

HET Publication Report

HET Board Meeting

7/8 December 2023

University of Texas

Executive Summary

- There are now 532 peer-reviewed HET publications
 - Thirty papers published in 2021
 - Thirty-five papers published in 2022
 - Thirty-eight papers published in 2023 (as of 1 December)
- HET papers have 36536 citations
 - Average of 69, median of 33 citations per paper
 - H-number of 99
 - 99 papers have ≥ 100 citations; 207 have ≥ 50 cites
- Wide angle (non-HETDEX) surveys account for 24% of papers and 33% of citations.
- Synoptic (e.g., planet searches) and Target of Opportunity (e.g., supernovae and γ -ray bursts) programs have produced 47% of the papers and 49% of the citations, respectively.
- HETDEX has published 24 papers.
- LRS2 and HPF have published 55 and 49 papers, respectively.
- Revised Publication Policy announced to HET Collaboration and placed on HET website in November; reminders about Policy will be included in every email message to PIs when an observation is obtained.
- Latest “Crabtree Observatory Report”, covering 2017-2021, as been released.
 - HET placed lowest in number of papers and total scientific impact
 - HET was above median in fraction of “high impact” publications
 - Time period coincided with dip due to WFU shutdown
- Listing of the HET papers (with ADS links) is given at
<http://personal.science.psu.edu/dps7/hetpapers.html>

HET Program Classification

| Code | Type of Program | Examples |
|------|--------------------|--------------------------------|
| 1 | ToO | Supernovae, Gamma-ray Bursts |
| 2 | Synoptic | Exoplanets, Eclipsing Binaries |
| 3 | One or Two Objects | Halo of NGC 821 |
| 4 | Narrow-angle | HDF, Virgo Cluster |
| 5 | Wide-angle | Blazar Survey |
| 6 | HET Technical | HET Queue |
| 7 | HETDEX | Dark Energy with BAO |
| 8 | Other | HET Optics |

Programs also broken down into “Dark Time”, “Light Time”, and “Other”.

Peer-reviewed Publications

- There are now 532 journal papers that either use HET data or (14 cases) use the HET as the motivation for the paper (e.g., technical papers, theoretical studies).
- Except for 2005, approximately 22 HET papers were published each year since 2002 through the shutdown. A record 44 papers were published in 2012; this year has the second highest number of publications (38).
- Each HET partner has published at least 16 papers using HET data.
- Nineteen papers have been published from NOAO time.
- A total of 128 publications are based upon the new instrumentation (LRS2, HPF, and VIRUS).

A listing of the HET papers (with ADS links) is given at

<http://personal.science.psu.edu/dps7/hetpapers.html>

Citations to Peer-reviewed Publications

- The 532 HET papers have garnered 36536 citations for an average of 68.7 per paper (median number is 33).
- The HET's H-number is now 99.
- The number of citations ranges from 0 to 1566. Thirty papers have one or zero citations (20 were published in the past year); 207 have 50 or more citations.
- Approximately 33% of the HET citations are produced by “Wide angle” surveys (non-HETDEX). This category was the primary science program for the “SST”.
- The five most cited Wide Angle Survey (non-HETDEX) papers have 399, 474, 594, 731, and 805 citations.
- “Dark Time” projects have average higher citation rates (84) than “Light Time” programs (50). The roughly 2:1 ratio has been steadily decreasing over time.
- The synoptic programs (primarily planet searches) are a significant component of both the number of publications and citations (top five papers have 279, 279, 307, 331, and 539 citations).
- “Target of Opportunity” impact: Top five ToO papers have 406, 420, 460, 617, and 1566 citations.
- Primary HET reference (Hill et al. 2021) has 54 citations.

Summary of HET Publications December 2023

| Year | Papers | Total | Total Citations | Average Citations |
|-------|--------|-------|-----------------|-------------------|
| 2000 | 9 | 9 | 599 | 66.56 |
| 2001 | 13 | 22 | 1413 | 108.69 |
| 2002 | 10 | 32 | 1147 | 114.70 |
| 2003 | 20 | 52 | 1794 | 89.70 |
| 2004 | 21 | 73 | 1672 | 79.62 |
| 2005 | 7 | 80 | 686 | 98.00 |
| 2006 | 21 | 101 | 1924 | 91.62 |
| 2007 | 21 | 122 | 2412 | 114.86 |
| 2008 | 24 | 146 | 3279 | 136.62 |
| 2009 | 26 | 172 | 3271 | 125.81 |
| 2010 | 33 | 205 | 2955 | 89.55 |
| 2011 | 26 | 231 | 2649 | 101.88 |
| 2012 | 44 | 275 | 3783 | 85.98 |
| 2013 | 23 | 298 | 896 | 38.96 |
| 2014 | 24 | 322 | 2928 | 122.00 |
| 2015 | 28 | 350 | 1411 | 50.39 |
| 2016 | 19 | 369 | 968 | 50.95 |
| 2017 | 8 | 377 | 243 | 30.38 |
| 2018 | 9 | 386 | 476 | 52.89 |
| 2019 | 19 | 405 | 484 | 25.47 |
| 2020 | 24 | 429 | 578 | 24.08 |
| 2021 | 30 | 459 | 537 | 17.90 |
| 2022 | 35 | 494 | 289 | 8.26 |
| 2023 | 38 | 532 | 142 | 3.74 |
| Total | 532 | | 36536 | 68.68 |

Summary of Program Classes

| Code | Class | Papers | Total Citations | Average Citations |
|------|---------------|--------|-----------------|-------------------|
| 1 | ToO | 93 | 9939 | 106.87 |
| 2 | Synoptic | 156 | 8025 | 51.44 |
| 3 | Single Object | 76 | 3343 | 43.99 |
| 4 | Pencil Beam | 38 | 2603 | 68.50 |
| 5 | Wide Angle | 130 | 11858 | 91.22 |
| 6 | Technical | 11 | 463 | 42.09 |
| 7 | HETDEX | 24 | 281 | 11.71 |
| 8 | Other | 4 | 24 | 6.00 |

