

# Enrico Vesperini

## List of Publications by Year in descending order

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98  
papers

4,829  
citations

109321

35  
h-index

98798

67  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and dynamical evolution of multiple stellar generations in globular clusters. Monthly Notices of the Royal Astronomical Society, 2008, 391, 825-843.	4.4	540
2	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS. I. OVERVIEW OF THE PROJECT AND DETECTION OF MULTIPLE STELLAR POPULATIONS. Astronomical Journal, 2015, 149, 91.	4.7	395
3	The Hubble Space Telescope UV Legacy Survey of Galactic globular clusters – IX. The Atlas of multiple stellar populations. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3636-3656.	4.4	328
4	On the effects of dynamical evolution on the initial mass function of globular clusters. Monthly Notices of the Royal Astronomical Society, 1997, 289, 898-920.	4.4	228
5	Abundance patterns of multiple populations in globular clusters: a chemical evolution model based on yields from AGB ejecta. Monthly Notices of the Royal Astronomical Society, 2010, 407, 854-869.	4.4	191
6	Dynamical age differences among coeval star clusters as revealed by blue stragglers. Nature, 2012, 492, 393-395.	27.8	172
7	The Hubble Space Telescope UV legacy survey of galactic globular clusters – XVI. The helium abundance of multiple populations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5098-5122.	4.4	146
8	A single model for the variety of multiple-population formation(s) in globular clusters: a temporal sequence. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2122-2139.	4.4	129
9	Dynamical evolution and spatial mixing of multiple population globular clusters. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1913-1921.	4.4	126
10	The Hubble Space Telescope UV Legacy Survey of galactic globular clusters – II. The seven stellar populations of NGC 7089 (M2). Monthly Notices of the Royal Astronomical Society, 2015, 447, 927-938.	4.4	110
11	STAR COUNT DENSITY PROFILES AND STRUCTURAL PARAMETERS OF 26 GALACTIC GLOBULAR CLUSTERS. Astrophysical Journal, 2013, 774, 151.	4.5	102
12	Multiple stellar populations in Magellanic Cloud clusters – VI. A survey of multiple sequences and Be stars in young clusters. Monthly Notices of the Royal Astronomical Society, 2018, 477, 2640-2663.	4.4	82
13	TIDAL DISRUPTION, GLOBAL MASS FUNCTION, AND STRUCTURAL PARAMETER EVOLUTION IN STAR CLUSTERS. Astrophysical Journal, 2010, 708, 1598-1610.	4.5	72
14	The role of super-asymptotic giant branch ejecta in the abundance patterns of multiple populations in globular clusters. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1521-1533.	4.4	69
15	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS: THE INTERNAL KINEMATICS OF THE MULTIPLE STELLAR POPULATIONS IN NGC 2808. Astrophysical Journal Letters, 2015, 810, L13.	8.3	68
16	Hubble Space Telescope Proper Motion (HSTPROMO) Catalogs of Galactic Globular Clusters. V. The Rapid Rotation of 47 Tuc Traced and Modeled in Three Dimensions. Astrophysical Journal, 2017, 844, 167.	4.5	60
17	MIKIS: The Multi-instrument Kinematic Survey of Galactic Globular Clusters. I. Velocity Dispersion Profiles and Rotation Signals of 11 Globular Clusters. Astrophysical Journal, 2018, 860, 50.	4.5	59
18	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. Astrophysical Journal, 2018, 860, 36.	4.5	59

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19	Formation of multiple populations in globular clusters: constraints on the dilution by pristine gas. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1304-1309.	4.4	58
20	INVESTIGATING THE MASS SEGREGATION PROCESS IN GLOBULAR CLUSTERS WITH BLUE STRAGGLER STARS: THE IMPACT OF DARK REMNANTS. Astrophysical Journal, 2016, 833, 252.	4.5	58
21	Binary black hole mergers from globular clusters: the impact of globular cluster properties. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5645-5656.	4.4	58
22	Hubble Space Telescope Proper Motion (HSTPROMO) Catalogs of Galactic Globular Cluster. VI. Improved Data Reduction and Internal-kinematic Analysis of NGC 362. Astrophysical Journal, 2018, 861, 99.	4.5	58
23	The formation of multiple populations in the globular cluster 47 Tuc. Monthly Notices of the Royal Astronomical Society, 2014, 437, 3274-3282.	4.4	55
24	Velocity anisotropy in tidally limited star clusters. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3693-3701.	4.4	53
25	The extended main-sequence turn-off cluster NGC 1856: rotational evolution in a coeval stellar ensemble. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2638-2644.	4.4	52
26	Accretion of pristine gas and dilution during the formation of multiple-population globular clusters. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4088-4098.	4.4	52
27	REFINING THE DYNAMICAL CLOCK FOR STAR CLUSTERS. Astrophysical Journal Letters, 2016, 833, L29.	8.3	51
28	Kinematical fingerprints of star cluster early dynamical evolution. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 443, L79-L83.	3.3	48
29	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters – IV. Helium content and relative age of multiple stellar populations within NGC 6352. Monthly Notices of the Royal Astronomical Society, 2015, 451, 312-322.	4.4	44
30	Stars caught in the braking stage in young Magellanic Cloud clusters. Nature Astronomy, 2017, 1, .	10.1	43
31	Formation of Second Generation Stars in Globular Clusters. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	43
32	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters – XII. The RGB bumps of multiple stellar populations. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4088-4103.	4.4	40
33	The Peculiar Radial Distribution of Multiple Populations in the Massive Globular Cluster M80. Astrophysical Journal, 2018, 859, 15.	4.5	38
34	The Strong Rotation of M5 (NGC 5904) as Seen from the MIKIS Survey of Galactic Globular Clusters. Astrophysical Journal, 2018, 861, 16.	4.5	38
35	Kinematical evolution of tidally limited star clusters: rotational properties. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	36
36	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. Astrophysical Journal, 2019, 873, 109.	4.5	36

