

# **HET Publication Report**

## **HET Board Meeting**

**3/4 December 2020**

**Zoom Land**

## Executive Summary

- There are now 420 peer-reviewed HET publications
  - Fifteen papers published in 2019
  - As of 27 November, nineteen published papers in 2020
- HET papers have 29363 citations
  - Average of 70, median of 39 citations per paper
  - H-number of 90
  - 81 papers have  $\geq 100$  citations; 175 have  $\geq 50$  cites
- Wide angle surveys account for 26% of papers and 35% of citations.
- Synoptic (e.g., planet searches) and Target of Opportunity (e.g., supernovae and  $\gamma$ -ray bursts) programs have produced 47% of the papers and 47% of the citations, respectively.
- Listing of the HET papers (with ADS links) is given at  
<http://personal.psu.edu/dps7/hetpapers.html>

## HET Program Classification

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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 Theory	Dark Energy with BAO
8	Other	HET Optics

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

## Peer-reviewed Publications

- There are now 420 journal papers that either use HET data or (nine 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.
- In 2020 a total of fifteen HET papers appeared; nineteen have been published to date in 2020.
- Each HET partner has published at least 14 papers using HET data.
- Nineteen papers have been published from NOAO time.
- A total of 28 SDSS SNe papers have appeared in print. (The final data release paper appeared in early 2018).
- A total of 29 publications with new instrumentation (LRS2/HPF/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 420 HET papers have garnered 29363 citations for an average of 69.9 per paper (median number is 39).
- The HET's H-number is now 90.
- The number of citations ranges from 0 to 1190. Eleven papers have one or zero citations; 175 have 50 or more citations.
- Approximately 35% of the HET citations are produced by “Wide angle” surveys (the primary science program for the “SST”). This fraction continues to slowly decrease.
- The four most cited Wide Angle Survey papers have 436, 531, 666, and 706 citations.
- “Dark Time” projects have average higher citation rates (87) than “Light Time” programs (48). The 2:1 ratio has remained reasonably constant over time, although the ratio has been steadily decreasing.
- The synoptic programs (primarily planet searches) are a significant component of both the number of publications and citations (top four papers have 235, 251, 272, and 417 citations).
- “Target of Opportunity” impact: Top four ToO papers have 367, 406, 554, and 1190 citations.
- The SDSS Supernova Survey (HET played key role in obtaining spectra of the faintest targets) produced an average of 151 citations per paper, as well as the highest-cited work (1190 citations from 2014 publication).

## Summary of HET Publications November 2020

Year	Papers	Total	Total Citations	Average Citations
2000	9	9	582	64.67
2001	13	22	1351	103.92
2002	10	32	1061	106.10
2003	20	52	1664	83.20
2004	21	73	1553	73.95
2005	7	80	642	91.71
2006	21	101	1687	80.33
2007	21	122	2045	97.38
2008	24	146	2898	120.75
2009	26	172	2904	111.69
2010	33	205	2486	75.33
2011	26	231	2218	85.31
2012	44	275	3032	68.91
2013	23	298	731	31.78
2014	24	322	2211	92.12
2015	28	350	1040	37.14
2016	19	369	655	34.47
2017	8	377	140	17.50
2018	9	386	262	29.11
2019	15	401	136	9.07
2020	19	420	65	3.42
Total	420		29363	69.91

## Summary of Program Classes

Code	Class	Papers	Total Citations	Average Citations
1	ToO	80	7813	97.66
2	Synoptic	116	6104	52.62
3	Single Object	66	2768	41.94
4	Pencil Beam	35	2220	63.43
5	Wide Angle	111	10140	91.35
6	Technical	7	255	36.43
7	HETDEX	3	47	15.67
8	Other	2	16	8.00

## Summary of Dark/Light Time

Code	Time	Papers	Total Citations	Average Citations
1	Dark	239	20827	87.14
2	Light	172	8267	48.06
3	Other	9	269	29.89

## HET Publications Sorted by Journal

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Papers	Average Citations	Journal
77	78.18	The Astronomical Journal
172	67.70	The Astrophysical Journal
32	59.00	The Astrophysical Journal (Letters)
13	49.92	The Publications of the A.S.P.
18	130.06	The Astrophysical Journal Supplement Series
9	206.33	Nature
1	235.00	Science
41	34.07	M.N.R.A.S.
2	31.00	M.N.R.A.S. (Letters)
45	65.56	Astronomy and Astrophysics
5	34.20	Astronomy and Astrophysics (Letters)
1	17.00	J.C.A.P.
1	97.00	Optics Express
1	4.00	Astronomische Nachrichten
1	3.00	J.A.T.I.S.
1	27.00	Optica

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## HET Publications Sorted by Instrument

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Code	Instrument	Papers	Total Citations	Average Citations
1	None	6	236	39.33
2	LRS	226	20606	91.18
3	MRS	1	19	19.00
4	HRS	156	8189	52.49
5	UFOE	2	110	55.00
6	LRS2	16	129	8.06
7	HPF	12	74	6.17
8	VIRUS	1	0	0.00

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## “Hot Papers” (2017-2020)

(133) The Data Release of the Sloan Digital Sky Survey-II Supernova Survey. Sako, M., et al. 2018, PASP

(43) CARMENES Input Catalog of M Dwarfs. III. Rotation and Activity from High Resolution Spectroscopy Observations. Jeffers, S., et al. 2018, A&A

(38) A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes. Runnoe, J., et al. 2017, MNRAS

