

Brian Chaboyer

List of Publications by Year in descending order

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102
papers

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66343

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4382
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#	ARTICLE	IF	CITATIONS
1	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
2	On the Use of Field RR Lyrae as Galactic Probes. II. A New $\hat{\nu}$ S Calibration to Estimate Their Metallicity*. <i>Astrophysical Journal</i> , 2021, 908, 20.	4.5	34
3	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
4	Metallicity of Galactic RR Lyrae from Optical and Infrared Light Curves. I. Periodâ€“Fourierâ€“Metallicity Relations for Fundamental-mode RR Lyrae. <i>Astrophysical Journal</i> , 2021, 912, 144.	4.5	22
5	On the Use of Field RR Lyrae as Galactic Probes. III. The $\hat{\nu}$ -element Abundances*. <i>Astrophysical Journal</i> , 2021, 914, 10.	4.5	18
6	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
7	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
8	Exploring the nature and synchronicity of early cluster formation in the Large Magellanic Cloud â€“ V. Multiple populations in ancient globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1946-1955.	4.4	1
9	On the Metamorphosis of the Bailey Diagram for RR Lyrae Stars. <i>Astrophysical Journal Letters</i> , 2020, 896, L15.	8.3	8
10	Infrared K -band Photometry of Field RR Lyrae Variable Stars. <i>Astronomical Journal</i> , 2019, 158, 105.	4.7	15
11	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
12	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: ν Centauri as a First Test Case. <i>Astrophysical Journal</i> , 2019, 870, 115.	4.5	27
13	Exploring the nature and synchronicity of early cluster formation in the Large Magellanic Cloud â€“ 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
14	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
15	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
16	Classically and Asteroseismically Constrained 1D Stellar Evolution Models of ν Centauri A and B Using Empirical Mixing Length Calibrations. <i>Astrophysical Journal</i> , 2018, 864, 99.	4.5	45
17	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
18	Testing Metal-poor Stellar Models and Isochrones with HST Parallaxes of Metal-poor Stars. <i>Astrophysical Journal</i> , 2017, 835, 152.	4.5	21

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19	Absolute Ages and Distances of 22 GCs Using Monte Carlo Main-sequence Fitting. <i>Astrophysical Journal</i> , 2017, 838, 162.	4.5	51
20	A Differential Abundance Analysis of Very Metal-poor Stars* [∗] . <i>Astrophysical Journal</i> , 2017, 838, 90.	4.5	7
21	High-resolution Spectroscopic Abundances of Red Giant Branch Stars in NGC 6681 [∗] [∗] . <i>Astrophysical Journal</i> , 2017, 846, 23.	4.5	13
22	Exploring the nature and synchronicity of early cluster formation in the Large Magellanic Cloud “ 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
23	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
24	Revised age for CM Draconis and WD 1633+572. <i>Astronomy and Astrophysics</i> , 2014, 571, A70.	5.1	23
25	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
26	BVIPhotometry and the Red Giant Branch Luminosity Function of M15. <i>Publications of the Astronomical Society of the Pacific</i> , 2014, , 000-000.	3.1	2
27	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
28	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
29	THE RR LYRAE VARIABLES AND HORIZONTAL BRANCH OF NGC 6656 (M22) [,] [,] . <i>Astronomical Journal</i> , 2013, 146, 119.	4.7	59
30	Do Magnetic Fields Actually Inflate Low-Mass Stars?. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 150-153.	0.0	2
31	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
32	REEVALUATING THE MASS-RADIUS RELATION FOR LOW-MASS, MAIN-SEQUENCE STARS. <i>Astrophysical Journal</i> , 2012, 757, 42.	4.5	110
33	Parallaxes of metal-poor main-sequence stars. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 87-90.	0.0	0
34	ACCURATE LOW-MASS STELLAR MODELS OF KOI-126. <i>Astrophysical Journal Letters</i> , 2011, 740, L25.	8.3	53
35	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
36	DISTANCE SCALE ZERO POINTS FROM GALACTIC RR LYRAE STAR PARALLAXES. <i>Astronomical Journal</i> , 2011, 142, 187.	4.7	115

