

Kaloyan M Penev

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

3,565
citations

136950

32
h-index

223800

46
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83
all docs

83
docs citations

83
times ranked

2037
citing authors

#	ARTICLE	IF	CITATIONS
1	HATSouth: A Global Network of Fully Automated Identical Wide-Field Telescopes. Publications of the Astronomical Society of the Pacific, 2013, 125, 154-182.	3.1	185
2	HATS-6b: A WARM SATURN TRANSITING AN EARLY M DWARF STAR, AND A SET OF EMPIRICAL RELATIONS FOR CHARACTERIZING K AND M DWARF PLANET HOSTS. Astronomical Journal, 2015, 149, 166.	4.7	106
3	HAT-P-39b & HAT-P-41b: THREE HIGHLY INFLATED TRANSITING HOT JUPITERS. Astronomical Journal, 2012, 144, 139.	4.7	103
4	CONSTRAINING TIDAL DISSIPATION IN STARS FROM THE DESTRUCTION RATES OF EXOPLANETS. Astrophysical Journal, 2012, 751, 96.	4.5	94
5	KELT-20b: A Giant Planet with a Period of $P \approx 3.5$ days Transiting the $V \approx 7.6$ Early A Star HD 185603. Astronomical Journal, 2017, 154, 194.	4.7	87
6	HATS-4b: A DENSE HOT JUPITER TRANSITING A SUPER METAL-RICH G STAR. Astronomical Journal, 2014, 148, 29.	4.7	84
7	Two New HATNet Hot Jupiters around A Stars and the First Glimpse at the Occurrence Rate of Hot Jupiters from TESS. Astronomical Journal, 2019, 158, 141.	4.7	83
8	HAT-P-34b-HAT-P-37b: FOUR TRANSITING PLANETS MORE MASSIVE THAN JUPITER ORBITING MODERATELY BRIGHT STARS. Astronomical Journal, 2012, 144, 19.	4.7	81
9	On Dissipation inside Turbulent Convection Zones from Three-dimensional Simulations of Solar Convection. Astrophysical Journal, 2007, 655, 1166-1171.	4.5	80
10	HATS-3b: AN INFLATED HOT JUPITER TRANSITING AN F-TYPE STAR. Astronomical Journal, 2013, 146, 113.	4.7	75
11	HAT-P-65b AND HAT-P-66b: TWO TRANSITING INFLATED HOT JUPITERS AND OBSERVATIONAL EVIDENCE FOR THE REINFLATION OF CLOSE-IN GIANT PLANETS*. Astronomical Journal, 2016, 152, 182.	4.7	73
12	TIDAL EVOLUTION OF CLOSE-IN EXTRASOLAR PLANETS: HIGH STELLAR $\langle Q \rangle$ FROM NEW THEORETICAL MODELS. Astrophysical Journal, 2011, 731, 67.	4.5	70
13	HAT-P-57b: A SHORT-PERIOD GIANT PLANET TRANSITING A BRIGHT RAPIDLY ROTATING A8V STAR CONFIRMED VIA DOPPLER TOMOGRAPHY. Astronomical Journal, 2015, 150, 197.	4.7	64
14	KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the $V = 8$ Subgiant HD 93396. Astronomical Journal, 2017, 153, 215.	4.7	61
15	KELT-19Ab: A $P \approx 4.6$ -day Hot Jupiter Transiting a Likely Am Star with a Distant Stellar Companion. Astronomical Journal, 2018, 155, 35.	4.7	61
16	KELT-3b: A HOT JUPITER TRANSITING A $\langle V \rangle = 9.8$ LATE-F STAR. Astrophysical Journal, 2013, 773, 64.	4.5	58
17	KELT-16b: A Highly Irradiated, Ultra-short Period Hot Jupiter Nearing Tidal Disruption. Astronomical Journal, 2017, 153, 97.	4.7	58
18	Tidal decay and stable Roche-lobe overflow of short-period gaseous exoplanets. Celestial Mechanics and Dynamical Astronomy, 2016, 126, 227-248.	1.4	57

