-1625 b-i
 Heller, René

diagram as Proxima b, the TRAPPIST-1 system, and LHS 1140 b. The capture of a Neptune-mass object of the satellite-to-host mass ratio diagram as Proxima b, the TRAPPIST-1 system, and LHS 1140 b. The capture

3 2017arXiv171011134L 2017/10 cited: 2

Is Life Most Likely Around Sun-like Stars?
 Lingam, Manasvi; Loeb, Abraham

Centauri, TRAPPIST-1 and LHS 1140 are inhabited is low. Planets around higher-mass M

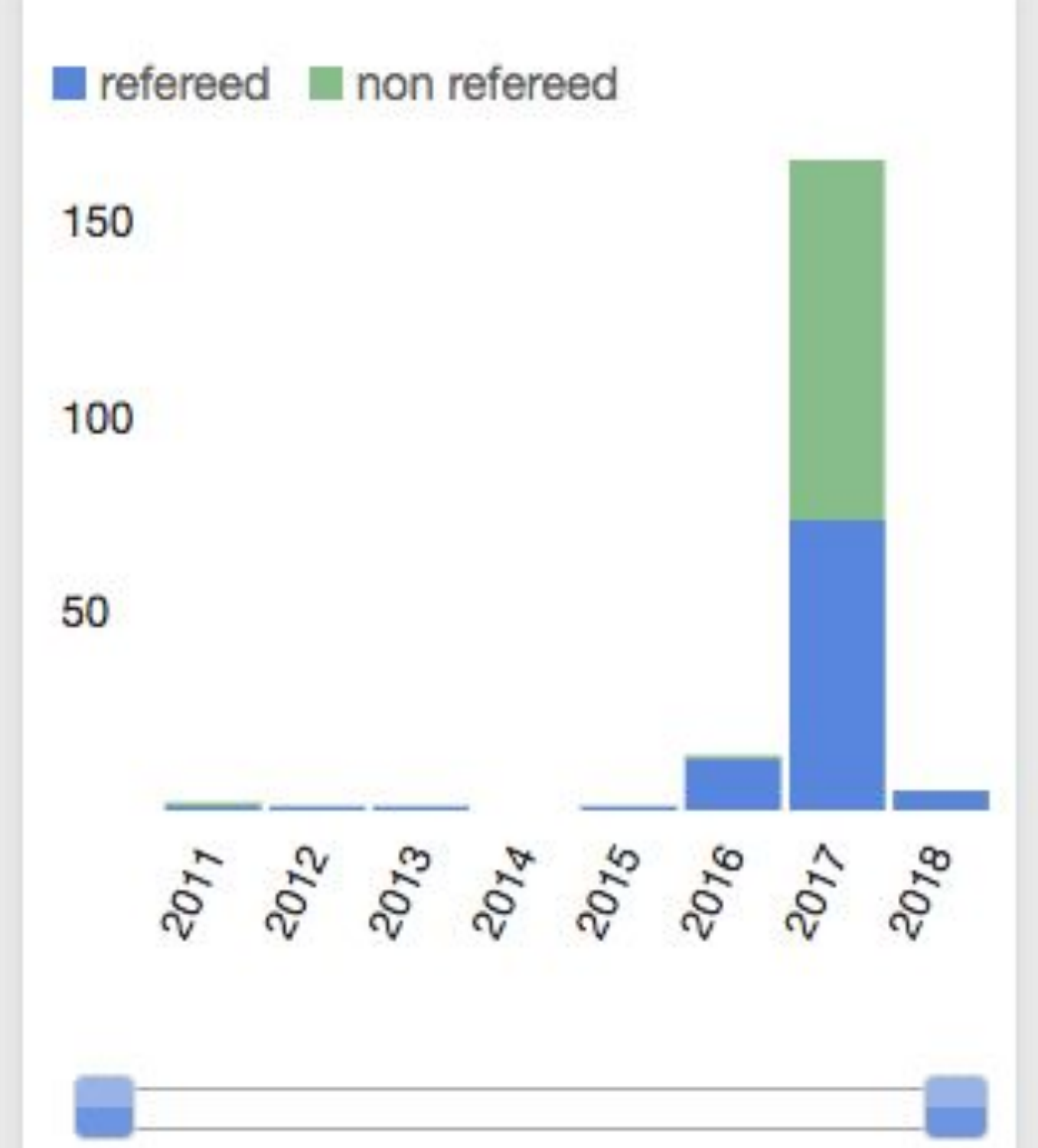
4 2017arXiv171109908L 2017/11

Subsurface Exolife
 Lingam, Manasvi; Loeb, Abraham

303(5654):59–62. Lingam, M. and Loeb, A. (2017a). Enhanced interplanetary panspermia in the TRAPPIST-1 system.

0 selected

Years Citations Reads



Limit results to papers from 2011 to 2018

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

"TRAPPIST-1" [X] [Q]

Your search returned 228 results

sort: Read Count desc

Export

Explore

Currently viewing data for 228 papers.

Filter current search: X clear

Change to first [] papers (max is 228). Submit

select an author or group of authors in the visualization below and click the "add to filter" button



Size wedges based on:

Number of Papers

Paper Citations

Paper Downloads

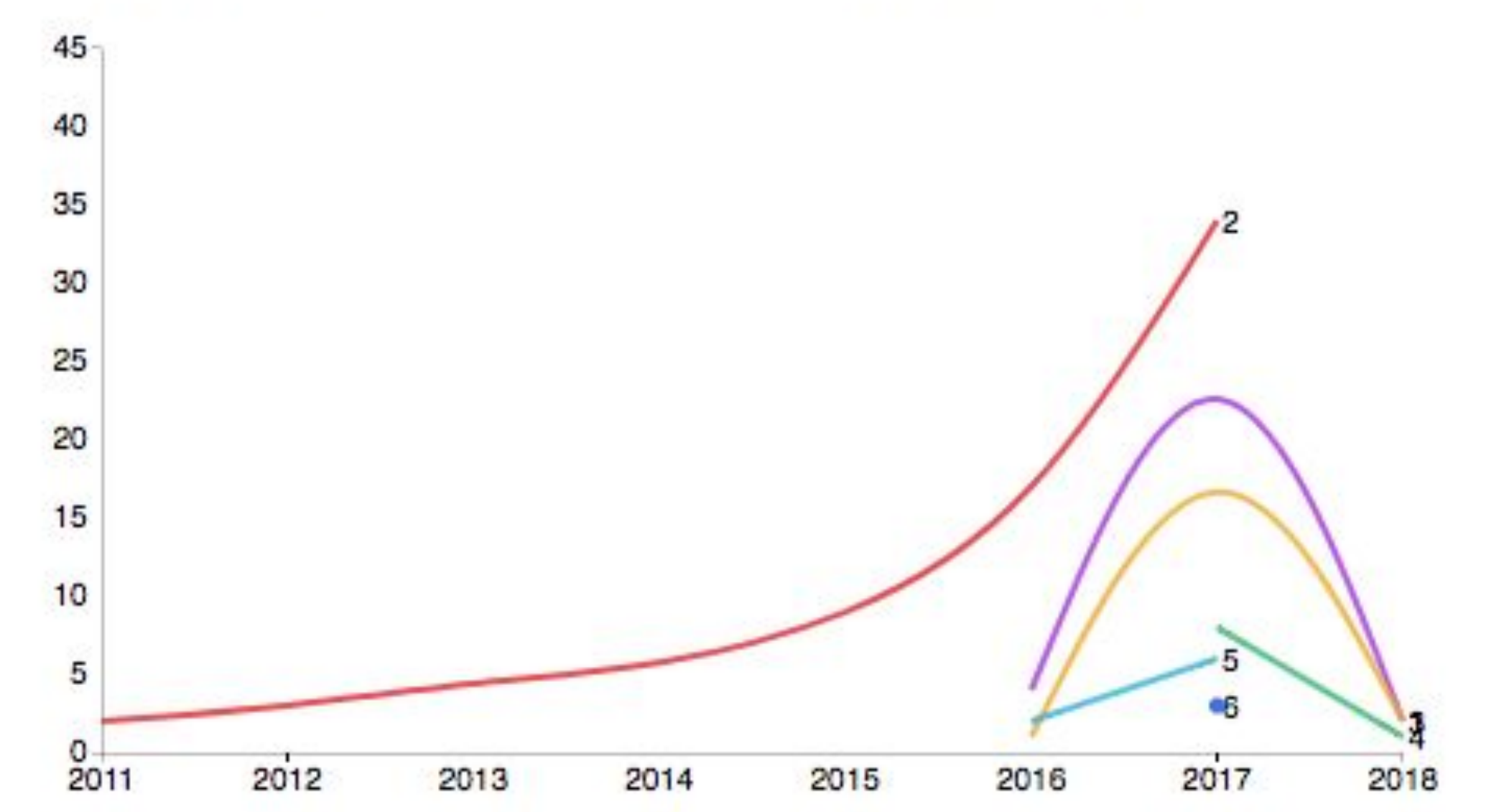
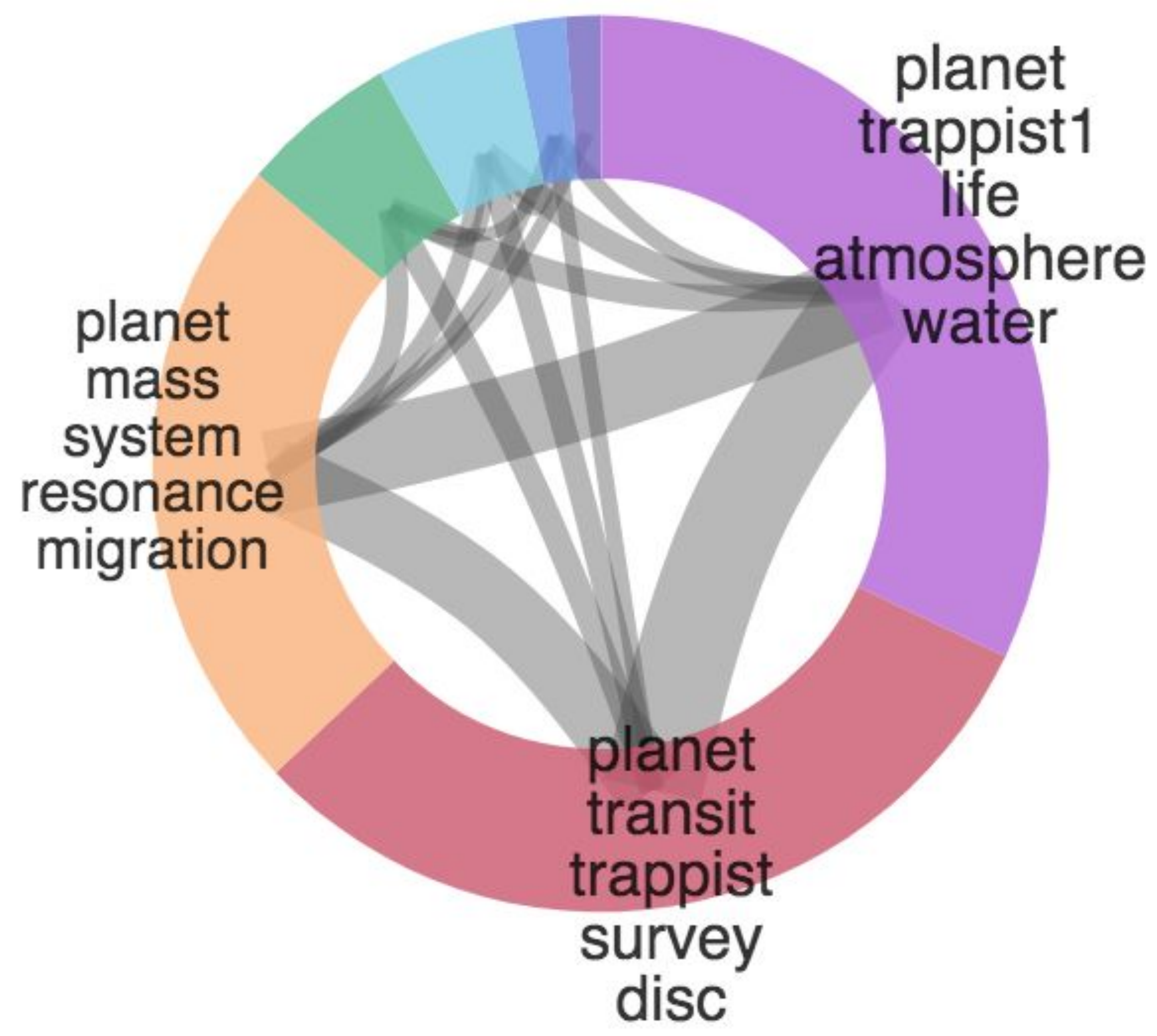
Summary

Detail

Paper Network for Query

The segments of the visualization to the left represent groups of papers from your result set which cite similar papers.

Group Activity Over Time (measured in papers published)



Click on a group to learn more about the papers within the group, as well as the papers cited by those papers.

[Learn more about the paper network.](#)

“TRAPPIST-1”

Paper network

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

"TRAPPIST-1" X Q

Your search returned 228 results

sort: Read Count desc

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Currently viewing data for 228 papers.

