

Giampaolo P Piotto

List of Publications by Year in descending order

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104
papers

8,546
citations

44069

48
h-index

45317

90
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105
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105
docs citations

105
times ranked

4251
citing authors

#	ARTICLE	IF	CITATIONS
1	Centauri: The Population Puzzle Goes Deeper. <i>Astrophysical Journal</i> , 2004, 605, L125-L128.	4.5	460
2	The ACS Survey of Galactic Globular Clusters. I. Overview and Clusters without Previous Hubble Space Telescope Photometry. <i>Astronomical Journal</i> , 2007, 133, 1658-1672.	4.7	413
3	THE ACS SURVEY OF GALACTIC GLOBULAR CLUSTERS. VII. RELATIVE AGES. <i>Astrophysical Journal</i> , 2009, 694, 1498-1516.	4.5	399
4	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS. I. OVERVIEW OF THE PROJECT AND DETECTION OF MULTIPLE STELLAR POPULATIONS. <i>Astronomical Journal</i> , 2015, 149, 91.	4.7	395
5	Metallicities on the Double Main Sequence of $\bar{\omega}$ Centauri Imply Large Helium Enhancement. <i>Astrophysical Journal</i> , 2005, 621, 777-784.	4.5	382
6	THE ACS SURVEY OF GALACTIC GLOBULAR CLUSTERS. IX. HORIZONTAL BRANCH MORPHOLOGY AND THE SECOND PARAMETER PHENOMENON. <i>Astrophysical Journal</i> , 2010, 708, 698-716.	4.5	374
7	THE ACS SURVEY OF GLOBULAR CLUSTERS. V. GENERATING A COMPREHENSIVE STAR CATALOG FOR EACH CLUSTER. <i>Astronomical Journal</i> , 2008, 135, 2055-2073.	4.7	319
8	A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209.	3.7	249
9	Harps-N: the new planet hunter at TNG. <i>Proceedings of SPIE</i> , 2012, , .	0.8	219
10	Discovery of Extended Blue Horizontal Branches in Two Metal-rich Globular Clusters. <i>Astrophysical Journal</i> , 1997, 484, L25-L28.	4.5	211
11	THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. <i>Astrophysical Journal</i> , 2015, 800, 135.	4.5	211
12	An Earth-sized planet with an Earth-like density. <i>Nature</i> , 2013, 503, 377-380.	27.8	199
13	New Evidence for the Complex Structure of the Red Giant Branch in $\bar{\omega}$ Centauri. <i>Astrophysical Journal</i> , 2000, 534, L83-L87.	4.5	191
14	Galactic Globular Cluster Relative Ages. <i>Astronomical Journal</i> , 2005, 130, 116-125.	4.7	171
15	The ACS Survey of Galactic Globular Clusters: M54 and Young Populations in the Sagittarius Dwarf Spheroidal Galaxy. <i>Astrophysical Journal</i> , 2007, 667, L57-L60.	4.5	171
16	THE KEPLER-10 PLANETARY SYSTEM REVISITED BY HARPS-N: A HOT ROCKY WORLD AND A SOLID NEPTUNE-MASS PLANET. <i>Astrophysical Journal</i> , 2014, 789, 154.	4.5	164
17	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS. III. A QUINTUPLE STELLAR POPULATION IN NGC 2808. <i>Astrophysical Journal</i> , 2015, 808, 51.	4.5	155
18	Transforming observational data and theoretical isochrones into the ACS/WFC Vega-mag system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 357, 1038-1048.	4.4	146

