

HET Publication Report

HET Board Meeting

7/8 June 2023

University of Göttingen

Executive Summary

- There are now 509 peer-reviewed HET publications
 - Twenty-nine papers published in 2021
 - Thirty-five papers published in 2022
 - As of 1 June, 15 papers published in 2023
- HET papers have 35271 citations
 - Average of 69, median of 35 citations per paper
 - H-number of 97
 - 94 papers have ≥ 100 citations; 199 have ≥ 50 cites
- Wide angle (non-HETDEX) surveys account for 25% 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 22 papers.
- LRS2 and HPF have published 48 and 41 papers, respectively.
- Listing of the HET papers (with ADS links) is given at
<http://personal.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 509 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; last year had the second highest number of publications (35).
- Through 1 June the current year has produced 15 HET papers.
- Each HET partner has published at least 16 papers using HET data.
- Nineteen papers have been published from NOAO time.
- A total of 108 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.psu.edu/dps7/hetpapers.html>

Citations to Peer-reviewed Publications

- The 509 HET papers have garnered 35271 citations for an average of 69.3 per paper (median number is 35).
- The HET's H-number is now 97.
- The number of citations ranges from 0 to 1508. Twenty-five papers have one or zero citations; 199 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 four most cited Wide Angle Survey (non-HETDEX) papers have 469, 585, 723, and 792 citations.
- “Dark Time” projects have average higher citation rates (85) 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 four papers have 276, 291, 324, and 515 citations).
- “Target of Opportunity” impact: Top four ToO papers have 411, 449, 610, and 1509 citations.

Summary of HET Publications June 2023

Year	Papers	Total	Total Citations	Average Citations
2000	9	9	595	66.11
2001	13	22	1407	108.23
2002	10	32	1125	112.50
2003	20	52	1784	89.20
2004	21	73	1654	78.76
2005	7	80	676	96.57
2006	21	101	1886	89.81
2007	21	122	2361	112.43
2008	24	146	3231	134.62
2009	26	172	3222	123.92
2010	33	205	2896	87.76
2011	26	231	2582	99.31
2012	44	275	3650	82.95
2013	23	298	878	38.17
2014	24	322	2806	116.92
2015	28	350	1342	47.93
2016	19	369	918	48.32
2017	8	377	223	27.88
2018	9	386	457	50.78
2019	19	405	426	22.42
2020	24	429	487	20.29
2021	30	459	439	14.63
2022	35	494	195	5.57
2023	15	509	31	2.07
Total	509		35271	69.30

Summary of Program Classes

Code	Class	Papers	Total Citations	Average Citations
1	ToO	90	9541	106.01
2	Synoptic	147	7679	52.24
3	Single Object	74	3256	44.00
4	Pencil Beam	36	2545	70.69
5	Wide Angle	126	11586	91.95
6	Technical	11	421	38.27
7	HETDEX	22	222	10.09
8	Other	3	21	7.00

Summary of Dark/Light Time

Code	Time	Papers	Total Citations	Average Citations
1	Dark	288	24430	84.83
2	Light	208	10404	50.02
3	Other	13	437	33.62

HET Publications Sorted by Journal

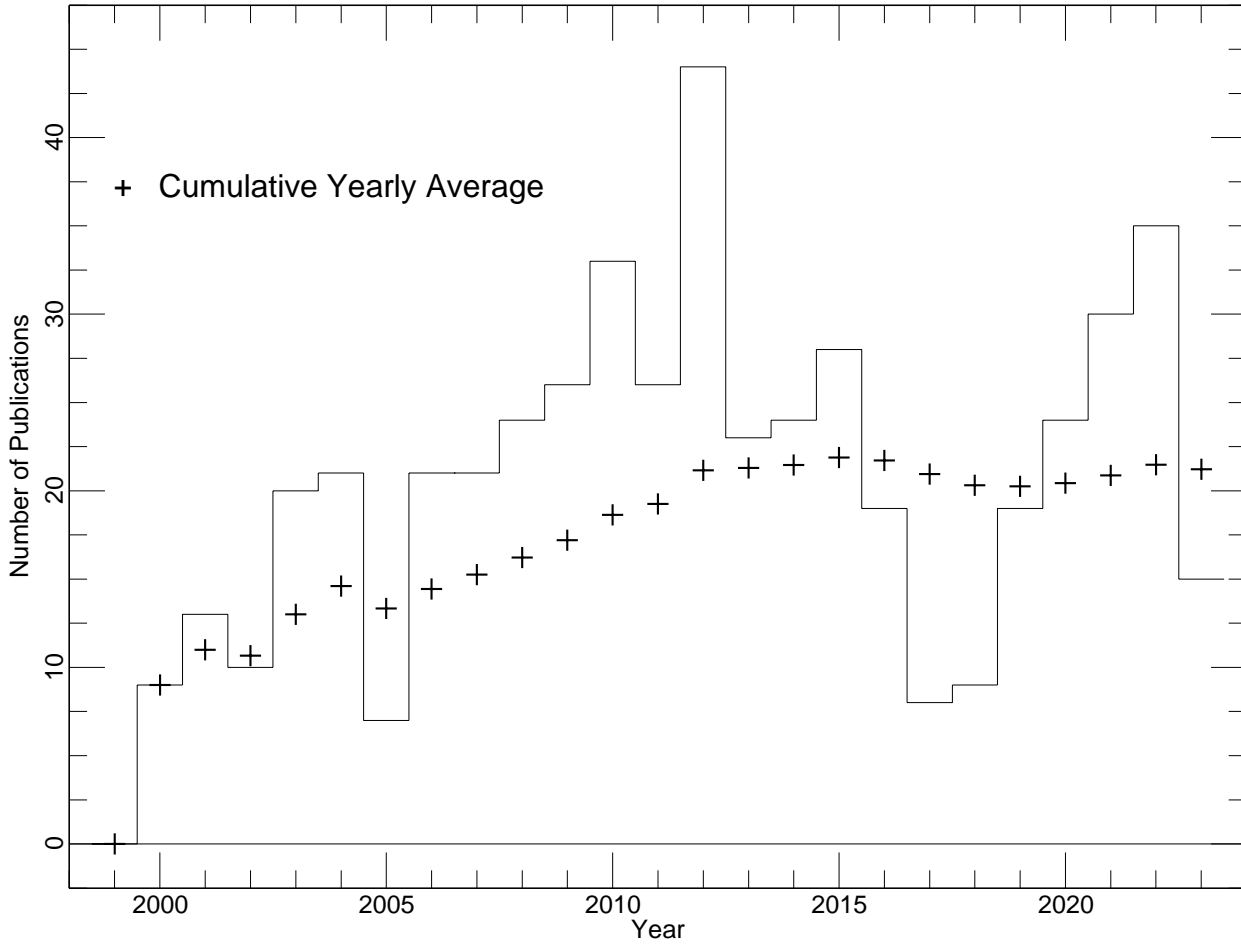
Papers	Average Citations	Journal
105	66.56	The Astronomical Journal
208	67.60	The Astrophysical Journal
39	56.03	The Astrophysical Journal (Letters)
13	65.46	The Publications of the Astronomical Society of the Pacific
21	128.48	The Astrophysical Journal Supplement Series
11	208.00	Nature
1	276.00	Science
49	36.76	The Monthly Notices of the Royal Astronomical Society
2	34.50	The Monthly Notices of the Royal Astronomical Society (Letters)
49	74.27	Astronomy and Astrophysics
5	37.00	Astronomy and Astrophysics (Letters)
1	21.00	Journal of Cosmology and Astroparticle Physics
1	107.00	Optics Express
1	4.00	Astronomische Nachrichten
1	6.00	Jour of Astronomical Telescope and Instrumentation Systems
1	69.00	Optica
1	23.00	Optics Letters

