HET Publication Report

HET Board Meeting

29/30 November 2022

Penn State

Executive Summary

- There are now 486 peer-reviewed HET publications
  - Twenty-nine papers published in 2021
  - As of 21 November, 28 papers published in 2022

- HET papers have 33945 citations
  - Average of 70, median of 35 citations per paper
  - H-number of 97
  - 89 papers have $\geq$ 100 citations; 195 have $\geq$ 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 sixteen papers.

- LRS2 and HPF have published 41 and 36 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 486 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.

- Through 21 November the current year has produced 28 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 28 SDSS SNe papers have appeared in print. (The final data release paper appeared in early 2018.)

- A total of 89 publications present data acquired with the 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 33945 HET papers have garnered 32707 citations for an average of 69.9 per paper (median number is 35).

- The HET's H-number is now 97.

- The number of citations ranges from 0 to 1456. Eighteen papers have one or zero citations; 195 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 461, 575, 709, and 769 citations.

- "Dark Time" projects have average higher citation rates (86) 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 270, 278, 313, and 492 citations).

- "Target of Opportunity" impact: Top four ToO papers have 403, 429, 597, and 1456 citations.

- The SDSS Supernova Survey (HET played key role in obtaining spectra of the faintest targets) produced an average of 176 citations per paper, as well as the highest-cited work (1456 citations from 2014 publication).

Summary of HET Publications November 2022

Year	Papers	Total	Total Citations	Average Citations
2000	9	9	592	65.78
2001	13	22	1394	107.23
2002	10	32	1108	110.80
2003	20	52	1748	87.40
2004	21	73	1637	77.95
2005	7	80	673	96.14
2006	21	101	1849	88.05
2007	21	122	2291	109.10
2008	24	146	3148	131.17
2009	26	172	3158	121.46
2010	33	205	2805	85.00
2011	26	231	2520	96.92
2012	44	275	3540	80.45
2013	23	298	852	37.04
2014	24	322	2710	112.92
2015	28	350	1289	46.04
2016	19	369	862	45.37
2017	8	377	206	25.75
2018	9	386	424	47.11
2019	19	405	366	19.26
2020	24	429	390	16.25
2021	29	458	291	10.03
2022	28	486	92	3.29
Total	486		33945	69.85

Summary of Program Classes

Code	Class	Papers	Total Citations	Average Citations
1	ToO	89	9165	102.98
2	Synoptic	139	7340	52.81
3	Single Object	73	3132	42.90
4	Pencil Beam	36	2479	68.86
5	Wide Angle	120	11291	94.09
6	Technical	11	379	34.45
7	HETDEX	16	139	8.69
8	Other	2	20	10.00

Summary of Dark/Light Time

Code	Time	Papers	Total Citations	Average Citations
1	Dark	275	23603	85.83
2	Light	199	9964	50.07
3	Other	12	378	31.50

HET Publications Sorted by Journal

Papers	Average Citations	Journal
96	70.11	The Astronomical Journal
198	68.33	The Astrophysical Journal
38	55.18	The Astrophysical Journal (Letters)
13	63.31	The Publications of the A.S.P.
20	131.65	The Astrophysical Journal Supplement Series
11	198.45	Nature
1	269.00	Science
48	35.71	M.N.R.A.S
2	33.00	M.N.R.A.S. (Letters)
48	73.00	Astronomy and Astrophysics
5	36.20	Astronomy and Astrophysics (Letters)
1	20.00	J.C.A.P.
1	106.00	Optics Express
1	4.00	Astronomische Nachrichten
1	6.00	J.A.T.I.S.
1	57.00	Optica
1	22.00	Optics Letters

HET Publications Sorted by Instrument

Code	Instrument	Papers	Total Citations	Average Citations
1	None	7	288	41.14
2	LRS	228	22909	100.48
3	MRS	1	24	24.00
4	HRS	159	9502	59.76
5	UFOE	2	115	57.50
6	LRS2	41	538	13.12
7	HPF	36	478	13.28
8	VIRUS	12	91	7.58

"Hot Papers" (2020-2022)

(81) A Giant Planet Candidate Transiting a White Dwarf. Vanderburg, A., et al. 2020, Nature

(45) Evidence for He I 10830 Å Absoprtion During the Transit of a Warm Neptune. Ninan, J., et al. 2020, ApJ

(44) I Spy transits and Pulsations: Empirical Variablity in White Dwarfs Using Gaia and the Zwicky Transient Facility. Guidry, J., et al. 2021, ApJ

(34) A sub-Neptune-sized Planet Transiting the M2.5 Dwarf G-40: Validation with the Habitable-zone Planet Finder. Stefansson, G., et al. 2020, AJ

(28) Kepler-1661 b: A Neptune-sized Kepler Transiting Circumbinary Planet Around a Grazing Eclipsing Binary. Socia, Q.J., et al. 2020, AJ

