

Christopher J Burke

List of Publications by Year in descending order

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95
papers

10,070
citations

36303

51
h-index

38395

95
g-index

97
all docs

97
docs citations

97
times ranked

4333
citing authors

#	ARTICLE	IF	CITATIONS
1	The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261 Day Orbit with the Automated Planet Finder Telescope*. <i>Astronomical Journal</i> , 2022, 163, 61.	4.7	19
2	A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions. <i>Astronomical Journal</i> , 2022, 163, 207.	4.7	15
3	TIC 168789840: A Sextuply Eclipsing Sextuple Star System. <i>Astronomical Journal</i> , 2021, 161, 162.	4.7	28
4	Around Which Stars Can TESS Detect Earth-like Planets? The Revised TESS Habitable Zone Catalog. <i>Astronomical Journal</i> , 2021, 161, 233.	4.7	3
5	The TESS Objects of Interest Catalog from the TESS Prime Mission. <i>Astrophysical Journal</i> , Supplement Series, 2021, 254, 39.	7.7	190
6	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
7	TOI-1231 b: A Temperate, Neptune-sized Planet Transiting the Nearby M3 Dwarf NLTT 24399. <i>Astronomical Journal</i> , 2021, 162, 87.	4.7	13
8	The TESS Mission Target Selection Procedure. <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 095002.	3.1	5
9	The Occurrence of Rocky Habitable-zone Planets around Solar-like Stars from Kepler Data. <i>Astronomical Journal</i> , 2021, 161, 36.	4.7	96
10	A Pair of Warm Giant Planets near the 2:1 Mean Motion Resonance around the K-dwarf Star TOI-2202*. <i>Astronomical Journal</i> , 2021, 162, 283.	4.7	13
11	Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. <i>Astronomical Journal</i> , 2021, 162, 295.	4.7	39
12	An ultrahot Neptune in the Neptune desert. <i>Nature Astronomy</i> , 2020, 4, 1148-1157.	10.1	43
13	A Probabilistic Approach to Kepler Completeness and Reliability for Exoplanet Occurrence Rates. <i>Astronomical Journal</i> , 2020, 159, 279.	4.7	53
14	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
15	Loose Ends for the Exomoon Candidate Host Kepler-1625b. <i>Astronomical Journal</i> , 2020, 159, 142.	4.7	20
16	TESS Spots a Hot Jupiter with an Inner Transiting Neptune. <i>Astrophysical Journal Letters</i> , 2020, 892, L7.	8.3	37
17	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
18	Sensitivity Analyses of Exoplanet Occurrence Rates from Kepler and Gaia. <i>Astronomical Journal</i> , 2020, 160, 16.	4.7	6

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19	Exploring the Atmospheric Dynamics of the Extreme Ultrahot Jupiter KELT-9b Using TESS Photometry. <i>Astronomical Journal</i> , 2020, 160, 88.	4.7	44
20	The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System. <i>Astronomical Journal</i> , 2020, 160, 116.	4.7	67
21	Measuring Transit Signal Recovery in the Kepler Pipeline. IV. Completeness of the DR25 Planet Candidate Catalog. <i>Astronomical Journal</i> , 2020, 160, 159.	4.7	26
22	Cluster Difference Imaging Photometric Survey. II. TOI 837: A Young Validated Planet in IC 2602. <i>Astronomical Journal</i> , 2020, 160, 239.	4.7	38
23	Phase Curves of Hot Neptune LTT 9779b Suggest a High-metallicity Atmosphere. <i>Astrophysical Journal Letters</i> , 2020, 903, L7.	8.3	19
24	TESS Science Processing Operations Center FFI Target List Products. <i>Research Notes of the AAS</i> , 2020, 4, 201.	0.7	54
25	Calibrated Full-frame Images for the TESS Quick Look Pipeline. <i>Research Notes of the AAS</i> , 2020, 4, 251.	0.7	20
26	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
27	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
28	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
29	Three Red Suns in the Sky: A Transiting, Terrestrial Planet in a Triple M-dwarf System at 6.9 pc. <i>Astronomical Journal</i> , 2019, 158, 152.	4.7	59
30	Kepler Data Validation II – Transit Model Fitting and Multiple-planet Search. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 024506.	3.1	169
31	Re-evaluating Small Long-period Confirmed Planets from Kepler. <i>Astronomical Journal</i> , 2019, 157, 143.	4.7	14
32	Discovery and Vetting of Exoplanets. I. Benchmarking K2 Vetting Tools. <i>Astronomical Journal</i> , 2019, 157, 124.	4.7	42
33	Kepler's Earth-like Planets Should Not Be Confirmed without Independent Detection: The Case of Kepler-452b. <i>Astronomical Journal</i> , 2018, 155, 210.	4.7	20
34	Kepler Data Validation I – Architecture, Diagnostic Tests, and Data Products for Vetting Transiting Planet Candidates. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 064502.	3.1	206
35	Planetary Candidates Observed by Kepler . VIII. A Fully Automated Catalog with Measured Completeness and Reliability Based on Data Release 25. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 38.	7.7	316
36	Discovery of XO-6b: A Hot Jupiter Transiting a Fast Rotating F5 Star on an Oblique Orbit. <i>Astronomical Journal</i> , 2017, 153, 94.	4.7	53