(32) A Survey for New Members of the Taurus Star-Forming Region with SDSS. Luhman, K., et al. 2017, AJ

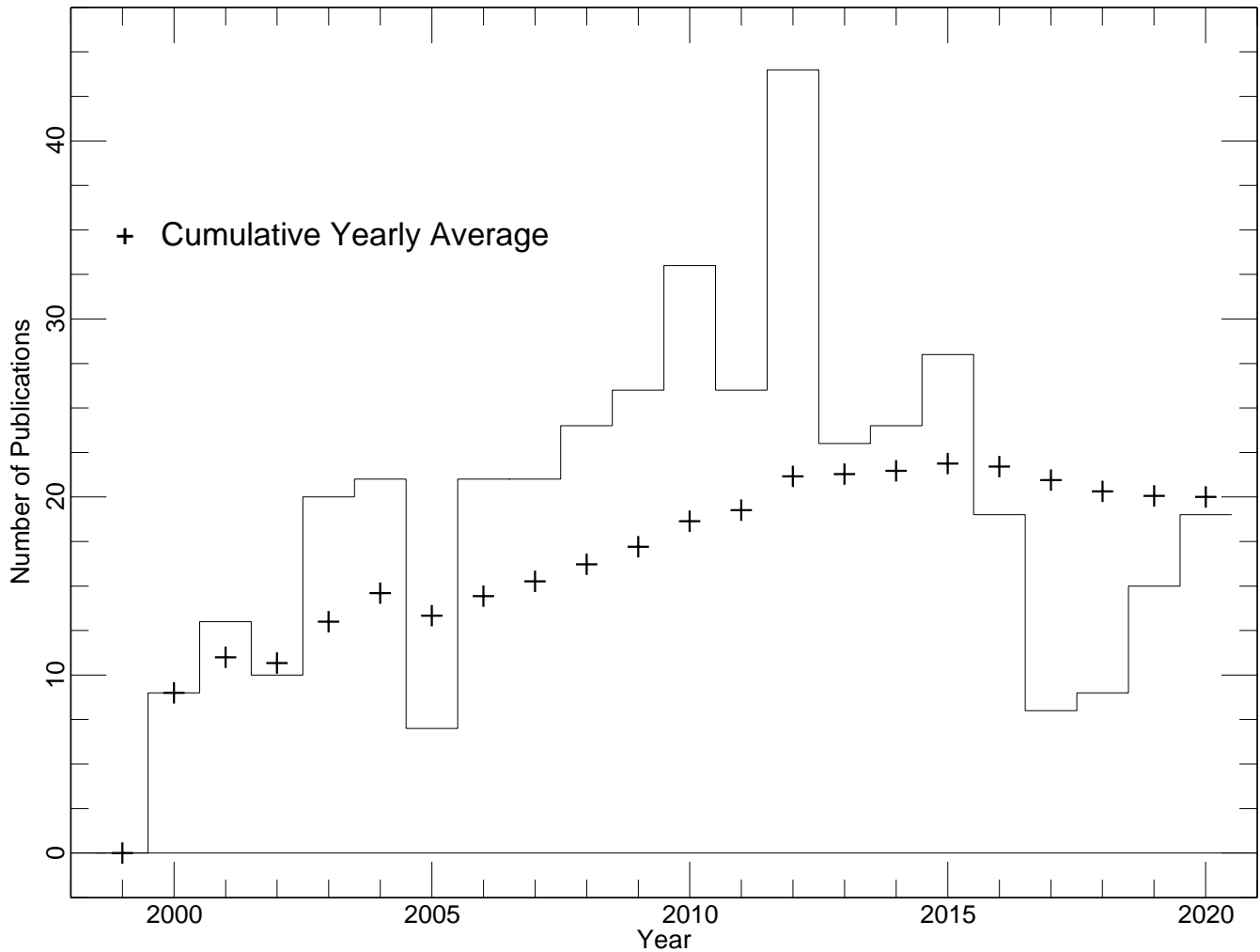
(27) Stellar Spectroscopy in the Near-infrared with a Laser Frequency Comb. Metcalf, A., et al. 2019, Optica

(26) Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh. Li, W., et al. 2019, ApJ

