

Nate Bastian

List of Publications by Year in descending order

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81
papers

4,726
citations

156536

32
h-index

107981

68
g-index

82
all docs

82
docs citations

82
times ranked

4008
citing authors

#	ARTICLE	IF	CITATIONS
1	The physics governing the upper truncation mass of the globular cluster mass function. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6190-6200.	1.6	4
2	Expanding the Time Domain of Multiple Populations: Evidence of Nitrogen Variations in the ~ 1.5 Gyr Old Star Cluster NGC 1783. Astrophysical Journal Letters, 2022, 924, L2.	3.0	13
3	Radial distributions of globular clusters trace their host dark matter halo: insights from the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3925-3945.	1.6	13
4	S-PLUS: exploring wide field properties of multiple populations in galactic globular clusters at different metallicities. Monthly Notices of the Royal Astronomical Society, 2022, 515, 4191-4200.	1.6	5
5	What to expect when using globular clusters as tracers of the total mass distribution in Milky Way-mass galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2828-2844.	1.6	6
6	The kinematics of globular cluster populations in the E-MOSAICS simulations and their implications for the assembly history of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2021, 503, 31-58.	1.6	22
7	Weighing stars from birth to death: mass determination methods across the HRD. Astronomy and Astrophysics Review, 2021, 29, 1.	9.1	38
8	The centres of M83 and the Milky Way: opposite extremes of a common star formation cycle. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4310-4337.	1.6	16
9	Exploring the role of binarity in the origin of the bimodal rotational velocity distribution in stellar clusters. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2302-2306.	1.6	16
10	Star cluster ecology: revisiting the origin of iron and age complex clusters. Monthly Notices of the Royal Astronomical Society, 2021, 509, 614-618.	1.6	7
11	Predicting accreted satellite galaxy masses and accretion redshifts based on globular cluster orbits in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4863-4875.	1.6	25
12	Kraken reveals itself – the merger history of the Milky Way reconstructed with the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2472-2491.	1.6	147
13	On the origin of the bimodal rotational velocity distribution in stellar clusters: rotation on the pre-main sequence. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1978-1983.	1.6	19
14	Time-domain Study of the Young Massive Cluster Westerlund 2 with the Hubble Space Telescope. I. Astrophysical Journal, 2020, 891, 182.	1.6	6
15	Searching for multiple populations in the integrated light of the young and extremely massive clusters in the merger remnant NGC 7252. Monthly Notices of the Royal Astronomical Society, 2020, 494, 332-337.	1.6	9
16	Where did the globular clusters of the Milky Way form? Insights from the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4248-4267.	1.6	27
17	The mass fraction of halo stars contributed by the disruption of globular clusters in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3422-3428.	1.6	21
18	Photometric characterization of multiple populations in star clusters: the impact of the first dredge-up. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3459-3464.	1.6	14