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37	DETECTION OF POTENTIAL TRANSIT SIGNALS IN 17 QUARTERS OF KEPLER DATA: RESULTS OF THE FINAL KEPLER MISSION TRANSITING PLANET SEARCH (DR25). <i>Astronomical Journal</i> , 2016, 152, 158.	4.7	100
38	MEASURING TRANSIT SIGNAL RECOVERY IN THE KEPLER PIPELINE. III. COMPLETENESS OF THE Q1â€“Q17 DR24 PLANET CANDIDATE CATALOG WITH IMPORTANT CAVEATS FOR OCCURRENCE RATE CALCULATIONS. <i>Astrophysical Journal</i> , 2016, 828, 99.	4.5	67
39	Identifying False Alarms in the <i>Kepler</i> Planet Candidate Catalog. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 074502.	3.1	52
40	PLANETARY CANDIDATES OBSERVED BY KEPLER. VII. THE FIRST FULLY UNIFORM CATALOG BASED ON THE ENTIRE 48-MONTH DATA SET (Q1â€“Q17 DR24). <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 12.	7.7	223
41	MEASURING TRANSIT SIGNAL RECOVERY IN THE <i>KEPLER</i> PIPELINE. II. DETECTION EFFICIENCY AS CALCULATED IN ONE YEAR OF DATA. <i>Astrophysical Journal</i> , 2015, 810, 95.	4.5	108
42	A MACHINE LEARNING TECHNIQUE TO IDENTIFY TRANSIT SHAPED SIGNALS. <i>Astrophysical Journal</i> , 2015, 812, 46.	4.5	68
43	AUTOMATIC CLASSIFICATION OF <i>KEPLER</i> PLANETARY TRANSIT CANDIDATES. <i>Astrophysical Journal</i> , 2015, 806, 6.	4.5	84
44	AN ANCIENT EXTRASOLAR SYSTEM WITH FIVE SUB-EARTH-SIZE PLANETS. <i>Astrophysical Journal</i> , 2015, 799, 170.	4.5	164
45	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . VI. PLANET SAMPLE FROM Q1â€“Q16 (47 MONTHS). <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 31.	7.7	234
46	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . V. PLANET SAMPLE FROM Q1â€“Q12 (36 MONTHS). <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 16.	7.7	166
47	TERRESTRIAL PLANET OCCURRENCE RATES FOR THE <i>KEPLER</i> GK DWARF SAMPLE. <i>Astrophysical Journal</i> , 2015, 809, 8.	4.5	302
48	DETECTION OF POTENTIAL TRANSIT SIGNALS IN 17 QUARTERS OF <i>KEPLER</i> MISSION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 18.	7.7	42
49	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> IV: PLANET SAMPLE FROM Q1-Q8 (22 MONTHS). <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 19.	7.7	222
50	CONTAMINATION IN THE <i>KEPLER</i> FIELD. IDENTIFICATION OF 685 KOIs AS FALSE POSITIVES VIA EPHEMERIS MATCHING BASED ON Q1-Q12 DATA. <i>Astronomical Journal</i> , 2014, 147, 119.	4.7	101
51	MASSES, RADII, AND ORBITS OF SMALL <i>KEPLER</i> PLANETS: THE TRANSITION FROM GASEOUS TO ROCKY PLANETS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 20.	7.7	418
52	DETECTION OF POTENTIAL TRANSIT SIGNALS IN 16 QUARTERS OF <i>KEPLER</i> MISSION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 6.	7.7	51
53	TRANSIT AND RADIAL VELOCITY SURVEY EFFICIENCY COMPARISON FOR A HABITABLE ZONE EARTH. <i>Astrophysical Journal</i> , 2014, 792, 79.	4.5	28
54	Kepler-62: A Five-Planet System with Planets of 1.4 and 1.6 Earth Radii in the Habitable Zone. <i>Science</i> , 2013, 340, 587-590.	12.6	213

