RESEARCH & PUBLICATIONS

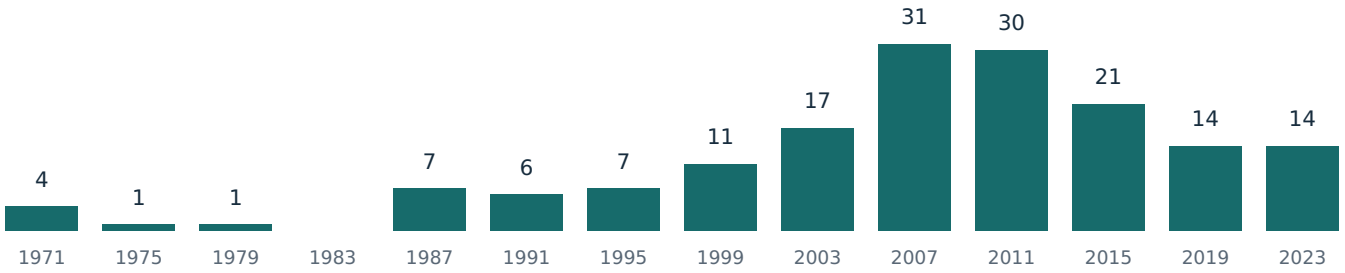
Francesca D'antona

A publication record at a glance

165	9,506	52
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 4-year periods



1 articles have no publication year in the database.

MOST CITED IN THIS LIST

New Pre--Main-Sequence Tracks for M — 617
1994 Astrophysical Journal, Supplement Series

Formation and Dynamical Evolution of Multiple Stellar Generations in Globular Clusters — 599
2008 Monthly Notices of the Royal Astronomical Society

The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. I. Overview of the Project and Detection of Multiple Stellar Populations — 493
2015 Astronomical Journal

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Ordered by publication year, newest first

2026

01 The Stellar to Sub-Stellar Masses Transition in 47 Tuc — 2 citations
Astronomy and Astrophysics · 706, A313
https://exaly.com/article/209599609

02 The Pollution From Massive AGB Stars Favoured by Strong Hot Bottom Burning — 0 citations
European Physical Journal A · 62, 88
https://exaly.com/article/213561878

03 The Youngest White Dwarf Companion to a Millisecond Pulsar: Insights From NGC 362D — 0 citations
Astronomy and Astrophysics · 713, L14
https://exaly.com/article/217476034

2025

04 A JWST Project on 47 Tucanae - Binaries Among Multiple Populations — 13 citations
Astronomy and Astrophysics · 698, A247
https://exaly.com/article/200751588

05 Hunting for UVdim Stars in Galactic Open Clusters. Clues From Ultraviolet Photometry — 1 citations
Monthly Notices of the Royal Astronomical Society · 541, 2790-2800
https://exaly.com/article/203005252

06 Dating N-Loud AGNs at High Redshift - GS_3073 as a Snapshot of a ω Centauri-Like Evolution of a Nuclear Star Cluster — 6 citations
Astronomy and Astrophysics · 700, A265
https://exaly.com/article/203090638

07 Noble Gases Neon and Argon: A Role for the Chemical Patterns of Multiple Populations in Globular Clusters? — 0 citations
Astronomy and Astrophysics · 702, A80
https://exaly.com/article/204601435

2024

08 Survey of Extended Main-Sequence Turn-Offs in Galactic Open Clusters: Stellar Rotations From Gaia RVS Spectra — 16 citations
Monthly Notices of the Royal Astronomical Society · 532, 1547-1563
https://exaly.com/article/186775792

09 Hubble Space Telescope Survey of Magellanic Cloud Star Clusters. Binaries Among the Split Main Sequences of NGC 1818, NGC 1850, and NGC 2164 — 11 citations
Astronomy and Astrophysics · 692, A135
https://exaly.com/article/194437161

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2023

10 On the Role of Dust and Mass-Loss in the Extended Main Sequence Turnoff of Star Clusters: The Case of NGC 1783

20 citations

Monthly Notices of the Royal Astronomical Society · 521, 4462-4472

https://exaly.com/article/161858231

11 Hubble Space Telescope Survey of Magellanic Cloud Star Clusters: UV-Dim Stars in Young Clusters

14 citations

Monthly Notices of the Royal Astronomical Society · 524, 6149-6158

https://exaly.com/article/166395691

12 A Deep Dive Into the Type II Globular Cluster NGC 1851

7 citations

Monthly Notices of the Royal Astronomical Society · 526, 2960-2976

https://exaly.com/article/170082532

13 GN-z11: Witnessing the Formation of Second-Generation Stars and an Accreting Massive Black Hole in a Massive Star Cluster