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37	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
38	ON USING THE COLOR-MAGNITUDE DIAGRAM MORPHOLOGY OF M67 TO TEST SOLAR ABUNDANCES. <i>Astrophysical Journal</i> , 2010, 718, 1378-1387.	4.5	68
39	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
40	THE DETERMINATION OF REDDENING FROM INTRINSIC $V-R$ COLORS OF RR LYRAE STARS. <i>Astronomical Journal</i> , 2010, 139, 415-424.	4.7	20
41	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
42	GROUND-BASED NEAR-INFRARED CENSUS FOR YOUNG STAR CLUSTERS IN THE DWARF STARBURST GALAXY NGC 1569. <i>Journal of the Korean Astronomical Society</i> , 2010, 43, 1-8.	1.5	3
43	THE ACS SURVEY OF GALACTIC GLOBULAR CLUSTERS. VII. RELATIVE AGES. <i>Astrophysical Journal</i> , 2009, 694, 1498-1516.	4.5	399
44	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
45	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
46	The Globular Cluster Relative Ages and the Milky Way Formation Time Scale. , 2009, , .		0
47	An Oosterhoff Analysis of the Galactic Bulge Field RR Lyrae stars: Implications On Their Absolute Magnitudes. , 2009, , .		0
48	DISTANCE TO THE SAGITTARIUS DWARF GALAXY USING MACHO PROJECT RR LYRAE STARS. <i>Astronomical Journal</i> , 2009, 137, 4478-4486.	4.7	44
49	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
50	Taking the Measure of the Universe: Precision Astrometry with <i>SIM PlanetQuest</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2008, 120, 38-88.	3.1	142
51	METALLICITY ANALYSIS OF MACHO GALACTIC BULGE RR LYRAE STARS FROM THEIR LIGHT CURVES. <i>Astronomical Journal</i> , 2008, 136, 2441-2452.	4.7	33
52	Discovery of a Jupiter/Saturn Analog with Gravitational Microlensing. <i>Science</i> , 2008, 319, 927-930.	12.6	311
53	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
54	THE EXTINCTION TOWARD THE GALACTIC BULGE FROM RR LYRAE STARS. <i>Astronomical Journal</i> , 2008, 135, 631-636.	4.7	29

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55	The Dartmouth Stellar Evolution Database. <i>Astrophysical Journal</i> , Supplement Series, 2008, 178, 89-101.	7.7	1,397
56	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
57	Effects of Microscopic Diffusion on the Evolution of Metal-Poor Stars. <i>EAS Publications Series</i> , 2007, 26, 17-23.	0.3	1
58	The Effect of Cluster Environment on Galaxy Evolution in the Pegasus I Cluster. <i>Astronomical Journal</i> , 2007, 133, 1104-1124.	4.7	21
59	Stellar Population Models and Individual Element Abundances. I. Sensitivity of Stellar Evolution Models. <i>Astrophysical Journal</i> , 2007, 666, 403-412.	4.5	85
60	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
61	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
62	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
63	BVI Photometry and the Luminosity Functions of the Globular Cluster M92. <i>Astronomical Journal</i> , 2007, 133, 2787-2798.	4.7	22
64	Distances and ages of globular clusters. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 440-442.	0.0	3
65	UBV _{ICCD} Photometry of the Old Open Cluster Berkeley 17. <i>Astronomical Journal</i> , 2006, 131, 1565-1573.	4.7	17
66	Theoretical Uncertainties in Red Giant Branch Evolution: The Red Giant Branch Bump. <i>Astrophysical Journal</i> , 2006, 641, 1102-1112.	4.5	49
67	A New Color-Magnitude Diagram for Palomar 11. <i>Astronomical Journal</i> , 2006, 131, 2538-2542.	4.7	6
68	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
69	The young open cluster NGC 2129. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 867-873.	4.4	7
70	Testing Stellar Evolution Models of Metal-Poor Stars. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
71	Age Estimates of Globular Clusters in the Milky Way: Constraints on Cosmology. <i>Science</i> , 2003, 299, 65-69.	12.6	253
72	The Impact of Pollution on Stellar Evolution Models. <i>Astrophysical Journal</i> , 2003, 596, 496-500.	4.5	8