Filter current search: X clear

Change to first [] papers (max is 228). Submit

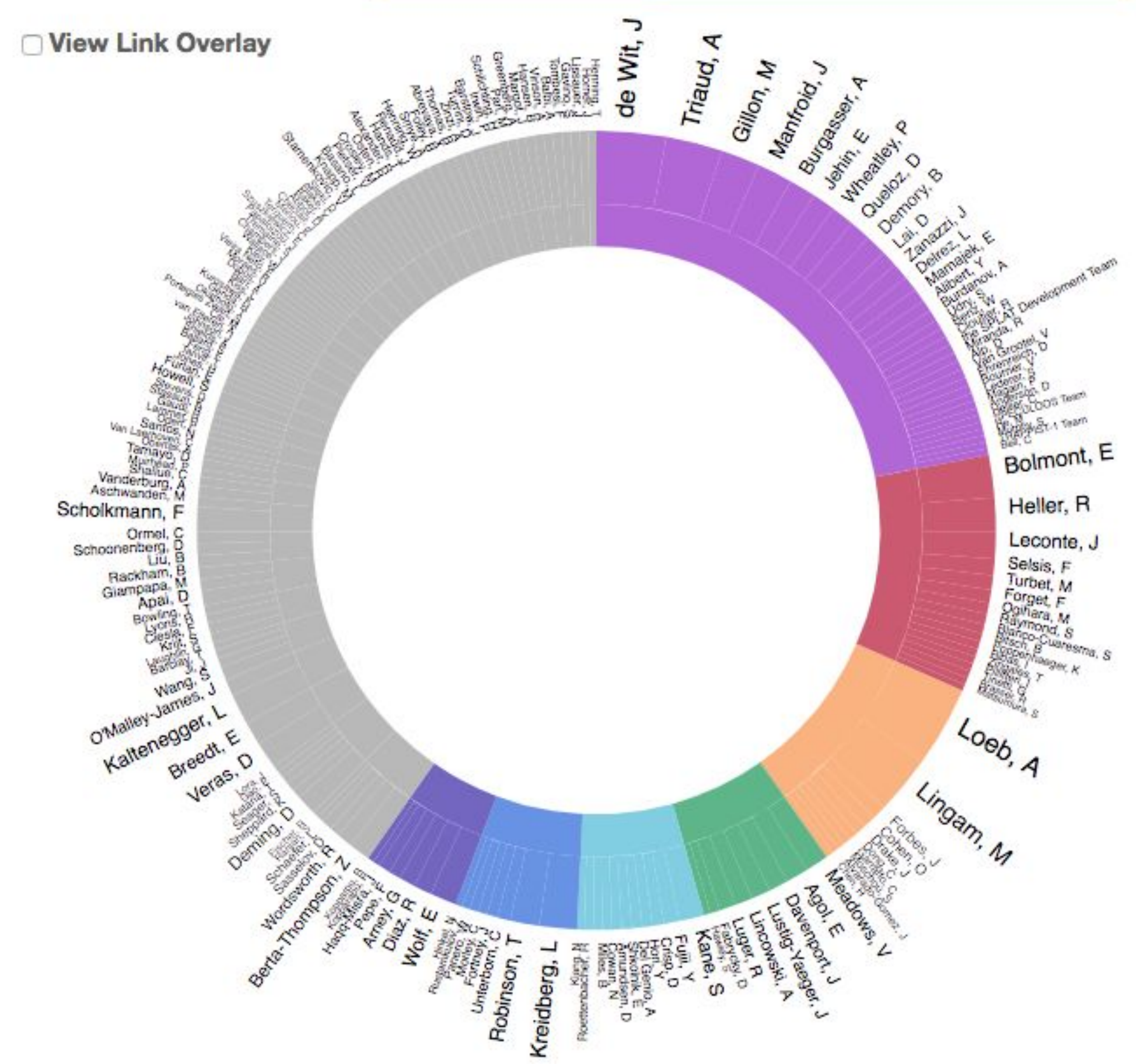
select an author or group of authors in the visualization below and click the "add to filter" button