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19	Relative Frequencies of Blue Stragglers in Galactic Globular Clusters: Constraints for the Formation Mechanisms. <i>Astrophysical Journal</i> , 2004, 604, L109-L112.	4.5	135
20	Blue straggler production in globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 129-134.	4.4	121
21	NGC 6791: An Exotic Open Cluster or the Nucleus of a Tidally Disrupted Galaxy?. <i>Astrophysical Journal</i> , 2006, 643, 1151-1159.	4.5	109
22	CHARACTERIZING K2 PLANET DISCOVERIES: A SUPER-EARTH TRANSITING THE BRIGHT K DWARF HIP 116454. <i>Astrophysical Journal</i> , 2015, 800, 59.	4.5	104
23	An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141. <i>Astronomical Journal</i> , 2018, 155, 107.	4.7	103
24	Five carbon- and nitrogen-bearing species in a hot giant planet's atmosphere. <i>Nature</i> , 2021, 592, 205-208.	27.8	99
25	Three's Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets. <i>Astronomical Journal</i> , 2017, 154, 122.	4.7	90
26	The Luminosity Function of the Globular Cluster NGC 6397 near the Limit of Hydrogen Burning. <i>Astrophysical Journal</i> , 1998, 492, L37-L40.	4.5	88
27	THE ACS SURVEY OF GALACTIC GLOBULAR CLUSTERS. VIII. EFFECTS OF ENVIRONMENT ON GLOBULAR CLUSTER GLOBAL MASS FUNCTIONS. <i>Astronomical Journal</i> , 2010, 139, 476-491.	4.7	86
28	A 1.9 EARTH RADIUS ROCKY PLANET AND THE DISCOVERY OF A NON-TRANSITING PLANET IN THE KEPLER-20 SYSTEM*. <i>Astronomical Journal</i> , 2016, 152, 160.	4.7	85
29	Two massive rocky planets transiting a K-dwarf 6.5 parsecs away. <i>Nature Astronomy</i> , 2017, 1, .	10.1	84
30	Neutral Iron Emission Lines from the Dayside of KELT-9b: The GAPS Program with HARPS-N at TNG XX. <i>Astrophysical Journal Letters</i> , 2020, 894, L27.	8.3	84
31	Reaching the End of the White Dwarf Cooling Sequence in NGC 67911. <i>Astrophysical Journal</i> , 2008, 678, 1279-1291.	4.5	83
32	THE END OF THE WHITE DWARF COOLING SEQUENCE IN M4: AN EFFICIENT APPROACH. <i>Astrophysical Journal</i> , 2009, 697, 965-979.	4.5	80
33	KEPLER-21b: A ROCKY PLANET AROUND A V=8.25 mag STAR*. <i>Astronomical Journal</i> , 2016, 152, 204.	4.7	80
34	The State-of-the-art HST Astro-photometric Analysis of the Core of ω Centauri. I. The Catalog. <i>Astrophysical Journal</i> , 2017, 842, 6.	4.5	80
35	A New Spin on the Problem of Horizontal Branch Gaps: Stellar Rotation along the Blue Horizontal Branch of Globular Cluster M13. <i>Astrophysical Journal</i> , 2000, 528, 849-853.	4.5	80
36	The Main Sequence and a White Dwarf Sequence in the Globular Cluster NGC 6397. <i>Astrophysical Journal</i> , 1996, 468, 655.	4.5	76

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37	A Comparison of Deep HST Luminosity Functions of Four Globular Clusters. <i>Astronomical Journal</i> , 1997, 113, 1345.	4.7	73
38	THE <i>HUBBLE SPACE TELESCOPE</i> UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS: THE INTERNAL KINEMATICS OF THE MULTIPLE STELLAR POPULATIONS IN NGC 2808. <i>Astrophysical Journal Letters</i> , 2015, 810, L13.	8.3	68
39	The White Dwarf Cooling Sequence in NGC 6791. <i>Astrophysical Journal</i> , 2005, 624, L45-L48.	4.5	67
40	Peculiar Multimodality on the Horizontal Branch of the Globular Cluster NGC 2808. <i>Astrophysical Journal</i> , 1997, 480, L35-L38.	4.5	66
41	Precise Masses in the WASP-47 System. <i>Astronomical Journal</i> , 2017, 154, 237.	4.7	66
42	Hubble Space Telescope ASTROMETRY OF M4 AND THE GALACTIC CONSTANT V ₀ /R ₀ . <i>Astronomical Journal</i> , 2003, 126, 247-254.	4.7	65
43	A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. <i>Nature Astronomy</i> , 2019, 3, 416-423.	10.1	64
44	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
45	Hubble Space Telescope Proper Motion (HSTPROMO) Catalogs of Galactic Globular Clusters. V. The Rapid Rotation of 47 Tuc Traced and Modeled in Three Dimensions[*]. <i>Astrophysical Journal</i> , 2017, 844, 167.	4.5	60
46	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XV. The Dynamical Clock: Reading Cluster Dynamical Evolution from the Segregation Level of Blue Straggler Stars. <i>Astrophysical Journal</i> , 2018, 860, 36.	4.5	59
47	COORDINATED X-RAY AND OPTICAL OBSERVATIONS OF STAR–PLANET INTERACTION IN HD 17156. <i>Astrophysical Journal Letters</i> , 2015, 811, L2.	8.3	58
48	THE ORBIT AND MASS OF THE THIRD PLANET IN THE KEPLER-56 SYSTEM. <i>Astronomical Journal</i> , 2016, 152, 165.	4.7	58
49	The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations. <i>Astronomical Journal</i> , 2017, 153, 224.	4.7	58
50	Hubble Space Telescope Proper Motion (HSTPROMO) Catalogs of Galactic Globular Cluster. VI. Improved Data Reduction and Internal-kinematic Analysis of NGC 362. <i>Astrophysical Journal</i> , 2018, 861, 99.	4.5	58
51	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. <i>Astrophysical Journal</i> , 2016, 816, 95.	4.5	55
52	Transit detection of the long-period volatile-rich super-Earth $\hat{1}/2$ Lupi d with CHEOPS. <i>Nature Astronomy</i> , 2021, 5, 775-787.	10.1	51
53	Rotation of Hot Horizontal-Branch Stars in the Globular Clusters NGC 1904, NGC 2808, NGC 6093, and NGC 7078. <i>Astrophysical Journal</i> , 2002, 572, L71-L74.	4.5	49
54	Color-Magnitude Diagram and Luminosity Function of M4 near the Hydrogen-burning Limit. <i>Astrophysical Journal</i> , 2001, 560, L75-L78.	4.5	48