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37	The range of core size of postcollapse clusters supported by primordial binaries. <i>Astrophysical Journal</i> , 1994, 431, 231.	4.5	36
38	Mass-loss along the red giant branch in 46 globular clusters and their multiple populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5745-5771.	4.4	35
39	Kinematical evolution of tidally limited star clusters: the role of retrograde stellar orbits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 402-411.	4.4	34
40	The Hubble Space Telescope UV Legacy Survey of Galactic globular clusters – X. The radial distribution of stellar populations in NGC 2808. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 449-458.	4.4	34
41	Rapidly rotating second-generation progenitors for the “blue hook” stars of $\omega$ Centauri. <i>Nature</i> , 2015, 523, 318-321.	27.8	32
42	A Family Picture: Tracing the Dynamical Path of the Structural Properties of Multiple Populations in Globular Clusters. <i>Astrophysical Journal Letters</i> , 2019, 884, L24.	8.3	32
43	WIDESPREAD PRESENCE OF SHALLOW CUSPS IN THE SURFACE-BRIGHTNESS PROFILE OF GLOBULAR CLUSTERS. <i>Astrophysical Journal Letters</i> , 2010, 720, L179-L184.	8.3	31
44	The “UV-route” to Search for Blue Straggler Stars in Globular Clusters: First Results from the HST UV Legacy Survey. <i>Astrophysical Journal</i> , 2017, 839, 64.	4.5	30
45	Evolution of binary stars in multiple-population globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 629-638.	4.4	28
46	CHEMICAL ABUNDANCES IN NGC 5024 (M53): A MOSTLY FIRST GENERATION GLOBULAR CLUSTER. <i>Astrophysical Journal</i> , 2016, 824, 5.	4.5	27
47	The puzzle of metallicity and multiple stellar populations in the globular clusters in Fornax. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1138-1150.	4.4	26
48	Dynamical formation of cataclysmic variables in globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2511-2516.	4.4	26
49	Kinematical evolution of multiple stellar populations in star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 5535-5548.	4.4	26
50	LIGHT-ELEMENT ABUNDANCES OF GIANT STARS IN THE GLOBULAR CLUSTER M71 (NGC 6838). <i>Astrophysical Journal</i> , 2015, 800, 3.	4.5	25
51	On the link between energy equipartition and radial variation in the stellar mass function of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 1977-1983.	4.4	25
52	Radial variation in the stellar mass functions of star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2383-2393.	4.4	24
53	The complex kinematics of rotating star clusters in a tidal field. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 475, L86-L90.	3.3	24
54	The Unexpected Kinematics of Multiple Populations in NGC 6362: Do Binaries Play a Role?*. <i>Astrophysical Journal</i> , 2018, 864, 33.	4.5	24

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55	A Panchromatic View of the Bulge Globular Cluster NGC 6569*. <i>Astrophysical Journal</i> , 2019, 874, 86.	4.5	24
56	Internal Rotation in the Globular Cluster M53. <i>Astrophysical Journal</i> , 2017, 841, 114.	4.5	23
57	The ESO Multi-instrument Kinematic Survey (MIKIS) of Galactic Globular Clusters: Solid-body Rotation and Anomalous Velocity Dispersion Profile in NGC 5986. <i>Astrophysical Journal</i> , 2018, 865, 11.	4.5	23
58	Evolution of binary stars in multiple-population globular clusters II. Compact binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4507-4514.	4.4	22
59	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
60	PROBING THE ROLE OF DYNAMICAL FRICTION IN SHAPING THE BSS RADIAL DISTRIBUTION. I. SEMI-ANALYTICAL MODELS AND PRELIMINARY N-BODY SIMULATIONS. <i>Astrophysical Journal</i> , 2015, 799, 44.	4.5	21
61	Searching in the dark: the dark mass content of the Milky Way globular clusters NGC288 and NGC6218. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 1937-1951.	4.4	21
62	Dynamical evolution of multiple-population globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 4290-4304.	4.4	21
63	Evolution of the stellar mass function in multiple-population globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2731-2742.	4.4	19
64	Discovery of a Double Blue Straggler Sequence in M15: New Insight into the Core-collapse Process. <i>Astrophysical Journal</i> , 2019, 876, 87.	4.5	19
65	Modelling the observed stellar mass function and its radial variation in galactic globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3845-3855.	4.4	17
66	Radial variation of the stellar mass functions in the globular clusters M15 and M30: clues of a non-standard IMF?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2390-2400.	4.4	17
67	Kinematic fingerprint of core-collapsed globular clusters. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 475, L96-L100.	3.3	16
68	First Phase Space Portrait of a Hierarchical Stellar Structure in the Milky Way. <i>Astrophysical Journal</i> , 2021, 909, 90.	4.5	16
69	3D core kinematics of NGC 6362: central rotation in a dynamically evolved globular cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 813-823.	4.4	16
70	A New Identity Card for the Bulge Globular Cluster NGC 6440 from Resolved Star Counts*. <i>Astrophysical Journal</i> , 2021, 913, 137.	4.5	16
71	Light Element Abundances and Multiple Populations in M10. <i>Astronomical Journal</i> , 2018, 156, 6.	4.7	15
72	Spatial mixing of binary stars in multiple-population globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2592-2599.	4.4	15