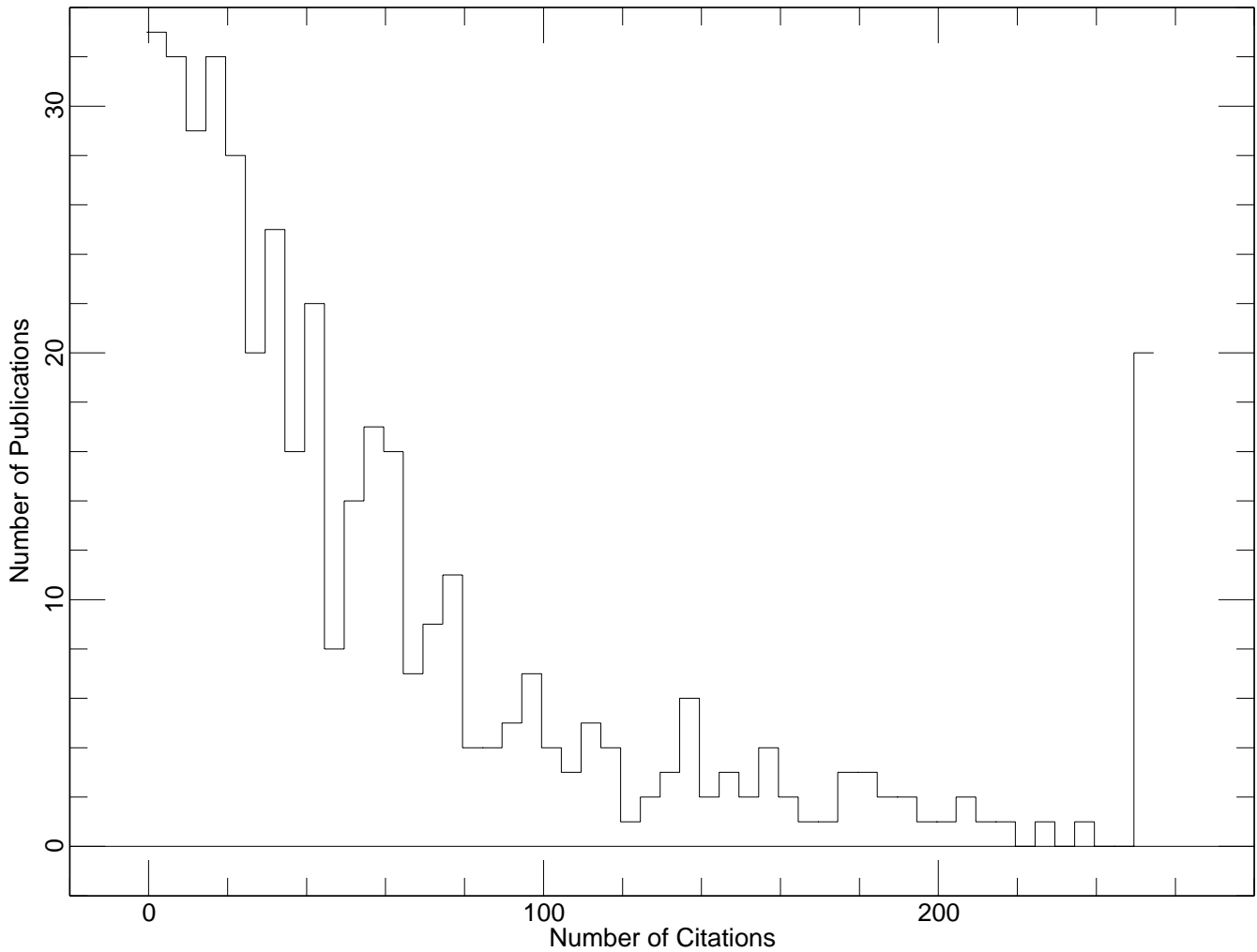
(25) Search for Giant Planets in M67 IV. Survey Results. Brucalassi, A., et al. 2017, A&A

(24) Breaking the Habit: The Peculiar 2016 Eruption of the Unique Recurrent Nova. Henze, M., et al. 2018, ApJ

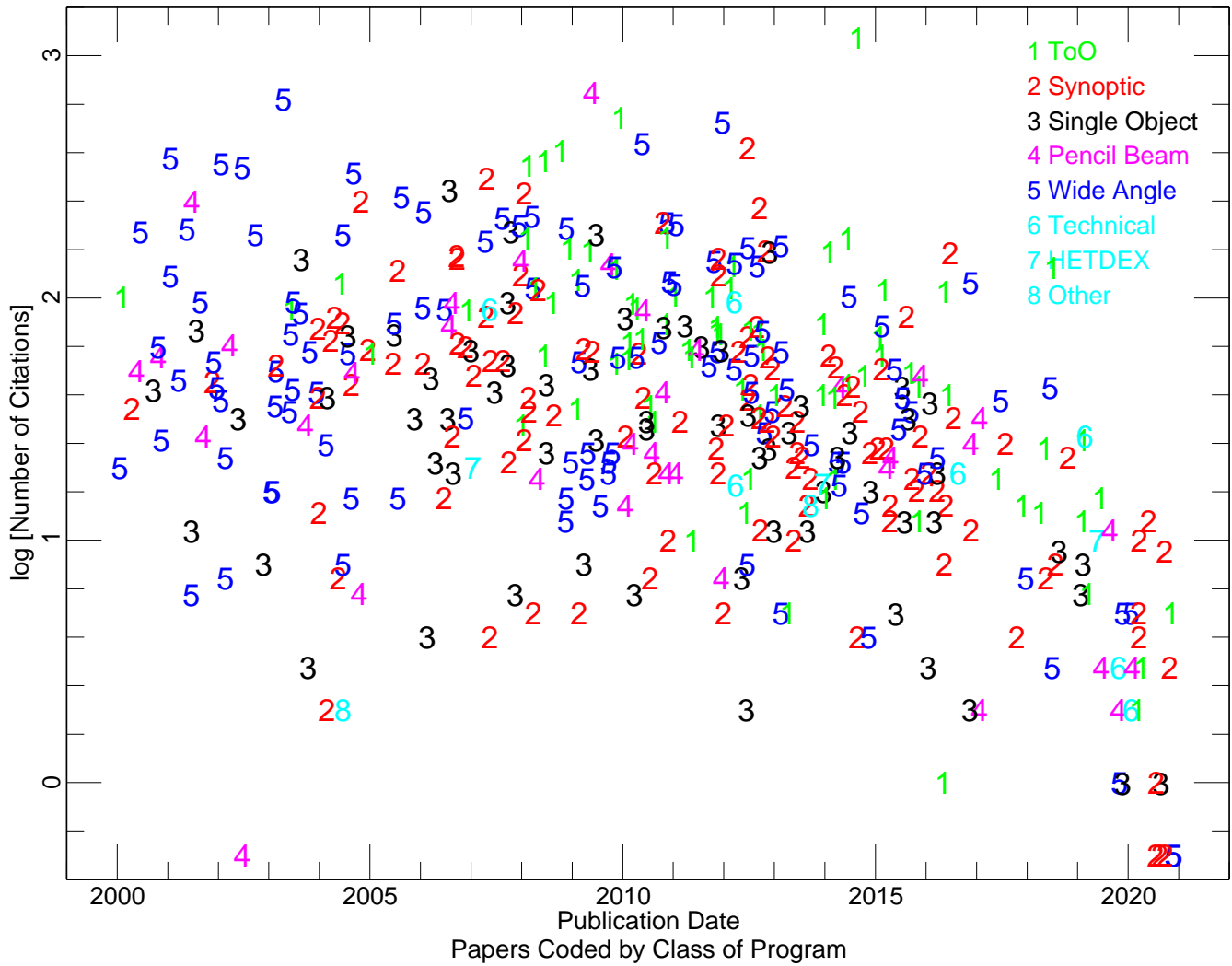
(22) Hydrogen and Sodium Absorption in the Optical Transmission Spectrum of WASP-12b. Jensen, A. et al. 2018, AJ



