Marcelo M Miller Bertolami

List of Publications by Year
in descending order

90 papers	2,941 citations	172457 29 h-index	175258 52 g-index
90 all docs	90 docs citations	90 times ranked	1715 citing authors

#	Article	IF	Citations
1	New models for the evolution of post-asymptotic giant branch stars and central stars of planetary nebulae. Astronomy and Astrophysics, 2016, 588, A25.	5.1	281
2	NEW COOLING SEQUENCES FOR OLD WHITE DWARFS. Astrophysical Journal, 2010, 717, 183-195.	4.5	193
3	New evolutionary sequences for extremely low-mass white dwarfs. Astronomy and Astrophysics, 2013, 557, A19.	5.1	186
4	Revisiting the axion bounds from the Galactic white dwarf luminosity function. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 069-069.	5.4	134
5	Pulsating white dwarfs: new insights. Astronomy and Astrophysics Review, 2019, 27, 1.	25.5	129
6	Toward ensemble asteroseismology of ZZâ€ƒCeti stars with fully evolutionary models. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1462-1480.	4.4	107
7	Modeling He-rich subdwarfs through the hot-flasher scenario. Astronomy and Astrophysics, 2008, 491, 253-265.	5.1	105
8	Full evolutionary models for PGÂ1159 stars. Implications for the helium-rich O(He) stars. Astronomy and Astrophysics, 2006, 454, 845-854.	5.1	89
9	The evolution of ultra-massive white dwarfs. Astronomy and Astrophysics, 2019, 625, A87.	5.1	79
10	The rate of cooling of the pulsating white dwarf star G117âˆ’B15A: a new asteroseismological inference of the axion mass. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2792-2799.	4.4	75
11	White dwarf evolutionary sequences for low-metallicity progenitors: The impact of third dredge-up. Astronomy and Astrophysics, 2015, 576, A9.	5.1	70
12	New nonadiabatic pulsation computations on full PGÂ1159 evolutionary models: the theoretical GW Virginis instability strip revisited. Astronomy and Astrophysics, 2006, 458, 259-267.	5.1	67
13	NEW EVOLUTIONARY SEQUENCES FOR HOT H-DEFICIENT WHITE DWARFS ON THE BASIS OF A FULL ACCOUNT OF PROGENITOR EVOLUTION. Astrophysical Journal, 2009, 704, 1605-1615.	4.5	66
14	New evolutionary calculations for the born again scenario. Astronomy and Astrophysics, 2006, 449, 313-326.	5.1	63
15	NEW CHEMICAL PROFILES FOR THE ASTEROSEISMOLOGY OF ZZ CETI STARS. Astrophysical Journal, 2010, 717, 897-907.	4.5	61
16	An asteroseismic constraint on the mass of the axion from the period drift of the pulsating DA white dwarf star L19-2. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 036-036.	5.4	46
17	THE EFFECT OF ²²Ne DIFFUSION IN THE EVOLUTION AND PULSATIONAL PROPERTIES OF WHITE DWARFS WITH SOLAR METALLICITY PROGENITORS. Astrophysical Journal, 2016, 823, 158.	4.5	45
18	Constraining the neutrino magnetic dipole moment from white dwarf pulsations. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 054-054.	5.4	44

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19	Asteroseismological measurements on PGÂ1159-035, the prototype of the GW Virginis variable stars. Astronomy and Astrophysics, 2008, 478, 869-881.	5.1	38
20	Weighing stars from birth to death: mass determination methods across the HRD. Astronomy and Astrophysics Review, 2021, 29, 1.	25.5	38
21	Evolution and colors of helium-core white dwarf stars with high-metallicity progenitors. Astronomy and Astrophysics, 2009, 502, 207-216.	5.1	37
22	Thermohaline mixing and the photospheric composition of low-mass giant stars. Astronomy and Astrophysics, 2011, 533, A139.	5.1	37
23	New phase diagrams for dense carbon-oxygen mixtures and white dwarf evolution. Astronomy and Astrophysics, 2012, 537, A33.	5.1	35
24	Outer boundary conditions for evolving cool white dwarfs. Astronomy and Astrophysics, 2012, 546, A119.	5.1	34
25	Limits on the neutrino magnetic dipole moment from the luminosity function of hot white dwarfs. Astronomy and Astrophysics, 2014, 562, A123.	5.1	34
26	Giant planet formation at the pressure maxima of protoplanetary disks. Astronomy and Astrophysics, 2020, 642, A140.	5.1	33
27	First axion bounds from a pulsating helium-rich white dwarf star. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 062-062.	5.4	32
28	The born-again (very late thermal pulse) scenario revisited: the mass of the remnants and implications for V4334 Sgr. Monthly Notices of the Royal Astronomical Society, 2007, 380, 763-770.	4.4	31
29	Asteroseismological constraints on the pulsating planetary nebula nucleus (PGâ€‰1159-type) RXâ€‰J2117.1+3412. Astronomy and Astrophysics, 2007, 461, 1095-1102.	5.1	30
30	ON THE CHALLENGING VARIABILITY OF LS IV-14Â°116: PULSATIONAL INSTABILITIES EXCITED BY THE Ïµ-MECHANISM. Astrophysical Journal Letters, 2011, 741, L3.	8.3	28
31	The formation of giant planets in wide orbits by photoevaporation-synchronized migration. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L16-L20.	3.3	28
32	Thermal torque effects on the migration of growing low-mass planets. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5690-5708.	4.4	28
33	Catalogue of the central stars of planetary nebulae. Astronomy and Astrophysics, 2020, 640, A10.	5.1	28
34	Asteroseismology of theKeplerV777 Herculis variable white dwarf with fully evolutionary models. Astronomy and Astrophysics, 2012, 541, A42.	5.1	28
35	Asteroseismological constraints on the coolest GW Virginis variable star (PG 1159-type) PG 0122+200. Astronomy and Astrophysics, 2007, 475, 619-627.	5.1	26
36	The mysterious age invariance of the planetary nebula luminosity function bright cut-off. Nature Astronomy, 2018, 2, 580-584.	10.1	25