Size wedges based on: Author Occurrences Paper Citations Paper Downloads

Summary Detail

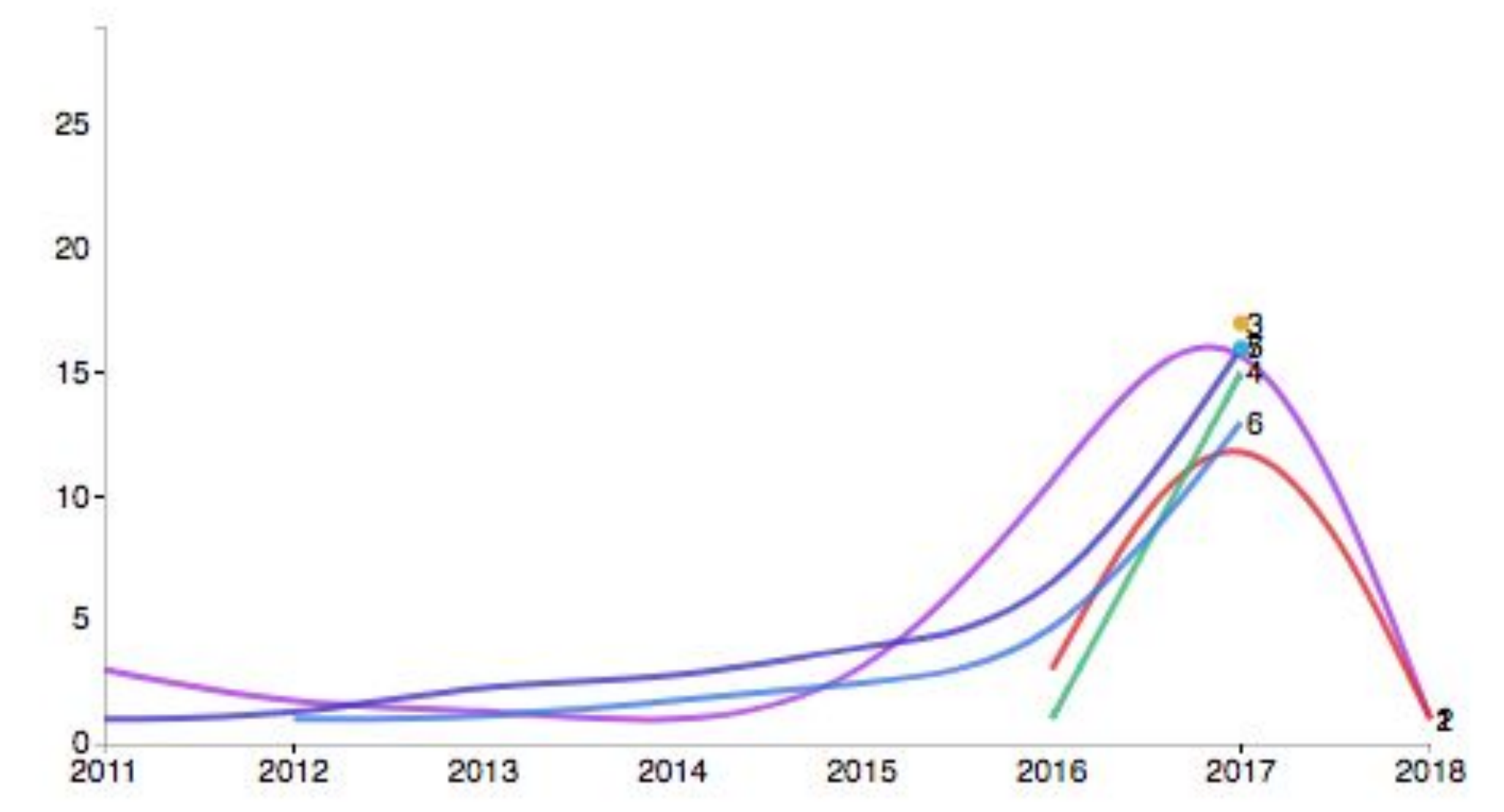
View Link Overlay



Author Network

This network visualization finds groups of authors within your search results. You can click on the segments to view the papers connected with a group or a particular author.

Group Activity Over Time (measured in papers published)



Learn more about the author network.

If you are interested in seeing the author network for another author, you can do that directly by clicking on the author in the ring visualization, then clicking the button at the top.

You can zoom and drag the visualization to reposition it.

"TRAPPIST-1"

Author network

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

"TRAPPIST-1" X Q

Your search returned 228 results

sort: Read Count desc Export Explore

Currently viewing data for 228 papers.

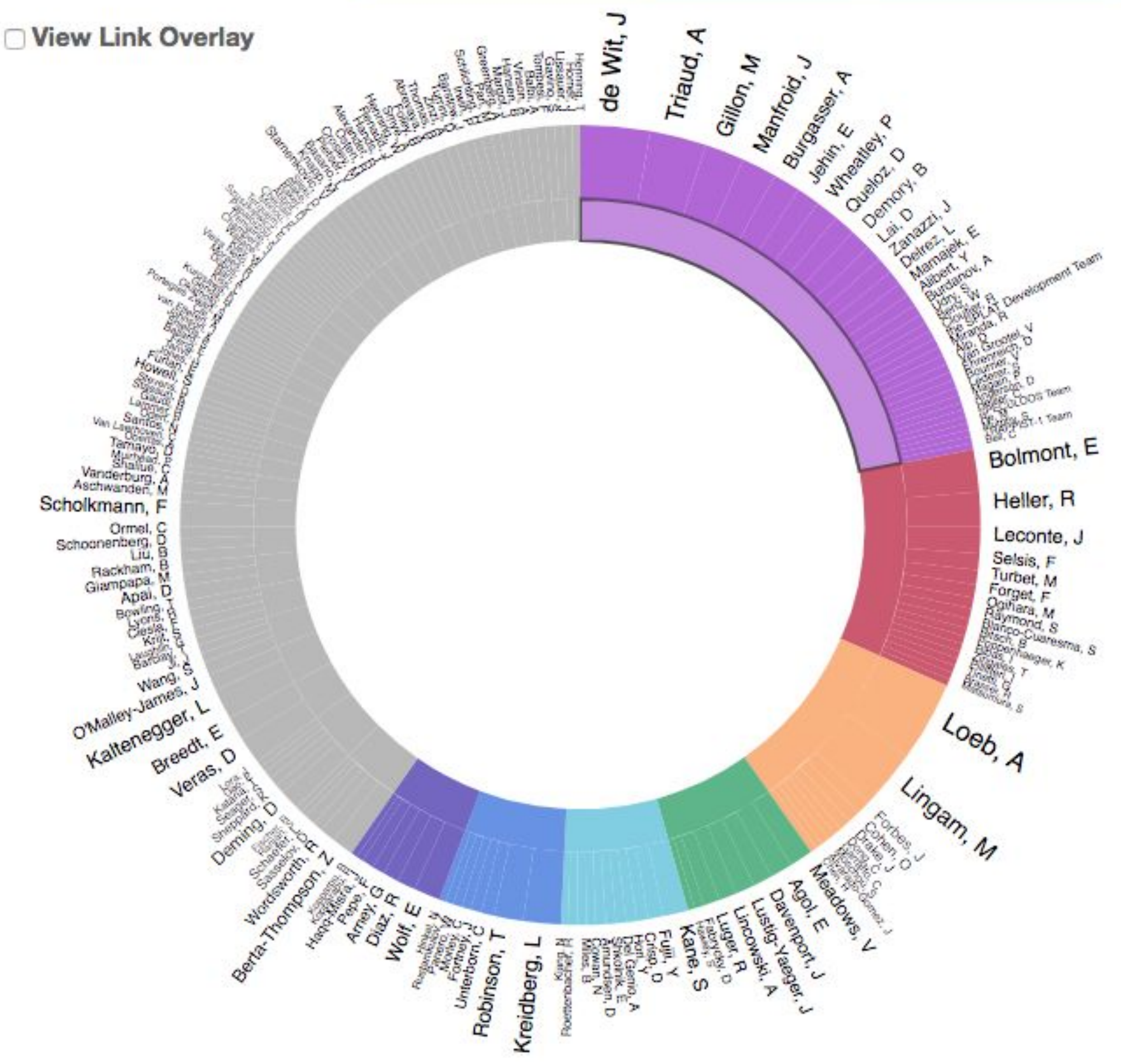
Filter current search: X clear

Change to first [] papers (max is 228). Submit

select an author or group of authors in the visualization below and click the "add to filter" button

Size wedges based on: Author Occurrences Paper Citations Paper Downloads

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Summary Detail add to filter

Group 1

Total papers: 51 Most recent: 2018

- Temperate Earth-sized planets transiting a nearby ultracool dwarf star** 103 citations (12 authors from this group)
- A combined transmission spectrum of the Earth-sized exoplanets TRAPPIST-1 b and c** 32 citations (11 authors from this group)
- Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1** 128 citations (12 authors from this group)
- Reconnaissance of the TRAPPIST-1 exoplanet system in the Lyman- α line** 16 citations (9 authors from this group)
- The TRAPPIST survey of southern transiting planets. I. Thirty eclipses of the ultra-short period planet WASP-43 b** 66 citations (8 authors from this group)
- Strong XUV irradiation of the Earth-sized exoplanets orbiting the ultracool dwarf TRAPPIST-1** 18 citations (4 authors from this group)
- Hot Jupiters with relatives: discovery of additional planets in orbit around WASP-41 and WASP-47** 35 citations (8 authors from this group)
- TRAPPIST: a robotic telescope dedicated to the study of planetary systems** 11 citations (6 authors from this group)
- The EBLM project. I. Physical and orbital parameters, including spin-orbit angles, of two low-mass eclipsing binaries on opposite sides of the brown dwarf limit** 38 citations (7 authors from this group)
- On the Age of the TRAPPIST-1 System** 6 citations (2 authors from this group)
- WASP-50 b: a hot Jupiter transiting a moderately active solar-type star** 26 citations (9 authors from this group)
- First limits on the occurrence rate of short-period planets orbiting brown dwarfs** 4 citations (3 authors from this group)

"TRAPPIST-1"

Author network exploration



More search options...