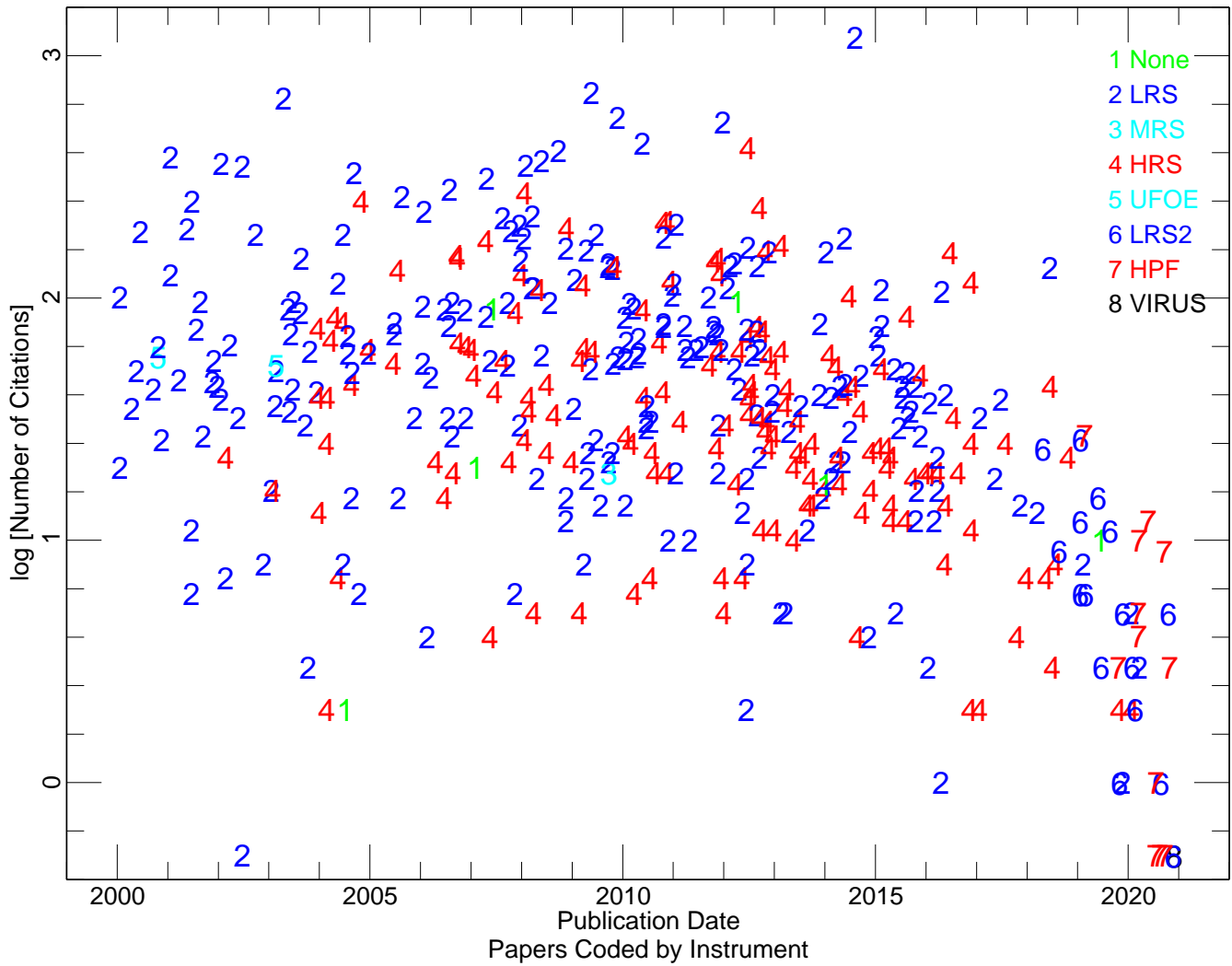
The number of HET publications each year (histogram) and the cumulative annual average of the annual number of publications (plus signs). A total of 420 HET papers have been published since the appearance of the first work in January 2000. Fifteen papers appeared in 2019; nineteen have been published in 2020 to date.