HET Publications Sorted by Instrument

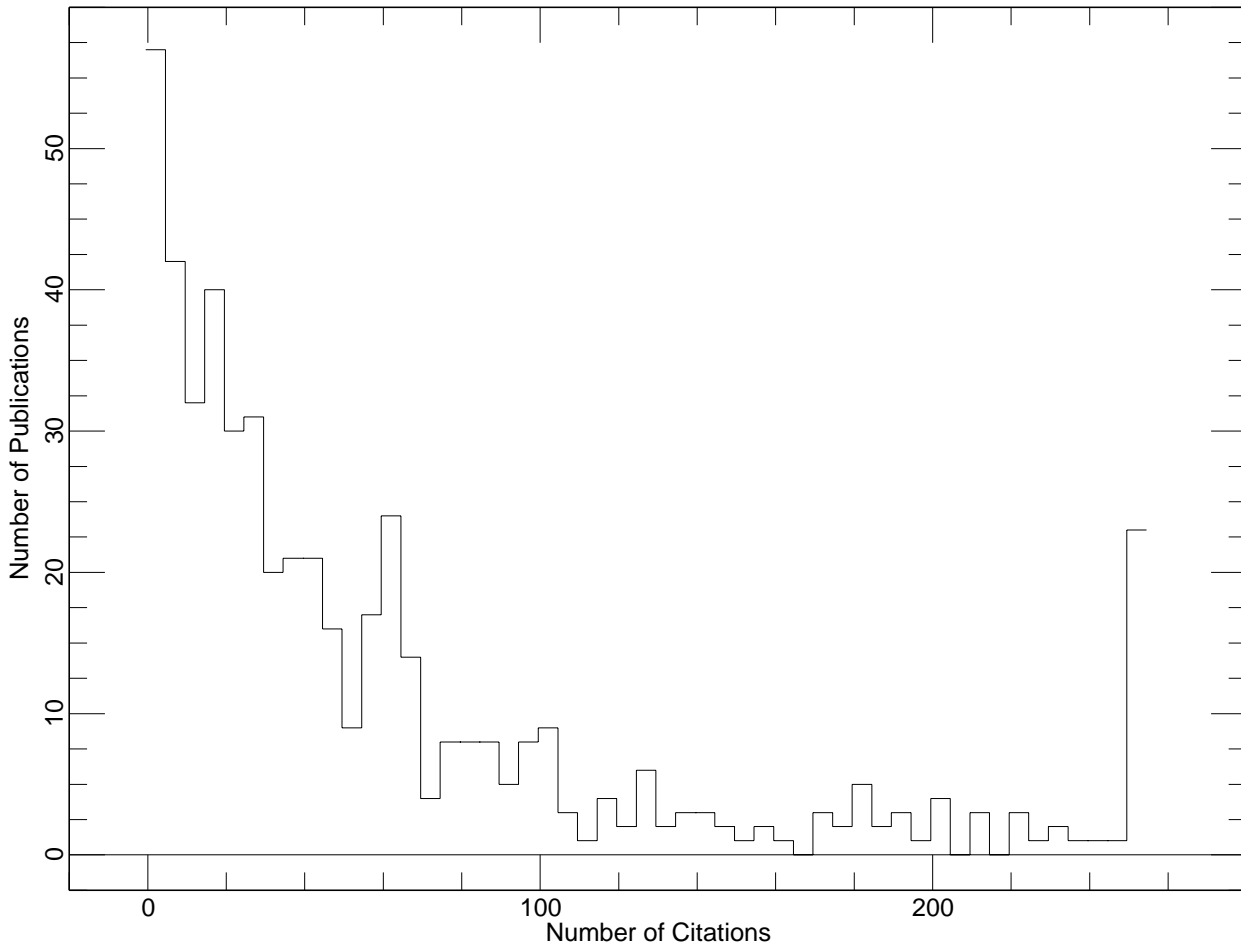
Code	Instrument	Papers	Total Citations	Average Citations
1	None	7	306	43.71
2	LRS	228	23538	103.24
3	MRS	1	25	25.00
4	HRS	163	9783	60.02
5	UFOE	2	115	57.50
6	LRS2	48	685	14.27
7	HPF	41	638	15.56
8	VIRUS	19	181	9.53

“Hot Papers” (2021-2023)

