

Richard Wainscoat

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

8,134
citations

57758

44
h-index

46799

89
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101
all docs

101
docs citations

101
times ranked

8513
citing authors

#	ARTICLE	IF	CITATIONS
1	Progenitor and close-in circumstellar medium of type II supernova 2020fqv from high-cadence photometry and ultra-rapid UV spectroscopy. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2777-2797.	4.4	17
2	Regions of slow apparent motion of close approaching asteroids: The case of 2019 OK. Icarus, 2022, 373, 114735.	2.5	3
3	Orbital stability analysis and photometric characterization of the second Earth Trojan asteroid 2020 XL5. Nature Communications, 2022, 13, 447.	12.8	10
4	Characterizing Crosstalk within the Pan-STARRS GPC1 Camera. Publications of the Astronomical Society of the Pacific, 2022, 134, 024501.	3.1	0
5	Possible Activity in 468861 (2013 LU28). Planetary Science Journal, 2022, 3, 34.	3.6	2
6	Apophis Planetary Defense Campaign. Planetary Science Journal, 2022, 3, 123.	3.6	4
7	International Asteroid Warning Network Timing Campaign: 2019 XS. Planetary Science Journal, 2022, 3, 156.	3.6	6
8	Characterizing the Manx Candidate A/2018 V3. Planetary Science Journal, 2021, 2, 33.	3.6	2
9	The Young Supernova Experiment: Survey Goals, Overview, and Operations. Astrophysical Journal, 2021, 908, 143.	4.5	52
10	C/2014 UN ₂₇₁ (Bernardinelli-Bernstein): The Nearly Spherical Cow of Comets. Astrophysical Journal Letters, 2021, 921, L37.	8.3	21
11	Establishing Earth's Minimoons Population through Characterization of Asteroid 2020 CD ₃ . Astronomical Journal, 2020, 160, 277.	4.7	16
12	Orphan GRB Afterglow Searches with the Pan-STARRS1 COSMOS Survey. Astrophysical Journal, 2020, 897, 69.	4.5	14
13	Photometric Classification of 2315 Pan-STARRS1 Supernovae with Superphot. Astrophysical Journal, 2020, 905, 93.	4.5	15
14	SuperRAENN: A Semisupervised Supernova Photometric Classification Pipeline Trained on Pan-STARRS1 Medium-Deep Survey Supernovae. Astrophysical Journal, 2020, 905, 94.	4.5	43
15	The Pan-STARRS Data-processing System. Astrophysical Journal, Supplement Series, 2020, 251, 3.	7.7	68
16	Pan-STARRS Photometric and Astrometric Calibration. Astrophysical Journal, Supplement Series, 2020, 251, 6.	7.7	138
17	Pan-STARRS Pixel Processing: Detrending, Warping, Stacking. Astrophysical Journal, Supplement Series, 2020, 251, 4.	7.7	77
18	Pan-STARRS Pixel Analysis: Source Detection and Characterization. Astrophysical Journal, Supplement Series, 2020, 251, 5.	7.7	65

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19	The Pan-STARRS1 Database and Data Products. <i>Astrophysical Journal, Supplement Series</i> , 2020, 251, 7.	7.7	348
20	Asteroid Discovery and Light Curve Extraction Using the Hough Transform: A Rotation Period Study for Subkilometer Main-belt Asteroids. <i>Astronomical Journal</i> , 2020, 159, 25.	4.7	6
21	Search for transient optical counterparts to high-energy IceCube neutrinos with Pan-STARRS1. <i>Astronomy and Astrophysics</i> , 2019, 626, A117.	5.1	13
22	The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope. <i>Astrophysical Journal</i> , 2019, 881, 19.	4.5	67
23	Precision Distances to Dwarf Galaxies and Globular Clusters from Pan-STARRS1 3̄ RR Lyrae. <i>Astrophysical Journal</i> , 2019, 871, 49.	4.5	20
24	Searching for Super-fast Rotators Using the Pan-STARRS 1. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 6.	7.7	12
25	Disintegration of active asteroid P/2016 G1 (PANSTARRS). <i>Astronomy and Astrophysics</i> , 2019, 628, A48.	5.1	7
26	Measuring Dark Energy Properties with Photometrically Classified Pan-STARRS Supernovae. II. Cosmological Parameters. <i>Astrophysical Journal</i> , 2018, 857, 51.	4.5	116
27	Charge Diffusion Variations in Pan-STARRS1 CCDs. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 065002.	3.1	6
28	Photometry and Proper Motions of M, L, and T Dwarfs from the Pan-STARRS1 3 <i>̄</i> Survey. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 1.	7.7	86
29	The Foundation Supernova Survey: motivation, design, implementation, and first data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 193-219.	4.4	88
30	A Color-locus Method for Mapping $R_{\text{sub}V}$ Using Ensembles of Stars. <i>Astrophysical Journal</i> , 2018, 854, 79.	4.5	2
31	The Pan-STARRS1 Proper-motion Survey for Young Brown Dwarfs in Nearby Star-forming Regions. I. Taurus Discoveries and a Reddening-free Classification Method for Ultracool Dwarfs. <i>Astrophysical Journal</i> , 2018, 858, 41.	4.5	34
32	Cepheids in M31: The PAndromeda Cepheid Sample. <i>Astronomical Journal</i> , 2018, 156, 130.	4.7	15
33	Supernovae 2016bdu and 2005gl, and their link with SN 2009ip-like transients: another piece of the puzzle. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 197-218.	4.4	50
34	The Profile of the Galactic Halo from Pan-STARRS1 3̄ RR Lyrae. <i>Astrophysical Journal</i> , 2018, 859, 31.	4.5	33
35	Galactic reddening in 3D from stellar photometry â€“ an improved map. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 651-666.	4.4	337
36	Hydrogen-poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey. <i>Astrophysical Journal</i> , 2018, 852, 81.	4.5	88