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55	A SUPER-EARTH-SIZED PLANET ORBITING IN OR NEAR THE HABITABLE ZONE AROUND A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2013, 768, 101.	4.5	70
56	DETECTION OF POTENTIAL TRANSIT SIGNALS IN THE FIRST 12 QUARTERS OF <i>KEPLER</i> MISSION DATA. <i>Astrophysical Journal</i> , Supplement Series, 2013, 206, 5.	7.7	72
57	2-DISCRIMINATORS FOR TRANSITING PLANET DETECTION IN <i>KEPLER</i> DATA. <i>Astrophysical Journal</i> , Supplement Series, 2013, 206, 25.	7.7	40
58	MEASURING TRANSIT SIGNAL RECOVERY IN THE <i>KEPLER</i> PIPELINE. I. INDIVIDUAL EVENTS. <i>Astrophysical Journal</i> , Supplement Series, 2013, 207, 35.	7.7	75
59	FUNDAMENTAL PROPERTIES OF <i>KEPLER</i> PLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. <i>Astrophysical Journal</i> , 2013, 767, 127.	4.5	259
60	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . III. ANALYSIS OF THE FIRST 16 MONTHS OF DATA. <i>Astrophysical Journal</i> , Supplement Series, 2013, 204, 24.	7.7	823
61	The Kepler Completeness Study: A Pipeline Throughput Experiment. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 88-93.	0.0	0
62	Auto-Vetting Transiting Planet Candidates Identified by the Kepler Pipeline. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 94-99.	0.0	4
63	TRANSIT DETECTION IN THE M _{Earth} SURVEY OF NEARBY M DWARFS: BRIDGING THE CLEAN-FIRST, SEARCH-LATER DIVIDE. <i>Astronomical Journal</i> , 2012, 144, 145.	4.7	142
64	TRANSIT TIMING OBSERVATIONS FROM <i>KEPLER</i> . II. CONFIRMATION OF TWO MULTIPLANET SYSTEMS VIA A NON-PARAMETRIC CORRELATION ANALYSIS. <i>Astrophysical Journal</i> , 2012, 750, 113.	4.5	94
65	FUNDAMENTAL PROPERTIES OF STARS USING ASTEROSEISMOLOGY FROM <i>KEPLER</i> AND <i>CoRoT</i> AND INTERFEROMETRY FROM THE CHARA ARRAY. <i>Astrophysical Journal</i> , 2012, 760, 32.	4.5	206
66	THE FLAT TRANSMISSION SPECTRUM OF THE SUPER-EARTH GJ1214b FROM WIDE FIELD CAMERA 3 ON THE <i>HUBBLE SPACE TELESCOPE</i> . <i>Astrophysical Journal</i> , 2012, 747, 35.	4.5	313
67	The Derivation, Properties, and Value of Kepler's Combined Differential Photometric Precision. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 1279-1287.	3.1	208
68	CALIBRATING CONVECTIVE PROPERTIES OF SOLAR-LIKE STARS IN THE <i>KEPLER</i> FIELD OF VIEW. <i>Astrophysical Journal Letters</i> , 2012, 755, L12.	8.3	80
69	TRANSMISSION SPECTROSCOPY OF EXOPLANET XO-2b OBSERVED WITH <i>HUBBLE SPACE TELESCOPE</i> NICMOS. <i>Astrophysical Journal</i> , 2012, 761, 7.	4.5	75
70	LSPM J1112+7626: DETECTION OF A 41 DAY M-DWARF ECLIPSING BINARY FROM THE MEARTH TRANSIT SURVEY. <i>Astrophysical Journal</i> , 2011, 742, 123.	4.5	121
71	ON THE ANGULAR MOMENTUM EVOLUTION OF FULLY CONVECTIVE STARS: ROTATION PERIODS FOR FIELD M-DWARFS FROM THE M _{Earth} TRANSIT SURVEY. <i>Astrophysical Journal</i> , 2011, 727, 56.	4.5	209
72	THE GJ1214 SUPER-EARTH SYSTEM: STELLAR VARIABILITY, NEW TRANSITS, AND A SEARCH FOR ADDITIONAL PLANETS. <i>Astrophysical Journal</i> , 2011, 736, 12.	4.5	140