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19	HATS-17b: A TRANSITING COMPACT WARM JUPITER IN A 16.3 DAY CIRCULAR ORBIT*. <i>Astronomical Journal</i> , 2016, 151, 89.	4.7	57
20	A New Model of Roche Lobe Overflow for Short-period Gaseous Planets and Binary Stars. <i>Astrophysical Journal</i> , 2017, 835, 145.	4.5	57
21	DIRECT CALCULATION OF THE TURBULENT DISSIPATION EFFICIENCY IN ANELASTIC CONVECTION. <i>Astrophysical Journal</i> , 2009, 705, 285-297.	4.5	55
22	KELT-21b: A Hot Jupiter Transiting the Rapidly Rotating Metal-poor Late-A Primary of a Likely Hierarchical Triple System. <i>Astronomical Journal</i> , 2018, 155, 100.	4.7	55
23	Empirical Tidal Dissipation in Exoplanet Hosts From Tidal Spin-up. <i>Astronomical Journal</i> , 2018, 155, 165.	4.7	55
24	KELT-6b: A 7.9 DAY HOT SATURN TRANSITING A METAL-POOR STAR WITH A LONG-PERIOD COMPANION. <i>Astronomical Journal</i> , 2014, 147, 39.	4.7	54
25	HATS-18B: AN EXTREME SHORT-PERIOD MASSIVE TRANSITING PLANET SPINNING UP ITS STAR. <i>Astronomical Journal</i> , 2016, 152, 127.	4.7	54
26	HAT-P-67b: An Extremely Low Density Saturn Transiting an F-subgiant Confirmed via Doppler Tomography. <i>Astronomical Journal</i> , 2017, 153, 211.	4.7	54
27	KELT-8b: A HIGHLY INFLATED TRANSITING HOT JUPITER AND A NEW TECHNIQUE FOR EXTRACTING HIGH-PRECISION RADIAL VELOCITIES FROM NOISY SPECTRA. <i>Astrophysical Journal</i> , 2015, 810, 30.	4.5	53
28	High-precision photometry for K2 Campaign 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 4159-4171.	4.4	52
29	HATS9-b AND HATS10-b: TWO COMPACT HOT JUPITERS IN FIELD 7 OF THE K2 MISSION. <i>Astronomical Journal</i> , 2015, 150, 33.	4.7	52
30	HATS-25B THROUGH HATS-30B: A HALF-DOZEN NEW INFLATED TRANSITING HOT JUPITERS FROM THE HATSOUTH SURVEY*. <i>Astronomical Journal</i> , 2016, 152, 108.	4.7	49
31	HAT-P-38b: A Saturn-Mass Planet Transiting a Late G Star. <i>Publication of the Astronomical Society of Japan</i> , 2012, 64, .	2.5	48
32	The mass-radius relationship for very low mass stars: four new discoveries from the HATSouth Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 437, 2831-2844.	4.4	48
33	HAT-P-44b, HAT-P-45b, AND HAT-P-46b: THREE TRANSITING HOT JUPITERS IN POSSIBLE MULTI-PLANET SYSTEMS. <i>Astronomical Journal</i> , 2014, 147, 128.	4.7	48
34	HATS-7b: A HOT SUPER NEPTUNE TRANSITING A QUIET K DWARF STAR. <i>Astrophysical Journal</i> , 2015, 813, 111.	4.5	48
35	HATS-8b: A LOW-DENSITY TRANSITING SUPER-NEPTUNE. <i>Astronomical Journal</i> , 2015, 150, 49.	4.7	47
36	DISSIPATION EFFICIENCY IN TURBULENT CONVECTIVE ZONES IN LOW-MASS STARS. <i>Astrophysical Journal</i> , 2009, 704, 930-936.	4.5	46