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37	The Splitting of Double-component Active Asteroid P/2016 J1 (PANSTARRS). <i>Astrophysical Journal Letters</i> , 2017, 837, L3.	8.3	24
38	Beginning of Activity in Long-period Comet C/2015 ER61 (PANSTARRS). <i>Astronomical Journal</i> , 2017, 153, 206.	4.7	16
39	Optimizing search strategies for near Earth Objects: Lessons learned from Pan-STARRS1. , 2017, , .		0
40	A kilonova as the electromagnetic counterpart to a gravitational-wave source. <i>Nature</i> , 2017, 551, 75-79.	27.8	601
41	The Pan-STARRS1 Medium-deep Survey: Star Formation Quenching in Group and Cluster Environments. <i>Astrophysical Journal</i> , 2017, 845, 74.	4.5	15
42	A Search for L/T Transition Dwarfs with Pan-STARRS1 and WISE. III. Young L Dwarf Discoveries and Proper Motion Catalogs in Taurus and Scorpiusâ€“Centaurus. <i>Astrophysical Journal</i> , 2017, 837, 95.	4.5	27
43	The Geometry of the Sagittarius Stream from Pan-STARRS1 3Ï€ RR Lyrae. <i>Astrophysical Journal</i> , 2017, 850, 96.	4.5	48
44	CO-driven Activity in Comet C/2017 K2 (PANSTARRS). <i>Astrophysical Journal Letters</i> , 2017, 849, L8.	8.3	35
45	A population of highly energetic transient events in the centres of active galaxies. <i>Nature Astronomy</i> , 2017, 1, 865-871.	10.1	53
46	Measuring the Properties of Dark Energy with Photometrically Classified Pan-STARRS Supernovae. I. Systematic Uncertainty from Core-collapse Supernova Contamination. <i>Astrophysical Journal</i> , 2017, 843, 6.	4.5	47
47	Physical Properties of 15 Quasars at $z \hat{=} 6.5$. <i>Astrophysical Journal</i> , 2017, 849, 91.	4.5	230
48	Detection of Time Lags between Quasar Continuum Emission Bands Based On Pan-STARRS Light Curves. <i>Astrophysical Journal</i> , 2017, 836, 186.	4.5	50
49	Identification of partially resolved binaries in Pan-STARRS1 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3499-3515.	4.4	10
50	Pan-Planets: Searching for hot Jupiters around cool dwarfs. <i>Astronomy and Astrophysics</i> , 2016, 587, A49.	5.1	29
51	M DWARF ACTIVITY IN THE PAN-STARRS1 MEDIUM-DEEP SURVEY: FIRST CATALOG AND ROTATION PERIODS. <i>Astrophysical Journal</i> , 2016, 833, 281.	4.5	10
52	FRAGMENTATION KINEMATICS IN COMET 332P/IKEYAâ€“MURAKAMI. <i>Astrophysical Journal Letters</i> , 2016, 829, L8.	8.3	25
53	THE OPTICALâ€“INFRARED EXTINCTION CURVE AND ITS VARIATION IN THE MILKY WAY. <i>Astrophysical Journal</i> , 2016, 821, 78.	4.5	185
54	The Pan-STARRS search for Near Earth Objects. , 2016, , .		3