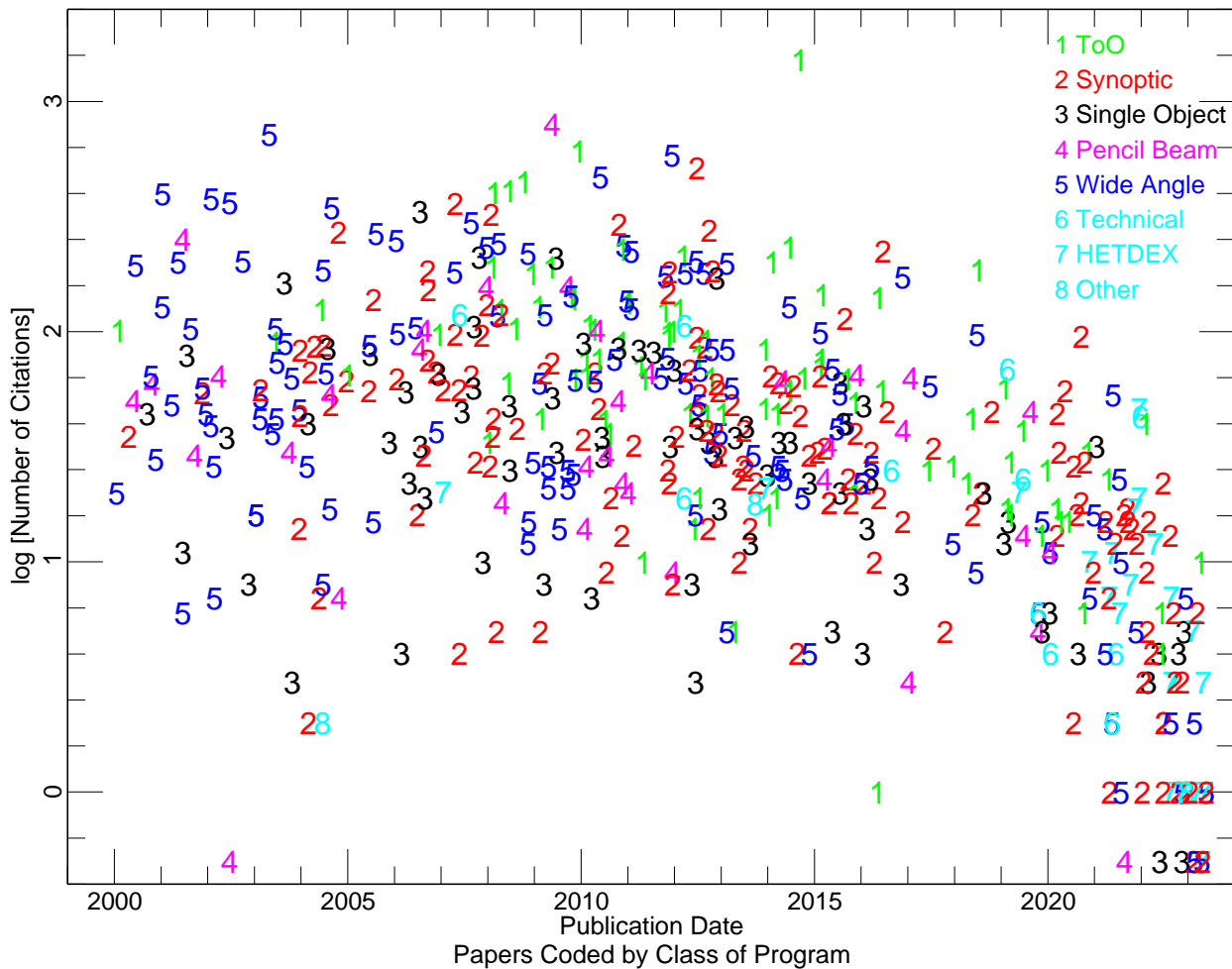
- (53) I Spy transits and Pulsations: Empirical Variability in White Dwarfs Using Gaia and the Zwicky Transient Facility. Guidry, J., et al. 2021, ApJ
- (46) The Hobby-Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections. Gebhardt, K., et al. 2021, ApJ
- (43) The HETDEX Instrumentation: Hobby Eberly Telescope Wide-field Upgrade and VIRUS. Hill, G., et al. 2021, AJ
- (40) A WC/WO Star Exploding Within an Expanding Carbon-Oxygen-Neon Nebula. Gal-Yam, A., et al. 2022, Nature
- (32) The S2 Stream: The Shreds of a Primitive Dwarf Galaxy. Aguado, D., et al. 2021, MNRAS
- (23) The Peculiar Transient AT2018cow: A Possible Origin of a Type Ibn/IIn Supernova. Xiang, D., et al. 2021, ApJ
- (23) Taking the Long Look: A Two-decade Reverberation Mapping Study of High Luminosity Quasars. Kaspi, S., et al. 2021, ApJ
- (22) The Warm Neptune GJ 3470b Has a Polar Orbit. Stefansson, G., et al. 2022, ApJL
- (19) 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
- (17) Correcting Correlation Functions for Redshift-dependent Interloper Contamination. Farrow, D., et al. 2021, MNRAS
- (17) The Habitable-zone Planet Finder Detects a Terrestrial-mass Planet Candidate Closely Orbiting Gliese 1151: The Likely Source of Coherent Low-frequency radio Emission from an Inactive Star. Mahadevan, S., et al. 2021, ApJL



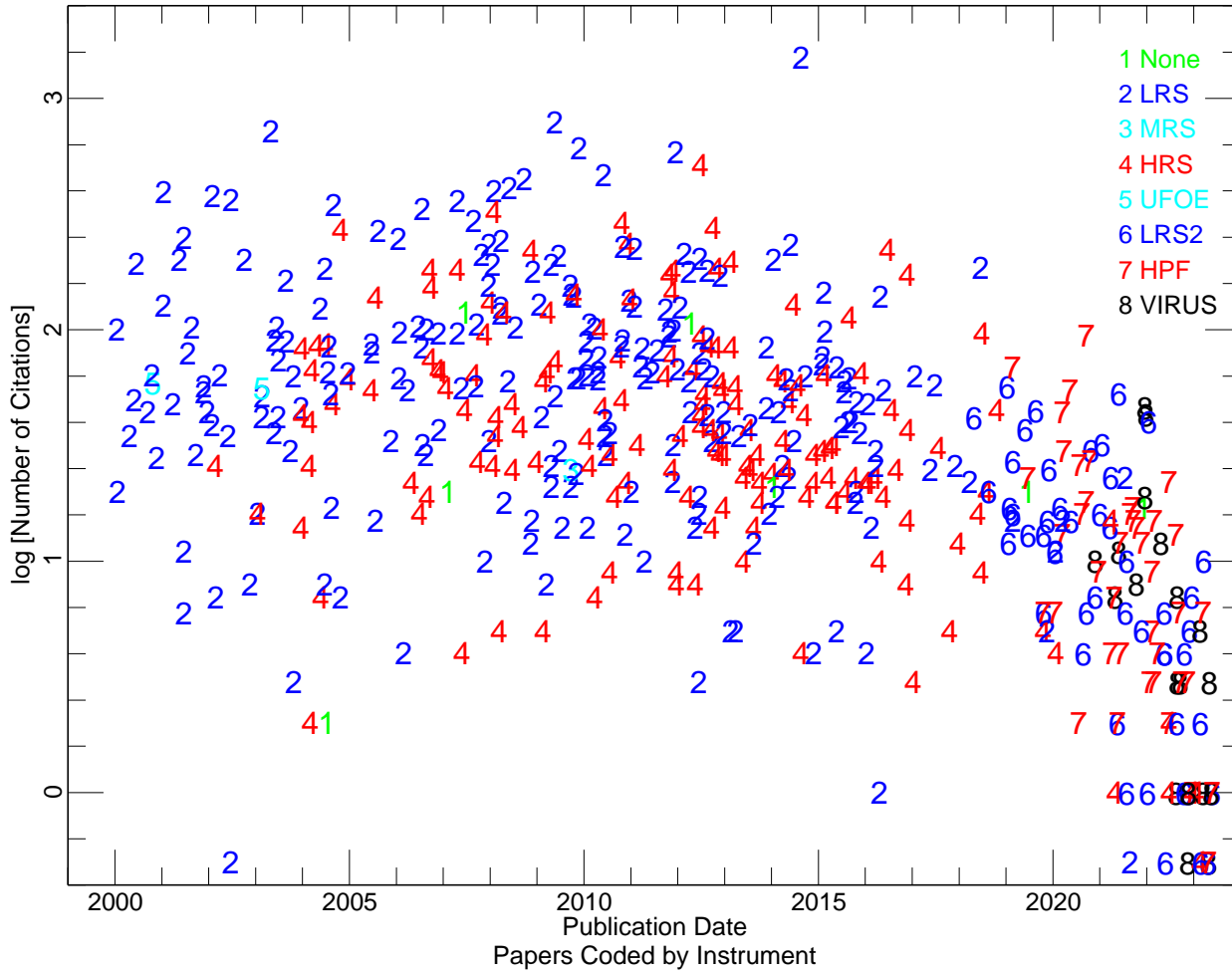
The number of HET publications each year (histogram) and the cumulative annual average of the annual number of publications (plus signs). A total of 509 HET papers have been published since the appearance of the first work in January 2000. Thirty-five papers appeared in 2022; 15 have been published in 2023 to date.