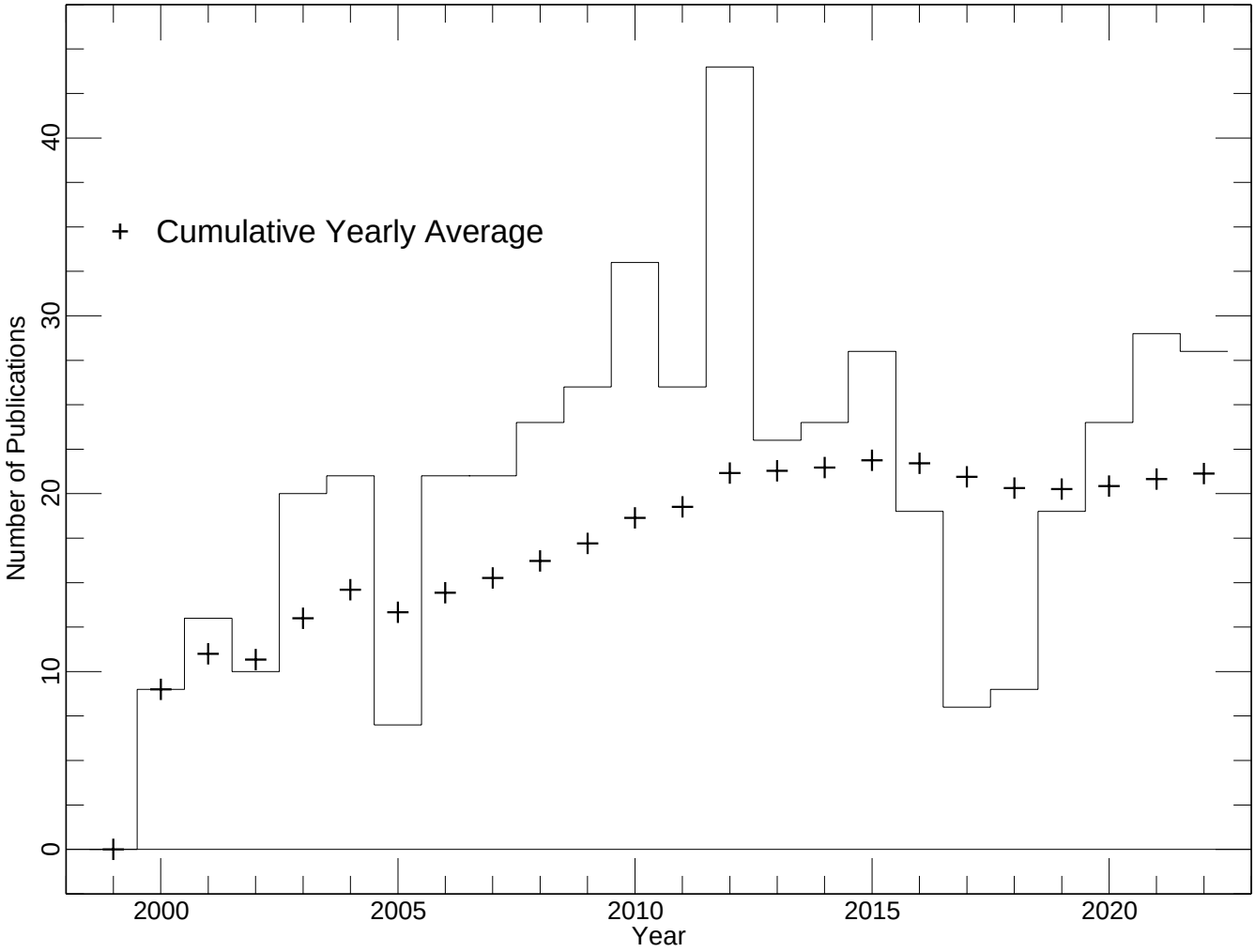
(27) A WC/WO Star Exploding Within an Expanding Carbon-Oxygen-Neon Nebula. Gal-Yam, A., et al. 2022, Nature

(25) The Hobby-Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections. Gebhardt, K., et al. 2021, ApJ