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55	A GLOBAL ASTROMETRIC SOLUTION FOR PAN-STARRS REFERENCED TO ICRF2. <i>Astronomical Journal</i> , 2016, 152, 53.	4.7	10
56	A SEARCH FOR AN OPTICAL COUNTERPART TO THE GRAVITATIONAL-WAVE EVENT GW151226. <i>Astrophysical Journal Letters</i> , 2016, 827, L40.	8.3	38
57	THE PAN-STARRS1 DISTANT $z \gtrsim 5.6$ QUASAR SURVEY: MORE THAN 100 QUASARS WITHIN THE FIRST GYR OF THE UNIVERSE. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 11.	7.7	266
58	THE PAN-STARRS 1 DISCOVERIES OF FIVE NEW NEPTUNE TROJANS. <i>Astronomical Journal</i> , 2016, 152, 147.	4.7	11
59	A systematic search for changing-look quasars in SDSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 389-404.	4.4	215
60	A Pan-STARRS1 study of the relationship between wide binarity and planet occurrence in the <i>Kepler</i> field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 4212-4230.	4.4	35
61	FINDING, CHARACTERIZING, AND CLASSIFYING VARIABLE SOURCES IN MULTI-EPOCH SKY SURVEYS: QSOs AND RR LYRAE IN PS1 3 σ DATA. <i>Astrophysical Journal</i> , 2016, 817, 73.	4.5	53
62	SUPERLUMINOUS SUPERNOVA SN 2015bn IN THE NEBULAR PHASE: EVIDENCE FOR THE ENGINE-POWERED EXPLOSION OF A STRIPPED MASSIVE STAR. <i>Astrophysical Journal Letters</i> , 2016, 828, L18.	8.3	88
63	The Pan-STARRS search for Near Earth Objects. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 293-298.	0.0	6
64	A THREE-DIMENSIONAL MAP OF MILKY WAY DUST. <i>Astrophysical Journal</i> , 2015, 810, 25.	4.5	408
65	A SEARCH FOR L/T TRANSITION DWARFS WITH PAN-STARRS1 AND <i>WISE</i> . II. L/T TRANSITION ATMOSPHERES AND YOUNG DISCOVERIES. <i>Astrophysical Journal</i> , 2015, 814, 118.	4.5	57
66	Machine learning for transient discovery in Pan-STARRS1 difference imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 451-466.	4.4	51
67	THE STRUCTURE AND STELLAR CONTENT OF THE OUTER DISKS OF GALAXIES: A NEW VIEW FROM THE Pan-STARRS1 MEDIUM DEEP SURVEY. <i>Astrophysical Journal</i> , 2015, 800, 120.	4.5	43
68	TOWARD CHARACTERIZATION OF THE TYPE IIP SUPERNOVA PROGENITOR POPULATION: A STATISTICAL SAMPLE OF LIGHT CURVES FROM Pan-STARRS1. <i>Astrophysical Journal</i> , 2015, 799, 208.	4.5	149
69	Selecting superluminous supernovae in faint galaxies from the first year of the Pan-STARRS1 Medium Deep Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 1206-1231.	4.4	69
70	ZOOMING IN ON THE PROGENITORS OF SUPERLUMINOUS SUPERNOVAE WITH THE <i>HST</i> . <i>Astrophysical Journal</i> , 2015, 804, 90.	4.5	86
71	DISCOVERY OF EIGHT $z \sim 6$ QUASARS FROM Pan-STARRS1. <i>Astronomical Journal</i> , 2014, 148, 14.	4.7	126
72	The superluminous supernova PS1-11ap: bridging the gap between low and high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 656-674.	4.4	64