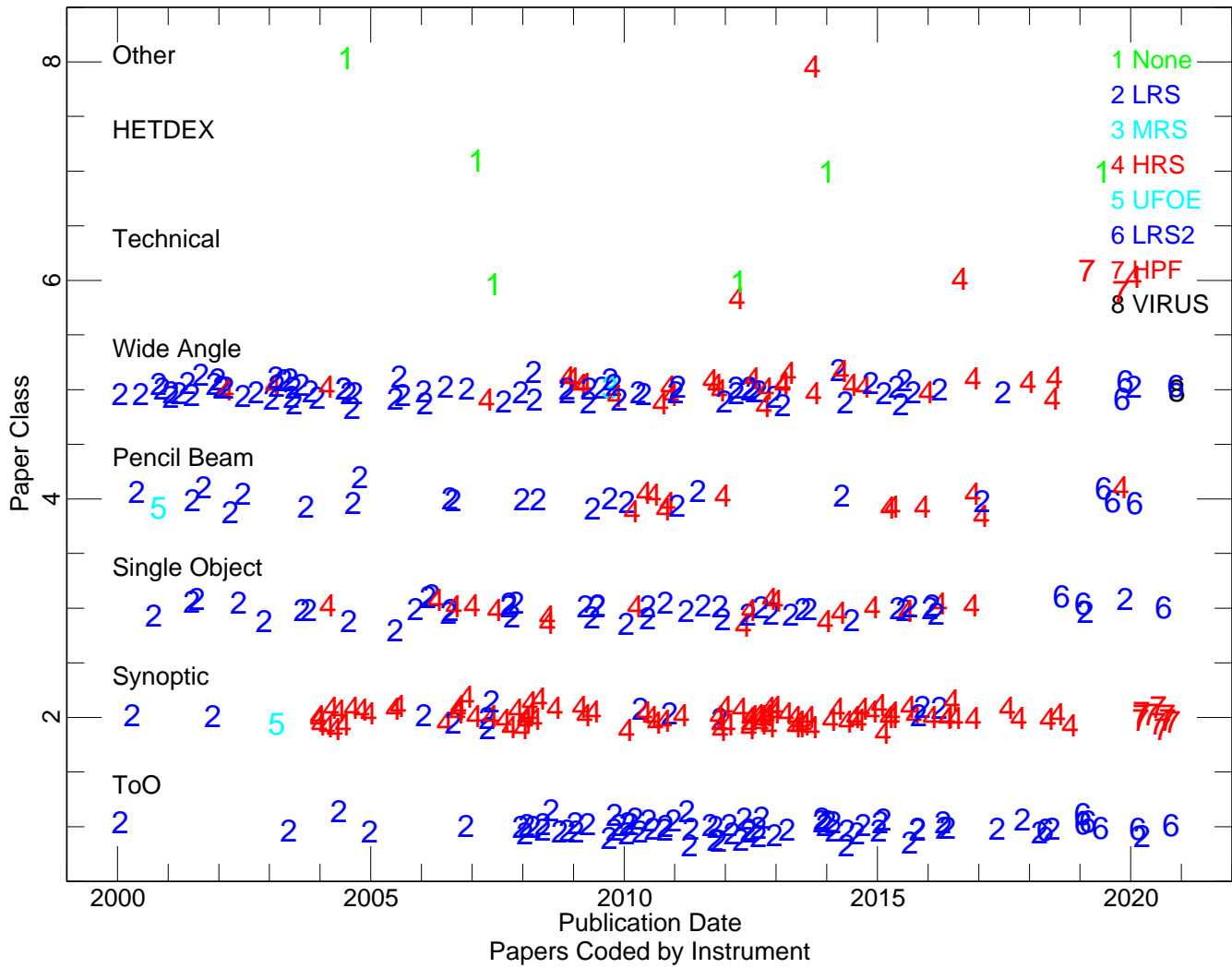
The histogram of the citation distribution of the 420 HET publications. Each bin has a width of five (e.g., the leftmost bin indicates the number of papers with 0, 1, 2, 3, or 4 citations). The rightmost bin contains all publications that have at least 250 citations (a total of 20 papers).



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. Six papers (indicated by a black “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.

HET Papers Sorted by Number of Citations (November 2020)

