

Alfonzo Gustavo Bruzual

List of Publications by Year in descending order

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115
papers

15,577
citations

117453

34
h-index

38300

95
g-index

117
all docs

117
docs citations

117
times ranked

7011
citing authors

#	ARTICLE	IF	CITATIONS
1	Stellar population synthesis at the resolution of 2003. Monthly Notices of the Royal Astronomical Society, 2003, 344, 1000-1028.	1.6	8,115
2	Stellar masses and star formation histories for 105 galaxies from the Sloan Digital Sky Survey. Monthly Notices of the Royal Astronomical Society, 2003, 341, 33-53.	1.6	1,892
3	Spectral evolution of stellar populations using isochrone synthesis. Astrophysical Journal, 1993, 405, 538.	1.6	1,511
4	Spectral evolution of galaxies. I - Early-type systems. Astrophysical Journal, 1983, 273, 105.	1.6	453
5	STELIB: A library of stellar spectra at $\lambda \sim 2000\text{\AA}$. Astronomy and Astrophysics, 2003, 402, 433-442.	2.1	382
6	Modelling the nebular emission from primeval to present-day star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1757-1774.	1.6	203
7	Stellar population synthesis revisited. Astrophysical Journal, 1991, 367, 126.	1.6	200
8	A standard stellar library for evolutionary synthesis. Astronomy and Astrophysics, 2002, 381, 524-538.	2.1	198
9	The QUEST RR Lyrae Survey: Confirmation of the Clump at 50 Kiloparsecs and Other Overdensities in the Outer Halo. Astrophysical Journal, 2001, 554, L33-L36.	1.6	187
10	A Database for Galaxy Evolution Modeling. Publications of the Astronomical Society of the Pacific, 1996, 108, 996.	1.0	156
11	Spectral models for solar-scaled and α -enhanced stellar populations. Monthly Notices of the Royal Astronomical Society, 2007, 382, 498-514.	1.6	141
12	SILVERRUSH. V. Census of Ly α , [O iii] λ 5007, H α , and [C ii] λ 158 μ m Line Emission with ~ 1000 LAEs at $z \sim 4.9$. 102	1.6	102
13	Exploring Cluster Elliptical Galaxies as Cosmological Standard Rods. Astrophysical Journal, 1998, 493, 529-535.	1.6	94
14	The QUEST RR Lyrae Survey. I. The First Catalog. Astronomical Journal, 2004, 127, 1158-1175.	1.9	93
15	SPIDER - VII. Revealing the stellar population content of massive early-type galaxies out to $8 < i > R < / i > < sub > e < / sub >$. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2300-2317.	1.6	88
16	Redshift Evolution of the Stellar Populations in Elliptical Galaxies. Astrophysical Journal, 1996, 463, L51-L54.	1.6	75
17	GASP. III. JO36: A Case of Multiple Environmental Effects at Play?. Astrophysical Journal, 2017, 848, 132.	1.6	66
18	Constraining globular cluster formation through studies of young massive clusters - II. A single stellar population young massive cluster in NGC 34. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2754-2759.	1.6	64

