Pierre F L Maxted

List of Publications by Year
in descending order

135 papers	5,668 citations	71102 41 h-index	102487 66 g-index
135 all docs	135 docs citations	135 times ranked	3042 citing authors

#	Article	IF	Citations
1	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	3.7	249
2	Line-profile tomography of exoplanet transits - II. A gas-giant planet transiting a rapidly rotating A5 starâ˜…. Monthly Notices of the Royal Astronomical Society, 2010, 407, 507-514.	4.4	242
3	The TRAPPIST survey of southern transiting planets. Astronomy and Astrophysics, 2012, 542, A4.	5.1	155
4	The CHEOPS mission. Experimental Astronomy, 2021, 51, 109-151.	3.7	140
5	WASP-41b: A Transiting Hot Jupiter Planet Orbiting a Magnetically Active G8V Star. Publications of the Astronomical Society of the Pacific, 2011, 123, 547-554.	3.1	132
6	WASP-121Âb: a hot Jupiter close to tidal disruption transiting an active F star. Monthly Notices of the Royal Astronomical Society, 2016, 458, 4025-4043.	4.4	132
7	Survival of a brown dwarf after engulfment by a red giant star. Nature, 2006, 442, 543-545.	27.8	129
8	Eclipsing binaries as standard candles. Astronomy and Astrophysics, 2005, 429, 645-655.	5.1	124
9	Spitzer 3.6 and 4.5â€‰Î¼m full-orbit light curves of WASP-18. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2645-2660.	4.4	124
10	WASP-30b: A 61 M _{Jup} BROWN DWARF TRANSITING A V = 12, F8 STAR. Astrophysical Journal Letters, 2011, 726, L19.	8.3	123
11	Seven transiting hot Jupiters from WASP-South, Euler and TRAPPIST: WASP-47b, WASP-55b, WASP-61b, WASP-62b, WASP-63b, WASP-66b and WASP-67b. Monthly Notices of the Royal Astronomical Society, 2012, 426, 739-750.	4.4	122
12	Improved parameters for the transiting hot Jupiters WASP-4b and WASP-5b. Astronomy and Astrophysics, 2009, 496, 259-267.	5.1	121
13	Absolute dimensions of detached eclipsing binaries -- I. The metallic-lined system WW Aurigae. Monthly Notices of the Royal Astronomical Society, 2005, 363, 529-542.	4.4	119
14	Accurate spectroscopic parameters of WASP planet host starsâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 428, 3164-3172.	4.4	106
15	ellc: A fast, flexible light curve model for detached eclipsing binary stars and transiting exoplanets. Astronomy and Astrophysics, 2016, 591, A111.	5.1	102
16	Three newly discovered sub-Jupiter-mass planets: WASP-69b and WASP-84b transit active K dwarfs and WASP-70Ab transits the evolved primary of a G4+K3 binaryâ˜…â€. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1114-1129.	4.4	99
17	Transiting hot Jupiters from WASP-South, Euler and TRAPPIST: WASP-95b to WASP-101b. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1982-1992.	4.4	99
18	Six transiting planets and a chain of Laplace resonances in TOI-178. Astronomy and Astrophysics, 2021, 649, A26.	5.1	94