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37	KELT-4Ab: AN INFLATED HOT JUPITER TRANSITING THE BRIGHT ($V = 10$) COMPONENT OF A HIERARCHICAL TRIPLE. <i>Astronomical Journal</i> , 2016, 151, 45.	4.7	46
38	An Eccentric Massive Jupiter Orbiting a Subgiant on a 9.5-day Period Discovered in the Transiting Exoplanet Survey Satellite Full Frame Images. <i>Astronomical Journal</i> , 2019, 157, 191.	4.7	46
39	HAT-P-50b, HAT-P-51b, HAT-P-52b, AND HAT-P-53b: THREE TRANSITING HOT JUPITERS AND A TRANSITING HOT SATURN FROM THE HATNET SURVEY. <i>Astronomical Journal</i> , 2015, 150, 168.	4.7	44
40	HATS-5b: A TRANSITING HOT SATURN FROM THE HATSouth SURVEY. <i>Astronomical Journal</i> , 2014, 147, 144.	4.7	43
41	HAT-P-49b: A $1.7 M_J$ PLANET TRANSITING A BRIGHT $1.5 M_F$ -STAR. <i>Astronomical Journal</i> , 2014, 147, 84.	4.7	43
42	HAT-P-56b: AN INFLATED MASSIVE HOT JUPITER TRANSITING A BRIGHT F STAR FOLLOWED UP WITH K2 CAMPAIGN 0 OBSERVATIONS. <i>Astronomical Journal</i> , 2015, 150, 85.	4.7	43
43	KELT-14b AND KELT-15b: AN INDEPENDENT DISCOVERY OF WASP-122b AND A NEW HOT JUPITER. <i>Astronomical Journal</i> , 2016, 151, 138.	4.7	42
44	HAT-P-54b: A HOT JUPITER TRANSITING A $0.64 M_{\odot}$ STAR IN FIELD 0 OF THE K2 MISSION. <i>Astronomical Journal</i> , 2015, 149, 149.	4.7	41
45	KELT-10b: the first transiting exoplanet from the KELT-South survey â€” a hot sub-Jupiter transiting a $V = 10.7$ early G-star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4281-4298.	4.4	38
46	KELT-12b: A 14.5 day, Highly Inflated Hot Jupiter Transiting a Mildly Evolved Hot Star. <i>Astronomical Journal</i> , 2017, 153, 178.	4.7	35
47	HATS-43b, HATS-44b, HATS-45b, and HATS-46b: Four Short-period Transiting Giant Planets in the Neptuneâ€”Jupiter Mass Range*. <i>Astronomical Journal</i> , 2018, 155, 112.	4.7	35
48	HATS-70b: A 13 MJ Brown Dwarf Transiting an A Star*. <i>Astronomical Journal</i> , 2019, 157, 31.	4.7	35
49	POET: A Model for Planetary Orbital Evolution Due to Tides on Evolving Stars. <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 553-564.	3.1	34
50	No Conclusive Evidence for Transits of Proxima b in MOST Photometry. <i>Astronomical Journal</i> , 2017, 153, 93.	4.7	34
51	HATS-31B THROUGH HATS-35B: FIVE TRANSITING HOT JUPITERS DISCOVERED BY THE HATSOUTH SURVEY*. <i>Astronomical Journal</i> , 2016, 152, 161.	4.7	33
52	HATS-22b, HATS-23b and HATS-24b: three new transiting super-Jupiters from the HATSouth project. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 835-848.	4.4	33
53	HATS-11B AND HATS-12B: TWO TRANSITING HOT JUPITERS ORBITING SUBSOLAR METALLICITY STARS SELECTED FOR THE K2 CAMPAIGN 7*. <i>Astronomical Journal</i> , 2016, 152, 88.	4.7	32
54	Stellar rotational periods in the planet hosting open cluster Praesepe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2081-2093.	4.4	30