Search fulltext

More search options...

full:(HST or JWST)





More search options...

Search fulltext

full:(HST or JWST)



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More search options...

Search fulltext

full:(HST or JWST)



Acknowledgments

ack:ADS



Affiliations

aff:(Harvard or HCO or SAO)





...than you asked for



Citation search

...than you asked for

`citations(author:"kurtz, m")`





Citation search

...than you asked for

`citations(author:"kurtz, m")`



"data" search

`data:(CXO or XMM) data:HST`





...than you asked for

Citation search

`citations(author:"kurtz, m")`



"data" search

`data:(CXO or XMM) data:HST`



ORCID search

`orcid:000-0002-4110-3511`





astrophysics
data system



ads.harvard.edu

Send Query Return Query Form Store Default Form Clear

Databases to query: Astronomy Physics arXiv e-prints

Authors: (Last, First M, one per line) SIMBAD NED ADS Objects

Exact name matching Object name/position search

Require author for selection Require object for selection

(OR AND simple logic) (Combine with: OR AND)

Publication Date between and
(MM) (YYYY) (MM) (YYYY)

Enter Title Words Require title for selection
(Combine with: OR AND simple logic boolean logic)

Enter Abstract Words/Keywords Require text for selection
(Combine with: OR AND simple logic boolean logic)

Return items starting with number

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INSERT FIELD: Author First Author Abstract Year Fulltext Reviews Citations References

Search Form author:"kurtz,m"

Your search returned 331 results

Sort: Publication Date Export Explore

0 selected
select all on page

Years Citations Reads

non-referenced
referenced

Limit results to papers from 1964 to 2015 Apply

1 2015ASPC...492..208G 2015/04 cited: 2
Enabling Meaningful Affiliation Searches in the ADS
Grant, C. S.; Thompson, D. M.; Chyla, R. and 6 more

2 2015ASPC...492..80H 2015/04 cited: 1
Computing and Using Metrics in the ADS
Henneken, E. A.; Accomazzi, A.; Kurtz, M. J. and 6 more

3 2015ASPC...492..150T 2015/04
Saving the Orphaned Astronomical Literature
Thompson, D. M.; Henneken, E. A.; Grant, C. S. and 6 more

4 2015ASPC...492..189A 2015/04 cited: 1
ADS: The Next Generation Search Platform
Accomazzi, A.; Kurtz, M. J.; Henneken, E. A. and 7 more

5 2015eXiv.150305881G 2015/03
ADS 2.0: new architecture, API and services
Chyla, Roman; Accomazzi, Alberto; Holachek, Alexandra and 7 more

6 2015AAS...22533656H 2015/01
Online Activity Around Scholarly Astronomy Literature - A Discussion of Altmetrics
Henneken, Edwin A.; Accomazzi, Alberto; Kurtz, Michael J. and 3 more

7 2015AAS...22533655A 2015/01
Improved Functionality and Curation Support in the ADS
Accomazzi, Alberto; Kurtz, Michael J.; Henneken, Edwin A. and 6 more

8 2014CTM...18..711K 2014/11
Acoustic timescale characterisation of symmetric and asymmetric
multidimensional hot spots

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

Advanced Bulk query (title:"exoplanet" year:2016 AND read_count:[10 TO 50])

Your search returned 54 results

sort: Date desc

Export Explore

Currently viewing data for 54 papers.

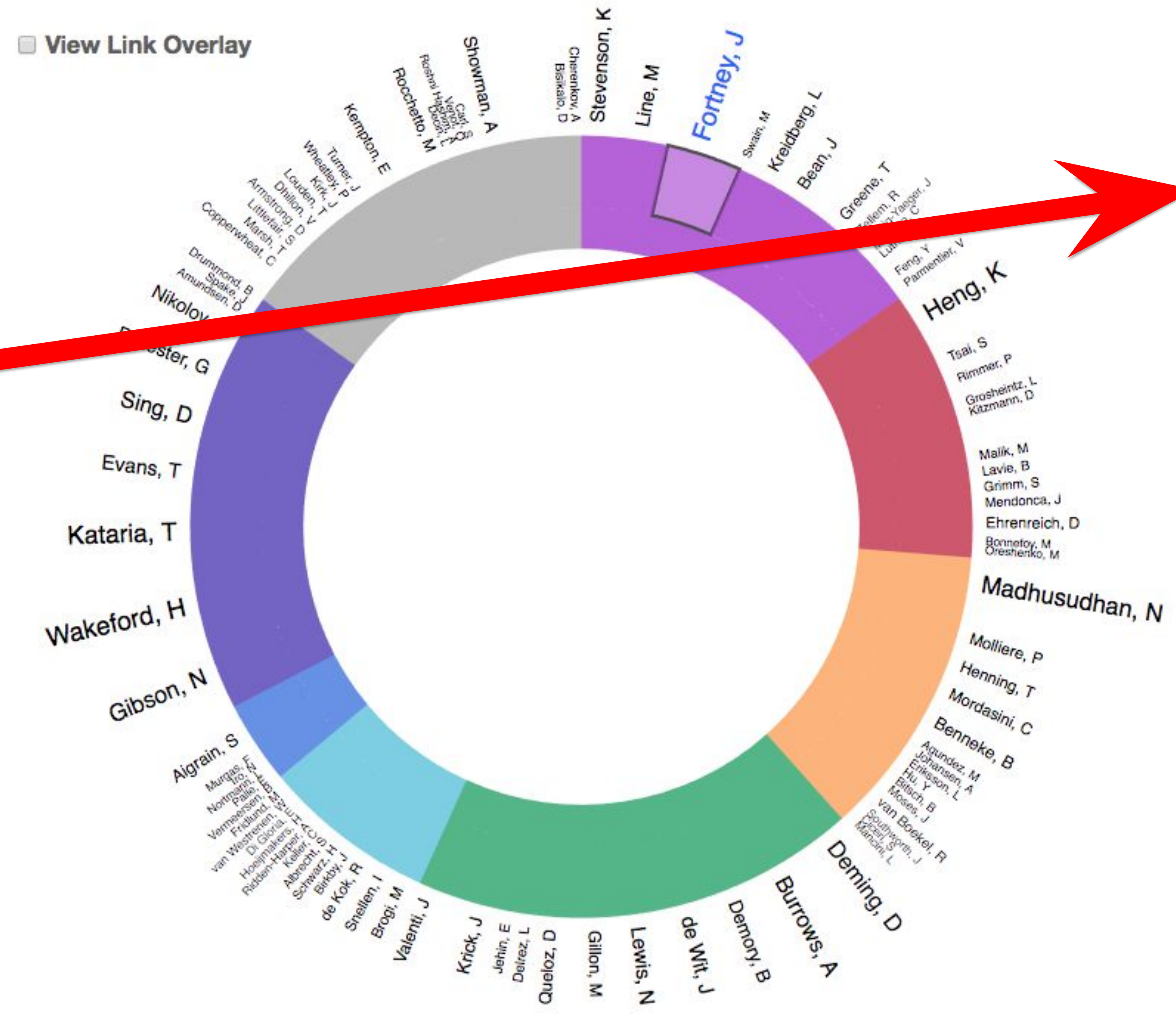
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Change to first [] papers (max is 54). Submit