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19	WASP-42Âb and WASP-49Âb: two new transiting sub-Jupiters. Astronomy and Astrophysics, 2012, 544, A72.	5.1	94
20	EL CVn-type binaries - discovery of 17 helium white dwarf precursors in bright eclipsing binary star systems. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1681-1697.	4.4	85
21	Multi-periodic pulsations of a stripped red-giant star in an eclipsing binary system. Nature, 2013, 498, 463-465.	27.8	79
22	WASP-103â€‰b: a new planet at the edge of tidal disruption. Astronomy and Astrophysics, 2014, 562, L3.	5.1	76
23	Rossiterâ€“McLaughlin models and their effect on estimates of stellar rotation, illustrated using six WASP systems. Monthly Notices of the Royal Astronomical Society, 2017, 464, 810-839.	4.4	75
24	WASP-80b: a gas giant transiting a cool dwarf. Astronomy and Astrophysics, 2013, 551, A80.	5.1	73
25	WASP-South transiting exoplanets: WASP-130b, WASP-131b, WASP-132b, WASP-139b, WASP-140b, WASP-141b and WASP-142b. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3693-3707.	4.4	70
26	Comparison of gyrochronological and isochronal age estimates for transiting exoplanet host stars. Astronomy and Astrophysics, 2015, 577, A90.	5.1	68
27	WASP-7: A BRIGHT TRANSITING-EXOPLANET SYSTEM IN THE SOUTHERN HEMISPHERE. Astrophysical Journal, 2009, 690, L89-L91.	4.5	66
28	WASP-29b: A SATURN-SIZED TRANSITING EXOPLANET. Astrophysical Journal Letters, 2010, 723, L60-L63.	8.3	63
29	WASP-167b/KELT-13b: joint discovery of a hot Jupiter transiting a rapidly rotating F1V star. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2743-2752.	4.4	63
30	The hot dayside and asymmetric transit of WASP-189 b seen by CHEOPS. Astronomy and Astrophysics, 2020, 643, A94.	5.1	61
31	Discovery of a stripped red giant core in a bright eclipsing binary systemâ˜…. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1156-1164.	4.4	58
32	TOI-1338: TESSâ€™ First Transiting Circumbinary Planet. Astronomical Journal, 2020, 159, 253.	4.7	58
33	THREE WASP-SOUTH TRANSITING EXOPLANETS: WASP-74b, WASP-83b, AND WASP-89b. Astronomical Journal, 2015, 150, 18.	4.7	57
34	Bayesian mass and age estimates for transiting exoplanet host stars. Astronomy and Astrophysics, 2015, 575, A36.	5.1	57
35	The EBLM Project. Astronomy and Astrophysics, 2017, 608, A129.	5.1	56
36	WASP-78b and WASP-79b: two highly-bloated hot Jupiter-mass exoplanets orbiting F-type stars in Eridanus. Astronomy and Astrophysics, 2012, 547, A61.	5.1	54

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37	Transit detection of the long-period volatile-rich super-Earth Î½2 Lupi d with CHEOPS. Nature Astronomy, 2021, 5, 775-787.	10.1	51
38	Comparison of the power-2 limb-darkening law from the STAGGER-grid to Kepler light curves of transiting exoplanets. Astronomy and Astrophysics, 2018, 616, A39.	5.1	51
39	WASP-64â€‰b and WASP-72â€‰b: two new transiting highly irradiated giant planets. Astronomy and Astrophysics, 2013, 552, A82.	5.1	49
40	WASP-21b: a hot-Saturn exoplanet transiting a thick disc star. Astronomy and Astrophysics, 2010, 519, A98.	5.1	47
41	CHEOPS observations of the HD 108236 planetary system: a fifth planet, improved ephemerides, and planetary radii. Astronomy and Astrophysics, 2021, 646, A157.	5.1	47
42	From dense hot Jupiter to low-density Neptune: The discovery of WASP-127b, WASP-136b, and WASP-138b. Astronomy and Astrophysics, 2017, 599, A3.	5.1	46
43	High-resolution Imaging of Transiting Extrasolar Planetary systems (HITEP). Astronomy and Astrophysics, 2016, 589, A58.	5.1	45
44	Multiwaveband photometry of the irradiated brown dwarf WD0137â^'349B. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3218-3226.	4.4	44
45	New transiting hot Jupiters discovered by WASP-South, Euler/CORALIE, and TRAPPIST-South. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1379-1391.	4.4	43
46	Testing Systematics of Gaia DR2 Parallaxes with Empirical Surface Brightness: Color Relations Applied to Eclipsing Binaries. Astrophysical Journal, 2019, 872, 85.	4.5	42
47	A window on exoplanet dynamical histories: Rossiterâ€“McLaughlin observations of WASP-13b and WASP-32b. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3392-3401.	4.4	41
48	WASP-94 A and B planets: hot-Jupiter cousins in a twin-star system. Astronomy and Astrophysics, 2014, 572, A49.	5.1	41
49	Machine-learning approaches to exoplanet transit detection and candidate validation in wide-field ground-based surveys. Monthly Notices of the Royal Astronomical Society, 2019, 483, 5534-5547.	4.4	40
50	WASP-92b, WASP-93b and WASP-118b: three new transiting close-in giant planets. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3276-3289.	4.4	39
51	WASP-120 b, WASP-122 b, and WASP-123 b: Three Newly Discovered Planets from the WASP-South Survey. Publications of the Astronomical Society of the Pacific, 2016, 128, 064401.	3.1	38
52	Analysis of Early Science observations with the CHaracterising ExOPlanets Satellite (CHEOPS) using<scp>pycheops</scp>. Monthly Notices of the Royal Astronomical Society, 2022, 514, 77-104.	4.4	38
53	The TESS light curve of AI Phoenicis. Monthly Notices of the Royal Astronomical Society, 2020, 498, 332-343.	4.4	37
54	WASP-23b: a transiting hot Jupiter around a K dwarf and its Rossiter-McLaughlin effect. Astronomy and Astrophysics, 2011, 531, A24.	5.1	36