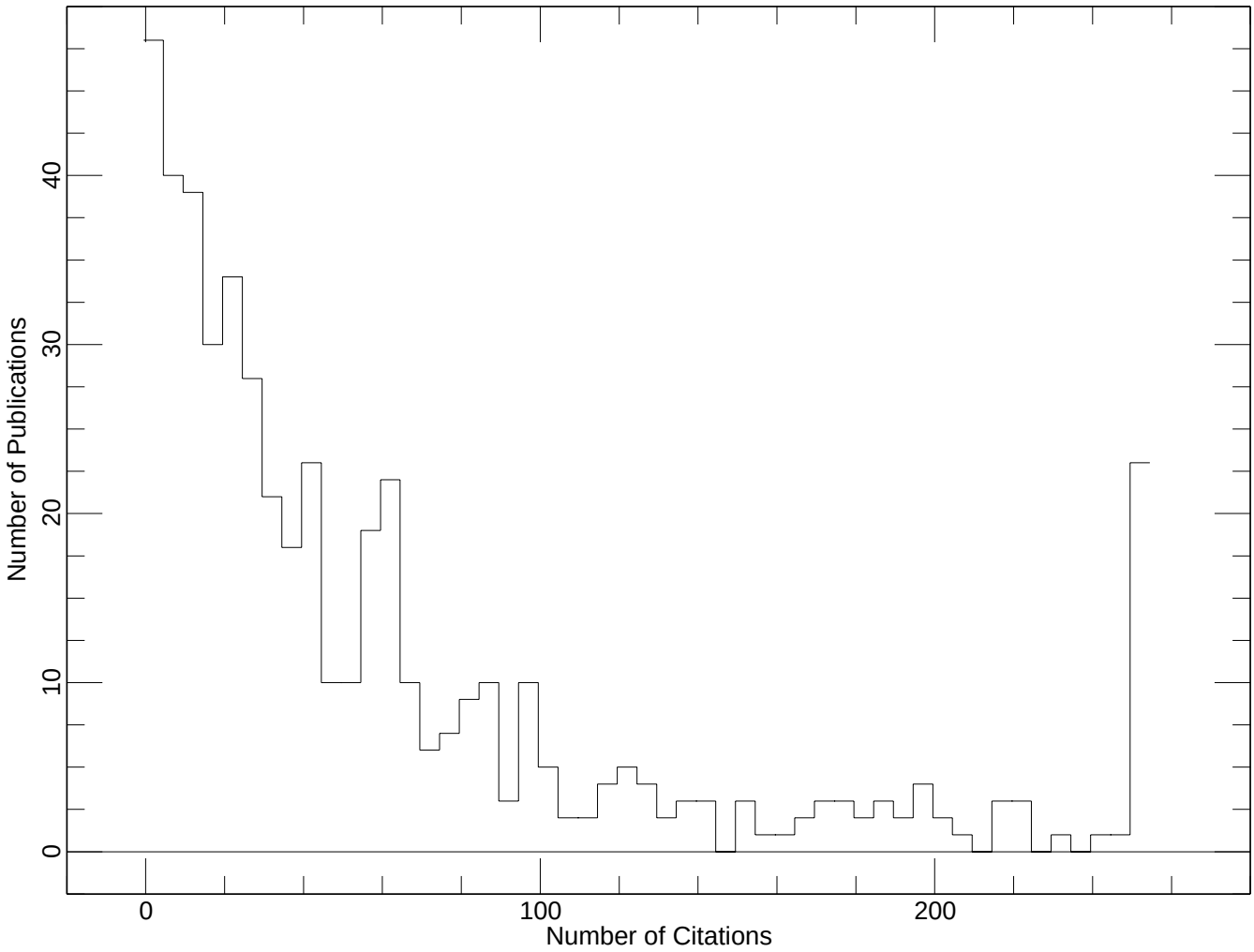
(25) The S2 Stream: The Shreds of a Primitive Dwarf Galaxy. Aguado, D., et al. 2021, MNRAS

(24) The HETDEX Instrumentation: Hobby Eberly Telescope Wide-field Upgrade and VIRUS. Hill, G., et al. 2021, AJ

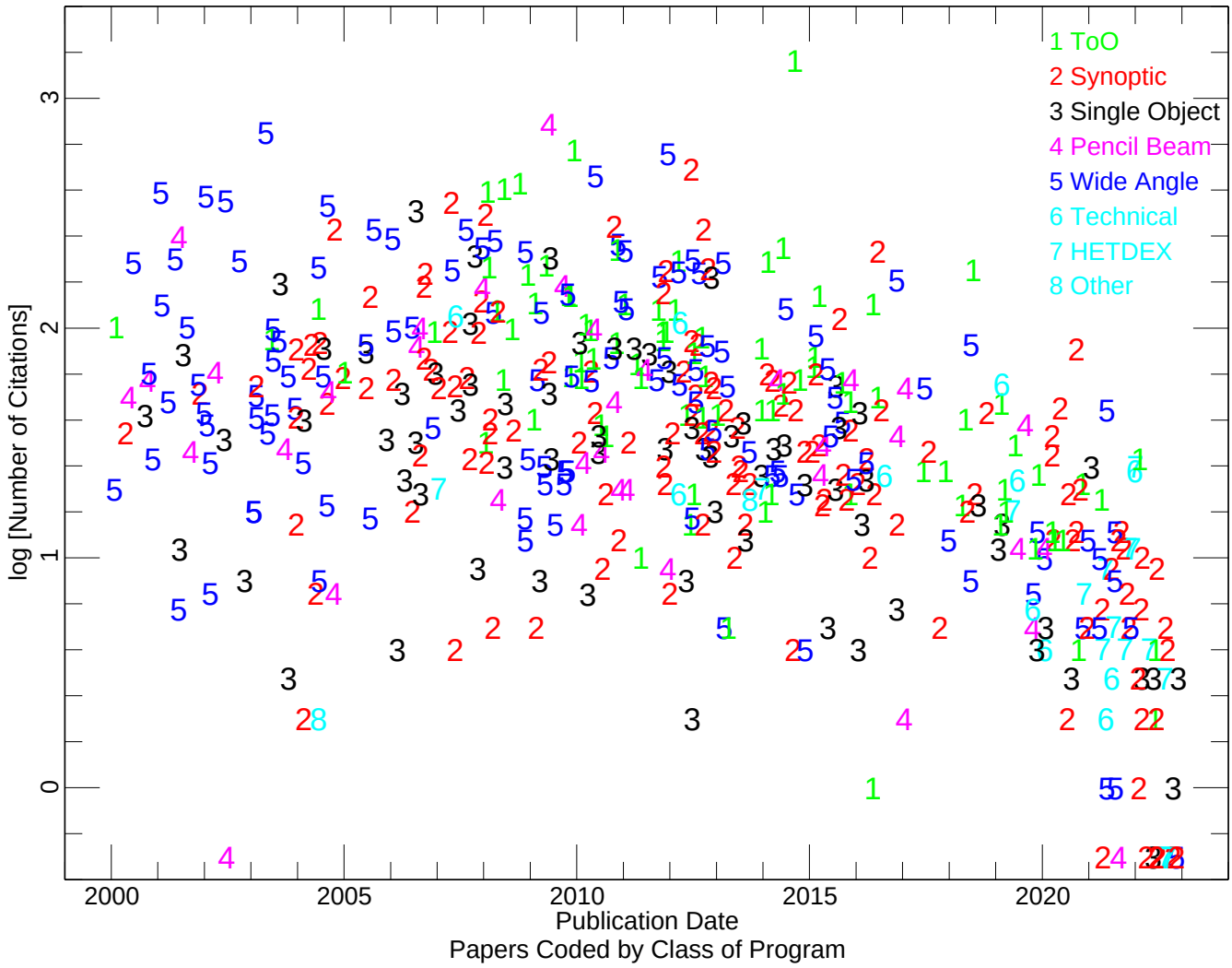
(21) The Young and Nearby Normal Type Ia Supernova 2018gv: UV-optical Observations and the Earliest Spectropolarimetry. Yang, Y., et al. 2020, ApJ