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73	OBSERVATIONAL EVIDENCE FOR A METAL-RICH ATMOSPHERE ON THE SUPER-EARTH GJ1214b. <i>Astrophysical Journal Letters</i> , 2011, 731, L40.	8.3	148
74	THE TRANSIT LIGHT CURVE PROJECT. XIII. SIXTEEN TRANSITS OF THE SUPER-EARTH GJ 1214b. <i>Astrophysical Journal</i> , 2011, 730, 82.	4.5	120
75	THE KEPLER-19 SYSTEM: A TRANSITING 2.2 <i>R_J</i> PLANET AND A SECOND PLANET DETECTED VIA TRANSIT TIMING VARIATIONS. <i>Astrophysical Journal</i> , 2011, 743, 200.	4.5	130
76	PROBING THE TERMINATOR REGION ATMOSPHERE OF THE HOT-JUPITER XO-1b WITH TRANSMISSION SPECTROSCOPY. <i>Astrophysical Journal Letters</i> , 2010, 712, L139-L142.	8.3	126
77	NICMOS OBSERVATIONS OF THE TRANSITING HOT JUPITER XO-1b. <i>Astrophysical Journal</i> , 2010, 719, 1796-1806.	4.5	44
78	THERMAL EMISSION AND TIDAL HEATING OF THE HEAVY AND ECCENTRIC PLANET XO-3b. <i>Astrophysical Journal</i> , 2010, 711, 111-118.	4.5	46
79	NLTT 41135: A FIELD M DWARF + BROWN DWARF ECLIPSING BINARY IN A TRIPLE SYSTEM, DISCOVERED BY THE MEARTH OBSERVATORY. <i>Astrophysical Journal</i> , 2010, 718, 1353-1366.	4.5	49
80	THE XO PLANETARY SURVEY PROJECT: ASTROPHYSICAL FALSE POSITIVES. <i>Astrophysical Journal</i> , Supplement Series, 2010, 189, 134-141.	7.7	7
81	GJ 3236: A NEW BRIGHT, VERY LOW MASS ECLIPSING BINARY SYSTEM DISCOVERED BY THE MEARTH OBSERVATORY. <i>Astrophysical Journal</i> , 2009, 701, 1436-1449.	4.5	84
82	DETECTION OF THERMAL EMISSION OF XO-2b: EVIDENCE FOR A WEAK TEMPERATURE INVERSION. <i>Astrophysical Journal</i> , 2009, 701, 514-520.	4.5	71
83	A super-Earth transiting a nearby low-mass star. <i>Nature</i> , 2009, 462, 891-894.	27.8	672
84	XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star. <i>Astrophysical Journal</i> , 2008, 677, 657-670.	4.5	142
85	XO-5b: A Transiting Jupiter-sized Planet with a 4 Day Period. <i>Astrophysical Journal</i> , 2008, 686, 1331-1340.	4.5	63
86	Impact of Orbital Eccentricity on the Detection of Transiting Extrasolar Planets. <i>Astrophysical Journal</i> , 2008, 679, 1566-1573.	4.5	81
87	Thermal Emission of Exoplanet XO-1b. <i>Astrophysical Journal</i> , 2008, 684, 1427-1432.	4.5	97
88	The Physical Origin of Negative Superhumps in Cataclysmic Variables. <i>Astrophysical Journal</i> , 2007, 661, 1042-1047.	4.5	47
89	XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion Binary. <i>Astrophysical Journal</i> , 2007, 671, 2115-2128.	4.5	138
90	Survey for Transiting Extrasolar Planets in Stellar Systems. III. A Limit on the Fraction of Stars with Planets in the Open Cluster NGC 1245. <i>Astronomical Journal</i> , 2006, 132, 210-230.	4.7	102

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91	Survey for Transiting Extrasolar Planets in Stellar Systems. IV. Variables in the Field of NGC 1245. <i>Astronomical Journal</i> , 2006, 132, 1177-1188.	4.7	33
92	Survey for Transiting Extrasolar Planets in Stellar Systems. II. Spectrophotometry and Metallicities of Open Clusters. <i>Astronomical Journal</i> , 2005, 130, 1916-1928.	4.7	14
93	Survey for Transiting Extrasolar Planets in Stellar Systems. I. Fundamental Parameters of the Open Cluster NGC 1245. <i>Astronomical Journal</i> , 2004, 127, 2382-2397.	4.7	46
94	Theoretical Examination of the Lithium Depletion Boundary. <i>Astrophysical Journal</i> , 2004, 604, 272-283.	4.5	67
95	WFPC2 Observations of the Ursa Minor Dwarf Spheroidal Galaxy. <i>Astronomical Journal</i> , 1999, 118, 366-380.	4.7	42