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55	The BEBOP radial-velocity survey for circumbinary planets. Astronomy and Astrophysics, 2019, 624, A68.	5.1	36
56	The changing face of AU Mic b: stellar spots, spin-orbit commensurability, and transit timing variations as seen by CHEOPS and TESS. Astronomy and Astrophysics, 2021, 654, A159.	5.1	36
57	WASP-117b: a 10-day-period Saturn in an eccentric and misaligned orbit. Astronomy and Astrophysics, 2014, 568, A81.	5.1	35
58	WASP-16b: A NEW JUPITER-LIKE PLANET TRANSITING A SOUTHERN SOLAR ANALOG. Astrophysical Journal, 2009, 703, 752-756.	4.5	32
59	Discovery of Three New Transiting Hot Jupiters: WASP-161 b, WASP-163 b, and WASP-170 b. Astronomical Journal, 2019, 157, 43.	4.7	32
60	WASP-186 and WASP-187: two hot Jupiters discovered by SuperWASP and SOPHIE with additional observations by TESS. Monthly Notices of the Royal Astronomical Society, 2020, 499, 428-440.	4.4	32
61	WASP-20b and WASP-28b: a hot Saturn and a hot Jupiter in near-aligned orbits around solar-type stars. Astronomy and Astrophysics, 2015, 575, A61.	5.1	31
62	CHEOPS precision phase curve of the Super-Earth 55 Cancri e. Astronomy and Astrophysics, 2021, 653, A173.	5.1	30
63	TIC 172900988: A Transiting Circumbinary Planet Detected in One Sector of TESS Data. Astronomical Journal, 2021, 162, 234.	4.7	30
64	A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with CHEOPS. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1043-1071.	4.4	30
65	Transiting planets from WASP-South, Euler, and TRAPPIST. Astronomy and Astrophysics, 2014, 563, A143.	5.1	29
66	Emission lines in the atmosphere of the irradiated brown dwarf WD0137â˜’349B. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1728-1736.	4.4	29
67	TICs 167692429 and 220397947: the first compact hierarchical triple stars discovered with TESS. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5005-5023.	4.4	27
68	The EBLM project. Astronomy and Astrophysics, 2017, 604, L6.	5.1	26
69	WASP-128b: a transiting brown dwarf in the dynamical-tide regime. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5091-5097.	4.4	26
70	The atmosphere and architecture of WASP-189 b probed by its CHEOPS phase curve. Astronomy and Astrophysics, 2022, 659, A74.	5.1	26
71	Spi-OPS: Spitzer and CHEOPS confirm the near-polar orbit of MASCARA-1 b and reveal a hint of dayside reflection. Astronomy and Astrophysics, 2022, 658, A75.	5.1	25
72	Detectability of shape deformation in short-period exoplanets. Astronomy and Astrophysics, 2019, 621, A117.	5.1	24