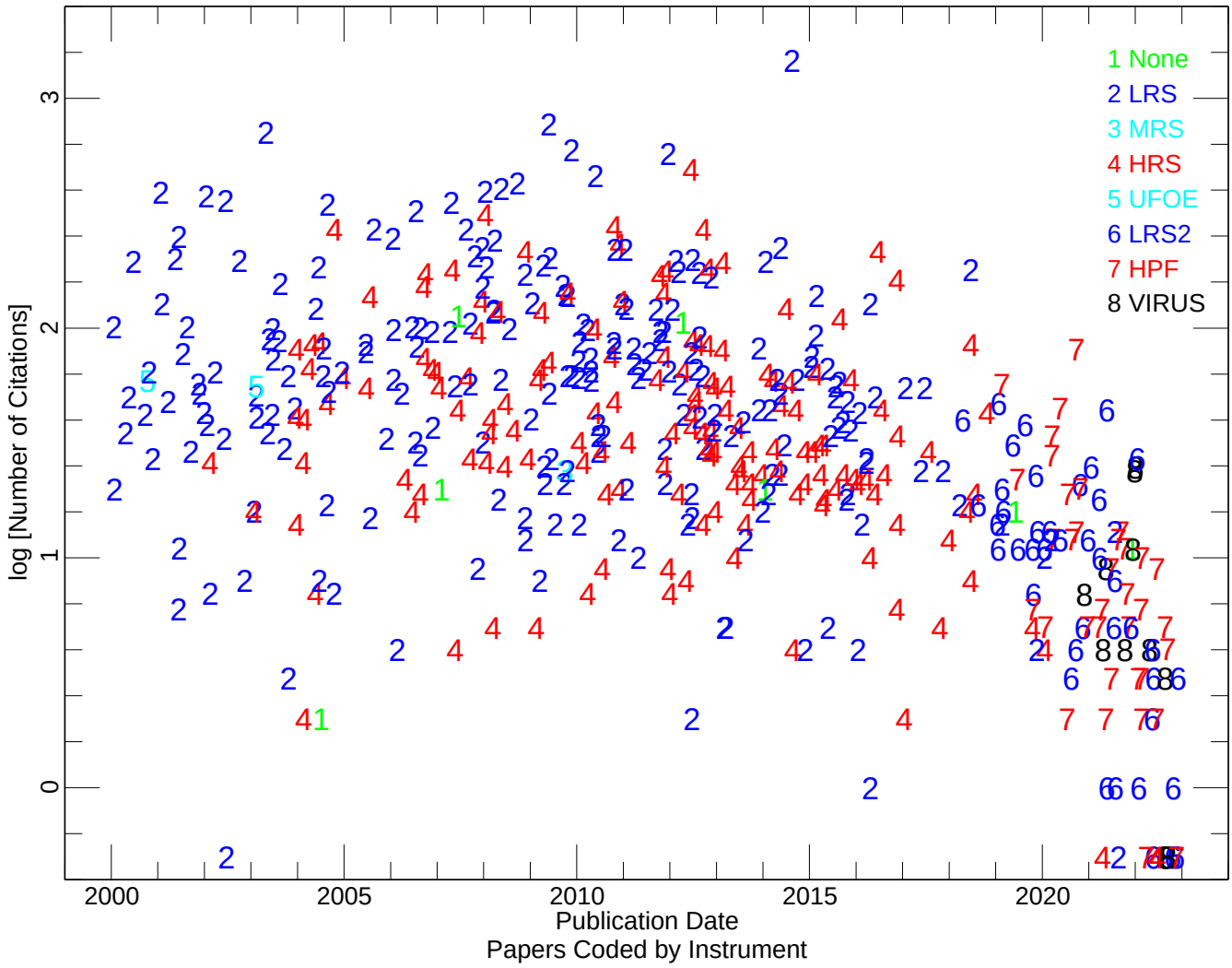
The number of HET publications each year (histogram) and the cumulative annual average of the annual number of publications (plus signs). A total of 486 HET papers have been published since the appearance of the first work in January 2000. Twenty-nine papers appeared in 2021; 28 have been published in 2021 to date.



