

John F Kielkopf

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

3,890
citations

136950

32
h-index

138484

58
g-index

83
all docs

83
docs citations

83
times ranked

2621
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of neutral nonresonant collisions on atomic spectral lines. <i>Reviews of Modern Physics</i> , 1982, 54, 1103-1182.	45.6	491
2	ASTROIMAGEJ: IMAGE PROCESSING AND PHOTOMETRIC EXTRACTION FOR ULTRA-PRECISE ASTRONOMICAL LIGHT CURVES. <i>Astronomical Journal</i> , 2017, 153, 77.	4.7	440
3	KELT-1b: A STRONGLY IRRADIATED, HIGHLY INFLATED, SHORT PERIOD, 27 JUPITER-MASS COMPANION TRANSITING A MID-F STAR. <i>Astrophysical Journal</i> , 2012, 761, 123.	4.5	230
4	A giant planet undergoing extreme-ultraviolet irradiation by its hot massive-star host. <i>Nature</i> , 2017, 546, 514-518.	27.8	205
5	A planet within the debris disk around the pre-main-sequence star AU Microscopii. <i>Nature</i> , 2020, 582, 497-500.	27.8	145
6	TESS Hunt for Young and Maturing Exoplanets (THYME): A Planet in the 45 Myr Tucana "Horologium Association. <i>Astrophysical Journal Letters</i> , 2019, 880, L17.	8.3	110
7	TESS Discovery of an Ultra-short-period Planet around the Nearby M Dwarf LHS 3844. <i>Astrophysical Journal Letters</i> , 2019, 871, L24.	8.3	108
8	The L 98-59 System: Three Transiting, Terrestrial-size Planets Orbiting a Nearby M Dwarf. <i>Astronomical Journal</i> , 2019, 158, 32.	4.7	93
9	KELT-20b: A Giant Planet with a Period of ~ 3.5 days Transiting the ~ 7.6 Early A Star HD 185603. <i>Astronomical Journal</i> , 2017, 154, 194.	4.7	87
10	A super-Earth and two sub-Neptunes transiting the nearby and quiet M dwarf TOI-270. <i>Nature Astronomy</i> , 2019, 3, 1099-1108.	10.1	84
11	TESS Spots a Compact System of Super-Earths around the Naked-eye Star HR 858. <i>Astrophysical Journal Letters</i> , 2019, 881, L19.	8.3	80
12	KELT-7b: A HOT JUPITER TRANSITING A BRIGHT $V = 8.54$ RAPIDLY ROTATING F-STAR. <i>Astronomical Journal</i> , 2015, 150, 12.	4.7	78
13	KELT-17B: A HOT-JUPITER TRANSITING AN A-STAR IN A MISALIGNED ORBIT DETECTED WITH DOPPLER TOMOGRAPHY. <i>Astronomical Journal</i> , 2016, 152, 136.	4.7	76
14	Minerva-Australis. I. Design, Commissioning, and First Photometric Results. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 115003.	3.1	65
15	Vetting of 384 TESS Objects of Interest with TRICERATOPS and Statistical Validation of 12 Planet Candidates. <i>Astronomical Journal</i> , 2021, 161, 24.	4.7	64
16	A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780. <i>Astronomical Journal</i> , 2020, 160, 3.	4.7	62
17	KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the $V = 8$ Subgiant HD 93396. <i>Astronomical Journal</i> , 2017, 153, 215.	4.7	61
18	KELT-19Ab: A ~ 4.6 -day Hot Jupiter Transiting a Likely Am Star with a Distant Stellar Companion. <i>Astronomical Journal</i> , 2018, 155, 35.	4.7	61