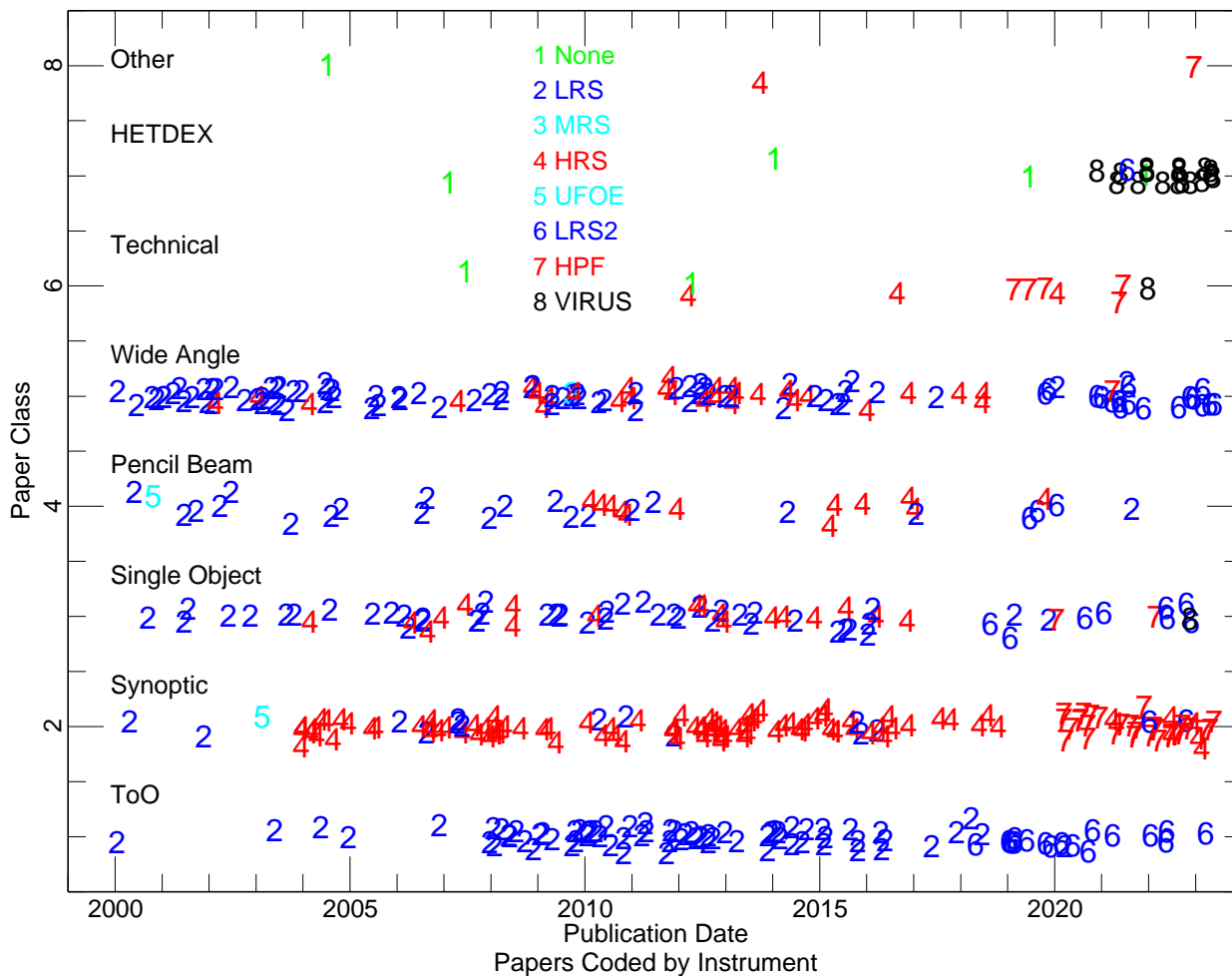
The histogram of the citation distribution of the 509 HET publications. Each bin has a width of five (e.g., the leftmost bin indicates the number of papers with 0, 1, 2, 3, or 4 citations). The rightmost bin contains all publications that have at least 250 citations (a total of 23 papers).