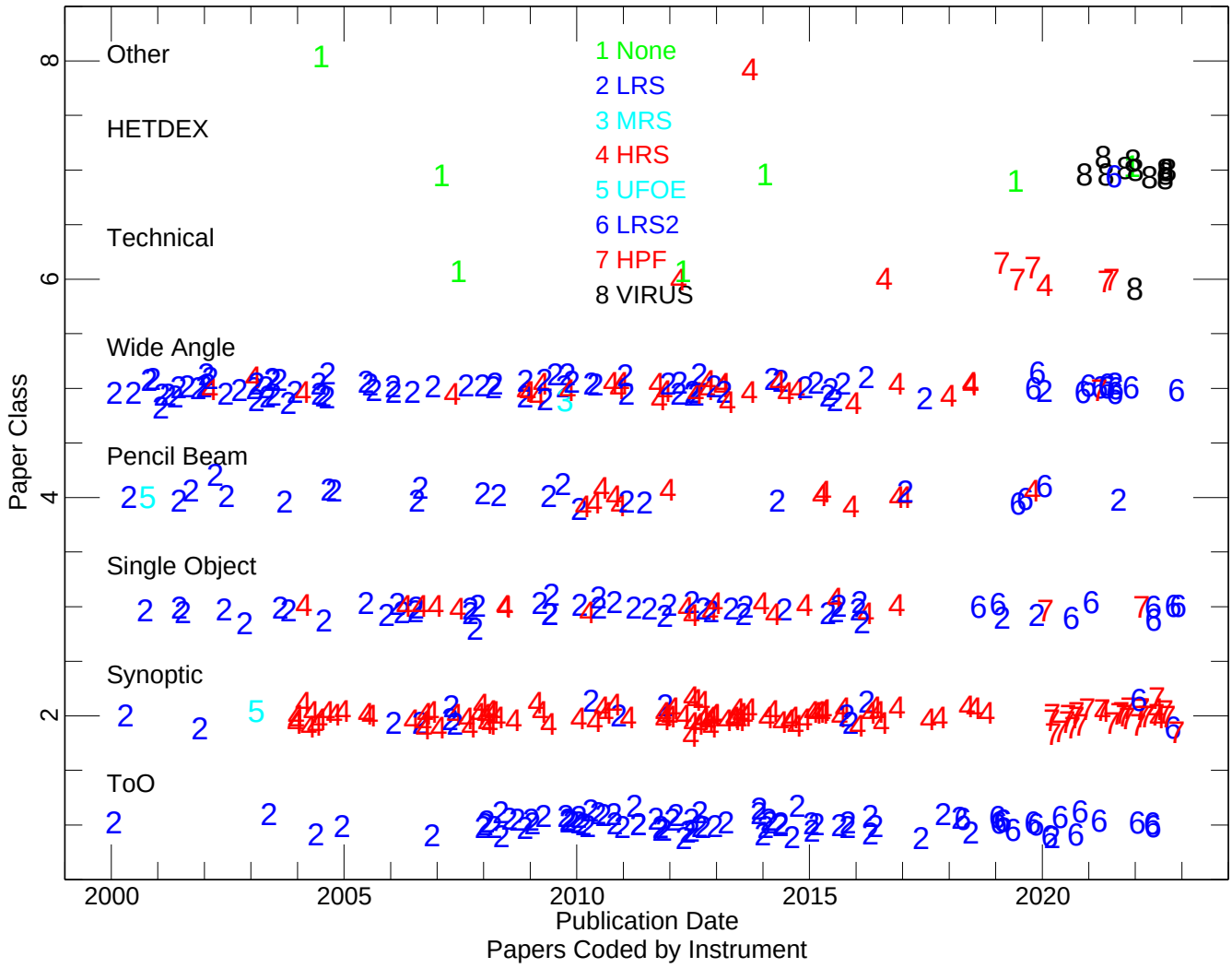
The histogram of the citation distribution of the 486 HET publications. Each bin has a width of five (e.g., the leftmost bin indicates the number of papers with 0, 1, 2, 3, or 4 citations). The rightmost bin contains all publications that have at least 250 citations (a total of 23 papers).



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.