36 citations

Astronomy and Astrophysics · 680, L19

https://exaly.com/article/173029286

14 Exploration of Faint X-Ray and Radio Sources in the Massive Globular Cluster M14: A UV-Bright Counterpart to Nova Ophiuchus 1938

2 citations

Monthly Notices of the Royal Astronomical Society · 527, 11491-11506

https://exaly.com/article/174189150

2022

15 HST Observations of the Globular Cluster NGC 6402 (M14) and Its Peculiar Multiple Populations

13 citations

Astrophysical Journal · 925, 192

https://exaly.com/article/125497975

16 Constraining the Original Composition of the Gas Forming First-Generation Stars in Globular Clusters

55 citations

Monthly Notices of the Royal Astronomical Society · 513, 735-751

https://exaly.com/article/134650899

17 Survey of Multiple Populations in Globular Clusters Among Very-Low-Mass Stars

32 citations

Astrophysical Journal · 927, 207

https://exaly.com/article/134929485

18 Origin and Binary Evolution of Millisecond Pulsars

5 citations

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https://exaly.com/article/135214303

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2021

19 **Understanding the Evolution and Dust Formation of Carbon Stars in the Large Magellanic Cloud via the JWST** — 27 citations

Astronomy and Astrophysics · 647, A69

https://exaly.com/article/79660889

20 **Are Extreme Asymptotic Giant Branch Stars Post-Common Envelope Binaries?** — 10 citations

Monthly Notices of the Royal Astronomical Society: Letters · 502, L35-L39

https://exaly.com/article/82647497

2020

21 **Mass-Loss Along the Red Giant Branch in 46 Globular Clusters and Their Multiple Populations** — 67 citations

Monthly Notices of the Royal Astronomical Society · 498, 5745-5771

https://exaly.com/article/75529512

22 **The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XX. Ages of Single and Multiple Stellar Populations in Seven Bulge Globular Clusters** — 31 citations

Astrophysical Journal · 891, 37

https://exaly.com/article/76810882

2019

23 **Is Helium the Key Parameter in the Extended Colour Spread of the First Generation Stars in M3?** — 24 citations

Monthly Notices of the Royal Astronomical Society · 486, 5895-5906

https://exaly.com/article/72925670

24 **Mass Loss of Different Stellar Populations in Globular Clusters: The Case of M4** — 22 citations

Astrophysical Journal · 873, 123

https://exaly.com/article/73240006

25 **The Lithium Test for Multiple Populations in Globular Clusters: Lithium in NGC 2808** — 14 citations

Astrophysical Journal Letters · 871, L19

https://exaly.com/article/73557873

26 **Dynamical Effects on the Stellar Mass Function of Multiple Stellar Populations in Globular Clusters** — 0 citations

Proceedings of the International Astronomical Union · 14, 346-349

https://exaly.com/article/73824488

27 **'Status Update' for the AGB Scenario for the Formation of Multiple Populations** — 0 citations

Proceedings of the International Astronomical Union · 14, 289-292

https://exaly.com/article/73881043

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2019 / continued

28 **Chemical Abundances Along the 1G Sequence of the Chromosome Maps: The Globular Cluster NGC 3201**
46 citations
Astrophysical Journal · 887, 91
https://exaly.com/article/89227076

2018

29 **On the Blind Use of Statistical Tools in the Analysis of Globular Cluster Stars**
6 citations
Nature Astronomy · 2, 270-272
https://exaly.com/article/68805484

30 **Evolution of the Stellar Mass Function in Multiple-Population Globular Clusters**
32 citations
Monthly Notices of the Royal Astronomical Society · 476, 2731-2742
https://exaly.com/article/69329934

31 **Magnesium Isotopes: A Tool to Understand Self-Enrichment in Globular Clusters**
18 citations
Monthly Notices of the Royal Astronomical Society · 477, 438-449
https://exaly.com/article/69871280

32 **What Young Massive Clusters in the Magellanic Clouds Teach Us About Old Galactic Globular Clusters?**
0 citations
Proceedings of the International Astronomical Union · 14, 314-317
https://exaly.com/article/70075071