Summary of Dark/Light Time

| Code | Time | Papers | Total Citations | Average Citations |
|------|-------|--------|-----------------|-------------------|
| 1 | Dark | 300 | 25205 | 84.02 |
| 2 | Light | 218 | 10849 | 49.77 |
| 3 | Other | 14 | 482 | 34.43 |

HET Publications Sorted by Journal

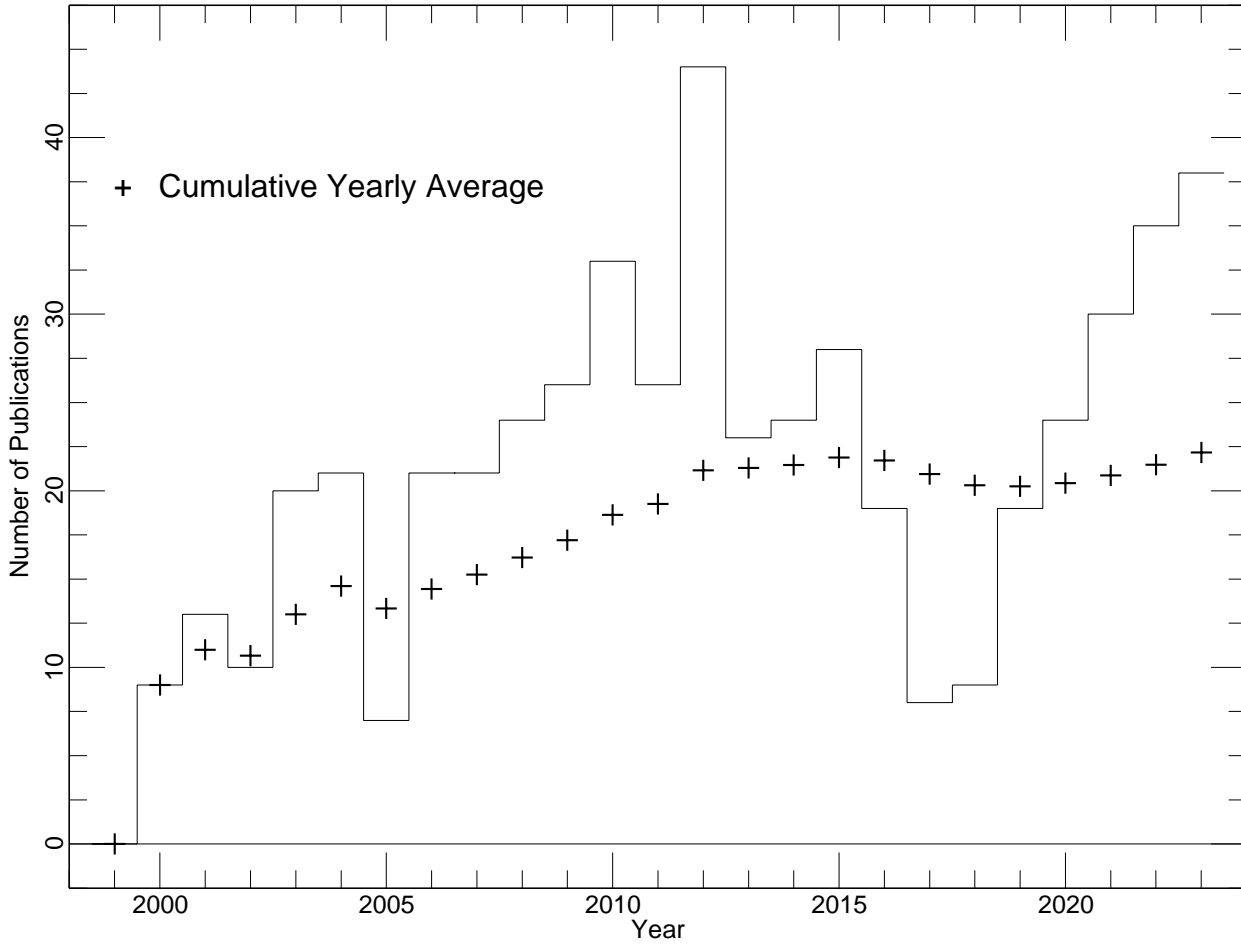
| Papers | Average Citations | Journal |
|--------|-------------------|---|
| 113 | 63.86 | The Astronomical Journal |
| 216 | 67.31 | The Astrophysical Journal |
| 40 | 57.33 | The Astrophysical Journal (Letters) |
| 13 | 67.85 | The Publications of the Astronomical Society of the Pacific |
| 22 | 126.00 | The Astrophysical Journal Supplement Series |
| 11 | 218.27 | Nature |
| 2 | 139.50 | Science |
| 51 | 37.06 | The Monthly Notices of the Royal Astronomical Society |
| 2 | 35.00 | The Monthly Notices of the Royal Astronomical Society (Letters) |
| 50 | 75.14 | Astronomy and Astrophysics |
| 5 | 37.40 | Astronomy and Astrophysics (Letters) |
| 1 | 22.00 | Journal of Cosmology and Astroparticle Physics |
| 1 | 114.00 | Optics Express |
| 1 | 4.00 | Astronomische Nachrichten |
| 1 | 6.00 | Jour of Astronomical Telescope and Instrumentation Systems |
| 1 | 79.00 | Optica |
| 1 | 24.00 | Optics Letters |
| 1 | 0.00 | Science Advances |

