



## Benjamin Davis

### PostDoc Position at Swinburne University of Technology

– Department of Centre for  
Astrophysics and  
Supercomputing

### CITATIONS



Independent	278
Total	401

### CONTACT INFO



✉ [bendavis007@hotmail.com](mailto:bendavis007@hotmail.com)

### PROFESSIONAL SKILLS



- > Galaxy Evolution
- > Extragalactic Astronomy
- > Astronomy
- > Astronomy & Astrophysics
- > Optical Astronomy
- > Theoretical Astrophysics
- > Galaxy

## ABOUT



I work at the Center for Astro, Particle, and Planetary Physics (CAP3) at New York University Abu Dhabi, where I am a CAP3 Fellow, Research Associate. My research involves studying the structure of spiral galaxies. To do this, I examine the geometry of spiral arms using a suite of custom software I helped design. I also perform multi-component decomposition analysis of the galaxies to separate them into their constituent components (i.e., bulge, disk, bar, spiral arms, nucleus, etc.). With this detailed knowledge of the galaxy composition and geometry, I can then construct accurate black hole mass scaling relations that can be used to predict the mass of the central massive black hole in galaxies. By conducting a census of black hole demography in galaxies, future studies can better understand the intimate relationship between central black holes and their host galaxies and garner information about their coevolution.

I am also a classically trained musician who regularly performs on the violin or viola with various professional and amateur ensembles. Past positions have involved playing with the Southeast Kansas Symphony Orchestra, the PSU Chamber Orchestra, the North Arkansas Symphony Orchestra, the University of Arkansas Symphony Orchestra, national Broadway tours of "South Pacific" and "West Side Story," the Arkansas New Music Ensemble, the Arkansas Philharmonic Orchestra, the Victorian Amateur Chamber Music Society, a soloist with the Yachad Chamber Orchestra, and various ad hoc string quartets and chamber ensembles.

## EDUCATION BACKGROUND



2008  
2015

### University of Arkansas

Doctoral Degree, Space & Planetary Sciences



2003  
2008

### Pittsburg State University

Bachelor's Degree, Mathematics & Physics (Minor in Music)



## RESEARCH EXPERIENCE



2008/08  
2015/05

### Graduate Assistant

University of Arkansas



## WORK EXPERIENCE



2020/09  
present

### Research Fellow

New York University Abu Dhabi



2016/08  
2020/07

### Postdoctoral Research Fellow

Swinburne University of Technology



2015/08  
2016/05

### Visiting Assistant Professor of Physics



Arkansas Tech University

2015/08  
2015/12

Visiting Assistant Professor of Physics



University of Arkansas

## PUBLICATION ANALYTICS



### Total Number of Publications

Publications

63

### Amount of Publications in Top 5 Active Field

Physics	24
Astronomy	20
Astrophysics	19
Optics	3
Topology	1

### Amount of Publications by Category

Journal	Book
27	0
Conference	Others
31	5

## ALL PUBLICATIONS



### Journal

#### 1. Measurement of Galactic Logarithmic Spiral Arm Pitch Angle Using Two-dimensional Fast Fourier Transform Decomposition

Benjamin L Davis, Joel C Berrier, Douglas W Shields, Julia Dusk Kennefick, 2012

Journal | The Astrophysical Journal Supplement Series

Astronomy; Physics; Astrophysics

Citation

62/76

Ind. total

#### 2. Further evidence for a supermassive black hole mass-pitch angle relation

Joel C Berrier, Benjamin L Davis, Daniel Kennefick, 2013

Journal | The Astrophysical Journal

Astronomy; Physics; Astrophysics

Citation

29/47

Ind. total

#### 3. The black hole mass function derived from local spiral galaxies

Benjamin L Davis, Joel C Berrier, L Johns, Dw Shields, Mt Hartley, D Kennefick, 2014

Journal | The Astrophysical Journal

Astronomy; Physics; Astrophysics

Citation

24/35

Ind. total

#### 4. Updating the (supermassive black hole mass)-(spiral arm pitch angle) relation: a strong correlation for galaxies with pseudobulges

Benjamin L Davis, Alister W Graham, Marc S Seigar, 2017

Journal | Monthly Notices of the Royal Astronomical Society

Astronomy; Physics; Astrophysics

Citation

19/32

Ind. total

#### 5. Strong Evidence for the Density-wave Theory of Spiral Structure in Disk Galaxies

H Pour-Imani, Daniel Kennefick, 2016

Journal | The Astrophysical Journal Letters




Astronomy; Physics; Astrophysics; Optics

Citation

27/28




Ind. total

## 6. Black Hole Mass Scaling Relations for Spiral Galaxies. II. $M_{BH}-M^*$ , tot and $M_{BH}-M^*$ , disk

 Benjamin L Davis, Alister W Graham, Ewan Cameron, 2018  
 Journal | The Astrophysical Journal  
 Astronomy; Physics; Topology




Citation  
**17/26**  
 Ind. total

## 7. Black Hole Mass Scaling Relations for Spiral Galaxies. I. $M_{BH}-M^*$ , sph

 Benjamin L Davis, Alister W Graham, Ewan Cameron, 2019  
 Journal | The Astrophysical Journal  
 Physics; Astrophysics




Citation  
**11/20**  
 Ind. total

## 8. A Fundamental Plane of Spiral Structure in Disk Galaxies

 Benjamin L Davis, Daniel Kennefick, 2015  
 Journal | The Astrophysical Journal Letters  
 Astronomy; Physics; Astrophysics




Citation  
**16/20**  
 Ind. total

## 9. Black Hole Mass Scaling Relations for Early-type Galaxies. I. $M_{BH}-M^*$ , sph and $M_{BH}-M^*$ , gal

 N Sahu, Alister W Graham, Benjamin L Davis, 2019  
 Journal | The Astrophysical Journal  
 Physics; Astrophysics




Citation  
**11/17**  
 Ind. total

## 10. Searching for intermediate-mass black holes in galaxies with low-luminosity AGN: a multiple-method approach

 Filippas Koliopanos, Bc Ciambur, Aw Graham, Na Webb, M Coriat, Natalie a Webb, Burcin Mutlupakdil, Benjamin L Davis, Olivier Godet, 2017  
 Journal | Astronomy & Astrophysics  
 Astronomy; Physics; Astrophysics