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73	The Hubble Space Telescope UV Legacy Survey of Galactic globular clusters â€“ XXI. Binaries among multiple stellar populations. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5457-5469.	4.4	15
74	On the role of Type Ia supernovae in the second-generation star formation in globular clusters. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5951-5968.	4.4	15
75	Pre-main-sequence accretion and the formation of multiple populations in globular clusters. Monthly Notices of the Royal Astronomical Society, 2014, 443, 3302-3308.	4.4	12
76	New insights into star cluster evolution towards energy equipartition. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 504, L12-L16.	3.3	11
77	The Hubble Space Telescope UV Legacy Survey of Galactic globular clusters â€“ XIII. ACS/WFC parallel-field catalogues. Monthly Notices of the Royal Astronomical Society, 2018, 476, 271-299.	4.4	10
78	Mass-loss law for red giant stars in simple population globular clusters. Monthly Notices of the Royal Astronomical Society, 2021, 503, 694-703.	4.4	10
79	Early dynamical evolution of rotating star clusters in a tidal field. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1584-1597.	4.4	10
80	Long-term evolution of multimass rotating star clusters. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2584-2593.	4.4	9
81	Survey of Multiple Populations in Globular Clusters among Very-low-mass Stars. Astrophysical Journal, 2022, 927, 207.	4.5	9
82	The ESO-VLT MikiS Survey Reloaded: Velocity Dispersion Profile and Rotation Curve of NGC 1904*. Astrophysical Journal, 2022, 929, 186.	4.5	9
83	Identifying Multiple Populations in M71 Using CN. Astronomical Journal, 2020, 159, 50.	4.7	8
84	Evolution towards energy equipartition in star clusters: effects of the tidal field, primordial binaries, and internal velocity anisotropy. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3815-3825.	4.4	8
85	A Monte Carlo study of early gas expulsion and evolution of star clusters: new simulations with the MOCCA code in the <sc>amuse</sc> framework. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5739-5750.	4.4	8
86	Early dynamics and violent relaxation of multimass rotating star clusters. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5781-5801.	4.4	7
87	Evolution of Star Clusters in Time-variable Tidal Fields. Astrophysical Journal, 2017, 837, 70.	4.5	6
88	HST Observations of the Globular Cluster NGC 6402 (M14) and Its Peculiar Multiple Populations. Astrophysical Journal, 2022, 925, 192.	4.5	6
89	Searching for New Observational Signatures of the Dynamical Evolution of Star Clusters. Astrophysical Journal, 2022, 926, 118.	4.5	5
90	Mass segregation and dynamics of primordial binaries in star clusters with a radially anisotropic velocity distribution. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1830-1838.	4.4	5

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91	Rapid Mass Segregation in Massive Star Clusters. Proceedings of the International Astronomical Union, 2012, 10, 259-261.	0.0	2
92	Internal kinematics of M10 and M71. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4548-4557.	4.4	2
93	Substructure in the Globular Cluster Populations of the Virgo Cluster Elliptical Galaxies M84 and M86. Astrophysical Journal, 2020, 900, 45.	4.5	2
94	Dynamics of Multiple Stellar Populations in Globular Clusters. Proceedings of the International Astronomical Union, 2012, 10, 251-252.	0.0	0
95	Dynamics of primordial binary stars in multiple-population globular clusters. Proceedings of the International Astronomical Union, 2014, 10, 237-238.	0.0	0
96	Kinematical evolution of Globular Clusters. Proceedings of the International Astronomical Union, 2019, 14, 524-527.	0.0	0
97	Dynamical effects on the stellar mass function of multiple stellar populations in globular clusters. Proceedings of the International Astronomical Union, 2019, 14, 346-349.	0.0	0
98	Light Element Abundances and Multiple Populations in M53. Astronomical Journal, 2021, 161, 288.	4.7	0