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>	Year	<i>N</i> _{cite}	Title
1	08 2014	1509	Improved Cosmological Constraints From a Joint Analysis of the SDSS-III and SNLS Supernova Samples.
2	05 2009	792	Structure and Formation of Elliptical and Spheroidal Galaxies.
3	04 2003	723	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	610	First-Year Sloan Digital Sky Survey-II Supernova Results: Hubble Diagram and Cosmological Parameters.
5	12 2011	585	The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope.
6	06 2012	515	An Abundance of Small Exoplanets Around Stars with a Wide Range of Metallicities.
7	05 2010	469	The First Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope.
8	09 2008	449	Broadband Observations of the Naked-eye γ -ray Burst GRB 080319B.
9	05 2008	411	An Extremely Luminous X-ray Outburst at the Birth of a Supernova.
10	01 2008	400	The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary.
11	01 2001	396	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data IV. Luminosity Function from . . .
12	01 2002	379	Towards Spectra Classification of L and T Dwarfs: Infrared and Optical Spectroscopy and Analysis.
13	06 2002	365	Characterization of M, L, and T Dwarfs in the Sloan Digital Sky Survey.
14	04 2007	360	Reverberation Mapping of High-Luminosity Quasars: First Results.
15	08 2004	347	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey. III. Discovery of Five Additional Quasars.
16	07 2006	334	A Compact Supermassive Binary Black Hole System.
17	01 2008	324	Sodium Absorption from the Exoplanetary Atmosphere of HD 189733b Detected in the Optical Transmission Spectrum.
18	08 2007	297	The X-ray Properties of the Most Luminous Quasars from the Sloan Digital Sky Survey.
19	10 2010	291	The California Planet Survey. I. Four New Giant Exoplanets.
20	09 2012	276	Kepler-47: A Transiting Circumbinary Multiplanet System.
21	10 2004	271	Detection of a Neptune-mass Planet in the ρ^1 Cancri System Using the Hobby-Eberly Telescope.
22	08 2005	268	The Sloan Digital Sky Survey Quasar Catalog III. Third Data Release.
23	06 2001	251	The Chandra Deep Survey of the Hubble Deep Field North Area. II. Results from the Caltech Faint Field Galaxy . . .
24	01 2006	249	Binary Quasars in the Sloan Digital Sky Survey: Evidence for Excess Clustering on Small Scales.
25	03 2008	242	CGRaBS: An All-Sky Survey of Gamma-Ray Blazar Candidates.
26	11 2010	237	Bulgeless Giant Galaxies Challenge Our Picture of Galaxy Formation by Hierarchical Clustering.
27	05 2014	233	A Wolf-Rayet-like Progenitor of SN 2013cu from Spectral Observations of a Stellar Wind.
28	12 2007	233	Four Quasars above Redshift 6 Discovered by the Canada-France High- z Quasar Survey.
29	10 2010	228	The Effect of Host Galaxies on Type Ia Supernovae in the SDSS-II Supernova Survey.
30	01 2011	224	Supermassive Black Holes do not Correlate with Galaxy Disks or Pseudobulges.
31	06 2016	223	State of the Field: Extreme Precision Radial Velocities.
32	11 2008	220	The SEGUE Stellar Parameter Pipeline. III. Comparison with High-Resolution Spectroscopy of SDSS/SEGUE Field Stars.
33	02 2012	213	Generalized Seim-analytical Models of Supernova Light Curves.
34	10 2007	212	SN 2005ap: A Most Brilliant Explosion.
35	06 2009	210	Luminous Thermal Flares from Quiescent Supermassive Black Holes.
36	06 2012	203	The Luminosity Function of Fermi-detected Flat-spectrum Radio Quasars.
37	09 2002	202	Large-Amplitude X-Ray Outbursts from Galactic Nuclei: A Systematic Survey Using ROSAT Archival Data.
38	01 2014	201	A Panchromatic View of the Restless SN 2009ip Reveals the Explosive Ejection of a Massive Star Envelope.
39	05 2001	201	Colors of 2625 Quasars at $0 < z < 5$ Measured in the Sloan Digital Sky Survey Photometric System.
40	02 2013	198	Oxygen Abundances in Nearby FGK Stars and the Galactic Chemical Evolution of the Local Disk and Halo.
41	06 2000	194	The Missing Link: Early Methane ("T") Dwarfs in the Sloan Digital Sky Survey.
42	04 2009	191	SN 2005cs in M51 II. Complete Evolution in the Optical and the Near-Infrared.
43	01 2008	191	The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and Follow-up Observations.
44	06 2018	186	The Data Release of the Sloan Digital Sky Survey-II Supernova Survey.
45	06 2004	185	The Munich Near-Infrared Cluster Survey (MUNICS). VI. The Stellar Masses of K-Band-selected Field Galaxies to $z \approx 1.2$.
46	10 2012	184	The Neptune-sized Circumbinary Planet Kepler-38b.
47	09 2006	183	Exploring the frequency of Close-in Jovian Planets Around M Dwarfs.
48	04 2007	182	Oxygen Abundances in Nearby Stars. Clues to the Formation and Evolution of the Galactic Disk.
49	08 2012	181	A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes.
50	11 2011	181	KOI-54: The Kepler Discovery of Tidally-Excited Pulsations and Brightenings in a Highly Eccentric Binary.
51	03 2012	179	Spectroscopy of Broad-line Blazars from 1LAC.
52	11 2008	178	The Sloan Digital Sky Survey-II Photometry and Supernova Ia Light Curves from the 2005 Data.
53	10 2011	174	The Distribution of the Elements in the Galactic Disk. III. A Reconsideration of Cepheids from $l = 30^\circ$ to 250° .
54	11 2016	173	The Solar Neighborhood. XXXVII: The Mass-Luminosity Relation for Main-sequence M Dwarfs.
55	11 2012	172	An Over-massive Black Hole in the Compact Lenticular Galaxy NGC 1277.
56	08 2003	163	Accretion Disk Wind in the AGN Broad Line Region: Spectroscopically Resolved Line Profile Variation in MK 110.
57	09 2009	156	An Infrared/X-ray Survey for New Members of the Taurus Star-Forming Region.
58	12 2007	156	Dynamical Modelling of Luminous and Dark Matter in 17 Coma Early-Type Galaxies.
59	09 2006	152	A Transiting Planet of a Sun-like Star.
60	11 2011	147	The hot-Jupiter Kepler-17b: Discovery, Obliquity from Stroboscopic Starspots, and Atmospheric Characterization.