Citation  
**12/17**  
 Ind. total

## 11. Expected intermediate mass black holes in the Virgo cluster. II. Late-type galaxies

 Alister W Graham, Roberto Soria, Bl Davis, 2018  
 Journal | Monthly Notices of the Royal Astronomical Society  
 Astronomy; Physics; Astrophysics




Citation  
**8/16**  
 Ind. total

## 12. THE LOCAL BLACK HOLE MASS FUNCTION DERIVED FROM THE $M_{BH}-P$ AND THE $M_{BH}-n$ RELATIONS

 B Mutlu-Pakdil, Marc S Seigar, Benjamin L Davis, 2016  
 Journal | The Astrophysical Journal  
 Astronomy; Physics; Astrophysics



Citation  
**12/16**  
 Ind. total

## 13. Constraining dark matter halo profiles and galaxy formation models using spiral arm morphology. II. Dark and stellar mass concentrations for 13 nearby face-on galaxies

 Marc S Seigar, Bl Davis, J Berrier, D Kennefick, 2014  
 Journal | The Astrophysical Journal  
 Astronomy; Physics; Astrophysics




Citation  
**8/14**  
 Ind. total

#### 14. Spirality: Spiral arm pitch angle measurement

 Dw Shields, B Boe, C Pfountz, BI Davis, M Hartley, H Pour Imani, Z Slade, 2015  
 Journal | Astrophysics Source Code Library



Citation  
**4/7**  
 Ind. total

#### 15. Investigating the Origins of Spiral Structure in Disk Galaxies through a Multiwavelength Study

 R Miller, Daniel Kennefick, 2019  
 Journal | The Astrophysical Journal  
 Astronomy; Physics; Astrophysics



Citation  
**5/6**  
 Ind. total

#### 16. 2DFFT: Measuring Galactic Spiral Arm Pitch Angle

 BI Davis, Jc Berrier, Dw Shields, J Kennefick, 2016  
 Journal | Astrophysics Source Code Library




Citation  
**2/6**  
 Ind. total

#### 17. Revealing Hidden Substructures in the M BH- $\sigma$ Diagram, and Refining the Bend in the L- $\sigma$ Relation

 N Sahu, Aw Graham, BI Davis, 2019  
 Journal | The Astrophysical Journal




Citation  
**1/4**  
 Ind. total

#### 18. A Consistent Set of Empirical Scaling Relations for Spiral Galaxies: The ( $v_{\text{max}}$ , $M_{\text{BH}}$ )-( $\sigma_0$ , $M_{\text{BH}}$ , $\alpha$ ) Relations

 Benjamin L Davis, Alister W Graham, F Combes, 2019  
 Journal | The Astrophysical Journal  
 Astronomy; Physics; Astrophysics




Citation  
**3/4**  
 Ind. total

#### 19. Testing the Correlation between Spiral Arm Pitch Angle and Central Black Hole Mass

 Douglas W Shields, Ja Hughes, Sr Barrows, B Davis, D Kennefick, 2010  
 Journal | Aip Conference Proceedings  
 Astronomy; Physics; Astrophysics



Citation  
**1/2**  
 Ind. total

#### 20. Spirality: A Novel Way to Measure Spiral Arm Pitch Angle

 Douglas W Shields, Benjamin Boe, Casey Pfountz, Benjamin L Davis, Matthew T Hartley, Hamed Pour Imani, Zac Slade, Daniel Kennefick, Julia Dusk Kennefick, 2015  
 Journal | Arxiv Preprint Arxiv:1511.06365  
 Astronomy; Physics; Optics



Citation  
**0/1**  
 Ind. total

#### 21. Spiral Arm Pitch Angle Measurements of Galaxies in Different Wavelengths of Light to Investigate a Prediction of Density Wave Theory

 H Pour Imani, BI Davis, Dw Shields, J Kennefick, 2015  
 Journal | Iau General Assembly



Citation  
**1/1**  
 Ind. total

#### 22. A Study of the Relation between the Spiral Arm Pitch Angle and the Kinetic Energy of Random Motions of the Host Spiral Galaxies

 I Al-Baidhany, M Seigar, P Treuthardt, a Sierra, B Davis, D Kennefick, 2014  
 Journal | Journal of the Arkansas Academy of Science



Citation  
**0/1**  
 Ind. total

### 23. Determining the Co-Rotation Radii of Spiral Galaxies Using Spiral Arm Pitch Angle Measurements at Multiple Wavelengths

 S Abdeen, D Kennefick, 2020  
 Journal | Arxiv Preprint Arxiv:2002.02307




Citation  
**0/0**  
 Ind. total

### 24. Determining the local SMBH mass function using spiral arm pitch angles and Sersic indices

 M Seigar, B Mutlu, B Davis, J Berrier, 2015  
 Journal | IAU General Assembly




Citation  
**0/0**  
 Ind. total

### 25. The Arkansas Galaxy Evolution Survey: Supermassive Black Holes in the Universe

 Marc S Seigar, Daniel Kennefick, 2009  
 Journal | Proceedings of the International Astronomical Union  
 Astronomy; Physics; Astrophysics



Citation  
**0/0**  
 Ind. total

### 26. Strong Evidence for the Density-Wave Theory of Spiral Structure in Disk Galaxies: Pitch Angle Measurements in Different Wavelengths of Light.

 H Pour-Imani, Daniel Kennefick, 2017  
 Journal | Bulletin of the American Physical Society  
 Physics; Optics

Citation  
**0/0**  
 Ind. total




### 27. Minor Planet Observations [H48 PSU Greenbush Observatory, Pittsburg]

 Dm Kuehn, 2006  
 Journal | Minor Planet Circulars

Citation  
**0/0**  
 Ind. total


## ► Conference

### 1. Reflectance Spectra of Low-Temperature Chloride and Perchlorate Hydrates and their Relevance to the Martian Surface

 BI Davis, Vincent F Chevrier, Ts Altheide, C Swaffar, 2009  
 Conference | Lunar and Planetary Science Conference  
 Inorganic Chemistry; Chemistry



Citation  
**4/4**  
 Ind. total

### 2. Reflectance spectra of low-temperature chloride and perchlorate hydrates and their relevance to the martian surface

 J Hanley, Vf Chevrier, BI Davis, Ts Altheide, a Francis, 2009  
 Conference | The New Martian Chemistry Workshop