HET Publications Sorted by Instrument

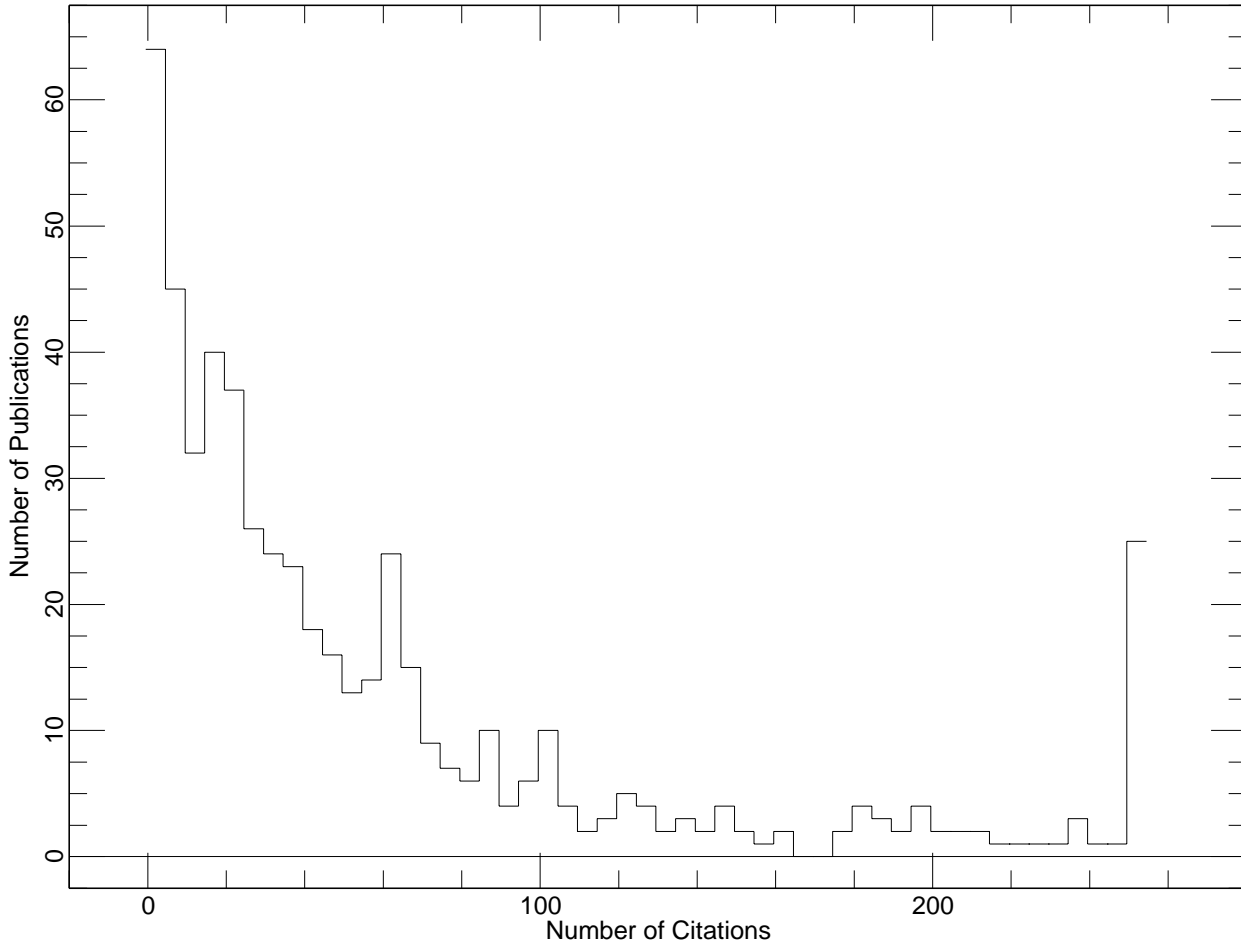
| Code | Instrument | Papers | Total Citations | Average Citations |
|------|------------|--------|-----------------|-------------------|
| 1 | None | 8 | 319 | 39.88 |
| 2 | LRS | 228 | 24089 | 105.65 |
| 3 | MRS | 1 | 25 | 25.00 |
| 4 | HRS | 165 | 10054 | 60.93 |
| 5 | UFOE | 2 | 116 | 58.00 |
| 6 | LRS2 | 55 | 865 | 15.73 |
| 7 | HPF | 49 | 818 | 16.69 |
| 8 | VIRUS | 24 | 250 | 10.42 |

“Hot Papers” (2021-2023)

