

Brian Chaboyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8663237/publications.pdf>

Version: 2024-02-01

102
papers

7,911
citations

66343

42
h-index

48315

88
g-index

103
all docs

103
docs citations

103
times ranked

4382
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dartmouth Stellar Evolution Database. <i>Astrophysical Journal</i> , Supplement Series, 2008, 178, 89-101.	7.7	1,397
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 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
5	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
6	Discovery of a Jupiter/Saturn Analog with Gravitational Microlensing. <i>Science</i> , 2008, 319, 927-930.	12.6	311
7	Age Estimates of Globular Clusters in the Milky Way: Constraints on Cosmology. <i>Science</i> , 2003, 299, 65-69.	12.6	253
8	The Age of Globular Clusters in Light of Hipparcos: Resolving the Age Problem?. <i>Astrophysical Journal</i> , 1998, 494, 96-110.	4.5	252
9	The ACS Survey of Galactic Globular Clusters. II. Stellar Evolution Tracks, Isochrones, Luminosity Functions, and Synthetic Horizontal-Branch Models. <i>Astronomical Journal</i> , 2007, 134, 376-390.	4.7	247
10	The ACS Survey of Galactic Globular Clusters. III. The Double Subgiant Branch of NGC 1851. <i>Astrophysical Journal</i> , 2008, 673, 241-250.	4.5	238
11	Stellar models with microscopic diffusion and rotational mixing. 1: Application to the Sun. <i>Astrophysical Journal</i> , 1995, 441, 865.	4.5	199
12	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
13	MASSES AND ORBITAL CONSTRAINTS FOR THE OGLE-2006-BLG-109Lb,c JUPITER/SATURN ANALOG PLANETARY SYSTEM. <i>Astrophysical Journal</i> , 2010, 713, 837-855.	4.5	145
14	Taking the Measure of the Universe: Precision Astrometry with SIM PlanetQuest. <i>Publications of the Astronomical Society of the Pacific</i> , 2008, 120, 38-88.	3.1	142
15	Globular Cluster Ages and the Formation of the Galactic Halo. <i>Astrophysical Journal</i> , 1996, 459, 558.	4.5	133
16	MAGNETIC INHIBITION OF CONVECTION AND THE FUNDAMENTAL PROPERTIES OF LOW-MASS STARS. I. STARS WITH A RADIATIVE CORE. <i>Astrophysical Journal</i> , 2013, 779, 183.	4.5	126
17	DISTANCE SCALE ZERO POINTS FROM GALACTIC RR LYRAE STAR PARALLAXES. <i>Astronomical Journal</i> , 2011, 142, 187.	4.7	115
18	REEVALUATING THE MASS-RADIUS RELATION FOR LOW-MASS, MAIN-SEQUENCE STARS. <i>Astrophysical Journal</i> , 2012, 757, 42.	4.5	110