Citation  
**1/1**  
 Ind. total

### 3. Strong Evidence for the Density-Wave Theory of Spiral Structure Based on Variations in Pitch Angle When Viewed Across Optical and non-Optical Wavelengths

 H Pour-Imani, D Kennefick, 2017  
 Conference | American Astronomical Society Meeting Abstracts

Citation  
**0/0**  
 Ind. total

#### 4. The Arkansas Galaxy Evolution Survey: SMBH Mass and Spiral Arm Morphology

Ms Seigar, Jc Berrier, Bl Davis, D Kennefick, 2014  
Conference | Structure and Dynamics of Disk Galaxies

Citation  
0/0  
Ind. total

#### 5. Logarithmic Spiral Arm Pitch Angle of Late-Type Galaxies: Measurement and Relationship to Galactic Nuclear Supermassive Black Hole Mass

Bl Davis, 2013  
Conference | American Astronomical Society Meeting Abstracts# 221

Citation  
0/0  
Ind. total

#### 6. A Comparison of Methods for Measuring Supermassive Black Hole Methods

I Ahdulla Akhlite Al-Baidhany, Ms Seigar, P Treuthardt, D Kennefick, 2012  
Conference | American Astronomical Society Meeting Abstracts# 219

Citation  
0/0  
Ind. total

#### 7. Testing SMBH scaling relations using cosmological simulations and optical/near-IR imaging data

B Mutlu Pakdil, Ms Seigar, Bl Davis, Pm Treuthardt, J Berrier, 2017  
Conference | American Astronomical Society Meeting Abstracts

Citation  
0/0  
Ind. total

#### 8. Evolution of Spiral Arm Pitch Angle

Dw Shields, C Henderson, Bl Davis, L Johns, Jc Berrier, D Kennefick, 2014  
Conference | Structure and Dynamics of Disk Galaxies

Citation  
0/0  
Ind. total

#### 9. Calculating a Galaxies Central Black Hole Mass Using the Sersic Index

M Hartley, Jc Berrier, M Seigar, Bl Davis, D Kennefick, 2013  
Conference | American Astronomical Society Meeting Abstracts# 221

Citation  
0/0  
Ind. total

#### 10. A Comparison of Two Independent Techniques for Measuring Supermassive Black Hole Masses

I Ahdulla Akhlite Al-Baidhany, Marc S Seigar, P Treuthardt, Benjamin L Davis, Daniel Kennefick, Julia Dusk Kennefick, Claud H Sandberg Lacy, Misty C Bentz, 2011  
Conference | Bulletin of the American Astronomical Society  
Astronomy; Physics; Astrophysics

Citation  
0/0  
Ind. total

#### 11. The Local Black Hole Mass Function Derived from the MBH-Pitch Angle and the MBH-Sersic Index Relations

B Mutlu Pakdil, Ms Seigar, Bl Davis, 2016  
Conference | American Astronomical Society Meeting Abstracts



Citation  
0/0  
Ind. total

#### 12. Mass Distribution & Morphology of Simulated Spiral Galaxies

J Berlanga Medina, J Berrier, M Hartley, D Kennefick, Bl Davis, D Shields, 2014  
Conference | American Astronomical Society Meeting Abstracts# 223




Citation  
0/0  
Ind. total

### 13. The Supermassive Black Hole Mass Function in Spiral Galaxies

 Jd Kennefick, Jc Berrier, 2013  
 Conference | American Astronomical Society Meeting Abstracts# 221



Citation  
**0/0**  
 Ind. total

### 14. Quasar Black Hole Mass

 Amanda S Schilling, Ashley Carlton, a Kashkanova, Julia Dusk Kennefick, 2010  
 Conference | Bulletin of the American Astronomical Society  
 Astronomy; Physics; Astrophysics



Citation  
**0/0**  
 Ind. total

### 15. Constraining dark matter halo profiles using spiral arm morphologies: Dark and stellar mass concentrations for 13 nearby face-on galaxies

 M Seigar, Bl Davis, Jc Berrier, D Kennefick, 2014  
 Conference | American Astronomical Society Meeting Abstracts# 223




Citation  
**0/0**  
 Ind. total

### 16. The Local Black Hole-Mass Function Derived from Spiral Galaxies

 Bl Davis, Jc Berrier, L Johns, Dw Shields, D Kennefick, 2012  
 Conference | American Astronomical Society Meeting Abstracts# 220



Citation  
**0/0**  
 Ind. total

### 17. Investigating the Clustering and Color of Galaxies in the COMBO-17 Chandra Deep Field South Survey and Possible Effects on Spiral Arm Pitch Angle

 Benjamin L Davis, J E Berlanga Medina, Douglas W Shields, Julia Dusk Kennefick, 2010  
 Conference | Bulletin of the American Astronomical Society  
 Astronomy; Physics



Citation  
**0/0**  
 Ind. total

### 18. Multi-wavelength Study of Spiral Structure and Star-Formation Region in Disk Galaxies

 R Miller, D Kennefick, 2019  
 Conference | American Astronomical Society Meeting Abstracts



Citation  
**0/0**  
 Ind. total

### 19. A Study of Supermassive Black Holes and the Properties of Their Host Galaxies

 I Ahdulla Akhlite Al-Baidhany, M Seigar, Pm Treuthardt, a Sierra, 2014  
 Conference | American Astronomical Society Meeting Abstracts# 223



Citation  
**0/0**  
 Ind. total

### 20. Pitch Angles Of Artificially Redshifted Galaxies

 Dw Shields, B Davis, L Johns, Jc Berrier, D Kennefick, 2012  
 Conference | American Astronomical Society Meeting Abstracts# 220

Citation  
**0/0**  
 Ind. total


### 21. Black Hole Mass Scaling Relations

 Bl Davis, a Graham, N Sahu, E Cameron, 2019  
 Conference | American Astronomical Society Meeting Abstracts

Citation  
**0/0**  
 Ind. total





## 22. The Supermassive Black Hole Mass-Pitch Angle Relation in Spiral Galaxies

 D Kennefick, Jc Berrier, 2013  
 Conference | American Astronomical Society Meeting Abstracts# 221