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19	The $[\alpha/\text{Fe}]$ vs $[\text{Fe}/\text{H}]$ relation in the E-MOSAICS simulations: its connection to the birth place of globular clusters and the fraction of globular cluster field stars in the bulge. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4012-4022.	1.6	28
20	The accreted nuclear clusters of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2514-2524.	1.6	38
21	Linking globular cluster formation at low and high redshift through the age vs metallicity relation in E-MOSAICS. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4768-4778.	1.6	13
22	<i>Hubble</i> Space Telescope photometry of multiple stellar populations in the inner parts of NGC 2419. Astronomy and Astrophysics, 2019, 624, A25.	2.1	10
23	The evolution of the UV luminosity function of globular clusters in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4550-4564.	1.6	15
24	Young star cluster populations in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1714-1733.	1.6	31
25	Multiple populations in integrated light spectroscopy of intermediate-age clusters. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 489, L80-L85.	1.2	12
26	The SLUGGS survey: measuring globular cluster ages using both photometry and spectroscopy. Monthly Notices of the Royal Astronomical Society, 2019, 490, 491-501.	1.6	31
27	Formation histories of stars, clusters, and globular clusters in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5838-5852.	1.6	56
28	The E-MOSAICS project: tracing galaxy formation and assembly with the age vs metallicity distribution of globular clusters. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3134-3179.	1.6	95
29	Discrepancies in the ages of young star clusters; evidence for mergers?. Monthly Notices of the Royal Astronomical Society, 2019, 486, 266-273.	1.6	31
30	Fossil stellar streams and their globular cluster populations in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2795-2806.	1.6	35
31	Combined Effects of Rotation and Age Spreads on Extended Main-Sequence Turn Offs. Astrophysical Journal, 2019, 887, 199.	1.6	32
32	The formation and assembly history of the Milky Way revealed by its globular cluster population. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3180-3202.	1.6	232
33	A Family Picture: Tracing the Dynamical Path of the Structural Properties of Multiple Populations in Globular Clusters. Astrophysical Journal Letters, 2019, 884, L24.	3.0	32
34	The Double Blue Straggler Sequence in NGC 2173: Yes, a Field Contamination Artifact!. Research Notes of the AAS, 2019, 3, 38.	0.3	4
35	Distributed Star Formation throughout the Galactic Center Cloud Sgr B2. Astrophysical Journal, 2018, 853, 171.	1.6	74
36	The Lifecycle of Clusters in Galaxies. Astrophysics and Space Science Library, 2018, , 91-118.	1.0	14

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37	The origin of the “blue tilt” of globular cluster populations in the E-MOSAICS simulations. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3279-3301.	1.6	33
38	Globular cluster formation and evolution in the context of cosmological galaxy assembly: open questions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170616.	1.0	102
39	Multiple Stellar Populations in Globular Clusters. Annual Review of Astronomy and Astrophysics, 2018, 56, 83-136.	8.1	414
40	The E-MOSAICS project: simulating the formation and co-evolution of galaxies and their star cluster populations. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4309-4346.	1.6	173
41	Thermal Feedback in the High-mass Star- and Cluster-forming Region W51. Astrophysical Journal, 2017, 842, 92.	1.6	43
42	Chemical tagging with APOGEE: discovery of a large population of N-rich stars in the inner Galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 465, 501-524.	1.6	150
43	The varying mass distribution of molecular clouds across M83. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1769-1781.	1.6	55
44	Red Supergiants as Cosmic Abundance Probes: Massive Star Clusters in M83 and the Mass–Metallicity Relation of Nearby Galaxies. Astrophysical Journal, 2017, 847, 112.	1.6	31
45	Gas expulsion in massive star clusters?. Astronomy and Astrophysics, 2016, 587, A53.	2.1	66
46	An analysis of the population of extended main-sequence turn-off clusters in the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1632-1641.	1.6	10
47	Pitfalls when observationally characterizing the relative formation rates of stars and stellar clusters in galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 457, L24-L28.	1.2	19
48	Extended main sequence turn-offs in low mass intermediate-age clusters. Astronomy and Astrophysics, 2016, 590, A50.	2.1	18
49	A critical assessment of models for the origin of multiple populations in globular clusters. Proceedings of the International Astronomical Union, 2015, 12, 302-309.	0.0	1
50	Scale Free Processes in Stellar Cluster Formation. Proceedings of the International Astronomical Union, 2015, 11, 717-718.	0.0	0
51	RADIAL DISTRIBUTIONS OF SUB-POPULATIONS IN THE GLOBULAR CLUSTER M15: A MORE CENTRALLY CONCENTRATED PRIMORDIAL POPULATION. Astrophysical Journal, 2015, 804, 71.	1.6	46
52	Globular cluster mass-loss in the context of multiple populations: Figure 1.. Monthly Notices of the Royal Astronomical Society, 2015, 453, 357-364.	1.6	84
53	A general abundance problem for all self-enrichment scenarios for the origin of multiple populations in globular clusters. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3333-3346.	1.6	106
54	A NEW METHOD FOR MEASURING METALLICITIES OF YOUNG SUPER STAR CLUSTERS. Astrophysical Journal, 2014, 787, 142.	1.6	32