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19	Chemoarchaeological downsizing in a hierarchical universe: impact of a top-heavy IGIMF. Monthly Notices of the Royal Astronomical Society, 2015, 446, 3820-3841.	1.6	64
20	On the interpretation of colors of faint galaxies. Astrophysical Journal, 1980, 241, 25.	1.6	60
21	Consequences of bursty star formation on galaxy observables at high redshifts. Monthly Notices of the Royal Astronomical Society, 2015, 451, 839-848.	1.6	59
22	Using spectroscopic data to disentangle stellar population properties. Astronomy and Astrophysics, 2003, 409, 511-522.	2.1	56
23	A comprehensive comparative test of seven widely used spectral synthesis models against multi-band photometry of young massive-star clusters. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4296-4322.	1.6	55
24	Modelling ultraviolet-line diagnostics of stars, the ionized and the neutral interstellar medium in star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3532-3556.	1.6	52
25	Early Low-mass Galaxies and Star-cluster Candidates at $z \sim 1/4$ Identified by the Gravitational-lensing Technique and Deep Optical/Near-infrared Imaging. Astrophysical Journal, 2020, 893, 60.	1.6	50
26	Variations of the stellar initial mass function in semi-analytical models: implications for the mass assembly and the chemical enrichment of galaxies in the gaea model. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3812-3824.	1.6	48
27	Physical interpretation of the near-infrared colours of low-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2008, 384, 930-942.	1.6	44
28	Abundance patterns in early-type galaxies: is there a kink in the $[Fe/H]$ vs. $[Z/H]$ relation?. Astronomy and Astrophysics, 2015, 582, A46.	2.1	42
29	Strong gravitational lensing and the stellar IMF of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3677-3692.	1.6	42
30	Near-Infrared Spectral Features in Single-Aged Stellar Populations. Astrophysical Journal, 2000, 532, 453-460.	1.6	40
31	Matching Stellar Population Models to Bulge Globular Clusters.. Astronomical Journal, 1997, 114, 1531.	1.9	38
32	Infrared Surface Brightness Fluctuations of Magellanic Star Clusters. Astrophysical Journal, 2004, 611, 270-293.	1.6	35
33	Pathways to quiescence: SHARDS view on the star formation histories of massive quiescent galaxies at $1.0 < z < 1.5$. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3743-3768.	1.6	35
34	Is the escape velocity in star clusters linked to extended star formation histories? Using NGC 7252:W3 as a test case. Monthly Notices of the Royal Astronomical Society, 2016, 457, 809-821.	1.6	35
35	Counter-evolution of faint field galaxies. Astrophysical Journal, 1993, 415, L21.	1.6	32
36	Self-regulated cooling flows in elliptical galaxies and in cluster cores - Is exclusively low mass star formation really necessary?. Astrophysical Journal, 1986, 307, 415.	1.6	29

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37	Ultraviolet spectra of extreme nearby star-forming regions: Evidence for an overabundance of very massive stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 6112-6135.	1.6	27
38	To use or not to use synthetic stellar spectra in population synthesis models?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2025-2042.	1.6	26
39	Tracers of stellar mass loss - I. Optical and near-IR colours and surface brightness fluctuations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 403, 1213-1238.	1.6	25
40	On the Recovery of Galaxy Properties from SED Fitting Solutions. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 16-30.	1.0	24
41	A Large- π Area CCD Camera for the Schmidt Telescope at the Venezuelan National Astronomical Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , 2002, 114, 780-794.	1.0	23
42	THE STELLAR INITIAL MASS FUNCTION AT 0.9 $\leq z \leq$ 1.5. <i>Astrophysical Journal Letters</i> , 2015, 798, L4.	3.0	23
43	The minor-axis brightness profile of the spiral galaxy NGC 4565 and the problem of massive halos. <i>Astrophysical Journal</i> , 1978, 223, L63.	1.6	22
44	Star formation history of the solar neighbourhood as told by <i>Gaia</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 302-328.	1.6	22
45	Post-starburst Galaxies in the Centers of Intermediate-redshift Clusters. <i>Astrophysical Journal</i> , 2022, 930, 43.	1.6	22
46	Discovery of the Optical Transient of GRB 990308. <i>Astrophysical Journal</i> , 1999, 524, L103-L106.	1.6	21
47	Simultaneous analysis of SDSS spectra and <i>GALEX</i> photometry with <code>starlight</code> : method and early results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2382-2397.	1.6	21
48	Population Synthesis and the Ultraviolet Spectrum of Elliptical Galaxies. <i>Astrophysical Journal</i> , 1993, 417, 102.	1.6	21
49	From kpc to the central parsec of NGC 1097: feeding star formation and a black hole at the same time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3264-3276.	1.6	19
50	Direct Constraints on the Extremely Metal-poor Massive Stars Underlying Nebular C iv Emission from Ultra-deep HST/COS Ultraviolet Spectroscopy. <i>Astrophysical Journal</i> , 2022, 930, 105.	1.6	19
51	Discovery of the Bright Trans-Neptunian Object 2000 EB[TINF]173[TINF]. <i>Astrophysical Journal</i> , 2001, 548, L243-L247.	1.6	18
52	Star clusters as simple stellar populations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 783-799.	1.6	18
53	Binary stars and the UVX in early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 2571-2579.	1.6	18
54	New Quasars Detected via Variability in the QUEST1 Survey. <i>Astrophysical Journal</i> , 2004, 606, 741-748.	1.6	18