Citation  
**0/0**  
 Ind. total

## 23. A Comparison of Four Methods for Measuring Supermassive Black Hole Masses

 I Ahdulla Akhlite Al-Baidhany, Ms Seigar, P Treuthardt, D Kennefick, 2012  
 Conference | American Astronomical Society Meeting Abstracts# 220



Citation  
**0/0**  
 Ind. total

## 24. An Upper-Division Astronomy Laboratory Course for Undergraduate Physics Majors

 David M Kuehn, Barbara Lockett Davis, 2006  
 Conference | Bulletin of the American Astronomical Society  
 Physics; Engineering Physics; Applied Mathematics



Citation  
**0/0**  
 Ind. total

## 25. Exploration of a SMBH Mass-Pitch Angle Relation at Intermediate Redshifts

 Lh Jones, a Schilling, Bl Davis, Rs Barrows, Jd Kennefick, 2015  
 Conference | American Astronomical Society Meeting Abstracts



Citation  
**0/0**  
 Ind. total

## 26. The Effects of Dark Matter Halo Concentration of the Morphology of Simulated Galaxies

 J Berlanga Medina, Jc Berrier, M Hartley, D Kennefick, Bl Davis, 2013  
 Conference | American Astronomical Society Meeting Abstracts# 221

Citation  
**0/0**  
 Ind. total

## 27. Supermassive Black Hole Mass and Spiral Galaxy Pitch Angle at Intermediate to High Redshift

 Ja Hughes, Rs Barrows, Jc Berrier, Bl Davis, D Kennefick, 2012  
 Conference | American Astronomical Society Meeting Abstracts# 219



Citation  
**0/0**  
 Ind. total

## 28. Observational Confirmations of Spiral Density Wave Theory

 Jd Kennefick, 2017  
 Conference | American Astronomical Society Meeting Abstracts



Citation  
**0/0**  
 Ind. total

## 29. The Spiral Structure of AGN Host Galaxies

 J Kennefick, Rs Barrows, Ja Hughes, a Schilling, B Davis, D Shields, 2014  
 Conference | Structure and Dynamics of Disk Galaxies



Citation  
**0/0**  
 Ind. total

## 30. Evolution of Spiral Arm Pitch Angle and the Masses of Supermassive Black Holes

 Dw Shields, Cl Henderson, Bl Davis, L Johns, Jc Berrier, D Kennefick, 2013  
 Conference | American Astronomical Society Meeting Abstracts# 221

Citation  
**0/0**  
 Ind. total



### 31. Determining the Local Black Hole Mass Function from the Pitch Angles of Nearby Spiral Galaxies

 L Johns, D Kennefick, Jc Berrier, BI Davis, Dw Shields, 2012  
 Conference | American Astronomical Society Meeting Abstracts# 219

Citation  
**0/0**  
 Ind. total



## ► Uncategorized

### 1. Pitch Angle Distribution Function of Local Spiral Galaxies and Its Role in Galactic Structure

 Ms Fusco, BI Davis, D Kennefick,  
 Other | N/A



Citation  
**0/0**  
 Ind. total

### 2. In Pursuit of the Elusive Intermediate-mass Black Holes

 BI Davis,  
 Other | N/A




Citation  
**0/0**  
 Ind. total

### 3. Arkansas Natural Heritage Commission; Ouachita National Forest

 I Al-Baidhany, M Seigar, P Treuthardt, a Sierra, B Davis,  
 Other | N/A



Citation  
**0/0**  
 Ind. total

### 4. Logarithmic Spiral Arm Pitch Angle of Spiral Galaxies: Measurement and Relationship to Galactic Structure and Nuclear Supermassive Black Hole Mass

 Benjamin Lee Davis, 2015  
 Other | N/A  
 Astronomy; Physics; Astrophysics

Citation  
**0/0**  
 Ind. total

### 5. Multiple (consistent) mass estimates suggest a central intermediate-mass black hole in NGC 3319

 BI Davis, Aw Graham,  
 Other | N/A

Citation  
**0/0**  
 Ind. total

## METRICS AND RANKS OF JOURNALS WHERE I PUBLISHED ARTICLES



### ► Journal Rankings: Google Scholar

Journal	h5	Journal Rank	Papers	Category
the Astrophysical Journal	158	1 / 20	5	Astronomy & Astrophysics
Monthly Notices of the Royal Astronomical Society	140	2 / 20	2	Astronomy & Astrophysics
the Astrophysical Journal Supplement Series	75	4 / 20	1	Astronomy & Astrophysics
Astronomy & Astrophysics	52	7 / 20	1	Astronomy & Astrophysics
Iau General Assembly	33	19 / 20	1	Astronomy & Astrophysics

### ► Journal Rankings: Eigenfactor

Journal	Eigenfactor	Journal Rank	Papers	Category
Astrophysical Journal	0.426	1 / 62	5	Astronomy & Astrophysics
Monthly Notices of the Royal Astronomical Society	0.303	2 / 62	2	Astronomy & Astrophysics
Astronomy & Astrophysics	0.240	4 / 62	1	Astronomy & Astrophysics
Astrophysical Journal Letters	0.139	5 / 62	2	Astronomy & Astrophysics
Astrophysical Journal Supplement Series	0.071	7 / 62	1	Astronomy & Astrophysics

### ► Journal Rankings: Scimago

Journal	SJR	Journal Rank	Papers	Category
Astrophysical Journal, Supplement Series	4.565	4 / 82	1	Space and Planetary Science, Astronomy and Astrophysics
Astrophysical Journal Letters	3.864	5 / 82	2	Space and Planetary Science, Astronomy and Astrophysics
Astrophysical Journal	2.741	10 / 82	5	Space and Planetary Science, Astronomy and Astrophysics
Astronomy and Astrophysics	2.527	12 / 82	1	Space and Planetary Science, Astronomy and Astrophysics
Monthly Notices of the Royal Astronomical Society	2.422	13 / 82	2	Space and Planetary Science, Astronomy and Astrophysics