<i>N</i>	Year	<i>N</i> _{cite}	Title
61	02 2015	145	Early-time Light Curves of Type Ib/c Supernovae from the SDSS-II Supernova Survey.
62	10 2009	143	Rotational Velocities for M Dwarfs.
63	09 2009	142	Variable Sodium Absorption in a Low-extinction Type Ia Supernova.
64	04 2016	140	SN 2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a Non-degenerate Binary Companion.
65	10 2009	139	First-Year Sloan Digital Sky Survey-II (SDSS-II) Supernova Results: Constrains on Nonstandard Cosmological Models.
66	07 2005	138	A Giant Planet Around the Massive Giant Star HD 13189.
67	12 2010	136	Extremely Metal-poor Stars in Classical Dwarf Spheroidal Galaxies: Fornax, Sculptor, and Sextans.
68	12 2010	134	Results from the Supernova Photometric Classification Challenge.
69	12 2007	131	XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion Binary.
70	06 2014	129	Binarity in Carbon-enhanced Metal-poor Stars.
71	01 2009	129	Discovery of the Ultra-Bright Type II-L Supernova 2008es.
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 2011	126	Supermassive Black Holes do not Correlate with Dark Matter Haloes of Galaxies.
74	01 2012	125	Very Early Ultraviolet and Optical Observations of the Type Ia Supernova 2009ig.
75	03 2008	125	Using Quantitative Spectroscopic Analysis to Determine the Properties and Distances of Type II Plateau Supernova: . . .
76	05 2004	124	SN 2003du: Signatures of the Circumstellar Environment in a Normal Type Ia Supernova?
77	09 2011	123	Photometric Type Ia Supernova Candidates from the Three-Year SDSS-II SN Survey Data.
78	03 2009	119	On the Magnetic Topology of Partially and Fully Convective Stars.
79	04 2008	119	XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star.
80	05 2007	119	Ten Year Review of Queue Scheduling of the Hobby-Eberly Telescope.
81	03 2008	118	Quasar Broad Absorption Line Variability on Multiyear Timescales.
82	08 2015	114	Kepler 453b - The 10 th Kepler Transiting Circumbinary Planet.
83	03 2012	107	Demonstration of On-sky Calibration of Astronomical Spectra Using a 25 GHz Near-IR Laser Frequency Comb.
84	02 2010	106	First-year Sloan Digital Sky Survey-II Supernova Results: Consistency and Constraints with Other Intermediate-Redshift . . .
85	09 2007	106	SN 2006hp: Probing the Shock Breakout of a Type II-P Supernova.
86	06 2006	104	Chandra Observations of the Highest Redshift Quasars from the Sloan Digital Sky Survey.
87	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 . . .
88	06 2003	103	The Gamma-Ray Blazar Content of the Northern Sky.
89	08 2001	103	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data VI. Sloan Digital Sky Survey . . .
90	03 2010	102	The Rise and Fall of Type Ia Supernova Light Curves in the SDSS-II Supernova Survey.
91	05 2010	101	Abundances of Red Giants in Old Open Clusters. V. Be 31, Be 32, Be 39, M 67, NGC 188, and NGC 1193.
92	08 2006	101	A Survey for New Members of Taurus with the Spitzer Space Telescope.
93	01 2000	101	GRB 991216 Joins the Jet Set: Discovery and Monitoring of Its Optical Afterglow.
94	11 2011	100	The Effect of Peculiar Velocities on Supernova Cosmology.
95	02 2015	99	Composite Bulges: The Coexistence of Classical Bulges and Discy Psuedo-bulges in S0 and Spiral Galaxies.
96	10 2011	99	Improved Constraints on Type Ia Supernova Host Galaxy Properties Using Multi-wavelength Photometry and Their . . .
97	01 2006	98	Cool White Dwarfs in the Sloan Digital Sky Survey.
98	06 2018	97	CARMENES Input Catalog of M Dwarfs. III. Rotation and Activity from High Resolution Spectroscope Observations.
99	04 2007	97	Long-term Profile Variability of Double-Peaked Emission Lines in Active Galactic Nuclei.
100	11 2006	97	Multiwavelength Observations of GRB 050810A: An Exceptionally Energetic Event Followed from Start to Finish.
101	11 2007	96	A Planetary-Mass Companion to the K0 Giant HD 17092.
102	09 2020	95	A Giant Planet Candidate Transiting a White Dwarf.
103	06 2012	94	A Detection of H α in an Exoplanetary Exosphere.
104	10 2011	94	A More General Model for the Intrinsic Scatter in Type Ia Supernova Distance Moduli.
105	08 2012	92	The SDSS-II Supernova Survey: Parameterizing the Type Ia Supernova Rate as a Function of Host Galaxy Properties.
106	10 2010	90	Single or Double Degenerate Progenitors? Searching for Shock Emission in the SDSS-II Type Ia Supernovae.
107	05 2003	90	GRB021004: a Massive Progenitor Star Surrounded by Shells.
108	01 2010	89	The Old and Heavy Bulge of M31 I. Kinematics and Stellar Populations.
109	08 2003	89	The Chandra Deep Field North Survey. XV. Optically Bright, X-ray-Faint Sources.
110	06 2005	87	A Northern Survey of Gamma-Ray Blazar Candidates.
111	06 2004	87	Searching for Planets in the Hyades. V. Limits on Planet Detection in the Presence of Stellar Activity.
112	04 2004	86	Dynamical Mass Constraints on Low-Mass Pre-Main-Sequence Stellar Evolutionary Tracks: An Eclipsing Binary . . .
113	08 2012	85	The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star.
114	10 2010	85	A Tidal Disruption Flare in Abell 1689 from an Archival X-ray Survey of Galaxy Clusters.
115	07 2004	85	Q0906+6930: The Highest Redshift Blazar.
116	11 2013	84	The Very Young Type Ia Supernova 2013dy: Discovery, and Strong Carbon Absorption in Early-time Spectra.
117	02 2013	84	H α Activity of Old M Dwarfs: Stellar Cycles and Mean Activity Levels for 93 Low-mass Stars . . .
118	10 2012	84	Oxygen Abundances in Low- and High- α Field Halo Stars and the Discovery of Two Field Stars Born in Globular Clusters.
119	07 2006	84	The Spatial Distribution of Brown Dwarfs in Taurus.
120	03 2011	83	Implications of Dramatic Broad Absorption Line Variability in the Quasar FBQS 1408+3054.

<i>N</i>	Year	<i>N</i> _{cite}	Title
121	12 2003	83	A Dedicated M-Dwarf Planet Search Using The Hobby-Eberly Telescope.
122	07 2011	82	A Population of X-Ray Weak Quasars: PHL 1811 Analogs at High Redshift.
123	06 2005	80	X-Ray Lighthouses of the High-Redshift Universe. II. Further Snapshot Observations of the Most Luminous $z \geq 4$. . .
124	06 2012	79	Linking Type Ia Supernova Progenitors and Their Resulting Explosions.
125	07 2001	79	Hubble Space Telescope Images of Stephan's Quintet: Star Cluster Formation in a Compact Group Environment.
126	11 2011	77	The Chemical Abundances of Stars in the Halo (CASH) Project. II. A Sample of 14 Extremely Metal-poor Stars.
127	01 2015	76	A Luminous, Fast Rising UV-transient Discovered by ROTSE: A Tidal Disruption Event?
128	09 2010	76	Hot Subdwarf Stars in Close-up View. II. Rotational Properties and Wide Binary Subdwarf B Stars.
129	04 2010	76	Measurements of the Rate of Type Ia Supernovae at Redshift ~ 0.3 from the Sloan Digital Sky Survey II Supernova Survey.
130	01 2010	75	Early- and Late-Time Observations of SN 2008ha: Additional Constraints for the Progenitor and Explosion.
131	09 2006	75	The First Extrasolar Planet Discovered with a New-Generation High-Throughput Doppler Instrument.
132	06 2003	74	Chandra and XMM Newton Observations of the First Quasars: X-Rays From the Age of Cosmic Enlightenment.
133	05 2009	73	A Search for Multi-Planet Systems Using the Hobby-Eberly Telescope.
134	01 2015	71	The Broad-lined Type Ic SN 2012ap and the Nature of Relativistic Supernovae Lacking a Gamma-Ray Burst Detection.
135	03 2011	70	SN 2008 am: A Super-luminous Type II _n Supernova.
136	02 2019	69	Stellar Spectroscopy in the Near-infrared with a Laser Frequency Comb.
137	05 2015	69	Hunting for Supermassive Black Holes in Nearby Galaxies with the Hobby-Eberly Telescope.
138	07 2012	68	Kinematic Signatures of Bulges Correlate with Bulge Morphologies and Sersic Index.
139	04 2012	68	The McDonald Observatory Planet Search: New Long-period Giant Planets and Two Interacting Jupiters in the . . .
140	12 2011	68	The Orbit and Companion of Probable Gamma-Ray Pulsar J2339–0533.
141	11 2006	67	2MASS J05162881+2607387: A New Low-mass Double-lined Eclipsing Binary.
142	03 2004	67	Searching for Planets in the Hyades III. The Quest for Short-Period Planets.
143	06 2011	66	A Spectroscopic and Photometric Survey of Novae in M31.
144	04 2010	66	Long-Term Profile Variability in Active Galactic Nuclei with Double-Peaked Balmer Emission Lines.
145	03 2009	66	A Planet in a 0.6 AU Orbit Around the K0 Giant HD 102272.
146	12 2006	66	Metallicities of M Dwarf Planet Hosts from Spectral Synthesis.
147	07 2004	66	Blazar Counterparts for 3EG Sources at $-40^\circ < \delta < 0^\circ$: Pushing South through the Bulge.
148	11 2015	65	The Early Days of the Sculptor Dwarf Galaxy.
149	12 2004	65	Signature of Electron Capture in Iron-rich Ejecta of SN 2003du.
150	02 2015	64	Radial Velocity Observations and Light Curve Noise Modeling Confirm that Kepler-91b is a Giant Planet . . .
151	01 2014	64	Three Planetary Companions Around M67 Stars.
152	01 2010	64	Type II-P Supernovae from the SDSS-II Supernova Survey and the Standardized Candle Method.
153	08 2007	64	The Mass of the Candidate Exoplanet Companion to HD 33636 from Hubble Space Telescope Astrometry and . . .
154	03 2002	64	The Chandra Deep Field North Survey. IX. Extended X-Ray Sources.
155	10 2000	64	Five High-Redshift Quasars Discovered in Commissioning Imaging Data of the Sloan Digital Sky Survey.
156	01 2017	63	A Survey for New Members of the Taurus Star-forming Region with the Sloan Digital Sky Survey.
157	09 2014	63	The Core Collapse Supernova Rate From the SDSS-II Supernova Survey.
158	09 2012	63	The Very Young Type-Ia SN 2012cg: Discovery and Pre-Maximum Brightness Follow-Up Observations.
159	09 2011	63	Silicon and Oxygen Abundances in Planet-host Stars.
160	10 2003	63	The Munich Near-Infrared Cluster Survey. II. The K-Band Luminosity Function of Field Galaxies to $z \approx 1.2$.
161	08 2015	62	High-velocity Features of Calcium and Silicon in the Spectra of Type Ia Supernovae.
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413	06 2018	9	A Spectroscopic Survey of Field Red-Horizontal-branch Stars.
414	12 2011	9	Variable Stars in the Open Cluster NGC 7142.
415	07 2010	9	The XO Planetary Survey Project: Astrophysical False Positives.
416	10 2021	8	Detection of Lyman Continuum from $3.0 < z < 3.5$ Galaxies in the HETDEX Survey.
417	11 2016	8	The Detached Eclipsing Binary KV 29 and the Age of the Open Cluster M11.
418	05 2012	8	The ${}^7\text{Li}/{}^6\text{Li}$ Isotope Ratio near the Supernova Remnant IC 443.
419	12 2011	8	Non-Detection of the Putative Substellar Companion to HD 149382.
420	03 2009	8	Suzaku Observations of the Extreme MeV Blazar SWIFT J0746.3+2548.