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55	Color-Magnitude Diagrams and Luminosity Functions Down to the Hydrogen-Burning Limit. III. A Preliminary Hubble Space Telescope Study of NGC 6791. <i>Astronomical Journal</i> , 2005, 130, 626-634.	4.7	48
56	What determines the stellar mass functions in globular clusters?. <i>Astronomical Journal</i> , 1993, 105, 2148.	4.7	48
57	A New Feature along the Extended Blue Horizontal Branch of NGC 6752. <i>Astrophysical Journal</i> , 2002, 576, L65-L68.	4.5	47
58	Spectroscopy and Photometry of Multiple Populations along the Asymptotic Giant Branch of NGC 2808 and NGC 6121 (M4)*. <i>Astrophysical Journal</i> , 2017, 843, 66.	4.5	44
59	The Link between Chemical Anomalies along the Red Giant Branch and the Horizontal Branch Extension in Globular Clusters. <i>Astrophysical Journal</i> , 2007, 671, L125-L128.	4.5	43
60	Combining low- to high-resolution transit spectroscopy of HD 189733b. <i>Astronomy and Astrophysics</i> , 2018, 612, A53.	5.1	42
61	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS. VII. IMPLICATIONS FROM THE NEARLY UNIVERSAL NATURE OF HORIZONTAL BRANCH DISCONTINUITIES*. <i>Astrophysical Journal</i> , 2016, 822, 44.	4.5	41
62	The State-of-the-art HST Astro-photometric Analysis of the Core of ω Centauri. III. The Main Sequence's Multiple Populations Galore*. <i>Astrophysical Journal</i> , 2017, 844, 164.	4.5	38
63	THE ACS SURVEY OF GALACTIC GLOBULAR CLUSTERS. XI. THE THREE-DIMENSIONAL ORIENTATION OF THE SAGITTARIUS DWARF SPHEROIDAL GALAXY AND ITS GLOBULAR CLUSTERS. <i>Astrophysical Journal</i> , 2011, 743, 20.	4.5	36
64	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XVIII. Proper-motion Kinematics of Multiple Stellar Populations in the Core Regions of NGC 6352. <i>Astrophysical Journal</i> , 2019, 873, 109.	4.5	36
65	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS. VIII. PRELIMINARY PUBLIC CATALOG RELEASE. <i>Astronomical Journal</i> , 2017, 153, 19.	4.7	35
66	Metallicity Variations in the Type II Globular Cluster NGC 6934*. <i>Astrophysical Journal</i> , 2018, 859, 81.	4.5	33
67	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
68	HOT HORIZONTAL BRANCH STARS IN ω CENTAURI: CLUES ABOUT THEIR ORIGIN FROM THE CLUSTER COLOR MAGNITUDE DIAGRAM. <i>Astrophysical Journal</i> , 2009, 702, 1530-1535.	4.5	32
69	A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with CHEOPS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1043-1071.	4.4	30
70	A Kinematic View of NGC 1261: Structural Parameters, Internal Dispersion, Absolute Proper Motion, and Blue Straggler Stars. <i>Astrophysical Journal</i> , 2020, 895, 15.	4.5	26
71	TOI-1634 b: An Ultra-short-period Keystone Planet Sitting inside the M-dwarf Radius Valley. <i>Astronomical Journal</i> , 2021, 162, 79.	4.7	25
72	Diagnosing aerosols in extrasolar giant planets with cross-correlation function of water bands. <i>Astronomy and Astrophysics</i> , 2018, 619, A3.	5.1	25