select an author or group of authors in the visualization below and click the "add to filter" button

Size wedges based on: Author Occurrences Paper Citations Paper Downloads

View Link Overlay



Summary Detail

Fortney, J add to filter

Total Papers: 6 Most recent Paper: 2016

View author network for this author

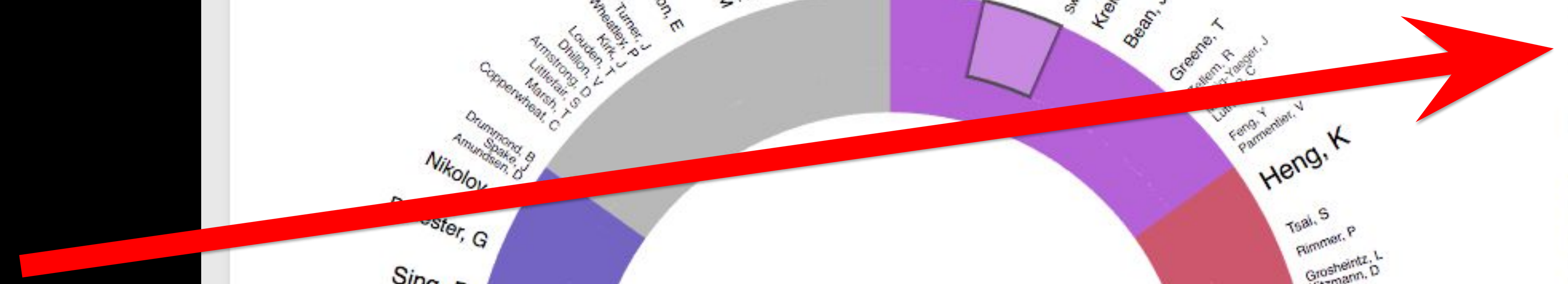
Papers by this author

- A continuum from clear to cloudy hot-Jupiter exoplanets without primordial water depletion 64 citations
- Characterizing Transiting Exoplanet Atmospheres with JWST 20 citations
- The Impact of Non-uniform Thermal Structure on the Interpretation of Exoplanet Emission Spectra 4 citations
- Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program 3 citations
- Direct Measure of Radiative and Dynamical Properties of an Exoplanet Atmosphere 2 citations
- Metal enrichment leads to low atmospheric C/O ratios in transiting giant exoplanets no citations

title:"exoplanet"
year:2016

Author Network
for Group 2

Choose an author
(Fortney, J), get his
author network



QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

Advanced Bulk query (title:"exoplanet" year:2016 AND read_count:[10 TO 500])

Your search returned 54 results

sort: Date desc

Export Explore

Currently viewing data for 400 papers.

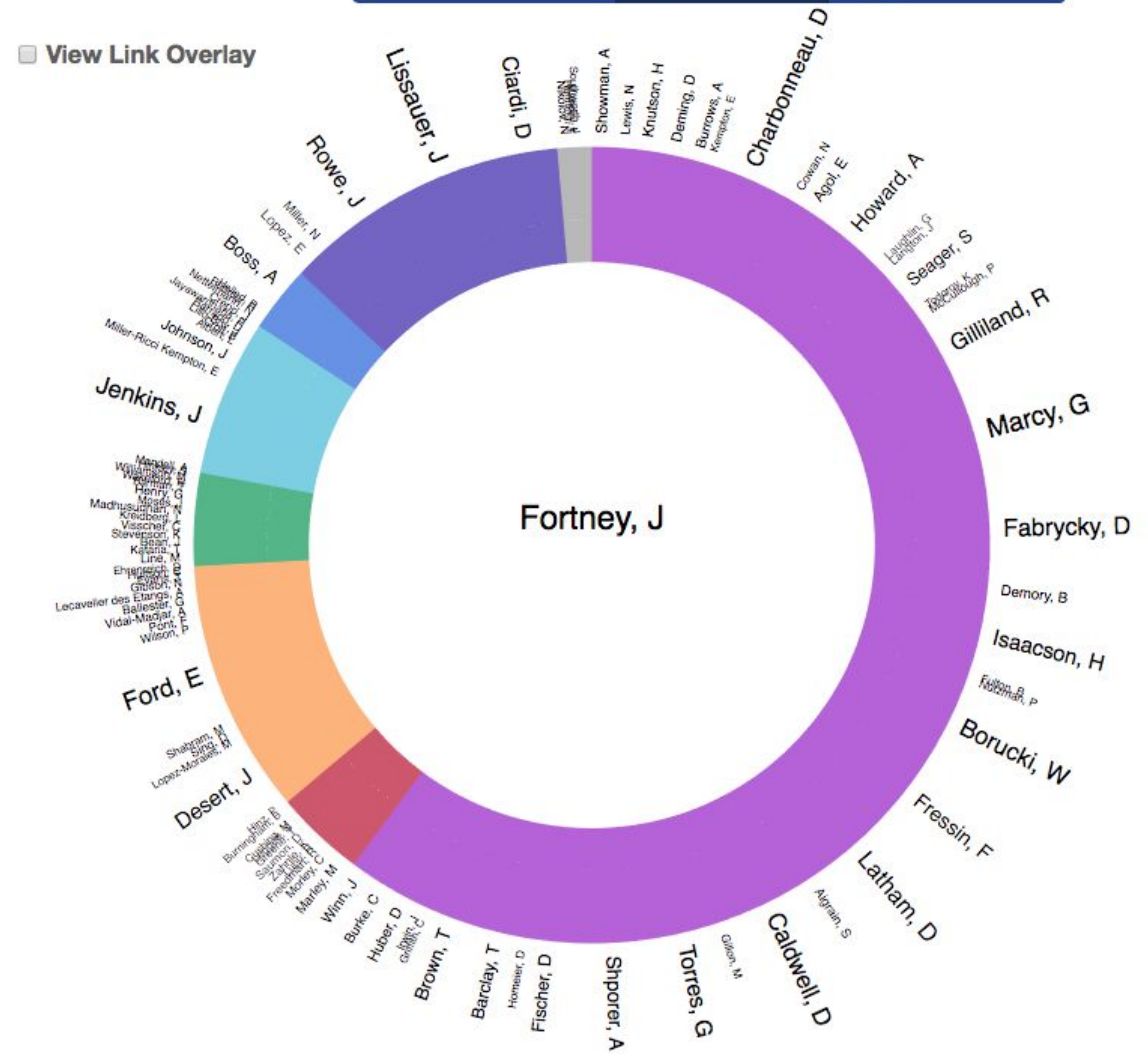
Filter current search: X clear

Change to first [] papers (max is 535). Submit

select an author or group of authors in the visualization below and click the "add to filter" button