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55	QUEST1 Variability Survey. II. Variability Determination Criteria and 200k Light Curve Catalog. <i>Astrophysical Journal</i> , 2004, 617, 184-191.	1.6	17
56	Revisiting binary stars in population synthesis models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2612-2621.	1.6	17
57	The Distribution and Ages of Star Clusters in the Small Magellanic Cloud: Constraints on the Interaction History of the Magellanic Clouds. <i>Astrophysical Journal</i> , 2018, 853, 104.	1.6	17
58	Detection of satellite remnants in the Galactic Halo with Gaia. II. A modified great circle cell method. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 214-224.	1.6	16
59	Atmospheric stellar parameters for large surveys using FASMA, a new spectral synthesis package. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 5066-5097.	1.6	16
60	Spectral evolution of galaxies. III - Cosmological predictions for the Space Telescope faint object camera. <i>Astrophysical Journal, Supplement Series</i> , 1983, 53, 497.	3.0	16
61	Clues on the history of early-type galaxies from SDSS spectra and GALEX photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 3251-3263.	1.6	15
62	Halos of spiral galaxies - Photometry and mass-to-light ratios. <i>Astrophysical Journal</i> , 1978, 225, 56.	1.6	14
63	ADEMIS: A Library of Evolutionary Models for Emission-Line Galaxies. I. Dust-free Models. <i>Astrophysical Journal, Supplement Series</i> , 2003, 149, 313-326.	3.0	14
64	Near-infrared surface brightness fluctuations and optical colours of Magellanic star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 1279-1289.	1.6	13
65	Self-similarity in the chemical evolution of galaxies and the delay-time distribution of SNe Ia. <i>Astronomy and Astrophysics</i> , 2016, 594, A61.	2.1	13
66	REMOVING BIASES IN RESOLVED STELLAR MASS MAPS OF GALAXY DISKS THROUGH SUCCESSIVE BAYESIAN MARGINALIZATION. <i>Astrophysical Journal</i> , 2017, 835, 93.	1.6	13
67	A Novel Method to Automatically Detect and Measure the Ages of Star Clusters in Nearby Galaxies: Application to the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2017, 845, 56.	1.6	13
68	The CIDA-UCM-Yale shallow survey for emission-line galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 930-940.	1.6	10
69	The challenging task of determining star formation rates: the case of a massive stellar burst in the brightest cluster galaxy of Phoenix galaxy cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3143-3153.	1.6	10
70	The Relation Between Globular Cluster Systems and Supermassive Black Holes in Spiral Galaxies: The Case Study of NGC 4258. <i>Astrophysical Journal</i> , 2017, 835, 184.	1.6	10
71	Chemical Evolution History of MaNGA Galaxies. <i>Astrophysical Journal</i> , 2022, 933, 44.	1.6	10
72	Detection of the self-regulation of star formation in galaxy discs. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 487, L61-L66.	1.2	9

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73	The elliptical galaxy NGC 720: An unequal-mass galaxy merger remnant. <i>Astronomy and Astrophysics</i> , 2005, 436, 57-65.	2.1	8
74	Galaxy properties from J-PAS narrow-band photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4722-4746.	1.6	8
75	Synthetic photometry of OB star clusters with stochastically sampled IMFs: analysis of models and <i>HST</i> observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 522-549.	1.6	8
76	LEAVING THE DARK AGES WITH AMIGA. <i>Astrophysical Journal, Supplement Series</i> , 2015, 216, 13.	3.0	6
77	Modelling dust rings in early-type galaxies through a sequence of radiative transfer simulations and 2D image fitting. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 1161-1169.	1.6	6
78	On the age of LBDS 53W091. , 1997, , .		6
79	Spatially Resolved Analysis of Neutral Winds, Stars, and Ionized Gas Kinematics with MEGARA/GTC: New Insights on the Nearby Galaxy UGC 10205. <i>Astrophysical Journal</i> , 2020, 890, 5.	1.6	6
80	The Low-Redshift Quasar-Quasar Correlation Function from an Extragalactic H α Emission-Line Survey to $z=0.4$. <i>Astrophysical Journal</i> , 2001, 548, 585-591.	1.6	5
81	PEGASE: a UV to NIR spectral evolution model of galaxies. <i>Astronomy and Astrophysics</i> , 2009, 500, 521-522.	2.1	5
82	Variations of the stellar initial mass function in semi-analytical models II: the impact of Cosmic Ray regulation.. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	5
83	Spectroscopy of NGC 4258 Globular Cluster Candidates: Membership Confirmation and Kinematics. <i>Astrophysical Journal</i> , 2019, 876, 39.	1.6	5
84	The UV continuum spectrum of M81. <i>Astrophysical Journal</i> , 1982, 260, 495.	1.6	5
85	Stellar Populations in Local and Distant Galaxies. <i>Astrophysics and Space Science</i> , 2001, 277, 221-230.	0.5	4
86	A quantitative demonstration that stellar feedback locally regulates galaxy growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1172-1187.	1.6	4
87	High-resolution Spectral Line Indices Useful for the Analysis of Stellar Populations. <i>Astrophysical Journal Letters</i> , 2020, 889, L31.	3.0	4
88	Modelling H2 and its effects on star formation using a joint implementation of gadget-3 and KROME. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2325-2345.	1.6	4
89	QUEST1 VARIABILITY SURVEY. III. LIGHT CURVE CATALOG UPDATE. <i>Astrophysical Journal, Supplement Series</i> , 2009, 181, 129-134.	3.0	3
90	The resolved star formation history of M51a through successive Bayesian marginalization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1862-1872.	1.6	3