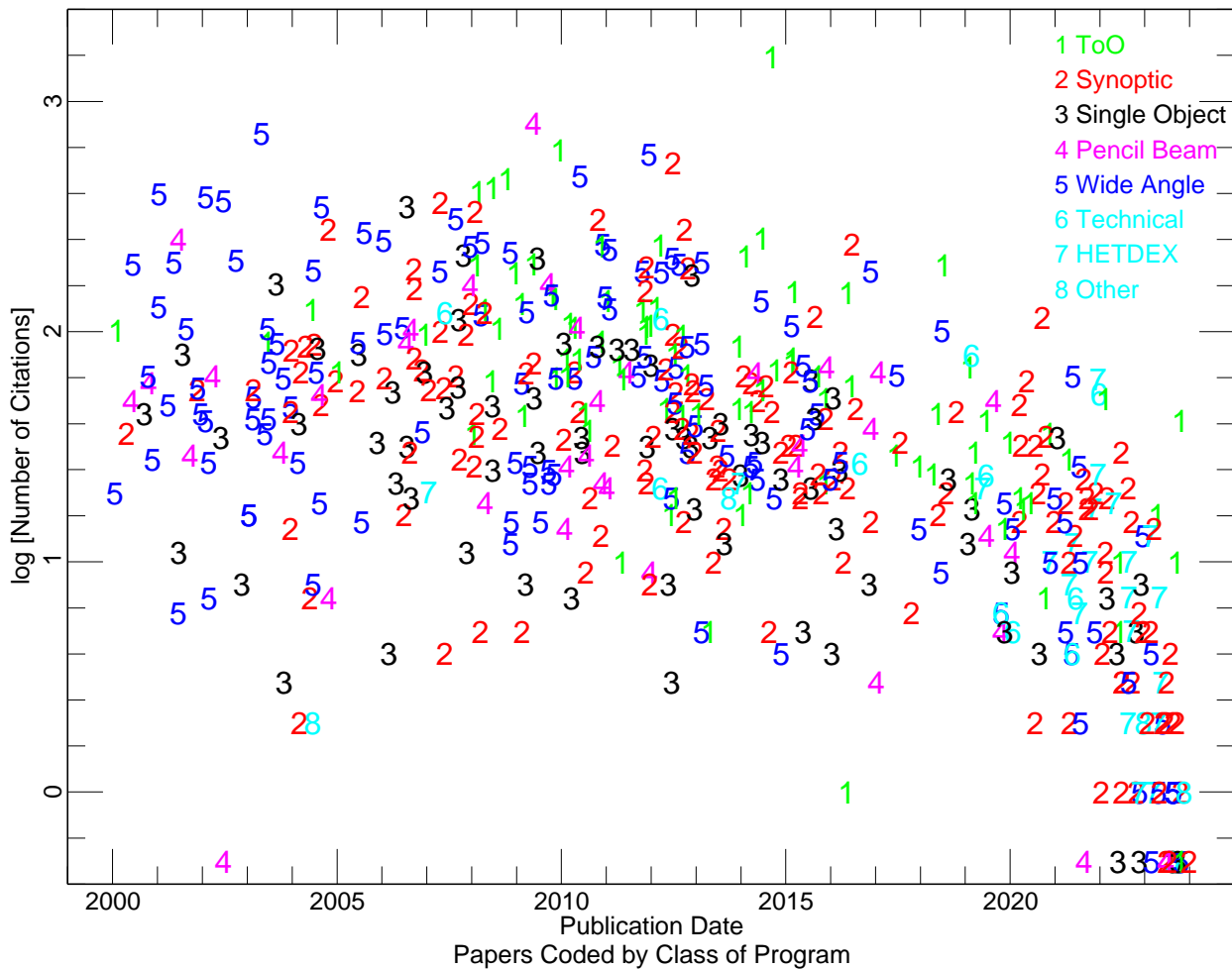
- (64) I Spy transits and Pulsations: Empirical Variability in White Dwarfs Using Gaia and the Zwicky Transient Facility. Guidry, J., et al. 2021, ApJ
- (62) The Hobby-Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections. Gebhardt, K., et al. 2021, ApJ
- (54) The HETDEX Instrumentation: Hobby Eberly Telescope Wide-field Upgrade and VIRUS. Hill, G., et al. 2021, AJ
- (51) A WC/WO Star Exploding Within an Expanding Carbon-Oxygen-Neon Nebula. Gal-Yam, A., et al. 2022, Nature
- (41) SN 2023ixf in Messier 101: Photo-ionization of Dense, Close-in Circumstellar Material in a Nearby Type II Supernovae. Jacobson-Galan, W., et al. 2023, ApJL
- (35) The S2 Stream: The Shreds of a Primitive Dwarf Galaxy. Aguado, D., et al. 2021, MNRAS
- (30) The Warm Neptune GJ 3470b Has a Polar Orbit. Stefansson, G., et al. 2022, ApJL
- (28) The Peculiar Transient AT2018cow: A Possible Origin of a Type Ibn/IIn Supernova. Xiang, D., et al. 2021, ApJ
- (26) Taking the Long Look: A Two-decade Reverberation Mapping Study of High Luminosity Quasars. Kaspi, S., et al. 2021, ApJ
- (24) First HETDEX Spectroscopic Determinations of Ly- α and UV Luminosity Functions at $z = 2-3$: Bridging a Gap Between Faint AGNs and Bright Galaxies. Zhang, Y., et al. 2021, ApJ
- (23) Stellar Activity Manifesting at a One-year Alias Explains Bernard b as a False Positive. Lubin, J., et al. 2021, AJ
- (21) TOI-3714 b and TOI-3629 b: Two Gas Giants Transiting M Dwarfs Confirmed with the Habitable-zone Planet Finder and NEID. Canas, C., et al. 2022, AJ
- (20) A Search for Planetary Metastable Helium Absorption in the V1298 Tau System. Vissapragada S., et al. 2021, MNRAS
- (19) Dynamical Mass of the Young Substellar Companion HD 984 b. Franson, K., et al. 2022, AJ
- (19) Nondetection of Helium in the Upper Atmospheres of TRAPPIST-1b, e, and f. Karishnamurthy V., et al. 2021, AJ



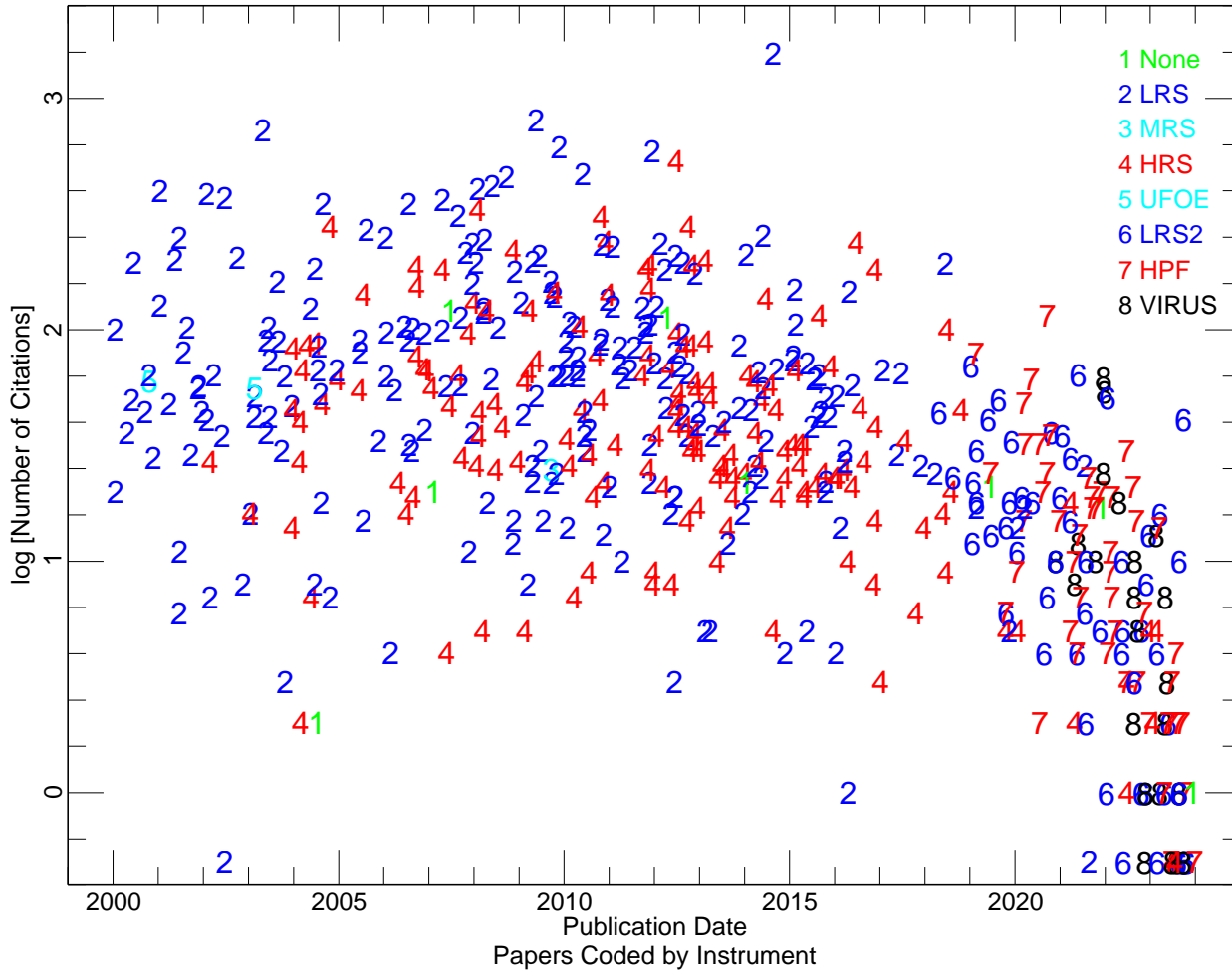
The number of HET publications each year (histogram) and the cumulative annual average of the annual number of publications (plus signs). A total of 532 HET papers have been published since the appearance of the first work in January 2000. Thirty-five papers appeared in 2022; 37 have been published in 2023 as of 1 December.