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421	06 2004	8	Submillimetre Photometry of Typical High-redshift Radio Sources.
422	11 2002	8	The Beginning of the End: Hubble Space Telescope Images of Seyfert's Sextet.
423	12 2022	7	Discovery of 24 Radio-bright Quasars at $4.9 \leq z \leq 6.6$ Using Low-frequency Radio . . .
424	08 2022	7	The Active Galactic Nuclei in the Hobby-Eberly Telescope Dark Energy Experiment Survey (HETDEX). I. Sample . . .
425	04 2021	7	The Epoch of Giant Planet Migration Planet Search Program. I. Near-infrared Radial Velocity Jitter of Young . . .
426	04 2021	7	The Stars of the HETDEX Survey. I. Radial Velocities and Metal-poor Stars from Low-resolution . . .
427	11 2020	7	The H α Dots Survey. II. A Second List of Faint Emission-line Objects.
428	03 2010	7	Gas Absorption in the KH 15D System: Further Evidence for Dust Settling in the Circumbinary Disk.
429	10 2004	7	Photometric Identification of Cool White Dwarfs.
430	05 2004	7	Evidence of Planetsimal Infall on to the Very Young Herbig Be Star LkH α 234.
431	02 2002	7	A Spectroscopic Reconnaissance of UV-Bright Stars.
432	03 2023	6	TOI-5205b: A Short-period Jovian Planet Transiting a Mid-M Dwarf.
433	09 2022	6	TOI-3757 b: A Low-density Gas Giant Orbiting a Solar-metallicity M Dwarf.
434	05 2022	6	Seven Years of SN 2014C: A Multiwavelength Synthesis of an Extraordinary Supernova.
435	09 2020	6	Comparative Spectral Analysis of the Superluminous Supernova 2019neq.
436	07 2021	6	HETDEX [O III] Emitters. I. A Spectroscopically Selected Low-redshift Population of Low-mass, Low-metallicity Galaxies.
437	01 2020	6	A Blue Ring Nebula from a Stellar Merger Several Thousand Years Ago.
438	10 2019	6	Impact of Crosshatch Patterns in H2RGs on High-Precision Radial Velocity Measurements: Exploration of . . .
439	10 2019	6	The HETDEX Pilot Survey. VI. O III Emitters and Expectations for a Local Sample of Star-forming Galaxies in HETDEX.
440	06 2001	6	The Stanford Cluster Search: Scope Method, and Preliminary Results.
441	02 2023	5	HETDEX Public Source Catalog 1: 220 K Sources Including Over 50 K Ly α Emitters from an Untargeted Wide-area . . .
442	11 2022	5	A Transient "Changing-look" Active Galactic Nucleus Resolved on Month Timescales from First-year Sloan Digital . . .
443	11 2021	5	AGN and Star Formation at Cosmic Noon: Comparison of Data to Theoretical Models.
444	02 2022	5	Gaia 20eae: A Newly Discovered Episodically Accreting Young Star.
445	11 2019	5	Stellar Properties of KIC 8736245: An Eclipsing Binary with a Solar-type Star Leaving the Main Sequence.
446	10 2019	5	The SDSS-HET Survey of Kepler Eclipsing Binaries. Description of the Survey and First Results.
447	10 2017	5	Tracking Advanced Planetary Systems (TAPAS) with HARPS-N. V. A Massive Jupiter Orbiting the Very-low-metallicity . . .
448	05 2015	5	Proving Strong Magnetic Fields Near to the Central Black Hole in the Quasar PG 0034+039 via Cyclotron Lines.
449	03 2013	5	The Unusually Luminous Extragalactic Nova SN 2010U.
450	02 2013	5	X-ray and Multiwavelength Insights into the Inner Structure of High-luminosity Disc-like Emitters.
451	02 2009	5	Discovery of a Low-Mass companion to the Solar-Type Star TYC 2534-698-1.
452	03 2008	5	A New, Bright, Short-Period Emission Line Binary in Ophiuchus.
453	10 2022	4	Understanding the Spatial Variation of Mg II and Ionizing Photon Escape in a Local LyC Leaker.
454	03 2022	4	Rotational Modulation of Spectroscopic Zeeman Signatures in Low-mass Stars.
455	05 2022	4	Close, Bright, and Boxy: the Superluminous SN 2018hti.
456	05 2022	4	A Quasar Shedding Its Dust Cocoon at Redshift 2.
457	03 2021	4	Chemical Compositions of Red Giant Stars from Habitable Zone Planet Finder Spectroscopy.
458	06 2021	4	Broadband Stability of the Habitable Zone Planet Finder Fabry-Perot Etalon Calibration System: Evidence for . . .
459	08 2020	4	The Energetics of Launching the Most Powerful Jets in Quasars: A Study of 3C 82.
460	01 2020	4	Calibrating Iodine Cells for Precise Radial Velocities.
461	01 2016	4	The Peculiar Optical-UV X-ray Spectra of the X-ray Weak Quasar PG 0043+039.
462	11 2014	4	Studying the Dwarf Galaxies in Nearby Groups of Galaxies: Spectroscopic and Photometric Data.
463	08 2014	4	Determination of Mass and Orbital Parameters of a Low-mass Star HD213597B.
464	05 2007	4	Late-type Near-contact Eclipsing Binary [HH97] FS Aur-79.
465	02 2006	4	SDSS J103913.70+533029.7: A Super Star Cluster in the Outskirts of a Galaxy Merger.
466	04 2023	3	The HETDEX Survey Emission-line Exploration and Source Classification.
467	09 2022	3	GJ 3929: High-precision Photometric and Doppler Characterization of an Exo-Venus and Its Hot, Mini-Neptune-mass . . .
468	11 2022	3	The Active Chromospheres of Lithium-rich Red Giant Stars.
469	09 2022	3	Stellar Populations of Ly α -emitting Galaxies in the HETDEX Survey. I. An Analysis of LAEs in the GOODS-N Field.
470	08 2022	3	Ly α Halos around [O III]-selected Galaxies in HETDEX.
471	01 2022	3	A Hot Mars-sized Exoplanet Transiting an M Dwarf.
472	02 2022	3	High-resolution Near-infrared Spectroscopy of a Flare around the Ultracool Dwarf vB 10.
473	01 2017	3	Parsec-scale Variations in the ${}^7\text{Li}$ i/ ${}^6\text{Li}$ i Isotope Ratio Toward IC 348 and the Perseus OB 2 Association.
474	06 2012	3	Discovery of a Wolf-Rayet Star Through Detection of Its Photometric Variability.
475	10 2003	3	Low Signal-to-Noise Spectroscopy and Surface Photometry of Two Faint Galaxies in the Field of NGC 7479.
476	02 2023	2	The Low-redshift Lyman Continuum Survey: Optically Thin and Thick Mg II Lines as Probes of Lyman . . .
477	08 2022	2	The Galactic Distribution of Phosphorus: A Survey of 163 Disk and Halo Stars.
478	06 2022	2	The η Aquilae System: Radial Velocities and Astrometry in Search of η Aql B.
479	06 2022	2	TOI-1696 and TOI-2136: Constraining the Masses of Two Mini-Neptunes with the Habitable-Zone . . .
480	05 2021	2	A Harsh Test of Far-field Scrambling with the Habitable-zone Planet Finder and the Hobby-Eberly Telescope.