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73	HYDROGEN-POOR SUPERLUMINOUS SUPERNOVAE AND LONG-DURATION GAMMA-RAY BURSTS HAVE SIMILAR HOST GALAXIES. <i>Astrophysical Journal</i> , 2014, 787, 138.	4.5	221
74	CHARACTERIZATION OF THE PRAESEPE STAR CLUSTER BY PHOTOMETRY AND PROPER MOTIONS WITH 2MASS, PPMXL, AND Pan-STARRS. <i>Astrophysical Journal</i> , 2014, 784, 57.	4.5	22
75	MEASURING DISTANCES AND REDDENINGS FOR A BILLION STARS: TOWARD A 3D DUST MAP FROM PAN-STARRS 1. <i>Astrophysical Journal</i> , 2014, 783, 114.	4.5	84
76	Detecting Earth's temporarily-captured natural satellites' Minimoons. <i>Icarus</i> , 2014, 241, 280-297.	2.5	35
77	MULTI-WAVELENGTH OBSERVATIONS OF COMET C/2011 L4 (PAN-STARRS). <i>Astrophysical Journal Letters</i> , 2014, 784, L23.	8.3	26
78	A MAP OF DUST REDDENING TO 4.5 kpc FROM Pan-STARRS1. <i>Astrophysical Journal</i> , 2014, 789, 15.	4.5	85
79	The Pan-STARRS Moving Object Processing System. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 357-395.	3.1	124
80	SUPER-LUMINOUS TYPE Ic SUPERNOVAE: CATCHING A MAGNETAR BY THE TAIL. <i>Astrophysical Journal</i> , 2013, 770, 128.	4.5	332
81	OUTGASSING BEHAVIOR OF C/2012 S1 (ISON) FROM 2011 SEPTEMBER TO 2013 JUNE. <i>Astrophysical Journal Letters</i> , 2013, 776, L20.	8.3	25
82	The Pan-STARRS1 Small Area Survey 2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 1825-1839.	4.4	32
83	THE EXTREMELY RED, YOUNG L DWARF PSO J318.5338+22.8603: A FREE-FLOATING PLANETARY-MASS ANALOG TO DIRECTLY IMAGED YOUNG GAS-GIANT PLANETS. <i>Astrophysical Journal Letters</i> , 2013, 777, L20.	8.3	203
84	A SEARCH FOR L/T TRANSITION DWARFS WITH Pan-STARRS1 AND WISE: DISCOVERY OF SEVEN NEARBY OBJECTS INCLUDING TWO CANDIDATE SPECTROSCOPIC VARIABLES. <i>Astrophysical Journal</i> , 2013, 777, 84.	4.5	26
85	PROPERTIES OF M31. III. CANDIDATE BEAT CEPHEIDS FROM PS1 PANDROMEDA DATA AND THEIR IMPLICATION ON METALLICITY GRADIENT. <i>Astrophysical Journal</i> , 2013, 777, 35.	4.5	12
86	PAndromeda's FIRST RESULTS FROM THE HIGH-CADENCE MONITORING OF M31 WITH Pan-STARRS 1. <i>Astronomical Journal</i> , 2012, 143, 89.	4.7	34
87	THE PHOTOMETRIC CLASSIFICATION SERVER FOR Pan-STARRS1. <i>Astrophysical Journal</i> , 2012, 746, 128.	4.5	31
88	SN 2010ay IS A LUMINOUS AND BROAD-LINED TYPE Ic SUPERNOVA WITHIN A LOW-METALLICITY HOST GALAXY. <i>Astrophysical Journal</i> , 2012, 756, 184.	4.5	42
89	ULTRALUMINOUS SUPERNOVAE AS A NEW PROBE OF THE INTERSTELLAR MEDIUM IN DISTANT GALAXIES. <i>Astrophysical Journal Letters</i> , 2012, 755, L29.	8.3	57
90	HIP 38939B: A NEW BENCHMARK T DWARF IN THE GALACTIC PLANE DISCOVERED WITH Pan-STARRS1. <i>Astrophysical Journal</i> , 2012, 755, 94.	4.5	44

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91	PHOTOMETRIC CALIBRATION OF THE FIRST 1.5 YEARS OF THE PAN-STARRS1 SURVEY. <i>Astrophysical Journal</i> , 2012, 756, 158.	4.5	311
92	THE Pan-STARRS1 PHOTOMETRIC SYSTEM. <i>Astrophysical Journal</i> , 2012, 750, 99.	4.5	729
93	DISPLAYING THE HETEROGENEITY OF THE SN 2002cx-LIKE SUBCLASS OF TYPE Ia SUPERNOVAE WITH OBSERVATIONS OF THE Pan-STARRS-1 DISCOVERED SN 2009ku. <i>Astrophysical Journal Letters</i> , 2011, 731, L11.	8.3	52
94	A SEARCH FOR HIGH PROPER MOTION T DWARFS WITH Pan-STARRS1 + 2MASS + <i>WISE</i> . <i>Astrophysical Journal Letters</i> , 2011, 740, L32.	8.3	40
95	Pan-STARRS1 DISCOVERY OF TWO ULTRALUMINOUS SUPERNOVAE AT $z < 0.9$. <i>Astrophysical Journal</i> , 2011, 743, 114.	4.5	168
96	FOUR NEW T DWARFS IDENTIFIED IN Pan-STARRS 1 COMMISSIONING DATA. <i>Astronomical Journal</i> , 2011, 142, 77.	4.7	32
97	ULTRA-BRIGHT OPTICAL TRANSIENTS ARE LINKED WITH TYPE Ic SUPERNOVAE. <i>Astrophysical Journal Letters</i> , 2010, 724, L16-L21.	8.3	217
98	Detection of Earth-impacting asteroids with the next generation all-sky surveys. <i>Icarus</i> , 2009, 203, 472-485.	2.5	32
99	Discovery of a Methane Dwarf from the I[CLC]f[CLC]A Deep Survey. <i>Astrophysical Journal</i> , 2002, 568, L107-L111.	4.5	21
100	Smooth dark spiral arms in the flocculent galaxy NGC2841. <i>Nature</i> , 1996, 381, 674-676.	27.8	33