33 **The Role of AGB Stars in the Evolution of Globular Clusters**
0 citations
Proceedings of the International Astronomical Union · 14, 291-300
https://exaly.com/article/70075137

34 **Self-Enrichment in Globular Clusters: The Extreme He-Rich Populationof NGC 2808**
7 citations
Monthly Notices of the Royal Astronomical Society · 479, 5325-5334
https://exaly.com/article/71688612

35 **A Gaia Study of the Hyades Open Cluster**
41 citations
Monthly Notices of the Royal Astronomical Society · 477, 3197-3216
https://exaly.com/article/71740256

2017

36 **Stars Caught in the Braking Stage in Young Magellanic Cloud Clusters**
64 citations
Nature Astronomy · 1, 1-5
https://exaly.com/article/67201939

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2016

37 Accretion of Pristine Gas and Dilution During the Formation of Multiple-Population Globular Clusters
60 citations
Monthly Notices of the Royal Astronomical Society · 461, 4088-4098
https://exaly.com/article/64681582

38 The Mosaic Multiple Stellar Populations in ω Centauri: The Horizontal Branch and the Main Sequence
48 citations
Monthly Notices of the Royal Astronomical Society · 457, 4525-4535
https://exaly.com/article/65247480

39 Evolution of Binary Stars in Multiple-Population Globular Clusters – II. Compact Binaries
31 citations
Monthly Notices of the Royal Astronomical Society · 457, 4507-4514
https://exaly.com/article/65440386

40 A Single Model for the Variety of Multiple-Population Formation(s) in Globular Clusters: A Temporal Sequence
170 citations
Monthly Notices of the Royal Astronomical Society · 458, 2122-2139
https://exaly.com/article/65468655

2015

41 Evolution of Binary Stars in Multiple-Population Globular Clusters
39 citations
Monthly Notices of the Royal Astronomical Society · 449, 629-638
https://exaly.com/article/60532492

42 The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters – IV. Helium Content and Relative Age of Multiple Stellar Populations Within NGC 6352★
48 citations
Monthly Notices of the Royal Astronomical Society · 451, 312-322
https://exaly.com/article/60532617

43 The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters: The Internal Kinematics of the Multiple Stellar Populations in NGC 2808
90 citations
Astrophysical Journal Letters · 810, L13
https://exaly.com/article/60536210

44 The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters – V. Constraints on Formation Scenarios
306 citations
Monthly Notices of the Royal Astronomical Society · 454, 4197-4207
https://exaly.com/article/61365173

45 Rapidly Rotating Second-Generation Progenitors for the 'Blue Hook' Stars of ω Centauri
38 citations
Nature · 523, 318-321
https://exaly.com/article/62013660

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2015 / continued

46 The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters – II. The Seven Stellar Populations of NGC 7089 (M2)⋆

125 citations

Monthly Notices of the Royal Astronomical Society · 447, 927-938

https://exaly.com/article/62045938

47 An HST/WFC3 View of Stellar Populations on the Horizontal Branch of NGC 2419

24 citations

Monthly Notices of the Royal Astronomical Society · 446, 1469-1477

https://exaly.com/article/62330959

48 The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. III. A Quintuple Stellar Population in NGC 2808

192 citations

Astrophysical Journal · 808, 51

https://exaly.com/article/62392550

49 The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. I. Overview of the Project and Detection of Multiple Stellar Populations

493 citations

Astronomical Journal · 149, 91

https://exaly.com/article/62644556

2014

50 Helium Enhanced Stars and Multiple Populations Along the Horizontal Branch of NGC 2808: Direct Spectroscopic Measurements★

131 citations

Monthly Notices of the Royal Astronomical Society · 437, 1609-1627

https://exaly.com/article/57847852

51 The Formation of Multiple Populations in the Globular Cluster 47 Tuc

60 citations

Monthly Notices of the Royal Astronomical Society · 437, 3274-3282

https://exaly.com/article/58132177

52 Pre-Main-Sequence Accretion and the Formation of Multiple Populations in Globular Clusters

13 citations

Monthly Notices of the Royal Astronomical Society · 443, 3302-3308

https://exaly.com/article/58525320

53 Dissecting the Spitzer Colour–Magnitude Diagrams of Extreme Large Magellanic Cloud Asymptotic Giant Branch Stars

35 citations

Monthly Notices of the Royal Astronomical Society: Letters · 442, L38-L42

https://exaly.com/article/58624374

54 Dynamics of Primordial Binary Stars in Multiple-Population Globular Clusters

0 citations

Proceedings of the International Astronomical Union · 10, 237-238

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2013

55 Yields of AGB and SAGB Models With Chemistry of Low- and High-Metallicity Globular Clusters
263 citations
Monthly Notices of the Royal Astronomical Society · 431, 3642-3653
https://exaly.com/article/55151541