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481	05 2021	2	Probing the Disk-Corona Systems and Broad-line Regions of Changing-look Quasars with X-Ray and Optical Observations.
482	07 2020	2	Following the TraCS of exoplanets with Pan-Planets: Wendelstein-1b and Wendelstein-2b.
483	06 2004	2	Exact Optics IV. Small 'trumpet' Correctors for Large Spheres.
484	02 2004	2	A Search for Sodium Absorption from Comets Around HD209458.
485	11 2022	1	A Search for Lensed Ly α Emitters within the Early HETDEX Data Set.
486	05 2023	1	TOI-5375 B: A Very Low Mass Star at the Hydrogen-burning Limit Orbiting an Early M-type Star.
487	01 2023	1	Evolved Eclipsing Binaries and the Age of the Open Cluster NGC 752.
488	12 2022	1	An Interpretable Machine-learning Framework for Modeling High-resolution Spectroscopic Data.
489	05 2023	1	The Stellar Mass-Black Hole Mass Relation at $z \sim 2$ down to $M_{\text{BH}} \sim 10^7 M_{\odot}$ Determined by HETDEX.
490	03 2023	1	Searching for Supernovae in HETDEX Data Release 3.
491	05 2023	1	Spectroscopic Survey of Faint Planetary-nebula Nuclei - I. Six New 'O VI' Central Stars.
492	12 2022	1	A Jupiter Analog Orbiting The Nearby M Dwarf GJ 463.
493	06 2022	1	The SDSS-HET Survey of Kepler Eclipsing Binaries. A Sample of Four Benchmark Binaries.
494	10 2022	1	Revising Properties of Planet-Host Binary Systems. II. Apparent Near-Earth-analog Planets in Binaries Are Often . . .
495	11 2022	1	Chemical Abundances of Eight Highly-extincted Milky Way Planetary Nebulae.
496	08 2022	1	The Active Galactic Nuclei in the Hobby-Eberly Telescope Dark Energy Experiment Survey . . .
497	01 2022	1	The Great Slump: Mrk 926 Reveals Discrete and Varying Balmer Line Satellite Components During a Drastic Phase . . .
498	07 2021	1	Multiepoch Spectroscopy of Mg II Broad Absorption Line Transitions.
499	04 2021	1	Tracking Advanced Planetary Systems (TAPAS) with HARPS-N. VII. Elder Suns with Low-mass Companions.
500	04 2016	1	Possible Detection of Singly Ionized Oxygen in the Type Ia SN 2010kg.
501	04 2023	0	Characterization of Low-mass Companions to Kepler Objects of Interest Observed with APOGEE-N.
502	02 2023	0	Searches for Extremely Metal-poor Galaxies Using Arecibo Legacy Fast ALFA-Selected Dwarf Galaxies.
503	02 2023	0	The McDonald Accelerating Stars Survey: Architecture of the Ancient Five-planet Host System . . .
504	04 2023	0	Revising Properties of Planet-Host Binary Systems. III. There Is No Observed Radius Gap for Kepler . . .
505	04 2023	0	Identifying Active Galactic Nuclei at $z \approx 3$ from the HETDEX Survey Using Machine Learning.
506	11 2022	0	The Active Galactic Nuclei in the Hobby-Eberly Telescope Dark Energy Experiment Survey (HETDEX). III. A Red . . .
507	05 2022	0	The Energetics of the Central Engine in the Powerful Quasar 3C 298.
508	08 2021	0	A Galaxy Cluster in the Innermost Zone of Avoidance, Close to the Radio Phoenix VLSS J2217.5+5943.
509	06 2002	0	Suspected Wolf-Rayet Galaxies UM 456 and UM 594.