Size wedges based on: Author Occurrences Paper Citations Paper Downloads

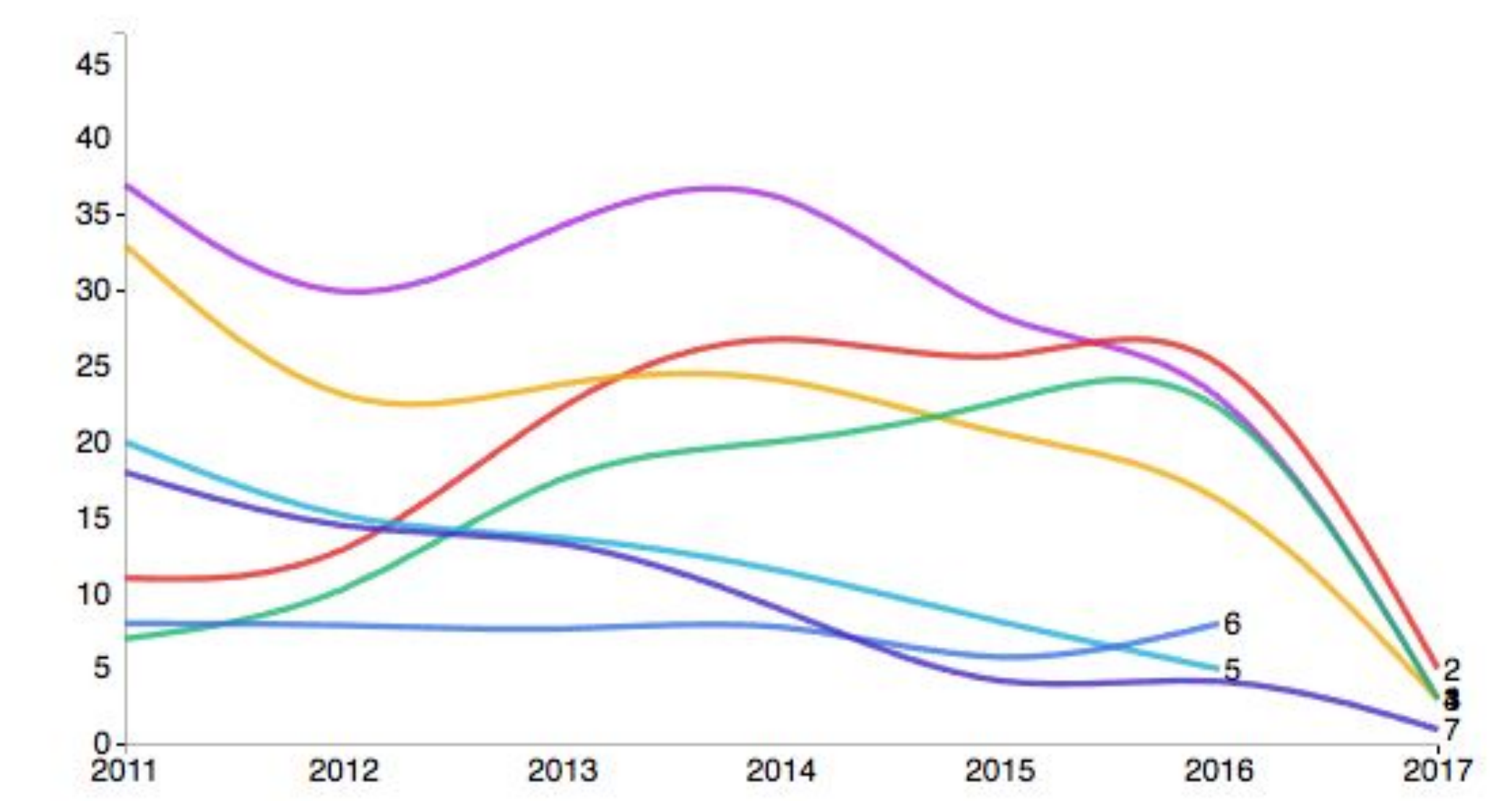
View Link Overlay



Author Network

This network visualization finds groups of authors within your search results. You can click on the segments to view the papers connected with a group or a particular author.

Group Activity Over Time (measured in papers published)



Learn more about the author network.

Go back to previous author network ((title:"exoplanet" year:2016 AND read_count:[10 TO 500]))

title:"exoplanet"
year:2016

Co-author network
for J. Fortney

Weighted by number
of citations

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

Advanced Bulk query (title:"exoplanet" year:2016 AND read_count:[10 TO 50])

Your search returned 54 results

sort: Date desc

Export Explore

Currently viewing data for 400 papers.