56 Dynamical Evolution and Spatial Mixing of Multiple Population Globular Clusters
148 citations
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https://exaly.com/article/56178095

57 The Puzzle of Metallicity and Multiple Stellar Populations in the Globular Clusters in Fornax
26 citations
Monthly Notices of the Royal Astronomical Society · 434, 1138-1150
https://exaly.com/article/56380224

58 Rubidium Abundances in the Globular Clusters NGC 6752, NGC 1904, and NGC 104 (47 Tuc)
18 citations
Astrophysical Journal · 776, 59
https://exaly.com/article/56454940

59 A WFC3/HST View of the Three Stellar Populations in the Globular Cluster NGC 6752
153 citations
Astrophysical Journal · 767, 120
https://exaly.com/article/56476938

2012

60 Super-AGB–AGB Evolution and the Chemical Inventory in NGC 2419
65 citations
Astrophysical Journal Letters · 761, L30
https://exaly.com/article/52762698

61 Dynamics of Multiple Stellar Populations in Globular Clusters
0 citations
Proceedings of the International Astronomical Union · 10, 251-252
https://exaly.com/article/53043326

62 The C+N+O Abundance of ω Centauri Giant Stars: Implications for the Chemical-Enrichment Scenario and the Relative Ages of Different Stellar Populations
100 citations
Astrophysical Journal · 746, 14
https://exaly.com/article/53077551

63 Models for the Lithium Abundances of Multiple Populations in Globular Clusters and the Possible Role of the Big Bang Lithium
22 citations
Monthly Notices of the Royal Astronomical Society · 426, 1710-1719
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64 Asteroseismology of Old Open Clusters With Kepler: Direct Estimate of the Integrated Red Giant Branch Mass-Loss in NGC 6791 and 6819
321 citations
Monthly Notices of the Royal Astronomical Society · 419, 2077-2088
https://exaly.com/article/54468399

65 The Transition From Carbon Dust to Silicate Production in Low-Metallicity Asymptotic Giant Branch and Super-Asymptotic Giant Branch Stars
72 citations
Monthly Notices of the Royal Astronomical Society · 420, 1442-1456
https://exaly.com/article/54468613

66 The Role of Super-Asymptotic Giant Branch Ejecta in the Abundance Patterns of Multiple Populations in Globular Clusters
74 citations
Monthly Notices of the Royal Astronomical Society · 423, 1521-1533
https://exaly.com/article/54660320

67 Dust Formation Around AGB and SAGB Stars: A Trend With Metallicity?
116 citations
Monthly Notices of the Royal Astronomical Society · 424, 2345-2357
https://exaly.com/article/54660704

68 Adiabatic Solar-Like Oscillations in Red Giant Stars
13 citations
Thirty Years of Astronomical Discovery With UKIRT
https://exaly.com/article/83780525

2011

69 The Peculiar Properties of Horizontal-Branch Stars in ω Centauri
14 citations
Astrophysical Journal Letters · 738, L10
https://exaly.com/article/50699941

70 Commission 35: Stellar Constitution
1 citations
Proceedings of the International Astronomical Union · 7, 161-189
https://exaly.com/article/50824825

71 Division IV: STARS
0 citations
Proceedings of the International Astronomical Union · 7, 147-149
https://exaly.com/article/50829660

72 The Oxygen Versus Sodium (Anti)Correlation(s) in ω Cen
38 citations
Astrophysical Journal · 736, 5
https://exaly.com/article/50865734

73 Sodium–Oxygen Anticorrelation and Neutron-Capture Elements in Omega Centauri Stellar Populations
150 citations
Astrophysical Journal · 731, 64
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2011 / continued

74 **Hot Bottom Burning in the Envelope of Super Asymptotic Giant Branch Stars**
Monthly Notices of the Royal Astronomical Society · 410, 2760-2766
https://exaly.com/article/50966261
91 citations