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19	KELT-3b: A HOT JUPITER TRANSITING A $\langle v \rangle = 9.8$ LATE-F STAR. <i>Astrophysical Journal</i> , 2013, 773, 64.	4.5	58
20	KELT-16b: A Highly Irradiated, Ultra-short Period Hot Jupiter Nearing Tidal Disruption. <i>Astronomical Journal</i> , 2017, 153, 97.	4.7	58
21	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
22	KELT-6b: A $\langle P \rangle \approx 7.9$ DAY HOT SATURN TRANSITING A METAL-POOR STAR WITH A LONG-PERIOD COMPANION. <i>Astronomical Journal</i> , 2014, 147, 39.	4.7	54
23	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
24	KELT-4Ab: AN INFLATED HOT JUPITER TRANSITING THE BRIGHT ($\langle v \rangle \approx 10$) COMPONENT OF A HIERARCHICAL TRIPLE. <i>Astronomical Journal</i> , 2016, 151, 45.	4.7	46
25	The KELT Follow-up Network and Transit False-positive Catalog: Pre-vetted False Positives for TESS. <i>Astronomical Journal</i> , 2018, 156, 234.	4.7	46
26	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
27	Two Young Planetary Systems around Field Stars with Ages between 20 and 320 Myr from TESS. <i>Astronomical Journal</i> , 2021, 161, 2.	4.7	42
28	KELT-10b: the first transiting exoplanet from the KELT-South survey â€” a hot sub-Jupiter transiting a $\langle v \rangle = 10.7$ early G-star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4281-4298.	4.4	38
29	HD 213885b: a transiting 1-d-period super-Earth with an Earth-like composition around a bright ($\langle v \rangle = 7.9$) star unveiled by TESS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2982-2999.	4.4	38
30	K2-114b and K2-115b: Two Transiting Warm Jupiters. <i>Astronomical Journal</i> , 2017, 154, 188.	4.7	36
31	KELT-12b: A ≈ 4.5 day, Highly Inflated Hot Jupiter Transiting a Mildly Evolved Hot Star. <i>Astronomical Journal</i> , 2017, 153, 178.	4.7	35
32	Near-resonance in a System of Sub-Neptunes from TESS. <i>Astronomical Journal</i> , 2019, 158, 177.	4.7	34
33	TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs. <i>Astronomical Journal</i> , 2020, 160, 22.	4.7	33
34	TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3704-3722.	4.4	33
35	TOI-677b: A Warm Jupiter ($P = 11.2$ days) on an Eccentric Orbit Transiting a Late F-type Star. <i>Astronomical Journal</i> , 2020, 159, 145.	4.7	32
36	GJ 1252 b: A $1.2 R_{\oplus}$ Planet Transiting an M3 Dwarf at 20.4 pc. <i>Astrophysical Journal Letters</i> , 2020, 890, L7.	8.3	31

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37	KELT-18b: Puffy Planet, Hot Host, Probably Perturbed. <i>Astronomical Journal</i> , 2017, 153, 263.	4.7	30
38	TIC 172900988: A Transiting Circumbinary Planet Detected in One Sector of TESS Data. <i>Astronomical Journal</i> , 2021, 162, 234.	4.7	30
39	TOI-824 b: A New Planet on the Lower Edge of the Hot Neptune Desert. <i>Astronomical Journal</i> , 2020, 160, 153.	4.7	27
40	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
41	TOI-811b and TOI-852b: New Transiting Brown Dwarfs with Similar Masses and Very Different Radii and Ages from the TESS Mission. <i>Astronomical Journal</i> , 2021, 161, 97.	4.7	25
42	TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up. <i>Astronomical Journal</i> , 2021, 162, 54.	4.7	25
43	The Hubble PanCET Program: Transit and Eclipse Spectroscopy of the Strongly Irradiated Giant Exoplanet WASP-76b. <i>Astronomical Journal</i> , 2021, 162, 108.	4.7	23
44	TOI-481 b and TOI-892 b: Two Long-period Hot Jupiters from the Transiting Exoplanet Survey Satellite. <i>Astronomical Journal</i> , 2020, 160, 235.	4.7	23
45	TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images. <i>Astronomical Journal</i> , 2021, 161, 194.	4.7	22
46	TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit. <i>Astronomical Journal</i> , 2021, 162, 256.	4.7	21
47	Shift and width of the Balmer series H γ line at high electron density in a laser-produced plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 155701.	1.5	20
48	A Transiting Warm Giant Planet around the Young Active Star TOI-201. <i>Astronomical Journal</i> , 2021, 161, 235.	4.7	20
49	TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2782-2803.	4.4	19
50	The Youngest Planet to Have a Spin-Orbit Alignment Measurement AU Mic b. <i>Astronomical Journal</i> , 2021, 162, 137.	4.7	19
51	Warm Jupiters in TESS Full-frame Images: A Catalog and Observed Eccentricity Distribution for Year 1. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 6.	7.7	18
52	Populating the brown dwarf and stellar boundary: Five stars with transiting companions near the hydrogen-burning mass limit. <i>Astronomy and Astrophysics</i> , 2021, 652, A127.	5.1	18
53	TOI-3362b: A Proto Hot Jupiter Undergoing High-eccentricity Tidal Migration. <i>Astrophysical Journal Letters</i> , 2021, 920, L16.	8.3	16
54	The TESS-Keck Survey: Science Goals and Target Selection. <i>Astronomical Journal</i> , 2022, 163, 297.	4.7	16