N	Pub	Year	Cite	Title
1	315	2014	1456	Improved Cosmological Constraints From a Joint Analysis of the SDSS-III and
2	159	2009	769	Structure and Formation of Elliptical and Spheroidal Galaxies.
3	38	2003	709	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey II. Discovery
4	171	2009	597	First-Year Sloan Digital Sky Survey-II Supernova Results: Hubble Diagram and
5	231	2011	575	The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area
6	243	2012	492	An Abundance of Small Exoplanets Around Stars with a Wide Range of
7	187	2010	461	The First Catalog of Active Galactic Nuclei Detected by the Fermi Large Area
8	141	2008	429	Broadband Observations of the Naked-eye γ-ray Burst GRB 080319B.
9	136	2008	403	An Extremely Luminous X-ray Outburst at the Birth of a Supernova.
10	123	2008	392	The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary.
11	11	2001	391	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data IV.
12	24	2002	375	Towards Spectra Classification of L and T Dwarfs: Infrared and Optical
13	29	2002	360	Characterization of M, L, and T Dwarfs in the Sloan Digital Sky Survey.
14	104	2007	353	Reverberation Mapping of High-Luminosity Quasars: First Results.
15	68	2004	344	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey. III. Discovery
16	91	2006	325	A Compact Supermassive Binary Black Hole System.
17	125	2008	313	Sodium Absorption from the Exoplanetary Atmosphere of HD 189733b Detected in
18	197	2010	278	The California Planet Survey. I. Four New Giant Exoplanets.
19	111	2007	270	The X-ray Properties of the Most Luminous Quasars from the Sloan Digital Sky
20	70	2004	270	Detection of a Neptune-mass Planet in the ρ^1 Cancri System Using the
21	259	2012	269	Kepler-47: A Transiting Circumbinary Multiplanet System.
22	79	2005	269	The Sloan Digital Sky Survey Quasar Catalog III. Third Data Release.
23	16	2001	251	The Chandra Deep Survey of the Hubble Deep Field North Area. II. Results from
24	81	2006	246	Binary Quasars in the Sloan Digital Sky Survey: Evidence for Excess Clustering
25	130	2008	241	CGRaBS: An All-Sky Survey of Gamma-Ray Blazar Candidates.
26	202	2010	232	Bulgeless Giant Galaxies Challenge Our Picture of Galaxy Formation by
27	311	2014	224	A Wolf-Rayet-like Progenitor of SN 2013cu from Spectral Observations of a
28	119	2007	224	Four Quasars above Redshift 6 Discovered by the Canada-France High-z
29	198	2010	220	The Effect of Host Galaxies on Type Ia Supernovae in the SDSS-II Supernova
30	207	2011	219	Supermassive Black Holes do not Correlate with Galaxy Disks or Psuedobulges.
31	363	2016	215	State of the Field: Extreme Precision Radial Velocities.
32	142	2008	215	The SEGUE Stellar Parameter Pipeline. III. Comparison with High-Resolution
33	116	2007	206	SN 2005ap: A Most Brilliant Explosion.
34	160	2009	202	Luminous Thermal Flares from Quiescent Supermassive Black Holes.
35	13	2001	201	Colors of 2625 Quasars at $0 < z < 5$ Measured in the Sloan Digital Sky Survey
36	248	2012	199	The Luminosity Function of Fermi-detected Flat-spectrum Radio Quasars.
37	234	2012	197	Generalized Seim-analytical Models of Supernova Light Curves.
38	31	2002	197	Large-Amplitude X-Ray Outbursts from Galactic Nuclei: A Systematic
39	300	2014	195	A Panchromatic View of the Restless SN 2009ip Reveals the Explosive Ejection of
40	5	2000	194	The Missing Link: Early Methane ("T") Dwarfs in the Sloan Digital Sky Survey.
41	277	2013	193	Oxygen Abundances in Nearby FGK Stars and the Galactic Chemical Evolution of
42	155	2009	187	SN 2005cs in M51 II. Complete Evolution in the Optical and the Near-Infrared.
43	124	2008	185	The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and
44	60	2004	185	The Munich Near-Infrared Cluster Survey (MUNICS). VI. The Stellar Masses
45	266	2012	181	The Neptune-sized Circumbinary Planet Kepler-38b.
46	106	2007	180	Oxygen Abundances in Nearby Stars. Clues to the Formation and Evolution
47	381	2018	179	The Data Release of the Sloan Digital Sky Survey-II Supernova Survey.
48	227	2011	177	KOI-54: The Kepler Discovery of Tidally-Excited Pulsations and
49	237	2012	176	Spectroscopy of Broad-line Blazars from 1LAC.
50	258	2012	174	A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling

N	Pub	Year	Cite	Title
51	97	2006	173	Exploring the frequency of Close-in Jovian Planets Around M Dwarfs.
52	143	2008	171	The Sloan Digital Sky Survey-II Photometry and Supernova Ia Light Curves
53	220	2011	169	The Distribution of the Elements in the Galactic Disk. III. A
54	270	2012	167	An Over-massive Black Hole in the Compact Lenticular Galaxy NGC 1277.
55	367	2016	162	The Solar Neighborhood. XXXVII: The Mass-Luminosity Relation for Main-sequence
56	44	2003	156	Accretion Disk Wind in the AGN Broad Line Region: Spectroscopically Resolved
57	165	2009	154	An Infrared/X-ray Survey for New Members of the Taurus Star-Forming Region.
58	96	2006	152	A Transiting Planet of a Sun-like Star.
59	121	2007	151	Dynamical Modelling of Luminous and Dark Matter in 17 Coma Early-Type Galaxies.
60	225	2011	143	The hot-Jupiter Kepler-17b: Discovery, Obliquity from Stroboscopic
61	170	2009	142	Rotational Velocities for M Dwarfs.
62	164	2009	140	Variable Sodium Absorption in a Low-extinction Type Ia Supernova.
63	326	2015	139	Early-time Light Curves of Type Ib/c Supernovae from the SDSS-II Supernova
64	167	2009	139	First-Year Sloan Digital Sky Survey-II (SDSS-II) Supernova Results:
65	78	2005	137	A Giant Planet Around the Massive Giant Star HD 13189.
66	205	2010	131	Extremely Metal-poor Stars in Classical Dwarf Spheroidal Galaxies: Fornax,
67	120	2007	131	XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion
68	148	2009	129	Discovery of the Ultra-Bright Type II-L Supernova 2008es.
69	360	2016	127	SN 2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a
70	204	2010	127	Results from the Supernova Photometric Classification Challenge.
71	10	2001	127	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data III.
72	313	2014	122	Binarity in Carbon-enhanced Metal-poor Stars.
73	206	2011	122	Supermassive Black Holes do not Correlate with Dark Matter Haloes of Galaxies.
74	58	2004	122	SN 2003du: Signatures of the Circumstellar Environment in a Normal Type Ia
75	232	2012	121	Very Early Ultraviolet and Optical Observations of the Type Ia
76	216	2011	121	Photometric Type Ia Supernova Candidates from the Three-Year SDSS-II SN
77	132	2008	119	Using Quantitative Spectroscopic Analysis to Determine the Properties and
78	133	2008	118	XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star.
79	152	2009	117	On the Magnetic Topology of Partially and Fully Convective Stars.
80	131	2008	117	Quasar Broad Absorption Line Variability on Multiyear Timescales.
81	109	2007	113	Ten Year Review of Queue Scheduling of the Hobby-Eberly Telescope.
82	341	2015	110	Kepler 453b - The 10^{th} Kepler Transiting Circumbinary Planet.
83	238	2012	106	Demonstration of On-sky Calibration of Astronomical Spectra Using a 25 GHz
84	114	2007	105	SN 2006hp: Probing the Shock Breakout of a Type II-P Supernova.
85	178	2010	104	First-year Sloan Digital Sky Survey-II Supernova Results: Consistency and
86	87	2006	101	Chandra Observations of the Highest Redshift Quasars from the Sloan
87	18	2001	101	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data VI.
88	2	2000	101	GRB 991216 Joins the Jet Set: Discovery and Monitoring of Its Optical Afterglow.
89	93	2006	100	A Survey for New Members of Taurus with the Spitzer Space Telescope.
90	186	2010	99	Abundances of Red Giants in Old Open Clusters. V. Be 31, Be 32, Be 39, M 67,
91	139	2008	99	A Measurement of the Rate of Type Ia Supernovae at Redshift $z \sim 0.1$ from
92	42	2003	99	The Gamma-Ray Blazar Content of the Northern Sky.
93	181	2010	98	The Rise and Fall of Type Ia Supernova Light Curves in the SDSS-II Supernova
94	82	2006	98	Cool White Dwarfs in the Sloan Digital Sky Survey.
95	221	2011	97	The Effect of Peculiar Velocities on Supernova Cosmology.
96	219	2011	97	Improved Constraints on Type Ia Supernova Host Galaxy Properties Using
97	105	2007	97	Long-term Profile Variability of Double-Peaked Emission Lines in Active
98	99	2006	97	Multiwavelength Observations of GRB 050810A: An Exceptionally Energetic Event
99	118	2007	96	A Planetary-Mass Companion to the K0 Giant HD 17092.
100	327	2015	93	Composite Bulges: The Coexistence of Classical Bulges and Discy Psuedo-bulges

N	Pub	Year	Cite	Title
101	256	2012	91	The SDSS-II Supernova Survey: Parameterizing the Type Ia Supernova Rate as
102	39	2003	90	GRB021004: a Massive Progenitor Star Surrounded by Shells.
103	218	2011	89	A More General Model for the Intrinsic Scatter in Type Ia Supernova Distance
104	247	2012	88	A Detection of Hα in an Exoplanetary Exosphere.
105	45	2003	88	The Chandra Deep Field North Survey. XV. Optically Bright, X-ray-Faint Sources.
106	174	2010	87	The Old and Heavy Bulge of M31 I. Kinematics and Stellar Populations.
107	199	2010	86	Single or Double Degenerate Progenitors? Searching for Shock Emission in the
108	61	2004	86	Searching for Planets in the Hyades. V. Limits on Planet Detection in the
109	383	2018	85	CARMENES Input Catalog of M Dwarfs. III. Rotation and Activity from High
110	255	2012	85	The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star.
111	76	2005	85	A Northern Survey of Gamma-Ray Blazar Candidates.
112	57	2004	85	Dynamical Mass Constraints on Low-Mass Pre-Main-Sequence Stellar Evolutionary
113	264	2012	84	Oxygen Abundances in Low- and High-α Field Halo Stars and the
114	89	2006	83	The Spatial Distribution of Brown Dwarfs in Taurus.
115	295	2013	82	The Very Young Type Ia Supernova 2013dy: Discovery, and Strong Carbon
116	211	2011	82	Implications of Dramatic Broad Absorption Line Variability in the Quasar
117	200	2010	82	A Tidal Disruption Flare in Abell 1689 from an Archival X-ray Survey of Galaxy
118	65	2004	82	Q0906+6930: The Highest Redshift Blazar.
119	421	2020	81	A Giant Planet Candidate Transiting a White Dwarf.
120	50	2003	81	A Dedicated M-Dwarf Planet Search Using The Hobby-Eberly Telescope.
121	276	2013	80	Hα Activity of Old M Dwarfs: Stellar Cycles and Mean
122	74	2005	79	X-Ray Lighthouses of the High-Redshift Universe. II. Further Snapshot
123	249	2012	78	Linking Type Ia Supernova Progenitors and Their Resulting Explosions.
124	215	2011	78	A Population of X-Ray Weak Quasars: PHL 1811 Analogs at High Redshift.
125	17	2001	77	Hubble Space Telescope Images of Stephan's Quintet: Star Cluster Formation in a
126	323	2015	75	A Luminous, Fast Rising UV-transient Discovered by ROTSE: A Tidal Disruption
127	224	2011	75	The Chemical Abundances of Stars in the Halo (CASH)
128	195	2010	75	Hot Subdwarf Stars in Close-up View. II. Rotational Properties and Wide
129	184	2010	74	Measurements of the Rate of Type Ia Supernovae at Redshift $\sim$ 0.3 from
130	95	2006	74	The First Extrasolar Planet Discovered with a New-Generation High-Throughput
131	43	2003	73	Chandra and XMM Newton Observations of the First Quasars: X-Rays From the Age
132	173	2010	72	Early- and Late-Time Observations of SN 2008ha: Additional Constraints for the
133	158	2009	71	A Search for Multi-Planet Systems Using the Hobby-Eberly Telescope.
134	210	2011	70	SN 2008 am: A Super-luminous Type IIn Supernova.
135	324	2015	68	The Broad-lined Type Ic SN 2012ap and the Nature of Relativistic Supernovae
136	335	2015	67	Hunting for Supermassive Black Holes in Nearby Galaxies with the Hobby-Eberly
137	56	2004	67	Searching for Planets in the Hyades III. The Quest for Short-Period Planets.
138	252	2012	66	Kinematic Signatures of Bulges Correlate with Bulge Morphologies and
139	214	2011	66	A Spectroscopic and Photometric Survey of Novae in M31.
140	151	2009	66	A Planet in a 0.6 AU Orbit Around the K0 Giant HD 102272.
141	98	2006	66	2MASS J05162881+2607387: A New Low-mass Double-lined Eclipsing Binary.
142	239	2012	65	The McDonald Observatory Planet Search: New Long-period Giant Planets
143	230	2011	65	The Orbit and Companion of Probable Gamma-Ray Pulsar J2339$-$0533.
144	182	2010	65	Long-Term Profile Variability in Active Galactic Nuclei with Double-Peaked
145	101	2006	64	Metallicities of M Dwarf Planet Hosts from Spectral Synthesis.
146	73	2004	64	Signature of Electron Capture in Iron-rich Ejecta of SN 2003du.
147	27	2002	64	The Chandra Deep Field North Survey. IX. Extended X-Ray Sources.
148	8	2000	64	Five High-Redshift Quasars Discovered in Commissioning Imaging Data of the
149	328	2015	63	Radial Velocity Observations and Light Curve Noise Modeling Confirm that
150	299	2014	63	Three Planetary Companions Around M67 Stars.