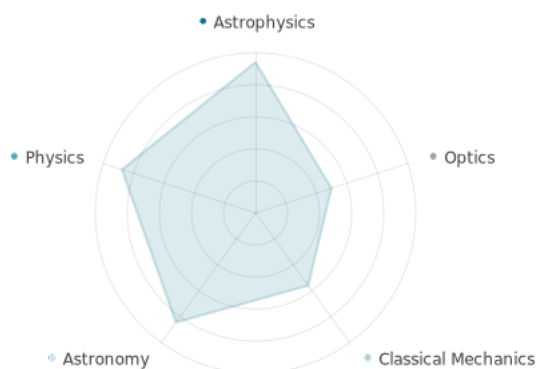
## ► Journal Rankings: Thomson Reuters

Journal	IF	Journal Rank	Papers	Category
Astrophysical Journal Letters	8.374	4 / 54	2	Space Science
Astrophysical Journal Supplement Series	8.311	5 / 54	1	Space Science
Astronomy & Astrophysics	6.209	8 / 54	1	Space Science
Astrophysical Journal	5.58	10 / 54	5	Space Science

## ACADEMIC RANKING



### The Academic Ranking



### Times Cited and Ranking in Top 50% Cited Academic Fields

Discipline	Citations	Percentile
Astrophysics	41	Top 5.92%
Physics	44	Top 12.38%
Astronomy	42	Top 15.61%
Classical Mechanics	5	Top 44.05%
Optics	3	Top 50.2%

G-index **19**      Impact Factor **0.845**

## CITATION ANALYTICS



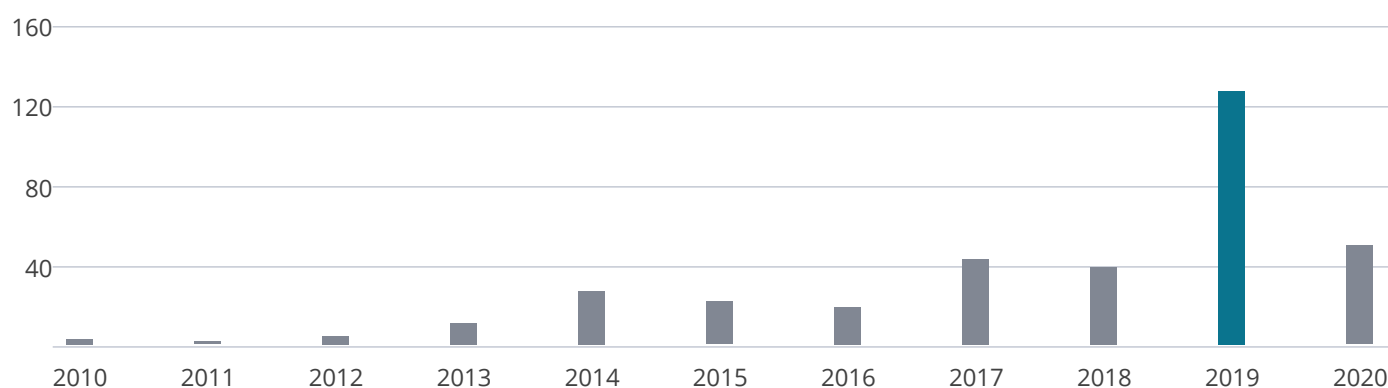
### ► Total Number of Citations

All  
**401**

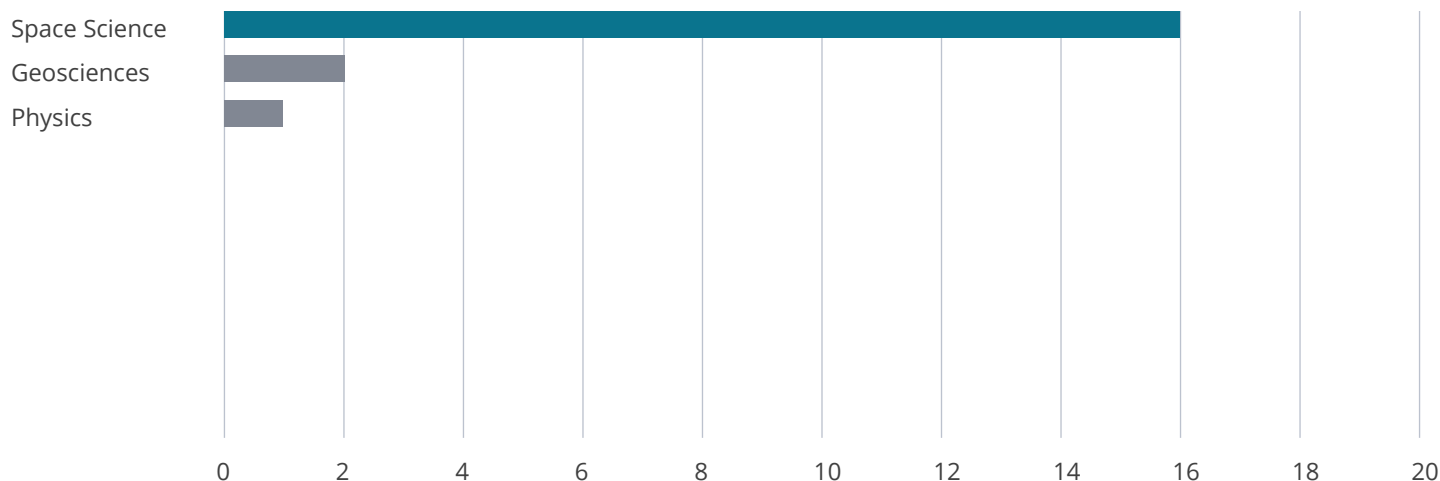
Past 5 Years  
**275**

Past 3 Years  
**213**

### ► Citation Per Year



### ► Citations by Category



## METRICS AND RANKS OF JOURNALS WHICH CITED MY PUBLICATIONS



Citing Journal	ImpactFactor	Journal Rank	Category
Astrophysical Journal Letters	8.374	4 / 54	Space Science
Space Science Reviews	8.142	6 / 54	Space Science
Astronomy & Astrophysics	6.209	8 / 54	Space Science
Physics of the Dark Universe	5.66	9 / 54	Space Science
Astrophysical Journal	5.58	10 / 54	Space Science
Journal of Cosmology and Astroparticle Physics	5.524	11 / 54	Space Science
Publications of the Astronomical Society of Australia	4.878	14 / 54	Space Science
Icarus	3.565	18 / 54	Space Science
Publications of the Astronomical Society of the Pacific	3.47	19 / 54	Space Science, Space Science
Earth and Planetary Science Letters	4.637	26 / 412	Geosciences
Geoscience Frontiers	4.16	37 / 412	Geosciences
Physical Review D	4.368	45 / 314	Physics, Physics