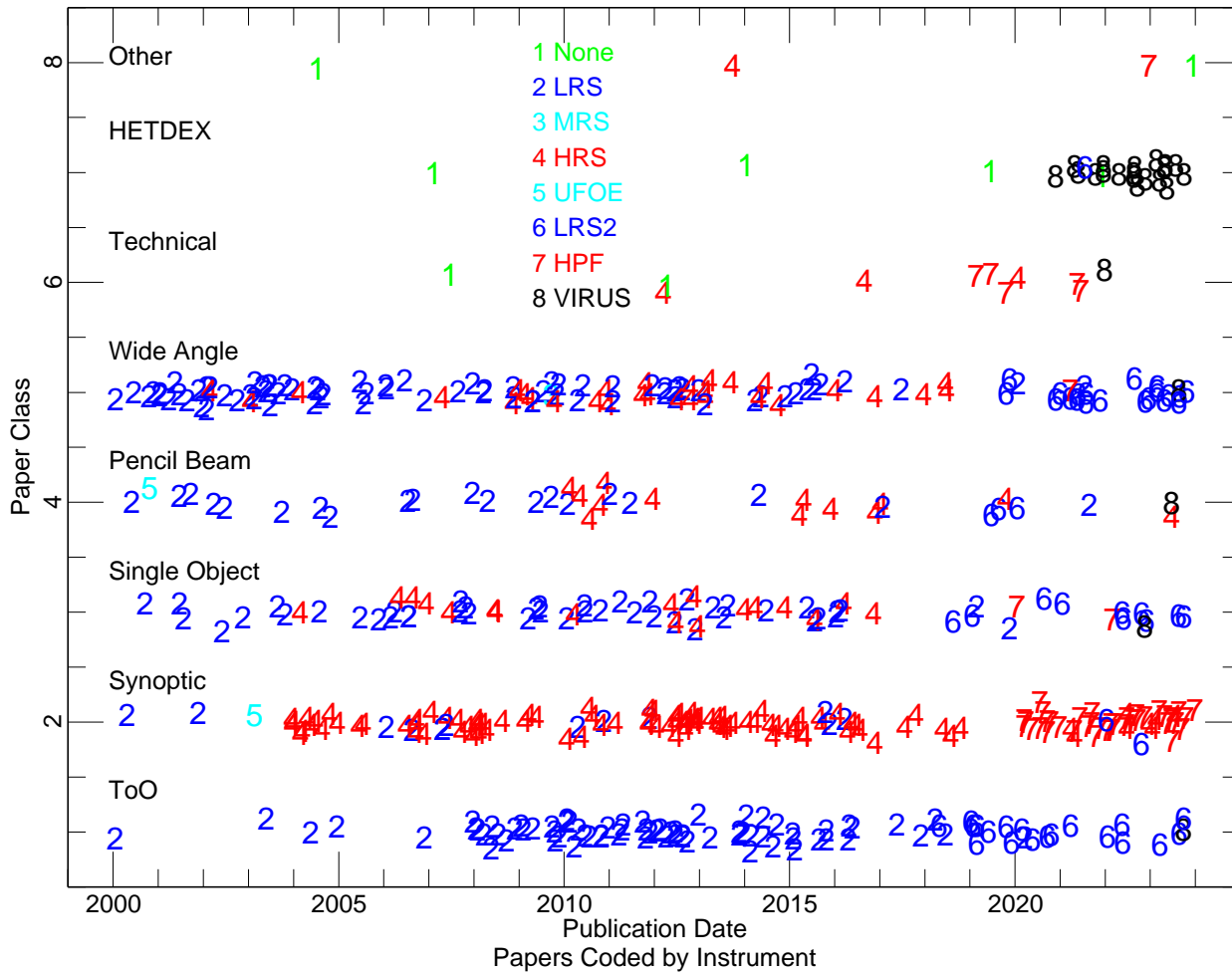
The histogram of the citation distribution of the 532 HET publications. Each bin has a width of five (e.g., the leftmost bin indicates the number of papers with 0, 1, 2, 3, or 4 citations). The rightmost bin contains all publications that have at least 250 citations (a total of 25 papers).



The logarithm of the number of citations as a function of publication date for the HET papers. (If a paper has zero citations, it is assigned a value of -0.3 .) The individual points are coded by the type of program. Most of the high-impact papers over the past decade have depended upon HET's queue-scheduling ability (Target of Opportunity and Synoptic projects).



Identical format of the previous figure, except that the individual points are coded by the instrument used for the observations. Papers indicated by a green “1” did not use any HET observations, but were based on HET properties (e.g., the review of the HET queue operation).