75 **NGC 2419: A Large and Extreme Second Generation in a Currently Undisturbed Cluster**
Monthly Notices of the Royal Astronomical Society · 414, 3381-3393
https://exaly.com/article/50967105
53 citations

76 **Formation of Multiple Populations in Globular Clusters: Constraints on the Dilution by Pristine Gas**
Monthly Notices of the Royal Astronomical Society · 415, 1304-1309
https://exaly.com/article/50967215
60 citations

77 **A Deep Insight Into the Mg–Al–Si Nucleosynthesis in Massive Asymptotic Giant Branch and Super-Asymptotic Giant Branch Stars**
Monthly Notices of the Royal Astronomical Society · 415, 3865-3871
https://exaly.com/article/50967396
59 citations

78 **Binary Star Disruption in Globular Clusters With Multiple Stellar Populations**
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https://exaly.com/article/50967436
18 citations

79 **In Search of Massive Single-Population Globular Clusters**
Monthly Notices of the Royal Astronomical Society · 417, 228-237
https://exaly.com/article/50967541
36 citations

2010

80 **Division IV: STARS**
Proceedings of the International Astronomical Union · 6, 188-190
https://exaly.com/article/47519700
0 citations

81 **Commission 35: Stellar Constitution**
Proceedings of the International Astronomical Union · 6, 195-196
https://exaly.com/article/47519701
0 citations

82 **Detection of Solar-Like Oscillations From Kepler Photometry of the Open Cluster NGC 6819**
Astrophysical Journal Letters · 713, L182
https://exaly.com/article/47626768
68 citations

83 **The Fraction of Globular Cluster Second-Generation Stars in the Galactic Halo**
Astrophysical Journal Letters · 718, L112-L116
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69 citations

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84 **Intermediate-Mass Black Holes in Early Globular Clusters** — 34 citations
Astrophysical Journal Letters · 713, L41-L44
https://exaly.com/article/47649021

85 **Terzan 5: An Alternative Interpretation for the Split Horizontal Branch** — 24 citations
Astrophysical Journal Letters · 715, L63-L67
https://exaly.com/article/47676290

86 **The Role of the Equation of State in Models of Very Low-Mass Stars** — 3 citations
Astrophysics and Space Science · 328, 167-169
https://exaly.com/article/47881765

87 **The Role of Lithium Production in Massive AGB and Super-AGB Stars for the Understanding of Multiple Populations in Globular Clusters** — 41 citations
Monthly Notices of the Royal Astronomical Society: Letters · 402, L72-L76
https://exaly.com/article/48463259

88 **The Helium Spread in the Globular Cluster 47 Tuc** — 58 citations
Monthly Notices of the Royal Astronomical Society · 408, 999-1005
https://exaly.com/article/48481995

89 **The Evolutionary Status of the Blue Hook Stars in ω Centauri** — 7 citations
Monthly Notices of the Royal Astronomical Society
https://exaly.com/article/48490907

90 **Abundance Patterns of Multiple Populations in Globular Clusters: A Chemical Evolution Model Based on Yields From AGB Ejecta** — 204 citations
Monthly Notices of the Royal Astronomical Society · 407, 854-869
https://exaly.com/article/48491185

91 **A Detailed Study of the Main Sequence of the Globular Cluster NGC 6397: Can We Derive Constraints on the Existence of Multiple Populations?** — 25 citations
Astronomy and Astrophysics · 511, A70
https://exaly.com/article/84913875

2009

92 **A Large C+N+O Abundance Spread in Giant Stars of the Globular Cluster NGC 1851** — 111 citations
Astrophysical Journal · 695, L62
https://exaly.com/article/45198602

93 **The C+N+O Abundances and the Splitting of the Subgiant Branch in the Globular Cluster NGC 1851** — 77 citations
Monthly Notices of the Royal Astronomical Society · 399, 934-943
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94 The Influence of the C+N+O Abundances on the Determination of the Relative Ages of Globular Clusters: The Case of NGC1851 and NGC6121 (M4)
22 citations
Monthly Notices of the Royal Astronomical Society: Letters · 399, L151-L155
https://exaly.com/article/46354487

95 Lithium Factories in the Galaxy: Novae and AGB Stars
1 citations
Proceedings of the International Astronomical Union · 5, 395-404
https://exaly.com/article/47248284