N	Pub	Year	Cite	Title
151	260	2012	62	The Very Young Type-Ia SN 2012cg: Discovery and Pre-Maximum Brightness
152	172	2009	62	Planetary Nebulae in Face-On Spiral Galaxies. III. Planetary Nebula
153	168	2009	62	Multi-Wavelength Properties of the Type IIb SN 2008ax.
154	64	2004	62	Blazar Counterparts for 3EG Sources at $-40^\circ < \delta < 0^\circ$: Pushing
155	47	2003	62	The Munich Near-Infrared Cluster Survey. II. The K-Band Luminosity Function
156	213	2011	61	PTF 10fqs: A Luminous Red Nova in the Spiral Galaxy Messier 99.
157	177	2010	61	Type II-P Supernovae from the SDSS-II Supernova Survey and the Standardized
158	112	2007	61	The Mass of the Candidate Exoplanet Companion to HD 33636 from Hubble Space
159	72	2004	61	High-Resolution Spectroscopy of the Transiting Planet Host Star TrES-1.
160	349	2015	60	The Early Days of the Sculptor Dwarf Galaxy.
161	317	2014	60	The Core Collapse Supernova Rate From the SDSS-II Supernova Survey.
162	306	2014	60	A WISE Survey of Circumstellar Disks in Taurus
163	217	2011	60	Silicon and Oxygen Abundances in Planet-host Stars.
164	150	2009	60	Calibrating M-dwarf Metallicities Using Molecular Indices: Extension to
165	135	2008	60	First-Year Spectroscopy for the Sloan Digital Sky Survey-II Supernova Survey.
166	83	2006	60	SN 2005cg: Explosion Physics and Circumstellar Interaction of Normal
167	303	2014	59	KIC 3858884: A Hybrid δ Scuti Pulsator in a Highly Eccentric
168	183	2010	59	The Evolution of Quasar C IV and Si IV Broad Absorption Lines Over
169	7	2000	59	Spectroscopy of Blue Stragglers and Turnoff Stars in M67 (NGC 2682).
170	340	2015	58	High-velocity Features of Calcium and Silicon in the Spectra of Type Ia
171	314	2014	58	A Misaligned Prograde Orbit for Kepler-13 AB via Doppler Tomography.
172	267	2012	58	Revisiting ρ^1 Cancri e: A New Mass Determination of the
173	392	2019	57	Stellar Spectroscopy in the Near-infrared with a Laser Frequency Comb.
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466	244	2012	2	Discovery of a Wolf-Rayet Star Through Detection of Its Photometric
467	63	2004	2	Exact Optics IV. Small 'trumpet' Correctors for Large Spheres.
468	53	2004	2	A Search for Sodium Absorption from Comets Around HD209458.
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477	483	2022	0	Revising Properties of Planet-Host Binary Systems. II. Apparent
478	485	2022	0	Chemical Abundances of Eight Highly-extincted Milky Way Planetary Nebulae.
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484	447	2021	0	A Galaxy Cluster in the Innermost Zone of Avoidance, Close to the Radio
485	436	2021	0	Tracking Advanced Planetary Systems (TAPAS) with HARPS-N. VII. Elder Suns with
486	30	2002	0	Suspected Wolf-Rayet Galaxies UM 456 and UM 594.