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73	Stellar Pollution and [Fe/H] in the Hyades. <i>Astrophysical Journal</i> , 2003, 596, L101-L104.	4.5	8
74	Relative Ages from Horizontal-Branch Morphology: Revisited. <i>Symposium - International Astronomical Union</i> , 2002, 207, 110-112.	0.1	0
75	Are Stars with Planets Polluted?. <i>Astrophysical Journal</i> , 2002, 566, 442-451.	4.5	88
76	Theoretical Uncertainties in the Subgiant Mass-Age Relation and the Absolute Age of τ Centauri. <i>Astrophysical Journal</i> , 2002, 567, L45-L48.	4.5	42
77	Starbursts versus Truncated Star Formation in Nearby Clusters of Galaxies. <i>Astronomical Journal</i> , 2001, 121, 793-807.	4.7	31
78	Stellar Pollution in the Solar Neighborhood. <i>Astrophysical Journal</i> , 2001, 555, 801-815.	4.5	94
79	Heavy-Element Diffusion in Metal-poor Stars. <i>Astrophysical Journal</i> , 2001, 562, 521-527.	4.5	85
80	CCD Photometry of the Classic Second-Parameter Globular Clusters M3 and M13. <i>Astronomical Journal</i> , 2001, 122, 3219-3230.	4.7	76
81	The Age of the Inner Halo Globular Cluster NGC 6652. <i>Astronomical Journal</i> , 2000, 120, 3102-3110.	4.7	30
82	The Relative Age of the Thin and Thick Galactic Disks. <i>Astrophysical Journal</i> , 2000, 544, 818-829.	4.5	54
83	The Pulsation Properties of Procyon A. <i>Astrophysical Journal</i> , 1999, 525, L41-L44.	4.5	29
84	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
85	Globular Cluster Distance Determinations. <i>Astrophysics and Space Science Library</i> , 1999, , 111-124.	2.7	62
86	The age of the universe. <i>Physics Reports</i> , 1998, 307, 23-30.	25.6	50
87	The Age of Globular Clusters in Light of Hipparcos: Resolving the Age Problem?. <i>Astrophysical Journal</i> , 1998, 494, 96-110.	4.5	252
88	The age of the universe. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1996, 51, 10-19.	0.4	8
89	Globular Cluster Ages and the Formation of the Galactic Halo. <i>Astrophysical Journal</i> , 1996, 459, 558.	4.5	133
90	Star Formation and Chemical Evolution in Damped LY alpha Clouds. <i>Astrophysical Journal</i> , 1996, 462, 57.	4.5	32

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91	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
92	Stellar models with microscopic diffusion and rotational mixing. 1: Application to the Sun. <i>Astrophysical Journal</i> , 1995, 441, 865.	4.5	199
93	The OPAL Equation of State and Low-Metallicity Isochrones. <i>Astrophysical Journal</i> , 1995, 454, 767.	4.5	48
94	Absolute ages of globular clusters and the age of the universe. <i>Astrophysical Journal</i> , 1995, 444, L9.	4.5	76
95	The RSA survey of dwarf galaxies, 1: Optical photometry. <i>Astronomical Journal</i> , 1994, 108, 1209.	4.7	27
96	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
97	The primordial abundance of Li-6 and Be-9. <i>Astrophysical Journal</i> , 1994, 432, L47.	4.5	10
98	Low-luminosity companions of early-type galaxies. <i>Publications of the Astronomical Society of the Pacific</i> , 1992, 104, 57.	3.1	6
99	The effect of helium diffusion on the ages of globular clusters. <i>Astrophysical Journal</i> , 1992, 388, 372.	4.5	40
100	Ages of globular clusters and helium diffusion. <i>Astrophysical Journal</i> , 1992, 394, 515.	4.5	57
101	Peculiar morphologies of four IRAS galaxies. <i>Publications of the Astronomical Society of the Pacific</i> , 1991, 103, 35.	3.1	4
102	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