96 Massive AGB Models of Low Metallicity: The Implications for the Self-Enrichment Scenario in Metal-Poor Globular Clusters
157 citations
Astronomy and Astrophysics · 499, 835-846
https://exaly.com/article/84913515

97 The Role of the Equation of State in Models of Very Low-Mass Stars
0 citations
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98 The ATON 3.1 Stellar Evolutionary Code
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Astrophysics and Space Science · 316, 93-98
https://exaly.com/article/43327028

99 Self-Enrichment by Asymptotic Giant Branch Stars in Globular Clusters: Comparison Between Intermediate and High Metallicities
64 citations
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100 The Fraction of Second Generation Stars in Globular Clusters From the Analysis of the Horizontal Branch★
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101 Formation and Dynamical Evolution of Multiple Stellar Generations in Globular Clusters
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2008 / continued

103 **Division IV: STARS** — 1 citations

Proceedings of the International Astronomical Union · 4, 193-195

https://exaly.com/article/44832058

104 **Self-Enrichment in Globular Clusters: Is There a Role for the Super-Asymptotic Giant Branch Stars?** — 31 citations

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105 **Is Mass Loss Along the Red Giant Branch of Globular Clusters Sharply Peaked? The Case of M3** — 42 citations

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106 **The Self-Enrichment Scenario in Intermediate Metallicity Globular Clusters** — 57 citations

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107 **Were Most Low Mass X Ray Binaries Born in Globular Clusters?** — 1 citations

AIP Conference Proceedings · 924, 649-655

https://exaly.com/article/41398755

108 **Multiple Stellar Populations in Globular Clusters: Collection of Information From the Horizontal Branch** — 2 citations

Proceedings of the International Astronomical Union · 3, 156-160

https://exaly.com/article/41945455

109 **A Model for Globular Cluster Extreme Anomalies** — 97 citations

Monthly Notices of the Royal Astronomical Society · 379, 1431-1441

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110 **NGC 6441: Another Indication of Very High Helium Content in Globular Cluster Stars** — 104 citations

Astronomy and Astrophysics · 463, 949-955

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2006

111 **Does the Oxygen-Sodium Anticorrelation in Globular Clusters Require a Lowering of the Na(p,Ne Reaction Rate?** — 33 citations

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2006 / continued

112 Rotational Properties of the Orion Nebular Cluster Revised
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113 Pre-Main Sequence Models With Convection Described by 2D-RHD Numerical Simulations
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114 Joint Discussion 6 Neutron Stars and Black Holes in Star Clusters
Proceedings of the International Astronomical Union · 2, 215-243
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115 Stellar Evolution and Feedback Connections to Stellar Dynamics
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0 citations

2005

116 A Helium Spread Among the Main-Sequence Stars in NGC 2808
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293 citations

117 Toward a Working Model for the Abundance Variations in Stars Within Globular Clusters
Astrophysical Journal · 635, L149
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46 citations

118 Towards a Working Model for the Abundance Variations Within Globular Cluster Stars
Proceedings of the International Astronomical Union · 1, 391-392
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0 citations

119 Commission 35: Stellar Constitution
Proceedings of the International Astronomical Union · 1, 205-213
https://exaly.com/article/37982535
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120 Full Computation of Massive AGB Evolution - II. The Role of Mass Loss and Cross-Sections
Astronomy and Astrophysics · 439, 1075-1091
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121 Globular Clusters and Neutron Star Binaries
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2005 / continued

122 Optical Counterpart of the XTE J0929-314 in Quiescence: Constraints on the Magnetic Field
1 citations
AIP Conference Proceedings · 797, 565-568
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123 Helium Self-Enrichment in Globular Clusters and the Second Parameter Problem in M 3 and M 13
45 citations
Astronomy and Astrophysics · 435, 987-993
https://exaly.com/article/84922680

124 Full Computation of Massive AGB Evolution - I. The Large Impact of Convection on Nucleosynthesis
176 citations
Astronomy and Astrophysics · 431, 279-288
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125 Two Stages of Star Formation in Globular Clusters and the IMF
0 citations
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2004

126 Interpretation of the Solar-Like Pulsational Behaviour of η Bootis
26 citations
Solar Physics · 220, 185-198
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127 The Early Evolution of Globular Clusters: The Case of NGC 2808
227 citations
Astrophysical Journal · 611, 871
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128 Helium Variation Due to Self–Pollution Among Globular Cluster Stars - Consequences on the Horizontal Branch Morphology
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