## CITING COUNTRY MAP



### North America

**22%**

103 / 448

### South America

**2%**

10 / 448

### Africa

**0%**

2 / 448

### Europe

**61%**

275 / 448

### Asia

**6%**

28 / 448

### Oceania

**6%**

30 / 448



Country	Citation
Russian Federation	125
United States	100
United Kingdom	49
Italy	39
Australia	30
Germany	12
Belgium	12
Spain	9
Sweden	8
France	8

Country	Citation
Japan	8
China	6
Brazil	6
Israel	6
Netherlands	5
Finland	3
Chile	3
India	3
Canada	3
Armenia	2

Country	Citation
South Africa	2
Taiwan	1
Oman	1
Austria	1
Estonia	1
Denmark	1
Switzerland	1
United Arab Emirates	1
Argentina	1
Greece	1

Country	Citation
South Africa	2
Taiwan	1
Oman	1
Austria	1
Estonia	1
Denmark	1
Switzerland	1
United Arab Emirates	1
Argentina	1
Greece	1

## GLOBAL CITATION DISTRIBUTION MAP (GCDM)



- 📍 Times of Cited > 5%
- 📍 Times of Cited < 5%



## CITING INSTITUTIONS



- University of California, Irvine**
- United States**
- ★ Top 40 university in United States according to TIMES HIGHER EDUCATION
  - ★ Top 78 university in the world according to US NEWS

Citation  
**15**

- University of Oxford**
- United Kingdom**
- ★ Top 1 university in Computer science field according to TIMES HIGHER EDUCATION
  - ★ Top 1 university in United Kingdom according to TIMES HIGHER EDUCATION
  - ★ Top 1 university in the world according to TIMES HIGHER EDUCATION
  - ★ Top 1 university in europe according to US NEWS

Citation  
**13**

- University of Nottingham**
- United Kingdom**
- ★ Top 6 university in pharmacy-pharmacology field according to TOP UNIVERSITIES
  - ★ Top 15 university in United Kingdom according to TOP UNIVERSITIES
  - ★ Top 82 university in the world according to TOP UNIVERSITIES

Citation  
**12**

- University of Southampton**
- United Kingdom**
- ★ Top 9 university in nursing field according to TOP UNIVERSITIES
  - ★ Top 10 university in United Kingdom according to US NEWS
  - ★ Top 94 university in the world according to US NEWS

Citation  
**8**

- University of Florence**
- Italy**
- ★ Top 9 university in Italy according to US NEWS
  - ★ Top 233 university in the world according to US NEWS

Citation  
**7**

- Curtin University**
- Australia**
- ★ Top 2 university in engineering-mineral-mining field according to TOP UNIVERSITIES
  - ★ Top 13 university in Australia according to TOP UNIVERSITIES
  - ★ Top 250 university in the world according to TOP UNIVERSITIES

Citation  
**7**

- University of New South Wales**
- Australia**
- ★ Top 9 university in engineering-mineral-mining field according to TOP UNIVERSITIES
  - ★ Top 4 university in Australia according to TOP UNIVERSITIES
  - ★ Top 45 university in the world according to TOP UNIVERSITIES
  - ★ Top 6 university in australia-new-zealand according to US NEWS

Citation  
**7**

- University of Arizona**
- United States**
- ★ Top 10 university in space-science field according to US NEWS
  - ★ Top 43 university in United States according to US NEWS
  - ★ Top 81 university in the world according to US NEWS

Citation  
**6**



- Rutgers, The State University of New Jersey--New Brunswick**
- United States**
- ★ Top 47 university in United States according to US NEWS
  - ★ Top 103 university in the world according to US NEWS

Citation  
**6**

- University of Amsterdam**
- Netherlands**
- ★ Top 1 university in communication-media-studies field according to TOP UNIVERSITIES
  - ★ Top 1 university in Netherlands according to US NEWS
  - ★ Top 51 university in the world according to US NEWS

Citation  
**5**



-  **Peking University**
-  **China**
- ★ Top 6 university in modern-languages field according to TOP UNIVERSITIES
  - ★ Top 2 university in China according to TIMES HIGHER EDUCATION
  - ★ Top 30 university in the world according to TOP UNIVERSITIES
  - ★ Top 1 university in emerging economies ranking according to TIMES HIGHER EDUCATION



Citation  
**5**

-  **University of Melbourne**
-  **Australia**
- ★ Top 6 university in education-training field according to TOP UNIVERSITIES
  - ★ Top 1 university in Australia according to TIMES HIGHER EDUCATION
  - ★ Top 26 university in the world according to US NEWS
  - ★ Top 1 university in australia-new-zealand according to US NEWS



Citation  
**5**

-  **University of Minnesota Twin Cities**
-  **United States**
- ★ Top 10 university in environment-ecology field according to US NEWS
  - ★ Top 26 university in United States according to US NEWS
  - ★ Top 41 university in the world according to US NEWS



Citation  
**5**

-  **Harvard University**
-  **United States**
- ★ Top 1 university in Life sciences field according to TIMES HIGHER EDUCATION
  - ★ Top 1 university in United States according to US NEWS
  - ★ Top 1 university in the world according to US NEWS

Citation  
**4**

-  **University of Cologne**
-  **Germany**
- ★ Top 37 university in classics-ancient-history field according to TOP UNIVERSITIES
  - ★ Top 16 university in Germany according to TIMES HIGHER EDUCATION
  - ★ Top 146 university in the world according to TIMES HIGHER EDUCATION



Citation  
**4**

-  **University of California, San Diego**
-  **United States**
- ★ Top 2 university in pharmacology-toxicology field according to US NEWS
  - ★ Top 15 university in United States according to US NEWS
  - ★ Top 17 university in the world according to US NEWS



Citation  
**3**

-  **University of Oulu**
-  **Finland**
- ★ Top 4 university in Finland according to TIMES HIGHER EDUCATION
  - ★ Top 251 university in the world according to TIMES HIGHER EDUCATION



Citation  
**3**

-  **University of Michigan**
-  **United States**
- ★ Top 3 university in dentistry field according to TOP UNIVERSITIES
  - ★ Top 11 university in United States according to TOP UNIVERSITIES
  - ★ Top 20 university in the world according to TIMES HIGHER EDUCATION