The dates of publication of HET papers sorted by project class. The points are coded by instrument. The increasing importance of Target of Opportunity (primarily supernovae and gamma-ray bursts) and Synoptic (primarily exoplanets) is readily apparent in the diagram.

| <i>N</i> | Date | <i>N</i> _{cite} | Title |
|----------|---------|--------------------------|---|
| 1 | 08 2014 | 1566 | Improved Cosmological Constraints From a Joint Analysis of the SDSS-III and SNLS Supernova Samples. |
| 2 | 05 2009 | 805 | Structure and Formation of Elliptical and Spheroidal Galaxies. |
| 3 | 04 2003 | 731 | A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey II. Discovery of Three Additional Quasars at $z > 6$. |
| 4 | 11 2009 | 617 | First-Year Sloan Digital Sky Survey-II Supernova Results: Hubble Diagram and Cosmological Parameters. |
| 5 | 12 2011 | 594 | The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope. |
| 6 | 06 2012 | 539 | An Abundance of Small Exoplanets Around Stars with a Wide Range of Metallicities. |
| 7 | 05 2010 | 474 | The First Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope. |
| 8 | 09 2008 | 460 | Broadband Observations of the Naked-eye γ -ray Burst GRB 080319B. |
| 9 | 05 2008 | 420 | An Extremely Luminous X-ray Outburst at the Birth of a Supernova. |
| 10 | 01 2008 | 406 | The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary. |
| 11 | 01 2001 | 399 | High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data IV. Luminosity Function from . . . |
| 12 | 01 2002 | 387 | Towards Spectra Classification of L and T Dwarfs: Infrared and Optical Spectroscopy and Analysis. |
| 13 | 06 2002 | 373 | Characterization of M, L, and T Dwarfs in the Sloan Digital Sky Survey. |
| 14 | 04 2007 | 365 | Reverberation Mapping of High-Luminosity Quasars: First Results. |
| 15 | 07 2006 | 352 | A Compact Supermassive Binary Black Hole System. |
| 16 | 08 2004 | 351 | A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey. III. Discovery of Five Additional Quasars. |
| 17 | 01 2008 | 331 | Sodium Absorption from the Exoplanetary Atmosphere of HD 189733b Detected in the Optical Transmission Spectrum. |
| 18 | 08 2007 | 310 | The X-ray Properties of the Most Luminous Quasars from the Sloan Digital Sky Survey. |
| 19 | 10 2010 | 307 | The California Planet Survey. I. Four New Giant Exoplanets. |
| 20 | 09 2012 | 279 | Kepler-47: A Transiting Circumbinary Multiplanet System. |
| 21 | 10 2004 | 279 | Detection of a Neptune-mass Planet in the ρ^1 Cancri System Using the Hobby-Eberly Telescope. |
| 22 | 08 2005 | 271 | The Sloan Digital Sky Survey Quasar Catalog III. Third Data Release. |
| 23 | 05 2014 | 255 | A Wolf-Rayet-like Progenitor of SN 2013cu from Spectral Observations of a Stellar Wind. |
| 24 | 06 2001 | 251 | The Chandra Deep Survey of the Hubble Deep Field North Area. II. Results from the Caltech Faint Field Galaxy . . . |
| 25 | 01 2006 | 250 | Binary Quasars in the Sloan Digital Sky Survey: Evidence for Excess Clustering on Small Scales. |
| 26 | 03 2008 | 246 | CGRaBS: An All-Sky Survey of Gamma-Ray Blazar Candidates. |
| 27 | 11 2010 | 241 | Bulgeless Giant Galaxies Challenge Our Picture of Galaxy Formation by Hierarchical Clustering. |
| 28 | 06 2016 | 239 | State of the Field: Extreme Precision Radial Velocities. |
| 29 | 02 2012 | 236 | Generalized Seim-analytical Models of Supernova Light Curves. |
| 30 | 12 2007 | 235 | Four Quasars above Redshift 6 Discovered by the Canada-France High- z Quasar Survey. |
| 31 | 10 2010 | 234 | The Effect of Host Galaxies on Type Ia Supernovae in the SDSS-II Supernova Survey. |
| 32 | 01 2011 | 228 | Supermassive Black Holes do not Correlate with Galaxy Disks or Pseudobulges. |
| 33 | 11 2008 | 221 | The SEGUE Stellar Parameter Pipeline. III. Comparison with High-Resolution Spectroscopy of SDSS/SEGUE Field Stars. |
| 34 | 10 2007 | 215 | SN 2005ap: A Most Brilliant Explosion. |
| 35 | 01 2014 | 212 | A Panchromatic View of the Restless SN 2009ip Reveals the Explosive Ejection of a Massive Star Envelope. |
| 36 | 06 2009 | 210 | Luminous Thermal Flares from Quiescent Supermassive Black Holes. |
| 37 | 06 2012 | 209 | The Luminosity Function of Fermi-detected Flat-spectrum Radio Quasars. |
| 38 | 09 2002 | 205 | Large-Amplitude X-Ray Outbursts from Galactic Nuclei: A Systematic Survey Using ROSAT Archival Data. |
| 39 | 05 2001 | 201 | Colors of 2625 Quasars at $0 < z < 5$ Measured in the Sloan Digital Sky Survey Photometric System. |
| 40 | 02 2013 | 200 | Oxygen Abundances in Nearby FGK Stars and the Galactic Chemical Evolution of the Local Disk and Halo. |
| 41 | 04 2009 | 197 | SN 2005cs in M51 II. Complete Evolution in the Optical and the Near-Infrared. |
| 42 | 08 2012 | 196 | A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes. |
| 43 | 06 2000 | 196 | The Missing Link: Early Methane ("T") Dwarfs in the Sloan Digital Sky Survey. |
| 44 | 01 2008 | 195 | The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and Follow-up Observations. |
| 45 | 06 2018 | 194 | The Data Release of the Sloan Digital Sky Survey-II Supernova Survey. |
| 46 | 11 2011 | 191 | KOI-54: The Kepler Discovery of Tidally-Excited Pulsations and Brightenings in a Highly Eccentric Binary. |
| 47 | 10 2012 | 189 | The Neptune-sized Circumbinary Planet Kepler-38b. |
| 48 | 09 2006 | 187 | Exploring the frequency of Close-in Jovian Planets Around M Dwarfs. |
| 49 | 06 2004 | 185 | The Munich Near-Infrared Cluster Survey (MUNICS). VI. The Stellar Masses of K-Band-selected Field Galaxies to $z \approx 1.2$. |
| 50 | 10 2011 | 184 | The Distribution of the Elements in the Galactic Disk. III. A Reconsideration of Cepheids from $l = 30^\circ$ to 250° . |
| 51 | 11 2016 | 183 | The Solar Neighborhood. XXXVII: The Mass-Luminosity Relation for Main-sequence M Dwarfs. |
| 52 | 04 2007 | 183 | Oxygen Abundances in Nearby Stars. Clues to the Formation and Evolution of the Galactic Disk. |
| 53 | 03 2012 | 182 | Spectroscopy of Broad-line Blazars from 1LAC. |
| 54 | 11 2008 | 179 | The Sloan Digital Sky Survey-II Photometry and Supernova Ia Light Curves from the 2005 Data. |
| 55 | 11 2012 | 176 | An Over-massive Black Hole in the Compact Lenticular Galaxy NGC 1277. |
| 56 | 09 2009 | 162 | An Infrared/X-ray Survey for New Members of the Taurus Star-Forming Region. |
| 57 | 08 2003 | 162 | Accretion Disk Wind in the AGN Broad Line Region: Spectroscopically Resolved Line Profile Variation in MK 110. |
| 58 | 12 2007 | 159 | Dynamical Modelling of Luminous and Dark Matter in 17 Coma Early-Type Galaxies. |
| 59 | 09 2006 | 154 | A Transiting Planet of a Sun-like Star. |
| 60 | 11 2011 | 151 | The hot-Jupiter Kepler-17b: Discovery, Obliquity from Stroboscopic Starspots, and Atmospheric Characterization. |