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73	WASP-166b: a bloated super-Neptune transiting a V Â=Â9 star. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3067-3075.	4.4	23
74	qpower2: A fast and accurate algorithm for the computation of exoplanet transit light curves with the power-2 limb-darkening law. Astronomy and Astrophysics, 2019, 622, A33.	5.1	23
75	The compact triply eclipsing triple star TIC 209409435 discovered with TESS. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4624-4636.	4.4	23
76	Six new compact triply eclipsing triples found withTESS. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4341-4360.	4.4	23
77	A kinematically unbiased search for nearby young stars in the Northern hemisphere selected using SuperWASP rotation periods. Monthly Notices of the Royal Astronomical Society, 2015, 452, 173-192.	4.4	22
78	A multiplicity study of transiting exoplanet host stars. Astronomy and Astrophysics, 2020, 635, A73.	5.1	22
79	Detection of the tidal deformation of WASP-103b at 3 Ïƒ with CHEOPS. Astronomy and Astrophysics, 2022, 657, A52.	5.1	22
80	Five transiting hot Jupiters discovered using WASP-South,Euler, and TRAPPIST: WASP-119â€‰b, WASP-124â€‰b, WASP-126â€‰b, WASP-129â€‰b, and WASP-133â€‰b. Astronomy and Astrophysics, 2016, 591, A55.	5.1	21
81	The EBLM Project. Astronomy and Astrophysics, 2019, 625, A150.	5.1	21
82	WASP-71b: a bloated hot Jupiter in a 2.9-day, prograde orbit around an evolved F8 star. Astronomy and Astrophysics, 2013, 552, A120.	5.1	20
83	Absolute parameters for Al Phoenicis using WASP photometry. Astronomy and Astrophysics, 2016, 591, A124.	5.1	20
84	CHEOPS geometric albedo of the hot Jupiter HD 209458 b. Astronomy and Astrophysics, 2022, 659, L4.	5.1	20
85	The Surface Brightness-color Relations Based on Eclipsing Binary Stars: Toward Precision Better than 1% in Angular Diameter Predictions. Astrophysical Journal, 2017, 837, 7.	4.5	19
86	Signs of accretion in the white dwarf + brown dwarf binary NLTT5306. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2566-2574.	4.4	19
87	Discovery and characterisation of long-period eclipsing binary stars from Kepler K2 campaigns 1, 2, and 3. Astronomy and Astrophysics, 2018, 616, A38.	5.1	18
88	Exploiting timing capabilities of the CHEOPS mission with warm-Jupiter planets. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3810-3830.	4.4	18
89	A search for transiting planets around hot subdwarfs. Astronomy and Astrophysics, 2021, 650, A205.	5.1	18
90	The EBLM project. Astronomy and Astrophysics, 2019, 626, A119.	5.1	17

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91	Investigating the architecture and internal structure of the TOI-561 system planets with CHEOPS, HARPS-N, and TESS. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4551-4571.	4.4	17
92	BEBOP II: sensitivity to sub-Saturn circumbinary planets using radial-velocities. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3571-3583.	4.4	17
93	Peculiar architectures for the WASP-53 and WASP-81 planet-hosting systems. Monthly Notices of the Royal Astronomical Society, 0, , stx154.	4.4	16
94	TICâ€‰278825952: a triply eclipsing hierarchical triple system with the most intrinsically circular outer orbit. Monthly Notices of the Royal Astronomical Society, 2020, 498, 6034-6043.	4.4	16
95	BG Ind: the nearest doubly eclipsing, compact hierarchical quadruple system. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3759-3774.	4.4	16
96	BEBOP III. Observations and an independent mass measurement of Kepler-16Â(AB)Âb â€“ the first circumbinary planet detected with radial velocities. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3561-3570.	4.4	16
97	The EBLM project â€“ VIII. First results for M-dwarf mass, radius, and effective temperature measurements using CHEOPS light curves. Monthly Notices of the Royal Astronomical Society, 2021, 506, 306-322.	4.4	15
98	The atmospheric parameters of FGK stars using wavelet analysis of CORALIE spectra. Astronomy and Astrophysics, 2018, 612, A111.	5.1	14
99	Discovery of WASP-174b: Doppler tomography of a near-grazing transit. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5307-5313.	4.4	14
100	WASP-South hot Jupiters: WASP-178b, WASP-184b, WASP-185b,Âand WASP-192b. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1479-1487.	4.4	14
101	Three hot-Jupiters on the upper edge of the massâ€“radius distribution: WASP-177, WASP-181, and WASP-183. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5790-5799.	4.4	14
102	Fundamental effective temperature measurements for eclipsing binary stars â€“ I. Development of the method and application to AI Phoenicis. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2899-2909.	4.4	14
103	A solar twin in the eclipsing binary LL Aquarii. Astronomy and Astrophysics, 2016, 594, A92.	5.1	13
104	Transit timing variations of AU Microscopii b and c. Astronomy and Astrophysics, 2022, 659, L7.	5.1	12
105	WASP-180Ab: Doppler tomography of a hot Jupiter orbiting the primary star in a visual binary. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2467-2474.	4.4	11
106	WASP-147b, 160Bb, 164b, and 165b: two hot Saturns and two Jupiters, including two planets with metal-rich hosts. Monthly Notices of the Royal Astronomical Society, 2019, 482, 301-312.	4.4	11
107	The Pre-He White Dwarf in the Post-mass Transfer Binary EL CVn. Astronomical Journal, 2020, 159, 4.	4.7	11
108	A tidally tilted sectoral dipole pulsation mode in the eclipsing binary TICÂ63328020. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	11