#	ARTICLE	IF	CITATIONS
19	Stellar Pollution in the Solar Neighborhood. <i>Astrophysical Journal</i> , 2001, 555, 801-815.	4.5	94
20	The Age, Extinction, and Distance of the Old, Metal-rich Open Cluster NGC 6791. <i>Astronomical Journal</i> , 1999, 117, 1360-1374.	4.7	89
21	MAGNETIC INHIBITION OF CONVECTION AND THE FUNDAMENTAL PROPERTIES OF LOW-MASS STARS. II. FULLY CONVECTIVE MAIN-SEQUENCE STARS. <i>Astrophysical Journal</i> , 2014, 789, 53.	4.5	88
22	Are Stars with Planets Polluted?. <i>Astrophysical Journal</i> , 2002, 566, 442-451.	4.5	88
23	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
24	Stellar Population Models and Individual Element Abundances. I. Sensitivity of Stellar Evolution Models. <i>Astrophysical Journal</i> , 2007, 666, 403-412.	4.5	85
25	Heavy-Element Diffusion in Metal-poor Stars. <i>Astrophysical Journal</i> , 2001, 562, 521-527.	4.5	85
26	SELF-CONSISTENT MAGNETIC STELLAR EVOLUTION MODELS OF THE DETACHED, SOLAR-TYPE ECLIPSING BINARY EF AQUARI. <i>Astrophysical Journal</i> , 2012, 761, 30.	4.5	80
27	Absolute ages of globular clusters and the age of the universe. <i>Astrophysical Journal</i> , 1995, 444, L9.	4.5	76
28	CCD Photometry of the Classic Second-Parameter Globular Clusters M3 and M13. <i>Astronomical Journal</i> , 2001, 122, 3219-3230.	4.7	76
29	ON USING THE COLOR-MAGNITUDE DIAGRAM MORPHOLOGY OF M67 TO TEST SOLAR ABUNDANCES. <i>Astrophysical Journal</i> , 2010, 718, 1378-1387.	4.5	68
30	STELLAR POPULATION MODELS AND INDIVIDUAL ELEMENT ABUNDANCES. II. STELLAR SPECTRA AND INTEGRATED LIGHT MODELS. <i>Astrophysical Journal</i> , 2009, 694, 902-923.	4.5	63
31	Globular Cluster Distance Determinations. <i>Astrophysics and Space Science Library</i> , 1999, , 111-124.	2.7	62
32	THE RR LYRAE VARIABLES AND HORIZONTAL BRANCH OF NGC 6656 (M22). <i>Astronomical Journal</i> , 2013, 146, 119.	4.7	59
33	Ages of globular clusters and helium diffusion. <i>Astrophysical Journal</i> , 1992, 394, 515.	4.5	57
34	Not All Stars Are the Sun: Empirical Calibration of the Mixing Length for Metal-poor Stars Using One-dimensional Stellar Evolution Models. <i>Astrophysical Journal</i> , 2018, 856, 10.	4.5	56
35	The Relative Age of the Thin and Thick Galactic Disks. <i>Astrophysical Journal</i> , 2000, 544, 818-829.	4.5	54
36	ACCURATE LOW-MASS STELLAR MODELS OF KOI-126. <i>Astrophysical Journal Letters</i> , 2011, 740, L25.	8.3	53

#	ARTICLE	IF	CITATIONS
37	Absolute Ages and Distances of 22 GCs Using Monte Carlo Main-sequence Fitting. <i>Astrophysical Journal</i> , 2017, 838, 162.	4.5	51
38	The age of the universe. <i>Physics Reports</i> , 1998, 307, 23-30.	25.6	50
39	Theoretical Uncertainties in Red Giant Branch Evolution: The Red Giant Branch Bump. <i>Astrophysical Journal</i> , 2006, 641, 1102-1112.	4.5	49
40	The OPAL Equation of State and Low-Metallicity Isochrones. <i>Astrophysical Journal</i> , 1995, 454, 767.	4.5	48
41	Classically and Asteroseismically Constrained 1D Stellar Evolution Models of $\hat{\pm}$ Centauri A and B Using Empirical Mixing Length Calibrations. <i>Astrophysical Journal</i> , 2018, 864, 99.	4.5	45
42	DISTANCE TO THE SAGITTARIUS DWARF GALAXY USING MACHO PROJECT RR LYRAE STARS. <i>Astronomical Journal</i> , 2009, 137, 4478-4486.	4.7	44
43	Theoretical Uncertainties in the Subgiant Mass-Age Relation and the Absolute Age of $\hat{\%}$ Centauri. <i>Astrophysical Journal</i> , 2002, 567, L45-L48.	4.5	42
44	Li-7 abundances in halo stars: Testing stellar evolution models and the primordial Li-7 abundance. <i>Astrophysical Journal</i> , 1994, 433, 510.	4.5	41
45	The effect of helium diffusion on the ages of globular clusters. <i>Astrophysical Journal</i> , 1992, 388, 372.	4.5	40
46	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
47	On the Use of Field RR Lyrae as Galactic Probes. II. A New \hat{S} Calibration to Estimate Their Metallicity*. <i>Astrophysical Journal</i> , 2021, 908, 20.	4.5	34
48	METALLICITY ANALYSIS OF MACHO GALACTIC BULGE RRO LYRAE STARS FROM THEIR LIGHT CURVES. <i>Astronomical Journal</i> , 2008, 136, 2441-2452.	4.7	33
49	On the Use of Field RR Lyrae as Galactic Probes. I. The Oosterhoff Dichotomy Based on Fundamental Variables*. <i>Astrophysical Journal</i> , 2019, 882, 169.	4.5	32
50	Star Formation and Chemical Evolution in Damped LY alpha Clouds. <i>Astrophysical Journal</i> , 1996, 462, 57.	4.5	32
51	Exploring the nature and synchronicity of early cluster formation in the Large Magellanic Cloud $\hat{\text{€}}$ II. Relative ages and distances for six ancient globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3347-3358.	4.4	31
52	Starbursts versus Truncated Star Formation in Nearby Clusters of Galaxies. <i>Astronomical Journal</i> , 2001, 121, 793-807.	4.7	31
53	The Age of the Inner Halo Globular Cluster NGC 6652. <i>Astronomical Journal</i> , 2000, 120, 3102-3110.	4.7	30
54	The Pulsation Properties of Procyon A. <i>Astrophysical Journal</i> , 1999, 525, L41-L44.	4.5	29