N	Pub	Year	Cite	Title
1	315	2014	1190	Improved Cosmological Constraints From a Joint Analysis of the SDSS-III and
2	159	2009	706	Structure and Formation of Elliptical and Spheroidal Galaxies.
3	38	2003	666	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey II. Discovery
4	171	2009	554	First-Year Sloan Digital Sky Survey-II Supernova Results: Hubble Diagram and
5	231	2011	531	The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area
6	187	2010	436	The First Catalog of Active Galactic Nuclei Detected by the Fermi Large Area
7	243	2012	417	An Abundance of Small Exoplanets Around Stars with a Wide Range of
8	141	2008	406	Broadband Observations of the Naked-eye $\gamma$ -ray Burst GRB 080319B.
9	11	2001	380	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data IV.
10	136	2008	367	An Extremely Luminous X-ray Outburst at the Birth of a Supernova.
11	24	2002	359	Towards Spectra Classification of L and T Dwarfs: Infrared and Optical
12	123	2008	352	The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary.
13	29	2002	348	Characterization of M, L, and T Dwarfs in the Sloan Digital Sky Survey.
14	68	2004	329	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey. III. Discovery
15	104	2007	313	Reverberation Mapping of High-Luminosity Quasars: First Results.
16	91	2006	280	A Compact Supermassive Binary Black Hole System.
17	125	2008	272	Sodium Absorption from the Exoplanetary Atmosphere of HD 189733b Detected in
18	79	2005	261	The Sloan Digital Sky Survey Quasar Catalog III. Third Data Release.
19	70	2004	251	Detection of a Neptune-mass Planet in the $\rho^1$ Cancri System Using the
20	16	2001	250	The Chandra Deep Survey of the Hubble Deep Field North Area. II. Results from
21	259	2012	235	Kepler-47: A Transiting Circumbinary Multiplanet System.
22	81	2006	228	Binary Quasars in the Sloan Digital Sky Survey: Evidence for Excess Clustering
23	130	2008	218	CGRaBS: An All-Sky Survey of Gamma-Ray Blazar Candidates.
24	111	2007	214	The X-ray Properties of the Most Luminous Quasars from the Sloan Digital Sky
25	202	2010	206	Bulgeless Giant Galaxies Challenge Our Picture of Galaxy Formation by
26	197	2010	205	The California Planet Survey. I. Four New Giant Exoplanets.
27	207	2011	201	Supermassive Black Holes do not Correlate with Galaxy Disks or Psuedobulges.
28	119	2007	199	Four Quasars above Redshift 6 Discovered by the Canada-France High- $z$
29	142	2008	194	The SEGUE Stellar Parameter Pipeline. III. Comparison with High-Resolution
30	13	2001	193	Colors of 2625 Quasars at $0 < z < 5$ Measured in the Sloan Digital Sky Survey
31	116	2007	189	SN 2005ap: A Most Brilliant Explosion.
32	5	2000	188	The Missing Link: Early Methane ("T" ) Dwarfs in the Sloan Digital Sky Survey.
33	160	2009	183	Luminous Thermal Flares from Quiescent Supermassive Black Holes.
34	60	2004	183	The Munich Near-Infrared Cluster Survey (MUNICS). VI. The Stellar Masses
35	31	2002	183	Large-Amplitude X-Ray Outbursts from Galactic Nuclei: A Systematic
36	198	2010	178	The Effect of Host Galaxies on Type Ia Supernovae in the SDSS-II Supernova
37	124	2008	177	The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and
38	311	2014	176	A Wolf-Rayet-like Progenitor of SN 2013cu from Spectral Observations of a
39	106	2007	172	Oxygen Abundances in Nearby Stars. Clues to the Formation and Evolution
40	277	2013	165	Oxygen Abundances in Nearby FGK Stars and the Galactic Chemical Evolution of
41	248	2012	162	The Luminosity Function of Fermi-detected Flat-spectrum Radio Quasars.
42	143	2008	160	The Sloan Digital Sky Survey-II Photometry and Supernova Ia Light Curves
43	155	2009	158	SN 2005cs in M51 II. Complete Evolution in the Optical and the Near-Infrared.
44	266	2012	156	The Neptune-sized Circumbinary Planet Kepler-38b.
45	300	2014	155	A Panchromatic View of the Restless SN 2009ip Reveals the Explosive Ejection of
46	270	2012	155	An Over-massive Black Hole in the Compact Lenticular Galaxy NGC 1277.
47	363	2016	153	State of the Field: Extreme Precision Radial Velocities.
48	97	2006	150	Exploring the frequency of Close-in Jovian Planets Around M Dwarfs.
49	227	2011	146	KOI-54: The Kepler Discovery of Tidally-Excited Pulsations and
50	96	2006	145	A Transiting Planet of a Sun-like Star.



HET Papers Sorted by Number of Citations (continued)