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109	Close binary systems among very low-mass stars and brown dwarfs. Astronomische Nachrichten, 2005, 326, 944-947.	1.2	10
110	The EBLM project â€“ VII. Spinâ€“orbit alignment for the circumbinary planet host EBLM J0608-59â€‰A/TOI-1338â€‰A. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1627-1633.	4.4	10
111	The surface brightnessâ€“colour relations based on eclipsing binary stars and calibrated withGaiaEDR3. Astronomy and Astrophysics, 2021, 649, A109.	5.1	10
112	WASP-169, WASP-171, WASP-175, and WASP-182: three hot Jupiters and one bloated sub-Saturn mass planet discovered by WASP-South. Monthly Notices of the Royal Astronomical Society, 2019, 489, 2478-2487.	4.4	9
113	The WASP-South search for transiting exoplanets. EPJ Web of Conferences, 2011, 11, 01004.	0.3	8
114	Precise mass and radius measurements for the components of the bright solar-type eclipsing binary star V1094 Tauri. Astronomy and Astrophysics, 2015, 578, A25.	5.1	7
115	Note on the Power-2 Limb-darkening Law. Research Notes of the AAS, 2019, 3, 117.	0.7	7
116	Hot subdwarfs in binary systems and the nature of their unseen companions. Astrophysics and Space Science, 2010, 329, 91-99.	1.4	6
117	SuperWASP dispositions and false positive catalogue. Monthly Notices of the Royal Astronomical Society, 2019, 488, 4905-4915.	4.4	6
118	WASP-190b: Tomographic Discovery of a Transiting Hot Jupiter. Astronomical Journal, 2019, 157, 141.	4.7	6
119	The TESS light curve of the eccentric eclipsing binary 1SWASP J011351.29+314909.7 â€“ no evidence for a very hot M-dwarf companion. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 498, L15-L19.	3.3	6
120	WASP 0639-32: a new F-type subgiant/K-type main-sequence detached eclipsing binary from the WASP project. Astronomy and Astrophysics, 2018, 615, A135.	5.1	4
121	Two Transiting Hot Jupiters from the WASP Survey: WASP-150b and WASP-176b. Astronomical Journal, 2020, 159, 255.	4.7	4
122	Absolute Parameters for the F-type Eclipsing Binary BW Aquarii. Research Notes of the AAS, 2018, 2, 39.	0.7	4
123	Substellar Companions and the Formation of Hot Subdwarf Stars. , 2011, , .		3
124	ECLIPSING BINARY SCIENCE VIA THE MERGING OF TRANSIT AND DOPPLER EXOPLANET SURVEY DATAâ€”A CASE STUDY WITH THE MARVELS PILOT PROJECT AND SuperWASP. Astronomical Journal, 2011, 142, 50.	4.7	3
125	The contribution of the major planet search surveys to EChO target selection. Experimental Astronomy, 2015, 40, 577-593.	3.7	2
126	Fundamental effective temperature measurements for eclipsing binary stars â€“ III. SPIRou near-infrared spectroscopy and CHEOPS photometry of the benchmark G0V star EBLMÂJ0113+31. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2

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127	ASTRONOMY: Enhanced: A Ghostly Star Revealed in Silhouette. Science, 2006, 314, 1550-1551.	12.6	1
128	Analysis of two eclipsing hot subdwarf binaries with a low mass stellar and a brown dwarf companion. , 2010, , .		1
129	Analysis of Two Eclipsing Hot Subdwarf Binaries with a Low Mass Stellar and a Brown Dwarf Companion. , 2011, , .		1
130	SB 796: a high-velocity RRc star. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5327-5335.	4.4	1
131	Massive Unseen Companions to Hot Faint Underluminous Stars from SDSS (MUCHFUSS)â€"Status report. , 2010, , .		0
132	The HYPER-MUCHFUSS projectâ€"target selection and analysis. Astrophysics and Space Science, 2010, 329, 63-68.	1.4	0
133	The HYPER-MUCHFUSS projectâ€"the constant high-velocity population. Astrophysics and Space Science, 2010, 329, 69-76.	1.4	0
134	The MUCHFUSS Projectâ€"Searching for Massive Compact Companions to Hot Subdwarf Stars. , 2010, , .		0
135	Analysis of Two Eclipsing Hot Subdwarf Binaries with a Low Mass Stellar and a Brown Dwarf Companion. , 2010, , .		0