#	ARTICLE	IF	CITATIONS
55	THE EXTINCTION TOWARD THE GALACTIC BULGE FROM RR LYRAE STARS. <i>Astronomical Journal</i> , 2008, 135, 631-636.	4.7	29
56	On a New Method to Estimate the Distance, Reddening, and Metallicity of RR Lyrae Stars Using Optical/Near-infrared (B, V, I, J, H, K) Mean Magnitudes: ω Centauri as a First Test Case. <i>Astrophysical Journal</i> , 2019, 870, 115.	4.5	27
57	The RSA survey of dwarf galaxies, 1: Optical photometry. <i>Astronomical Journal</i> , 1994, 108, 1209.	4.7	27
58	The Evolution of the Lithium Abundances of Solar-Type Stars.V. K Dwarfs in the Hyades. <i>Astronomical Journal</i> , 1995, 110, 729.	4.7	27
59	From Canonical to Enhanced Extra Mixing in Low-Mass Red Giants: Tidally Locked Binaries. <i>Astrophysical Journal</i> , 2006, 641, 1087-1101.	4.5	23
60	Revised age for CM Draconis and WD 1633+572. <i>Astronomy and Astrophysics</i> , 2014, 571, A70.	5.1	23
61	BVI Photometry and the Luminosity Functions of the Globular Cluster M92. <i>Astronomical Journal</i> , 2007, 133, 2787-2798.	4.7	22
62	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
63	Metallicity of Galactic RR Lyrae from Optical and Infrared Light Curves. I. Period-Metallicity Relations for Fundamental-mode RR Lyrae. <i>Astrophysical Journal</i> , 2021, 912, 144.	4.5	22
64	The Effect of Cluster Environment on Galaxy Evolution in the Pegasus I Cluster. <i>Astronomical Journal</i> , 2007, 133, 1104-1124.	4.7	21
65	Testing Metal-poor Stellar Models and Isochrones with HST Parallaxes of Metal-poor Stars. <i>Astrophysical Journal</i> , 2017, 835, 152.	4.5	21
66	THE DETERMINATION OF REDDENING FROM INTRINSIC $V-R$ COLORS OF RR LYRAE STARS. <i>Astronomical Journal</i> , 2010, 139, 415-424.	4.7	20
67	AN OOSTERHOFF ANALYSIS OF THE GALACTIC BULGE FIELD RR LYRAE STARS: IMPLICATIONS ON THEIR ABSOLUTE MAGNITUDES. <i>Astronomical Journal</i> , 2009, 138, 1284-1291.	4.7	19
68	On the Use of Field RR Lyrae as Galactic Probes. III. The α -element Abundances*. <i>Astrophysical Journal</i> , 2021, 914, 10.	4.5	18
69	UBVICCD Photometry of the Old Open Cluster Berkeley 17. <i>Astronomical Journal</i> , 2006, 131, 1565-1573.	4.7	17
70	Exploring the nature and synchronicity of early cluster formation in the Large Magellanic Cloud - IV. Evidence for multiple populations in Hodge 11 and NGC 2210. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5581-5599.	4.4	17
71	On the Use of Field RR Lyrae As Galactic Probes: IV. New Insights Into and Around the Oosterhoff Dichotomy*. <i>Astrophysical Journal</i> , 2021, 919, 118.	4.5	16
72	INVESTIGATING THE CONSISTENCY OF STELLAR EVOLUTION MODELS WITH GLOBULAR CLUSTER OBSERVATIONS VIA THE RED GIANT BRANCH BUMP. <i>Astrophysical Journal</i> , 2015, 814, 142.	4.5	15