Citation  
**3**

-  **Scuola Normale Superiore di Pisa**
-  **Italy**
- ★ Top 40 university in classics-ancient-history field according to TOP UNIVERSITIES
  - ★ Top 2 university in Italy according to TIMES HIGHER EDUCATION
  - ★ Top 161 university in the world according to TIMES HIGHER EDUCATION

Citation  
**3**

-  **Shanghai Jiao Tong University**
-  **China**
- ★ Top 10 university in engineering field according to US NEWS
  - ★ Top 4 university in China according to TOP UNIVERSITIES
  - ★ Top 59 university in the world according to TOP UNIVERSITIES
  - ★ Top 7 university in emerging economies ranking according to TIMES HIGHER EDUCATION

Citation  
**2**

- University of the Witwatersrand**
- South Africa
- ★ Top 2 university in South Africa according to TIMES HIGHER EDUCATION
  - ★ Top 201 university in the world according to TIMES HIGHER EDUCATION
  - ★ Top 12 university in emerging economies ranking according to TIMES HIGHER EDUCATION

Citation  
**2**

- University of Maryland, College Park**
- United States
- ★ Top 13 university in linguistics field according to TOP UNIVERSITIES
  - ★ Top 31 university in United States according to US NEWS
  - ★ Top 51 university in the world according to US NEWS

Citation  
**2**

- Ohio State University**
- United States
- ★ Top 16 university in veterinary-science field according to TOP UNIVERSITIES
  - ★ Top 28 university in United States according to TOP UNIVERSITIES
  - ★ Top 46 university in the world according to US NEWS

Citation  
**2**

- Saint Petersburg State University**
- Russian Federation
- ★ Top 2 university in Russian Federation according to TOP UNIVERSITIES
  - ★ Top 235 university in the world according to TOP UNIVERSITIES
  - ★ Top 3 university in eeca (emerging europe & central asia) according to TOP UNIVERSITIES

Citation  
**2**

- University of Edinburgh**
- United Kingdom
- ★ Top 5 university in linguistics field according to TOP UNIVERSITIES
  - ★ Top 5 university in United Kingdom according to TOP UNIVERSITIES
  - ★ Top 18 university in the world according to TOP UNIVERSITIES
  - ★ Top 6 university in europe according to US NEWS

Citation  
**2**

- Carnegie Mellon University**
- United States
- ★ Top 3 university in computer-science-information-systems field according to TOP UNIVERSITIES
  - ★ Top 16 university in United States according to TIMES HIGHER EDUCATION
  - ★ Top 24 university in the world according to TIMES HIGHER EDUCATION

Citation  
**2**

- Tel Aviv University**
- Israel
- ★ Top 2 university in Israel according to TIMES HIGHER EDUCATION
  - ★ Top 174 university in the world according to US NEWS
  - ★ Top 25 university in asia university rankings according to TIMES HIGHER EDUCATION

Citation  
**2**

- University of Birmingham**
- United Kingdom
- ★ Top 5 university in sports-related-subjects field according to TOP UNIVERSITIES
  - ★ Top 12 university in United Kingdom according to US NEWS
  - ★ Top 79 university in the world according to TOP UNIVERSITIES



Citation  
**2**

- Texas A&M University**
- United States
- ★ Top 10 university in veterinary-science field according to TOP UNIVERSITIES
  - ★ Top 49 university in United States according to TOP UNIVERSITIES
  - ★ Top 125 university in the world according to US NEWS



Citation  
**2**

- University of Waterloo**
- Canada
- ★ Top 19 university in hospitality-leisure-management field according to TOP UNIVERSITIES
  - ★ Top 7 university in Canada according to TOP UNIVERSITIES
  - ★ Top 163 university in the world according to TOP UNIVERSITIES



Citation  
**2**

-  **Kyoto University**
-  Japan
- ★ Top 5 university in engineering-chemical field according to TOP UNIVERSITIES
  - ★ Top 2 university in Japan according to TIMES HIGHER EDUCATION
  - ★ Top 35 university in the world according to TOP UNIVERSITIES
  - ★ Top 9 university in asia according to US NEWS



Citation  
**2**

-  **Autonomous University of Madrid**
-  Spain
- ★ Top 30 university in dentistry field according to TOP UNIVERSITIES
  - ★ Top 4 university in Spain according to TOP UNIVERSITIES
  - ★ Top 200 university in the world according to US NEWS



Citation  
**2**

-  **Cornell University**
-  United States
- ★ Top 2 university in veterinary-science field according to TOP UNIVERSITIES
  - ★ Top 7 university in United States according to TOP UNIVERSITIES
  - ★ Top 14 university in the world according to TOP UNIVERSITIES



Citation  
**1**

-  **McGill University**
-  Canada
- ★ Top 3 university in engineering-mineral-mining field according to TOP UNIVERSITIES
  - ★ Top 2 university in Canada according to TOP UNIVERSITIES
  - ★ Top 33 university in the world according to TOP UNIVERSITIES



Citation  
**1**

-  **Northwestern University**
-  United States
- ★ Top 5 university in chemistry field according to US NEWS
  - ★ Top 16 university in United States according to TOP UNIVERSITIES
  - ★ Top 24 university in the world according to US NEWS

Citation  
**1**

-  **University of Pennsylvania**
-  United States
- ★ Top 1 university in nursing field according to TOP UNIVERSITIES
  - ★ Top 9 university in United States according to TIMES HIGHER EDUCATION
  - ★ Top 12 university in the world according to TIMES HIGHER EDUCATION

Citation  
**1**

-  **Heidelberg University**
-  Germany
- ★ Top 9 university in classics-ancient-history field according to TOP UNIVERSITIES
  - ★ Top 2 university in Germany according to US NEWS
  - ★ Top 47 university in the world according to TIMES HIGHER EDUCATION

Citation  
**1**

-  **University of Tartu**
-  Estonia
- ★ Top 5 university in eeca (emerging europe & central asia) according to TOP UNIVERSITIES

Citation  
**1**

-  **University of Tsukuba**
-  Japan
- ★ Top 25 university in sports-related-subjects field according to TOP UNIVERSITIES
  - ★ Top 11 university in Japan according to TOP UNIVERSITIES
  - ★ Top 260 university in the world according to TOP UNIVERSITIES