N	Pub	Year	Cite	Title
51	44	2003	145	Accretion Disk Wind in the AGN Broad Line Region: Spectroscopically Resolved
52	121	2007	143	Dynamical Modelling of Luminous and Dark Matter in 17 Coma Early-Type Galaxies.
53	220	2011	142	The Distribution of the Elements in the Galactic Disk. III. A
54	237	2012	139	Spectroscopy of Broad-line Blazars from 1LAC.
55	165	2009	138	An Infrared/X-ray Survey for New Members of the Taurus Star-Forming Region.
56	258	2012	136	A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling
57	234	2012	136	Generalized Seim-analytical Models of Supernova Light Curves.
58	170	2009	135	Rotational Velocities for M Dwarfs.
59	164	2009	135	Variable Sodium Absorption in a Low-extinction Type Ia Supernova.
60	381	2018	133	The Data Release of the Sloan Digital Sky Survey-II Supernova Survey.
61	167	2009	132	First-Year Sloan Digital Sky Survey-II (SDSS-II) Supernova Results:
62	78	2005	130	A Giant Planet Around the Massive Giant Star HD 13189.
63	225	2011	125	The hot-Jupiter Kepler-17b: Discovery, Obliquity from Stroboscopic
64	120	2007	125	XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion
65	10	2001	124	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data III.
66	148	2009	119	Discovery of the Ultra-Bright Type II-L Supernova 2008es.
67	205	2010	117	Extremely Metal-poor Stars in Classical Dwarf Spheroidal Galaxies: Fornax,
68	367	2016	116	The Solar Neighborhood. XXXVII: The Mass-Luminosity Relation for Main-sequence
69	58	2004	115	SN 2003du: Signatures of the Circumstellar Environment in a Normal Type Ia
70	206	2011	114	Supermassive Black Holes do not Correlate with Dark Matter Haloes of Galaxies.
71	152	2009	113	On the Magnetic Topology of Partially and Fully Convective Stars.
72	232	2012	110	Very Early Ultraviolet and Optical Observations of the Type Ia
73	132	2008	110	Using Quantitative Spectroscopic Analysis to Determine the Properties and
74	131	2008	110	Quasar Broad Absorption Line Variability on Multiyear Timescales.
75	326	2015	108	Early-time Light Curves of Type Ib/c Supernovae from the SDSS-II Supernova
76	133	2008	108	XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star.
77	360	2016	106	SN 2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a
78	204	2010	103	Results from the Supernova Photometric Classification Challenge.
79	313	2014	102	Binarity in Carbon-enhanced Metal-poor Stars.
80	216	2011	101	Photometric Type Ia Supernova Candidates from the Three-Year SDSS-II SN
81	2	2000	101	GRB 991216 Joins the Jet Set: Discovery and Monitoring of Its Optical Afterglow.
82	238	2012	97	Demonstration of On-sky Calibration of Astronomical Spectra Using a 25 GHz
83	42	2003	97	The Gamma-Ray Blazar Content of the Northern Sky.
84	18	2001	97	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data VI.
85	139	2008	96	A Measurement of the Rate of Type Ia Supernovae at Redshift $z \sim 0.1$ from
86	114	2007	96	SN 2006hp: Probing the Shock Breakout of a Type II-P Supernova.
87	93	2006	96	A Survey for New Members of Taurus with the Spitzer Space Telescope.
88	178	2010	95	First-year Sloan Digital Sky Survey-II Supernova Results: Consistency and
89	82	2006	92	Cool White Dwarfs in the Sloan Digital Sky Survey.
90	181	2010	91	The Rise and Fall of Type Ia Supernova Light Curves in the SDSS-II Supernova
91	109	2007	90	Ten Year Review of Queue Scheduling of the Hobby-Eberly Telescope.
92	87	2006	90	Chandra Observations of the Highest Redshift Quasars from the Sloan
93	39	2003	90	GRB021004: a Massive Progenitor Star Surrounded by Shells.
94	186	2010	89	Abundances of Red Giants in Old Open Clusters. V. Be 31, Be 32, Be 39, M 67,
95	99	2006	89	Multiwavelength Observations of GRB 050810A: An Exceptionally Energetic Event
96	118	2007	87	A Planetary-Mass Companion to the K0 Giant HD 17092.
97	45	2003	87	The Chandra Deep Field North Survey. XV. Optically Bright, X-ray-Faint Sources.
98	341	2015	84	Kepler 453b - The 10 <sup>th</sup> Kepler Transiting Circumbinary Planet.
99	105	2007	84	Long-term Profile Variability of Double-Peaked Emission Lines in Active
100	174	2010	83	The Old and Heavy Bulge of M31 I. Kinematics and Stellar Populations.

HET Papers Sorted by Number of Citations (continued)

N	Pub	Year	Cite	Title
101	57	2004	83	Dynamical Mass Constraints on Low-Mass Pre-Main-Sequence Stellar Evolutionary
102	76	2005	79	A Northern Survey of Gamma-Ray Blazar Candidates.
103	61	2004	79	Searching for Planets in the Hyades. V. Limits on Planet Detection in the
104	295	2013	78	The Very Young Type Ia Supernova 2013dy: Discovery, and Strong Carbon
105	199	2010	78	Single or Double Degenerate Progenitors? Searching for Shock Emission in the
106	327	2015	77	Composite Bulges: The Coexistence of Classical Bulges and Discy Pseudo-bulges
107	211	2011	77	Implications of Dramatic Broad Absorption Line Variability in the Quasar
108	89	2006	77	The Spatial Distribution of Brown Dwarfs in Taurus.
109	255	2012	76	The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star.
110	219	2011	76	Improved Constraints on Type Ia Supernova Host Galaxy Properties Using
111	200	2010	76	A Tidal Disruption Flare in Abell 1689 from an Archival X-ray Survey of Galaxy
112	50	2003	75	A Dedicated M-Dwarf Planet Search Using The Hobby-Eberly Telescope.
113	249	2012	74	Linking Type Ia Supernova Progenitors and Their Resulting Explosions.
114	17	2001	74	Hubble Space Telescope Images of Stephan's Quintet: Star Cluster Formation in a
115	264	2012	73	Oxygen Abundances in Low- and High- $\alpha$ Field Halo Stars and the
116	256	2012	73	The SDSS-II Supernova Survey: Parameterizing the Type Ia Supernova Rate as
117	218	2011	73	A More General Model for the Intrinsic Scatter in Type Ia Supernova Distance
118	221	2011	71	The Effect of Peculiar Velocities on Supernova Cosmology.
119	74	2005	71	X-Ray Lighthouses of the High-Redshift Universe. II. Further Snapshot
120	43	2003	71	Chandra and XMM Newton Observations of the First Quasars: X-Rays From the Age
121	65	2004	70	Q0906+6930: The Highest Redshift Blazar.
122	323	2015	69	A Luminous, Fast Rising UV-transient Discovered by ROTSE: A Tidal Disruption
123	247	2012	69	A Detection of H $\alpha$ in an Exoplanetary Exosphere.
124	184	2010	68	Measurements of the Rate of Type Ia Supernovae at Redshift $\sim 0.3$ from
125	56	2004	67	Searching for Planets in the Hyades III. The Quest for Short-Period Planets.
126	195	2010	66	Hot Subdwarf Stars in Close-up View. II. Rotational Properties and Wide
127	173	2010	66	Early- and Late-Time Observations of SN 2008ha: Additional Constraints for the
128	95	2006	65	The First Extrasolar Planet Discovered with a New-Generation High-Throughput
129	27	2002	64	The Chandra Deep Field North Survey. IX. Extended X-Ray Sources.
130	215	2011	63	A Population of X-Ray Weak Quasars: PHL 1811 Analogs at High Redshift.
131	98	2006	63	2MASS J05162881+2607387: A New Low-mass Double-lined Eclipsing Binary.
132	8	2000	63	Five High-Redshift Quasars Discovered in Commissioning Imaging Data of the
133	151	2009	62	A Planet in a 0.6 AU Orbit Around the K0 Giant HD 102272.
134	260	2012	61	The Very Young Type-Ia SN 2012cg: Discovery and Pre-Maximum Brightness
135	230	2011	61	The Orbit and Companion of Probable Gamma-Ray Pulsar J2339–0533.
136	214	2011	61	A Spectroscopic and Photometric Survey of Novae in M31.
137	210	2011	61	SN 2008 am: A Super-luminous Type IIn Supernova.
138	101	2006	61	Metallicities of M Dwarf Planet Hosts from Spectral Synthesis.
139	72	2004	61	High-Resolution Spectroscopy of the Transiting Planet Host Star TrES-1.
140	276	2013	60	H $\alpha$ Activity of Old M Dwarfs: Stellar Cycles and Mean
141	239	2012	60	The McDonald Observatory Planet Search: New Long-period Giant Planets
142	224	2011	60	The Chemical Abundances of Stars in the Halo (CASH)
143	158	2009	60	A Search for Multi-Planet Systems Using the Hobby-Eberly Telescope.
144	47	2003	60	The Munich Near-Infrared Cluster Survey. II. The K-Band Luminosity Function
145	182	2010	59	Long-Term Profile Variability in Active Galactic Nuclei with Double-Peaked
146	73	2004	59	Signature of Electron Capture in Iron-rich Ejecta of SN 2003du.
147	64	2004	59	Blazar Counterparts for 3EG Sources at $-40^\circ < \delta < 0^\circ$ : Pushing
148	324	2015	58	The Broad-lined Type Ic SN 2012ap and the Nature of Relativistic Supernovae
149	299	2014	58	Three Planetary Companions Around M67 Stars.
150	252	2012	58	Kinematic Signatures of Bulges Correlate with Bulge Morphologies and