| <i>N</i> | Date | <i>N</i> _{cite} | Title |
|----------|---------|--------------------------|---|
| 61 | 02 2015 | 149 | Early-time Light Curves of Type Ib/c Supernovae from the SDSS-II Supernova Survey. |
| 62 | 04 2016 | 147 | SN 2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a Non-degenerate Binary Companion. |
| 63 | 10 2009 | 145 | Rotational Velocities for M Dwarfs. |
| 64 | 09 2009 | 145 | Variable Sodium Absorption in a Low-extinction Type Ia Supernova. |
| 65 | 12 2010 | 142 | Extremely Metal-poor Stars in Classical Dwarf Spheroidal Galaxies: Fornax, Sculptor, and Sextans. |
| 66 | 07 2005 | 142 | A Giant Planet Around the Massive Giant Star HD 13189. |
| 67 | 10 2009 | 139 | First-Year Sloan Digital Sky Survey-II (SDSS-II) Supernova Results: Constrains on Nonstandard Cosmological Models. |
| 68 | 06 2014 | 137 | Binarity in Carbon-enhanced Metal-poor Stars. |
| 69 | 12 2010 | 136 | Results from the Supernova Photometric Classification Challenge. |
| 70 | 01 2009 | 132 | Discovery of the Ultra-Bright Type II-L Supernova 2008es. |
| 71 | 12 2007 | 132 | XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion Binary. |
| 72 | 01 2001 | 128 | High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data III. A Color-selected Sample at $i^* < 20$. . . |
| 73 | 01 2012 | 127 | Very Early Ultraviolet and Optical Observations of the Type Ia Supernova 2009ig. |
| 74 | 01 2011 | 126 | Supermassive Black Holes do not Correlate with Dark Matter Haloes of Galaxies. |
| 75 | 09 2011 | 125 | Photometric Type Ia Supernova Candidates from the Three-Year SDSS-II SN Survey Data. |
| 76 | 03 2008 | 124 | Using Quantitative Spectroscopic Analysis to Determine the Properties and Distances of Type II Plateau Supernova: . . . |
| 77 | 05 2004 | 124 | SN 2003du: Signatures of the Circumstellar Environment in a Normal Type Ia Supernova? |
| 78 | 03 2009 | 122 | On the Magnetic Topology of Partially and Fully Convective Stars. |
| 79 | 05 2007 | 122 | Ten Year Review of Queue Scheduling of the Hobby-Eberly Telescope. |
| 80 | 04 2008 | 121 | XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star. |
| 81 | 03 2008 | 119 | Quasar Broad Absorption Line Variability on Multiyear Timescales. |
| 82 | 08 2015 | 116 | Kepler 453b - The 10 th Kepler Transiting Circumbinary Planet. |
| 83 | 09 2020 | 115 | A Giant Planet Candidate Transiting a White Dwarf. |
| 84 | 03 2012 | 114 | Demonstration of On-sky Calibration of Astronomical Spectra Using a 25 GHz Near-IR Laser Frequency Comb. |
| 85 | 09 2007 | 113 | SN 2006hp: Probing the Shock Breakout of a Type II-P Supernova. |
| 86 | 02 2010 | 108 | First-year Sloan Digital Sky Survey-II Supernova Results: Consistency and Constraints with Other Intermediate-Redshift . . . |
| 87 | 02 2015 | 106 | Composite Bulges: The Coexistence of Classical Bulges and Discy Pseudo-bulges in S0 and Spiral Galaxies. |
| 88 | 11 2011 | 106 | The Effect of Peculiar Velocities on Supernova Cosmology. |
| 89 | 10 2011 | 105 | Improved Constraints on Type Ia Supernova Host Galaxy Properties Using Multi-wavelength Photometry and Their . . . |
| 90 | 05 2010 | 104 | Abundances of Red Giants in Old Open Clusters. V. Be 31, Be 32, Be 39, M 67, NGC 188, and NGC 1193. |
| 91 | 03 2010 | 104 | The Rise and Fall of Type Ia Supernova Light Curves in the SDSS-II Supernova Survey. |
| 92 | 06 2006 | 104 | Chandra Observations of the Highest Redshift Quasars from the Sloan Digital Sky Survey. |
| 93 | 07 2008 | 103 | A Measurement of the Rate of Type Ia Supernovae at Redshift $z \sim 0.1$ from the First Season of the SDSS-II Supernova . . . |
| 94 | 06 2003 | 103 | The Gamma-Ray Blazar Content of the Northern Sky. |
| 95 | 08 2001 | 103 | High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data VI. Sloan Digital Sky Survey . . . |
| 96 | 08 2006 | 102 | A Survey for New Members of Taurus with the Spitzer Space Telescope. |
| 97 | 06 2018 | 101 | CARMENES Input Catalog of M Dwarfs. III. Rotation and Activity from High Resolution Spectroscopy Observations. |
| 98 | 01 2000 | 101 | GRB 991216 Joins the Jet Set: Discovery and Monitoring of Its Optical Afterglow. |
| 99 | 04 2007 | 100 | Long-term Profile Variability of Double-Peaked Emission Lines in Active Galactic Nuclei. |
| 100 | 10 2011 | 98 | A More General Model for the Intrinsic Scatter in Type Ia Supernova Distance Moduli. |
| 101 | 01 2006 | 98 | Cool White Dwarfs in the Sloan Digital Sky Survey. |
| 102 | 06 2012 | 97 | A Detection of H α in an Exoplanetary Exosphere. |
| 103 | 11 2007 | 97 | A Planetary-Mass Companion to the K0 Giant HD 17092. |
| 104 | 11 2006 | 97 | Multiwavelength Observations of GRB 050810A: An Exceptionally Energetic Event Followed from Start to Finish. |
| 105 | 08 2012 | 96 | The SDSS-II Supernova Survey: Parameterizing the Type Ia Supernova Rate as a Function of Host Galaxy Properties. |
| 106 | 10 2010 | 91 | Single or Double Degenerate Progenitors? Searching for Shock Emission in the SDSS-II Type Ia Supernovae. |
| 107 | 07 2006 | 90 | The Spatial Distribution of Brown Dwarfs in Taurus. |
| 108 | 06 2005 | 90 | A Northern Survey of Gamma-Ray Blazar Candidates. |
| 109 | 05 2003 | 90 | GRB021004: a Massive Progenitor Star Surrounded by Shells. |
| 110 | 02 2013 | 89 | H α Activity of Old M Dwarfs: Stellar Cycles and Mean Activity Levels for 93 Low-mass Stars . . . |
| 111 | 01 2010 | 89 | The Old and Heavy Bulge of M31 I. Kinematics and Stellar Populations. |
| 112 | 08 2003 | 89 | The Chandra Deep Field North Survey. XV. Optically Bright, X-ray-Faint Sources. |
| 113 | 06 2004 | 88 | Searching for Planets in the Hyades. V. Limits on Planet Detection in the Presence of Stellar Activity. |
| 114 | 10 2010 | 87 | A Tidal Disruption Flare in Abell 1689 from an Archival X-ray Survey of Galaxy Clusters. |
| 115 | 11 2013 | 86 | The Very Young Type Ia Supernova 2013dy: Discovery, and Strong Carbon Absorption in Early-time Spectra. |
| 116 | 10 2012 | 86 | Oxygen Abundances in Low- and High- α Field Halo Stars and the Discovery of Two Field Stars Born in Globular Clusters. |
| 117 | 04 2004 | 86 | Dynamical Mass Constraints on Low-Mass Pre-Main-Sequence Stellar Evolutionary Tracks: An Eclipsing Binary . . . |
| 118 | 08 2012 | 85 | The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star. |
| 119 | 07 2004 | 85 | Q0906+6930: The Highest Redshift Blazar. |
| 120 | 07 2011 | 84 | A Population of X-Ray Weak Quasars: PHL 1811 Analogs at High Redshift. |