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55	KELT-18b: Puffy Planet, Hot Host, Probably Perturbed. <i>Astronomical Journal</i> , 2017, 153, 263.	4.7	30
56	HATS-50b through HATS-53b: Four Transiting Hot Jupiters Orbiting G-type Stars Discovered by the HATSouth Survey*. <i>Astronomical Journal</i> , 2018, 155, 79.	4.7	30
57	HATS-39b, HATS-40b, HATS-41b, and HATS-42b: three inflated hot Jupiters and a super-Jupiter transiting F stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 3406-3423.	4.4	30
58	A $0.24+0.18\text{M}_{\odot}$ double-lined eclipsing binary from the HATSouth survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 2263-2277.	4.4	29
59	HAT-P-55b: A Hot Jupiter Transiting a Sun-Like Star ¹ . <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 851-856.	3.1	29
60	Long-Term Solar Variability and the Solar Cycle in the 21st Century. <i>Astrophysical Journal</i> , 2004, 605, L81-L84.	4.5	27
61	HATS-36b and 24 Other Transiting/Eclipsing Systems from the HATSouth-K2 Campaign 7 Program. <i>Astronomical Journal</i> , 2018, 155, 119.	4.7	27
62	HATS-60b–HATS-69b: 10 Transiting Planets from HATSouth*. <i>Astronomical Journal</i> , 2019, 157, 55.	4.7	27
63	STARS GET DIZZY AFTER LUNCH. <i>Astrophysical Journal</i> , 2014, 787, 131.	4.5	26
64	KELT-25 b and KELT-26 b: A Hot Jupiter and a Substellar Companion Transiting Young A Stars Observed by TESS*. <i>Astronomical Journal</i> , 2020, 160, 111.	4.7	26
65	HATS-71b: A Giant Planet Transiting an M3 Dwarf Star in TESS Sector 1. <i>Astronomical Journal</i> , 2020, 159, 267.	4.7	24
66	HATS-74Ab, HATS-75b, HATS-76b, and HATS-77b: Four Transiting Giant Planets Around K and M Dwarfs*. <i>Astronomical Journal</i> , 2022, 163, 125.	4.7	24
67	HATS-54b–HATS-58Ab: Five New Transiting Hot Jupiters Including One with a Possible Temperate Companion*. <i>Astronomical Journal</i> , 2019, 158, 63.	4.7	15
68	KELT-24b: A $5M_{\text{J}}$ Planet on a 5.6 day Well-aligned Orbit around the Young $V_{\text{A}}=8.3$ F-star HD 93148. <i>Astronomical Journal</i> , 2019, 158, 197.	4.7	15
69	HAT-TR-318-007: A Double-lined M Dwarf Binary with Total Secondary Eclipses Discovered by HATNet and Observed by K2* ¹ . <i>Astronomical Journal</i> , 2018, 155, 114.	4.7	14
70	On a Possible Solution to the Tidal Realignment Problem for Hot Jupiters. <i>Astrophysical Journal</i> , 2021, 914, 56.	4.5	14
71	Two Warm, Low-density Sub-Jovian Planets Orbiting Bright Stars in K2 Campaigns 13 and 14. <i>Astronomical Journal</i> , 2018, 156, 127.	4.7	13
72	THREE-DIMENSIONAL SPECTRAL SIMULATIONS OF ANELASTIC TURBULENT CONVECTION. <i>Astrophysical Journal</i> , 2011, 734, 118.	4.5	9

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73	KELT-22Ab: A Massive, Short-Period Hot Jupiter Transiting a Near-solar Twin. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 13.	7.7	9
74	KELT-23Ab: A Hot Jupiter Transiting a Near-solar Twin Close to the TESS and JWST Continuous Viewing Zones. <i>Astronomical Journal</i> , 2019, 158, 78.	4.7	8
75	HATS-47b, HATS-48Ab, HATS-49b, and HATS-72b: Four Warm Giant Planets Transiting K Dwarfs*. <i>Astronomical Journal</i> , 2020, 159, 173.	4.7	8
76	TOI-954 b and K2-329 b: Short-period Saturn-mass Planets that Test whether Irradiation Leads to Inflation. <i>Astronomical Journal</i> , 2021, 161, 82.	4.7	8
77	HATS-37Ab and HATS-38b: Two Transiting Hot Neptunes in the Desert*. <i>Astronomical Journal</i> , 2020, 160, 222.	4.7	6
78	HATS-59b,c: A Transiting Hot Jupiter and a Cold Massive Giant Planet around a Sun-like Star*. <i>Astronomical Journal</i> , 2018, 156, 216.	4.7	5
79	HAT-P-58b and HAT-P-64b: Seven Planets Transiting Bright Stars*. <i>Astronomical Journal</i> , 2021, 162, 7.	4.7	5
80	Constraining tidal quality factor using spin period in eclipsing binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 3651-3661.	4.4	5
81	HAT-P-68b: A Transiting Hot Jupiter around a K5 Dwarf Star*. <i>Astronomical Journal</i> , 2021, 161, 64.	4.7	2
82	The Solar Activity during the Holocene: Amplitude Variations of the Quasi-century and Quasi-two-century Solar Cycles. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 705-706.	0.0	1