HET Papers Sorted by Number of Citations (continued)

N	Pub	Year	Cite	Title
151	135	2008	58	First-Year Spectroscopy for the Sloan Digital Sky Survey-II Supernova Survey.
152	267	2012	57	Revisiting $\rho^1$ Cancri e: A New Mass Determination of the
153	213	2011	57	PTF 10fqz: A Luminous Red Nova in the Spiral Galaxy Messier 99.
154	183	2010	57	The Evolution of Quasar C IV and Si IV Broad Absorption Lines Over
155	172	2009	57	Planetary Nebulae in Face-On Spiral Galaxies. III. Planetary Nebula
156	7	2000	57	Spectroscopy of Blue Stragglers and Turnoff Stars in M67 (NGC 2682).
157	177	2010	56	Type II-P Supernovae from the SDSS-II Supernova Survey and the Standardized
158	150	2009	55	Calibrating M-dwarf Metallicities Using Molecular Indices: Extension to
159	112	2007	55	The Mass of the Candidate Exoplanet Companion to HD 33636 from Hubble Space
160	108	2007	55	Results of Monitoring the Dramatically Variable C IV Mini-BAL System
161	21	2001	55	Exploratory Chandra Observations of the Highest-Redshift Quasars: X-rays from
162	168	2009	54	Multi-Wavelength Properties of the Type IIb SN 2008ax.
163	83	2006	54	SN 2005cg: Explosion Physics and Circumstellar Interaction of Normal
164	75	2005	54	A New Detached M Dwarf Eclipsing Binary.
165	217	2011	53	Silicon and Oxygen Abundances in Planet-host Stars.
166	113	2007	53	SN 2005hj: Evidence for Two Classes of Normal-Bright SNe Ia and Implications
167	36	2003	53	The Blue Straggler RS Canum Venaticorum Star S1082 in M67: A Detailed
168	303	2014	52	KIC 3858884: A Hybrid $\delta$ Scuti Pulsator in a Highly Eccentric
169	335	2015	51	Hunting for Supermassive Black Holes in Nearby Galaxies with the Hobby-Eberly
170	328	2015	51	Radial Velocity Observations and Light Curve Noise Modeling Confirm that
171	273	2012	51	The Discovery of HD 37605c and a Dispositive Null Detection of Transits of
172	236	2012	51	X-Ray and Multiwavelength Insights into the Nature of Weak Emission-line
173	157	2009	51	Comment on the Black Hole Recoil Candidate Quasar SDSSJ092712.65+294344.0.
174	35	2003	50	X-Ray Lighthouses of the High-Redshift Universe: Probing the Most Luminous
175	4	2000	50	Observations of Faint, Hard-Band X-ray Sources in the Field of
176	340	2015	49	High-velocity Features of Calcium and Silicon in the Spectra of Type Ia
177	69	2004	49	The Chandra Deep Field-North Survey. XVII. Evolution of Magnetic Activity
178	349	2015	48	The Early Days of the Sculptor Dwarf Galaxy.
179	317	2014	48	The Core Collapse Supernova Rate From the SDSS-II Supernova Survey.
180	102	2007	48	Long-Period Objects in the Extrasolar Planetary Systems 47 UMa and 14 Her.
181	85	2006	47	51 Eridani and GJ 3305: A 10-15 Myr old Binary Star System at 30 Parsecs.
182	12	2001	46	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data V.
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