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91	Parameter estimation for scarce stellar populations. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5567-5580.	1.6	2
92	Star cluster survival in dark matter haloes: an old cluster in Eridanus II?. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2074-2086.	1.6	2
93	Constraints on the dust extinction law of the Galaxy with <i>Swift</i> /UVOT, <i>Gaia</i> , and <i>2MASS</i> . Monthly Notices of the Royal Astronomical Society, 2021, 505, 283-292.	1.6	2
94	Identification and Study of Distant Galaxies Through Cluster Lenses. Astrophysics and Space Science, 1998, 263, 55-58.	0.5	1
95	Interactions and the Evolution of Cluster Galaxies. Astrophysics and Space Science, 2001, 276, 757-764.	0.5	1
96	The $\lambda > 4000 \text{Å}$... Break in Elliptical Galaxies. Astrophysics and Space Science, 2001, 277, 351-351.	0.5	1
97	Population Synthesis in a Universe of Interacting Galaxies. , 1999, , 459-466.		1
98	Infrared background models from galaxy evolution. Advances in Space Research, 1991, 11, 213-222.	1.2	0
99	New Models for the Spectral Evolution of Galaxies. Highlights of Astronomy, 1992, 9, 697-697.	0.0	0
100	Evolutionary Properties of High Redshift Galaxies Seen Through Cluster-Lenses. , 1999, 265, 481-482.		0
101	An Analytical Model of Galaxy Formation. Astrophysics and Space Science, 2001, 276, 1065-1071.	0.5	0
102	The UCM-CIDA-YALE Survey: Looking for the current star-forming galaxies. Astrophysics and Space Science, 2001, 277, 585-585.	0.5	0
103	The W-Function Applied to the Age of Globular Clusters. , 0, , 76-80.		0
104	Stellar populations in normal galaxies. Proceedings of the International Astronomical Union, 2004, 2004, 121-126.	0.0	0
105	Fuelling of Circumnuclear Regions: 3D Spectroscopy View.. Proceedings of the International Astronomical Union, 2006, 2, 125-125.	0.0	0
106	Inverse population synthesis using a dynamical basis. Proceedings of the International Astronomical Union, 2009, 5, 388-389.	0.0	0
107	Population Synthesis: Challenges for the Next Decade. Proceedings of the International Astronomical Union, 2009, 5, 55-64.	0.0	0
108	Extreme Horizontal Branch Stars in Passively Evolving Early Type Galaxies. Proceedings of the International Astronomical Union, 2012, 10, 120-120.	0.0	0

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109	The LF of TP-AGB stars in the LMC/SMC. Proceedings of the International Astronomical Union, 2012, 8, 282-285.	0.0	0
110	Exploring the UV excess in star clusters of different mass. Proceedings of the International Astronomical Union, 2015, 12, 143-144.	0.0	0
111	Evolving sparse stellar populations. Proceedings of the International Astronomical Union, 2016, 11, 96-98.	0.0	0
112	Stellar parameters with FASMA: a new spectral synthesis package. Proceedings of the International Astronomical Union, 2017, 12, 271-272.	0.0	0
113	Modeling low mass stellar populations. Proceedings of the International Astronomical Union, 2018, 14, 211-212.	0.0	0
114	On the Thermally Pulsing Asymptotic Giant Branch Contribution to the Light of Nearby Disk Galaxies. Astrophysical Journal, 2021, 908, 110.	1.6	0
115	Galaxy Formation and Evolution (Discussion Session). , 1988, , 331-332.		0