Filter current search: X clear

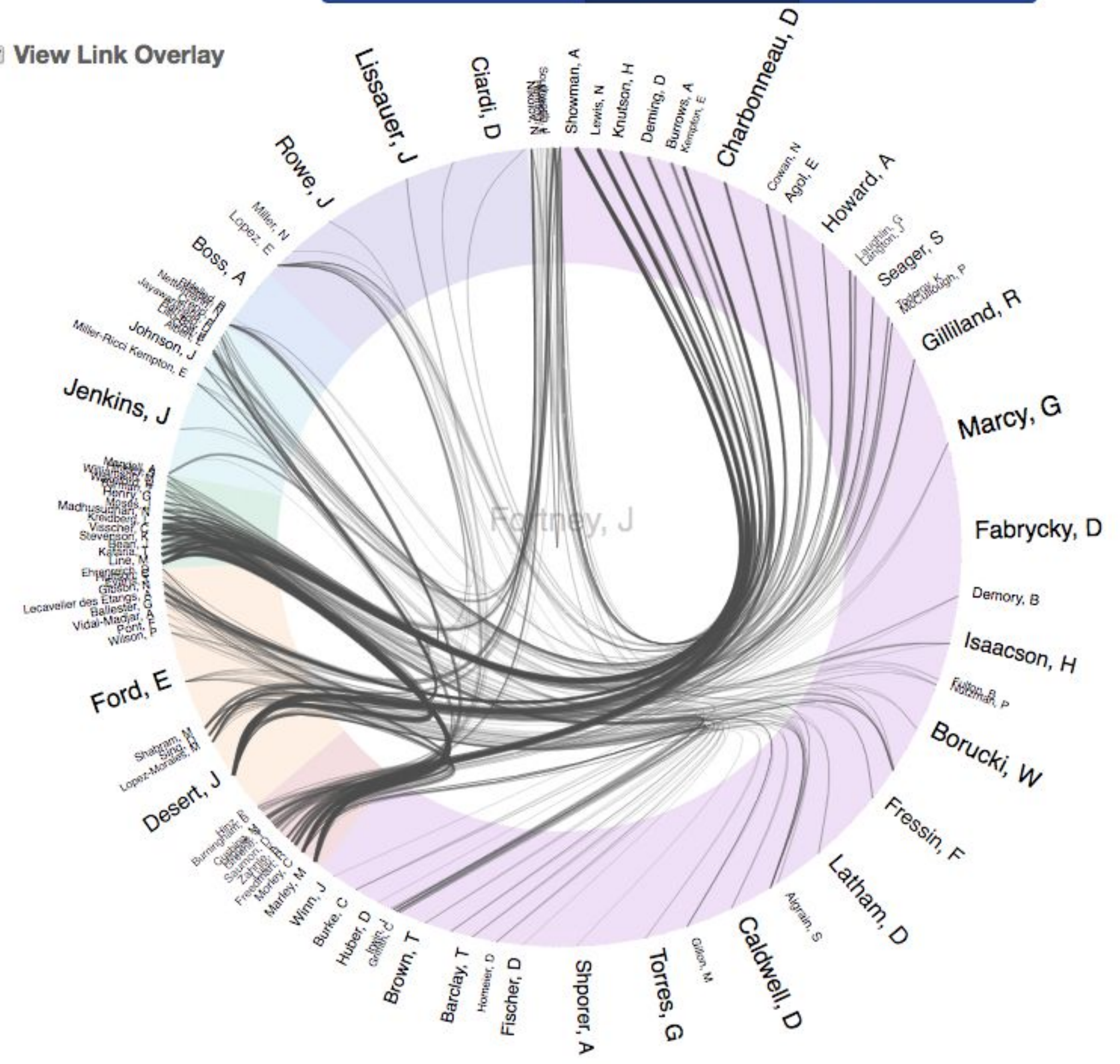
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Summary Detail

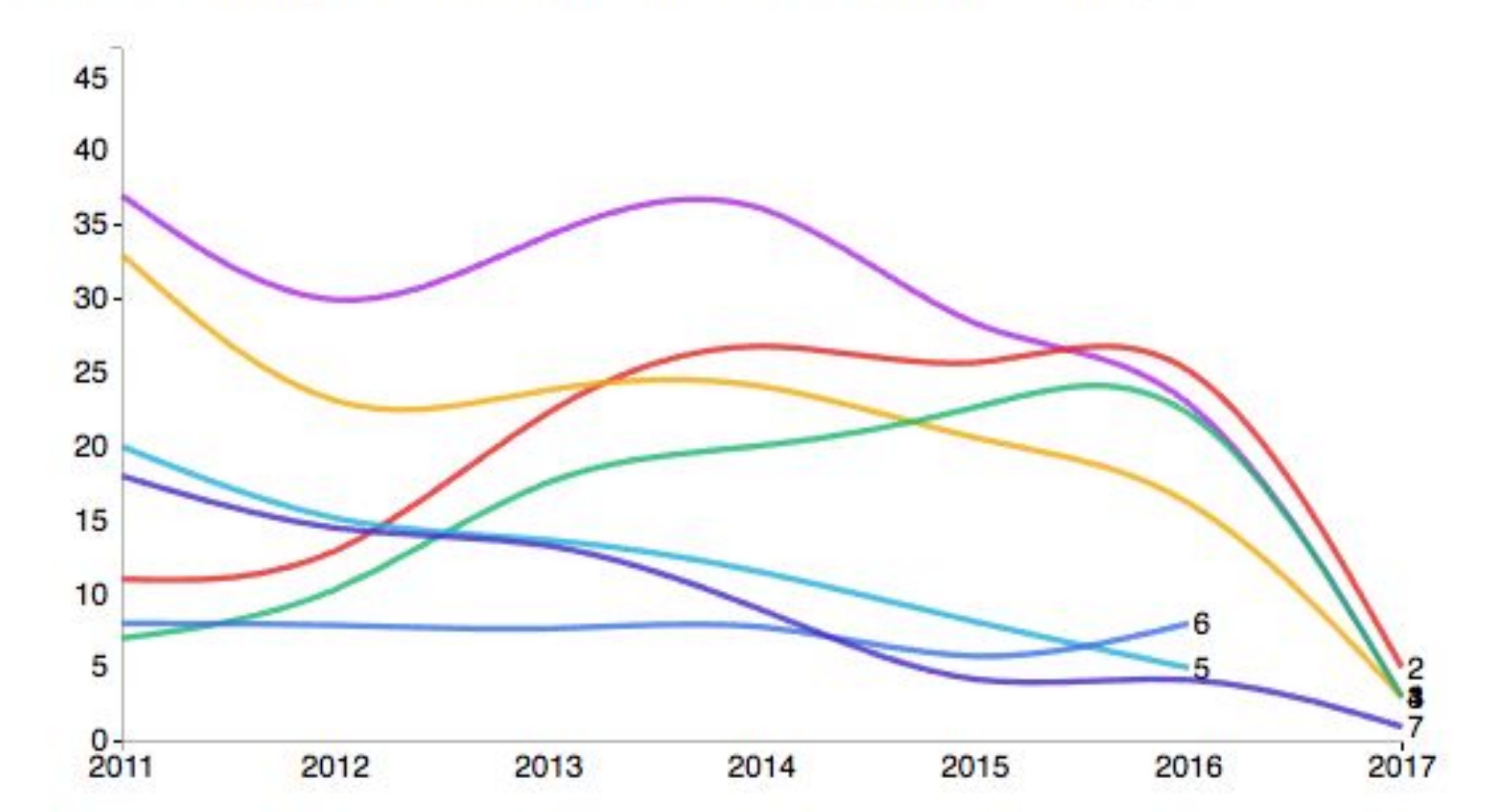
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title:"exoplanet"
year:2016

Co-author network
for J. Fortney

Showing relationship
among co-authors



When?



April 2018

All functionality
and content of
ADS Classic
available in ADS
Bumblebee

October 2018

Use of ADS
Classic
discouraged in
favor of
Bumblebee

April 2019

ADS Classic
search
discontinued,
redirected to
Bumblebee