| <i>N</i> | Date | <i>N</i> _{cite} | Title |
|----------|---------|--------------------------|--|
| 121 | 03 2011 | 84 | Implications of Dramatic Broad Absorption Line Variability in the Quasar FBQS 1408+3054. |
| 122 | 12 2003 | 83 | A Dedicated M-Dwarf Planet Search Using The Hobby-Eberly Telescope. |
| 123 | 06 2012 | 80 | Linking Type Ia Supernova Progenitors and Their Resulting Explosions. |
| 124 | 06 2005 | 80 | X-Ray Lighthouses of the High-Redshift Universe. II. Further Snapshot Observations of the Most Luminous $z \geq 4$. . . |
| 125 | 07 2001 | 80 | Hubble Space Telescope Images of Stephan's Quintet: Star Cluster Formation in a Compact Group Environment. |
| 126 | 02 2019 | 79 | Stellar Spectroscopy in the Near-infrared with a Laser Frequency Comb. |
| 127 | 11 2011 | 78 | The Chemical Abundances of Stars in the Halo (CASH) Project. II. A Sample of 14 Extremely Metal-poor Stars. |
| 128 | 09 2010 | 78 | Hot Subdwarf Stars in Close-up View. II. Rotational Properties and Wide Binary Subdwarf B Stars. |
| 129 | 01 2015 | 77 | A Luminous, Fast Rising UV-transient Discovered by ROTSE: A Tidal Disruption Event? |
| 130 | 09 2006 | 77 | The First Extrasolar Planet Discovered with a New-Generation High-Throughput Doppler Instrument. |
| 131 | 04 2010 | 76 | Measurements of the Rate of Type Ia Supernovae at Redshift ~ 0.3 from the Sloan Digital Sky Survey II Supernova Survey. |
| 132 | 01 2010 | 76 | Early- and Late-Time Observations of SN 2008ha: Additional Constraints for the Progenitor and Explosion. |
| 133 | 01 2015 | 74 | The Broad-lined Type Ic SN 2012ap and the Nature of Relativistic Supernovae Lacking a Gamma-Ray Burst Detection. |
| 134 | 06 2003 | 74 | Chandra and XMM Newton Observations of the First Quasars: X-Rays From the Age of Cosmic Enlightenment. |
| 135 | 05 2009 | 73 | A Search for Multi-Planet Systems Using the Hobby-Eberly Telescope. |
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