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55	KELT-24b: A 5M _J Planet on a 5.6 day Well-aligned Orbit around the Young V _A =8.3 F-star HD 93148. <i>Astronomical Journal</i> , 2019, 158, 197.	4.7	15
56	A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions. <i>Astronomical Journal</i> , 2022, 163, 207.	4.7	15
57	TESS Discovery of a Super-Earth and Three Sub-Neptunes Hosted by the Bright, Sun-like Star HD 108236. <i>Astronomical Journal</i> , 2021, 161, 85.	4.7	13
58	Satellites on Lyman Alpha due to H-H and H-H[TSUP]+[TSUP] Collisions. <i>Astrophysical Journal</i> , 1995, 450, .	4.5	13
59	TOI 122b and TOI 237b: Two Small Warm Planets Orbiting Inactive M Dwarfs Found by TESS. <i>Astronomical Journal</i> , 2021, 161, 13.	4.7	12
60	TOI-1431b/MASCARA-5b: A Highly Irradiated Ultrahot Jupiter Orbiting One of the Hottest and Brightest Known Exoplanet Host Stars. <i>Astronomical Journal</i> , 2021, 162, 292.	4.7	11
61	A Mini-Neptune from TESS and CHEOPS Around the 120 Myr Old AB Dor Member HIP 94235. <i>Astronomical Journal</i> , 2022, 163, 289.	4.7	11
62	Galaxy and Mass Assembly: A Comparison between Galaxyâ€“Galaxy Lens Searches in KiDS/GAMA. <i>Astronomical Journal</i> , 2020, 160, 223.	4.7	10
63	A Multi-year Search for Transits of Proxima Centauri. I. Light Curves Corresponding to Published Ephemerides. <i>Astronomical Journal</i> , 2018, 155, 228.	4.7	9
64	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
65	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
66	Validation of 13 Hot and Potentially Terrestrial TESS Planets. <i>Astronomical Journal</i> , 2022, 163, 99.	4.7	8
67	Absorption spectra of Na atoms in dense He. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	6
68	Hâ€“He collision-induced satellite in the Lyman-Î± profile of DBA white dwarf stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 868-875.	4.4	6
69	TOI-1842b: A Transiting Warm Saturn Undergoing Reinflation around an Evolving Subgiant. <i>Astronomical Journal</i> , 2022, 163, 82.	4.7	6
70	Transit timings variations in the three-planet system: TOI-270. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 5464-5485.	4.4	6
71	Observation of a possible superflare on Proxima Centauri. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 486, L31-L35.	3.3	5
72	An extreme-mass ratio, short-period eclipsing binary consisting of a B dwarf primary and a pre-main-sequence M star companion discovered by KELT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3775-3791.	4.4	5

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73	Two Massive Jupiters in Eccentric Orbits from the TESS Full-frame Images. <i>Astronomical Journal</i> , 2022, 163, 9.	4.7	5
74	HD 83443c: A Highly Eccentric Giant Planet on a 22 yr Orbit. <i>Astronomical Journal</i> , 2022, 163, 273.	4.7	4
75	Collisional effects in the blue wing of Lyman- α . <i>Astronomy and Astrophysics</i> , 2021, 651, A51.	5.1	3
76	HD 183579b: a warm sub-Neptune transiting a solar twin detected by <i>TESS</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2220-2240.	4.4	3
77	Atomic line shapes in stellar spectra. , 2008, , .		0
78	Non-Contact Based Structural Damage Detection Using Stochastic Subspace Identification and a FEM Updating Method. , 2017, , .		0
79	A young solar twin in the Rosette cluster NGC 2244 line of sight. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 323-335.	4.4	0