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55	Stars throw their weight in old galaxies. <i>Nature</i> , 2012, 484, 462-463.	13.7	0
56	G0.253 + 0.016: A MOLECULAR CLOUD PROGENITOR OF AN ARCHES-LIKE CLUSTER. <i>Astrophysical Journal</i> , 2012, 746, 117.	1.6	138
57	GEMINI SPECTROSCOPIC SURVEY OF YOUNG STAR CLUSTERS IN MERGING/INTERACTING GALAXIES. IV. STEPHAN's QUINTET. <i>Astrophysical Journal</i> , 2012, 748, 102.	1.6	15
58	The dynamical state of stellar structure in star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 841-853.	1.6	144
59	Formation versus destruction: the evolution of the star cluster population in galaxy mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1927-1941.	1.6	89
60	Do All Stars in the Solar Neighbourhood Form in Clusters?. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2012, , 147-154.	0.3	2
61	GLIMPSE-CO1: the most massive intermediate-age stellar cluster in the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 1386-1394.	1.6	47
62	On the lifetime of discs around late-type stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no.	1.6	7
63	The VLT-FLAMES Tarantula survey. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 296-297.	0.0	0
64	THE NGC 404 NUCLEUS: STAR CLUSTER AND POSSIBLE INTERMEDIATE-MASS BLACK HOLE. <i>Astrophysical Journal</i> , 2010, 714, 713-731.	1.6	140
65	Nuclear Star Clusters & Black Holes. , 2010, , .		1
66	A Universal Stellar Initial Mass Function? A Critical Look at Variations. <i>Annual Review of Astronomy and Astrophysics</i> , 2010, 48, 339-389.	8.1	808
67	GEMINI SPECTROSCOPIC SURVEY OF YOUNG STAR CLUSTERS IN MERGING/INTERACTING GALAXIES. III. THE ANTENNAE. <i>Astrophysical Journal</i> , 2009, 701, 607-619.	1.6	85
68	New results on the ages of star clusters in region B of M82. <i>Astrophysics and Space Science</i> , 2009, 324, 343-346.	0.5	1
69	Hierarchical star formation in M33: properties of the star-forming regions. <i>Astrophysics and Space Science</i> , 2009, 324, 293-297.	0.5	3
70	The effects of spatially distributed ionisation sources on the temperature structure of H&ii regions. <i>Astrophysics and Space Science</i> , 2009, 324, 199-204.	0.5	4
71	The spatial evolution of stellar structures in the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 868-878.	1.6	94
72	Star/Cluster Formation in Complexes: Insights from IFUs and HST. <i>Globular Clusters - Guides To Galaxies</i> , 2009, , 115-116.	0.1	0

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73	Dynamical Masses of Young Star Clusters: Constraints on the Stellar IMF and Star-Formation Efficiency. <i>Globular Clusters - Guides To Galaxies</i> , 2009, , 395-398.	0.1	0
74	The spatial evolution of stellar structures in the LMC/SMC. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 45-50.	0.0	1
75	The Rotating Nuclear Star Cluster in NGC 4244. <i>Astrophysical Journal</i> , 2008, 687, 997-1003.	1.6	80
76	Gemini Spectroscopic Survey of Young Star Clusters in Merging/Interacting Galaxies. I. NGC 3256 Tidal Tail Clusters. <i>Astrophysical Journal</i> , 2007, 658, 993-998.	1.6	30
77	Gemini Spectroscopic Survey of Young Star Clusters in Merging/Interacting Galaxies. II. NGC 3256 Clusters. <i>Astrophysical Journal</i> , 2007, 664, 284-295.	1.6	45
78	Gas expulsion and the destruction of massive young clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 752-758.	1.6	295
79	Star cluster formation and disruption time-scales – II. Evolution of the star cluster system in the fossil starburst of M82. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 340, 197-209.	1.6	57
80	The Missing Link in Star Cluster Evolution. <i>Astrophysical Journal</i> , 2003, 583, L17-L20.	1.6	36
81	Analysis of Type II _n SN 1998S: Effects of Circumstellar Interaction on Observed Spectra. <i>Astrophysical Journal</i> , 2001, 547, 406-411.	1.6	29