Citation  
**1**

-  **University of Cambridge**
-  United Kingdom
- ★ Top 1 university in anthropology field according to TOP UNIVERSITIES
  - ★ Top 2 university in United Kingdom according to TIMES HIGHER EDUCATION
  - ★ Top 2 university in the world according to TIMES HIGHER EDUCATION
  - ★ Top 2 university in europe according to US NEWS

Citation  
**1**

- Colorado School of Mines**
- United States**
- ★ Top 1 university in engineering-mineral-mining field according to TOP UNIVERSITIES
  - ★ Top 72 university in United States according to TIMES HIGHER EDUCATION
  - ★ Top 251 university in the world according to TIMES HIGHER EDUCATION

Citation  
**1**

- University of Innsbruck**
- Austria**
- ★ Top 3 university in Austria according to TOP UNIVERSITIES
  - ★ Top 279 university in the world according to TOP UNIVERSITIES

Citation  
**1**

- Monash University**
- Australia**
- ★ Top 2 university in pharmacy-pharmacology field according to TOP UNIVERSITIES
  - ★ Top 4 university in Australia according to US NEWS
  - ★ Top 59 university in the world according to TOP UNIVERSITIES
  - ★ Top 4 university in australia-new-zealand according to US NEWS

Citation  
**1**

- University of Tasmania**
- Australia**
- ★ Top 17 university in Australia according to TOP UNIVERSITIES
  - ★ Top 287 university in the world according to TOP UNIVERSITIES

Citation  
**1**

- Paris-Sud University**
- France**
- ★ Top 5 university in France according to TIMES HIGHER EDUCATION
  - ★ Top 201 university in the world according to TIMES HIGHER EDUCATION

Citation  
**1**

- Pontifical Catholic University of Chile**
- Chile**
- ★ Top 21 university in education-training field according to TOP UNIVERSITIES
  - ★ Top 1 university in Chile according to TOP UNIVERSITIES
  - ★ Top 132 university in the world according to TOP UNIVERSITIES
  - ★ Top 1 university in latin america according to TOP UNIVERSITIES

Citation  
**1**

- Massachusetts Institute of Technology**
- United States**
- ★ Top 1 university in mathematics field according to TOP UNIVERSITIES
  - ★ Top 1 university in United States according to TOP UNIVERSITIES
  - ★ Top 1 university in the world according to TOP UNIVERSITIES

Citation  
**1**

- Sultan Qaboos University**
- Oman**
- ★ Top 10 university in arab region according to TOP UNIVERSITIES

Citation  
**1**

- Princeton University**
- United States**
- ★ Top 1 university in Physical sciences field according to TIMES HIGHER EDUCATION
  - ★ Top 5 university in United States according to TIMES HIGHER EDUCATION
  - ★ Top 7 university in the world according to TIMES HIGHER EDUCATION



Citation  
**1**

- Indian Institute of Science**
- India**
- ★ Top 1 university in India according to TIMES HIGHER EDUCATION
  - ★ Top 170 university in the world according to TOP UNIVERSITIES
  - ★ Top 10 university in brics according to TOP UNIVERSITIES



Citation  
**1**

-  **University of Leicester**
-  **United Kingdom**
- ★ Top 25 university in United Kingdom according to TIMES HIGHER EDUCATION
  - ★ Top 167 university in the world according to TIMES HIGHER EDUCATION



Citation  
**1**

-  **Brown University**
-  **United States**
- ★ Top 26 university in development-studies field according to TOP UNIVERSITIES
  - ★ Top 21 university in United States according to TOP UNIVERSITIES
  - ★ Top 53 university in the world according to TIMES HIGHER EDUCATION

Citation  
**1**

-  **University of St Andrews**
-  **United Kingdom**
- ★ Top 14 university in classics-ancient-history field according to TOP UNIVERSITIES
  - ★ Top 18 university in United Kingdom according to TOP UNIVERSITIES
  - ★ Top 97 university in the world according to TOP UNIVERSITIES

Citation  
**1**

-  **Scuola Superiore Studi Pavia IUSS**
-  **Italy**
- ★ Top 5 university in Italy according to US NEWS
  - ★ Top 193 university in the world according to US NEWS



Citation  
**1**

-  **University of Leeds**
-  **United Kingdom**
- ★ Top 14 university in earth-marine-sciences field according to TOP UNIVERSITIES
  - ★ Top 16 university in United Kingdom according to TOP UNIVERSITIES
  - ★ Top 93 university in the world according to TOP UNIVERSITIES

Citation  
**1**

-  **University of Zurich**
-  **Switzerland**
- ★ Top 11 university in dentistry field according to TOP UNIVERSITIES
  - ★ Top 3 university in Switzerland according to TIMES HIGHER EDUCATION
  - ★ Top 61 university in the world according to US NEWS



Citation  
**1**

-  **University of Chicago**
-  **United States**
- ★ Top 4 university in Psychology field according to TIMES HIGHER EDUCATION
  - ★ Top 5 university in United States according to TOP UNIVERSITIES
  - ★ Top 9 university in the world according to TOP UNIVERSITIES

Citation  
**1**

-  **University of Sussex**
-  **United Kingdom**
- ★ Top 1 university in development-studies field according to TOP UNIVERSITIES
  - ★ Top 21 university in United Kingdom according to US NEWS
  - ★ Top 161 university in the world according to TIMES HIGHER EDUCATION

Citation  
**1**

-  **University of Tokyo**
-  **Japan**
- ★ Top 7 university in modern-languages field according to TOP UNIVERSITIES
  - ★ Top 1 university in Japan according to TIMES HIGHER EDUCATION
  - ★ Top 23 university in the world according to TOP UNIVERSITIES
  - ★ Top 4 university in asia according to US NEWS

Citation  
**1**

-  **Universidade Federal de São Paulo**
-  **Brazil**
- ★ Top 6 university in agricultural-sciences field according to US NEWS
  - ★ Top 1 university in Brazil according to TIMES HIGHER EDUCATION
  - ★ Top 118 university in the world according to TOP UNIVERSITIES
  - ★ Top 1 university in latin-america according to US NEWS

Citation  
**1**

 University of Valencia

 Spain

★ Top 5 university in Spain according to US NEWS

★ Top 264 university in the world according to US NEWS

Citation

1