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73	ATMOSPHERIC PARAMETERS AND METALLICITIES FOR 2191 STARS IN THE GLOBULAR CLUSTER M4. <i>Astronomical Journal</i> , 2014, 147, 25.	4.7	23
74	THE ACS SURVEY OF GALACTIC GLOBULAR CLUSTERS. VI. NGC 6366: A HEAVILY STRIPPED GALACTIC GLOBULAR CLUSTER. <i>Astronomical Journal</i> , 2009, 137, 246-256.	4.7	22
75	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XX. Ages of Single and Multiple Stellar Populations in Seven Bulge Globular Clusters. <i>Astrophysical Journal</i> , 2020, 891, 37.	4.5	22
76	HAYDN. <i>Experimental Astronomy</i> , 2021, 51, 963-1001.	3.7	22
77	Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks. <i>Astronomical Journal</i> , 2022, 164, 49.	4.7	20
78	UV INSIGHTS INTO THE COMPLEX POPULATIONS OF M87 GLOBULAR CLUSTERS. <i>Astrophysical Journal</i> , 2015, 805, 178.	4.5	19
79	The State-of-the-art HST Astro-photometric Analysis of the Core of ω Centauri. II. Differential-reddening Map. <i>Astrophysical Journal</i> , 2017, 842, 7.	4.5	19
80	An Accurate Mass Determination for Kepler-1655b, a Moderately Irradiated World with a Significant Volatile Envelope. <i>Astronomical Journal</i> , 2018, 155, 203.	4.7	19
81	An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star. <i>Astronomical Journal</i> , 2019, 158, 165.	4.7	14
82	K2-291b: A Rocky Super-Earth in a 2.2 day Orbit. <i>Astronomical Journal</i> , 2019, 157, 116.	4.7	13
83	WISEP J060738.65+242953.4: A NEARBY POLE-ON L8 BROWN DWARF WITH RADIO EMISSION. <i>Astronomical Journal</i> , 2016, 152, 123.	4.7	12
84	Hunting for intermediate-mass black holes in globular clusters: an astrometric study of NGC 6441. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1490-1506.	4.4	12
85	Observations of multiple populations in star clusters. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 233-244.	0.0	11
86	Using HARPS-N to characterize the long-period planets in the PH-2 and Kepler-103 systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5103-5121.	4.4	10
87	PLATO: a multiple telescope spacecraft for exo-planets hunting. <i>Proceedings of SPIE</i> , 2016, , .	0.8	8
88	The deep luminosity function of the globular cluster M30. <i>Astrophysical Journal</i> , 1990, 350, 662.	4.5	8
89	A one meter class eye for the PLANetary Transit and Oscillation spacecraft. <i>Acta Astronautica</i> , 2015, 115, 18-23.	3.2	7
90	A HOT HORIZONTAL BRANCH STAR WITH A CLOSE K-TYPE MAIN-SEQUENCE COMPANION. <i>Astrophysical Journal Letters</i> , 2015, 812, L31.	8.3	6

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91	PLATO: the ESA mission for exo-planets discovery. , 2018, , .		6
92	An update of the on-sky performance of the layer-oriented wavefront sensor for MAD. Proceedings of SPIE, 2010, , .	0.8	5
93	THE ACS SURVEY OF GLOBULAR CLUSTERS. XIII. PHOTOMETRIC CALIBRATION IN COMPARISON WITH STETSON STANDARDS. Astrophysical Journal, Supplement Series, 2014, 211, 1.	7.7	5
94	Galactic Globular Cluster Relative Ages: Clues on the Milky Way Formation and Evolution. Astrophysics and Space Science, 2002, 281, 125-126.	1.4	4
95	PLATO: detailed design of the telescope optical units. , 2010, , .		4
96	Simulations of exoplanets detection obtained with a high-contrast imaging instrument: CHEOPS. , 2004, , .		3
97	Shaping the PSF to nearly top-hat profile: CHEOPS laboratory results. Proceedings of SPIE, 2014, , .	0.8	3
98	The PLATO opto-mechanical unit prototyping and AIV phase. Proceedings of SPIE, 2010, , .	0.8	2
99	Exploiting the transit timing capabilities of Ariel. Experimental Astronomy, 2022, 53, 635-653.	3.7	2
100	Multiple populations in globular clusters. Proceedings of the International Astronomical Union, 2006, 2, 434-435.	0.0	1
101	Observational Evidence of Multiple Stellar Populations in Globular Clusters. Proceedings of the International Astronomical Union, 2007, 3, 141-150.	0.0	1
102	Observations of globular clusters with FLAMES. Proceedings of the International Astronomical Union, 2005, 1, 357-362.	0.0	0
103	Environmental Effects on the Globular Cluster Blue Straggler Population: a Statistical Approach. Proceedings of the International Astronomical Union, 2007, 3, 369-370.	0.0	0
104	The Globular Cluster Relative Ages and the Milky Way Formation Time Scale. , 2009, , .		0