#	ARTICLE	IF	CITATIONS
73	Infrared <i>K</i> -band Photometry of Field RR Lyrae Variable Stars. <i>Astronomical Journal</i> , 2019, 158, 105.	4.7	15
74	Metallicities from high-resolution spectra of 49 RR Lyrae variables. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4719-4733.	4.4	14
75	High-resolution Spectroscopic Abundances of Red Giant Branch Stars in NGC 6681 [*] . <i>Astrophysical Journal</i> , 2017, 846, 23.	4.5	13
76	The primordial abundance of Li-6 and Be-9. <i>Astrophysical Journal</i> , 1994, 432, L47.	4.5	10
77	High-resolution Spectroscopic Abundances of Red Giant Branch Stars in NGC 6584 and NGC 7099. <i>Astrophysical Journal</i> , 2018, 856, 130.	4.5	9
78	The age of the universe. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1996, 51, 10-19.	0.4	8
79	The Impact of Pollution on Stellar Evolution Models. <i>Astrophysical Journal</i> , 2003, 596, 496-500.	4.5	8
80	Stellar Pollution and [Fe/H] in the Hyades. <i>Astrophysical Journal</i> , 2003, 596, L101-L104.	4.5	8
81	On the Metamorphosis of the Bailey Diagram for RR Lyrae Stars. <i>Astrophysical Journal Letters</i> , 2020, 896, L15.	8.3	8
82	The young open cluster NGC 2129. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 867-873.	4.4	7
83	A Differential Abundance Analysis of Very Metal-poor Stars* ^{â€} . <i>Astrophysical Journal</i> , 2017, 838, 90.	4.5	7
84	Metallicity of Galactic RR Lyrae from Optical and Infrared Light Curves. II. Periodâ€Fourierâ€Metallicity Relations for First Overtone RR Lyrae. <i>Astrophysical Journal</i> , 2022, 931, 131.	4.5	7
85	A New Color-Magnitude Diagram for Palomar 11. <i>Astronomical Journal</i> , 2006, 131, 2538-2542.	4.7	6
86	Are the Double-mode Bulge RR Lyrae Stars with Identical Period Ratios the Relic of a Disrupted Stellar System?. <i>Astrophysical Journal Letters</i> , 2019, 877, L17.	8.3	6
87	On the Use of Field RR Lyrae as Galactic Probes. V. Optical and Radial Velocity Curve Templates. <i>Astrophysical Journal</i> , 2021, 919, 85.	4.5	6
88	Low-luminosity companions of early-type galaxies. <i>Publications of the Astronomical Society of the Pacific</i> , 1992, 104, 57.	3.1	6
89	Gravitational radiation observations with an orbital ring laser gyroscope. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 132, 391-398.	2.1	5
90	THE ACS SURVEY OF GLOBULAR CLUSTERS. XIII. PHOTOMETRIC CALIBRATION IN COMPARISON WITH STETSON STANDARDS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 1.	7.7	5

#	ARTICLE	IF	CITATIONS
91	Peculiar morphologies of four IRAS galaxies. Publications of the Astronomical Society of the Pacific, 1991, 103, 35.	3.1	4
92	Distances and ages of globular clusters. Proceedings of the International Astronomical Union, 2007, 3, 440-442.	0.0	3
93	GROUND-BASED NEAR-INFRARED CENSUS FOR YOUNG STAR CLUSTERS IN THE DWARF STARBURST GALAXY NGC 1569. Journal of the Korean Astronomical Society, 2010, 43, 1-8.	1.5	3
94	Do Magnetic Fields Actually Inflate Low-Mass Stars?. Proceedings of the International Astronomical Union, 2013, 9, 150-153.	0.0	2
95	BVI Photometry and the Red Giant Branch Luminosity Function of M15. Publications of the Astronomical Society of the Pacific, 2014, , 000-000.	3.1	2
96	Effects of Microscopic Diffusion on the Evolution of Metal-Poor Stars. EAS Publications Series, 2007, 26, 17-23.	0.3	1
97	Exploring the nature and synchronicity of early cluster formation in the Large Magellanic Cloud "V. Multiple populations in ancient globular clusters. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1946-1955.	4.4	1
98	Relative Ages from Horizontal-Branch Morphology: Revisited. Symposium - International Astronomical Union, 2002, 207, 110-112.	0.1	0
99	Testing Stellar Evolution Models of Metal-Poor Stars. AIP Conference Proceedings, 2005, , .	0.4	0
100	The Globular Cluster Relative Ages and the Milky Way Formation Time Scale. , 2009, , .		0
101	An Oosterhoff Analysis of the Galactic Bulge Field RR Lyrae stars: Implications On Their Absolute Magnitudes. , 2009, , .		0
102	Parallaxes of metal-poor main-sequence stars. Proceedings of the International Astronomical Union, 2012, 8, 87-90.	0.0	0