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37	Hot UV-bright stars of galactic globular clusters. Astronomy and Astrophysics, 2019, 627, A34.	5.1	25
38	On the production of He, C, and N by low- and intermediate-mass stars: a comparison of observed and model-predicted planetary nebula abundances. Monthly Notices of the Royal Astronomical Society, 2018, 473, 241-260.	4.4	24
39	Pulsational instabilities driven by the â^ mechanism in hot pre-horizontal branch stars. Astronomy and Astrophysics, 2018, 614, A136.	5.1	24
40	The formation of DA white dwarfs with thin hydrogen envelopes. Astronomy and Astrophysics, 2005, 440, L1-L4.	5.1	24
41	On the recent parametric determination of an asteroseismological model for the DBV star KIC 08626021. Astronomy and Astrophysics, 2019, 630, A100.	5.1	23
42	ON THE POSSIBLE EXISTENCE OF SHORT-PERIODg-MODE INSTABILITIES POWERED BY NUCLEAR-BURNING SHELLS IN POST-ASYMPTOTIC GIANT BRANCH H-DEFICIENT (PG1159-TYPE) STARS. Astrophysical Journal, 2009, 701, 1008-1014.	4.5	22
43	Breaking news from the HST: the central star of the Stingray Nebula is now returning towards the AGB. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 464, L51-L55.	3.3	21
44	Asteroseismology of hot pre-white dwarf stars: the case of the DOV stars PGÂ2131+066â€€and PGÂ1707+427, and the PNNV star NGC 1501. Astronomy and Astrophysics, 2009, 499, 257-266.	5.1	20
45	The diffusion-induced nova scenario: CK Vul and PB8 as possible observational counterparts. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1396-1408.	4.4	20
46	QUIESCENT NUCLEAR BURNING IN LOW-METALLICITY WHITE DWARFS. Astrophysical Journal Letters, 2013, 775, L22.	8.3	20
47	Probing the internal rotation of pre-white dwarf stars with asteroseismology: the case of PG 0122+200. Monthly Notices of the Royal Astronomical Society, 2011, 418, 2519-2526.	4.4	19
48	Evidence of Thin Helium Envelopes in PG 1159 Stars. Astrophysical Journal, 2008, 677, L35-L38.	4.5	17
49	ON THE FORMATION OF HOT DQ WHITE DWARFS. Astrophysical Journal, 2009, 693, L23-L26.	4.5	17
50	The inside-out planetary nebula around a born-again star. Nature Astronomy, 2018, 2, 784-789.	10.1	17
51	The white dwarf cooling sequence of 47 Tucanae. Astronomy and Astrophysics, 2014, 571, A56.	5.1	17
52	A quantitative NLTE analysis of visual and ultraviolet spectra of four helium-rich subdwarf O stars. Astronomy and Astrophysics, 2018, 620, A36.	5.1	15
53	An in-depth reanalysis of the alleged type Ia supernova progenitor Henize 2â^'428. Astronomy and Astrophysics, 2020, 638, A93.	5.1	15
54	On the robustness of H-deficient post-AGB tracks. Astronomy and Astrophysics, 2007, 470, 675-684.	5.1	13

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55	Chemical Abundances of Planetary Nebulae in the Substructures of M31. II. The Extended Sample and a Comparison Study with the Outer-disk Group*. Astrophysical Journal, 2018, 853, 50.	4.5	13
56	The importance of thermal torques on the migration of planets growing by pebble accretion. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3638-3652.	4.4	13
57	Long Live the Disk: Lifetimes of Protoplanetary Disks in Hierarchical Triple-star Systems and a Possible Explanation for HD 98800 B. Astrophysical Journal, 2021, 916, 113.	4.5	13
58	Revisiting the theoretical DBV (V777 Her) instability strip: The MLT theory of convection. Journal of Physics: Conference Series, 2009, 172, 012075.	0.4	12
59	Impact of convective boundary mixing on the TP-AGB. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4748-4762.	4.4	12
60	Revised Simulations of the Planetary Nebulae Luminosity Function. Astrophysical Journal, 2019, 887, 65.	4.5	12
61	Asteroseismic signatures of the helium core flash. Nature Astronomy, 2020, 4, 67-71.	10.1	11
62	An evolutionary channel for CO-rich and pulsating He-rich subdwarfs. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 511, L60-L65.	3.3	10
63	On the systematics of asteroseismological mass determinations of PG 1159 stars. Astronomy and Astrophysics, 2008, 478, 175-180.	5.1	9
64	NSV 11749, AN ELDER SIBLING OF THE BORN-AGAIN STARS V605 Aql AND V4334 Sgr?. Astrophysical Journal Letters, 2011, 743, L33.	8.3	9
65	Spectral analysis of the hybrid PGâ€‰1159-type central stars of the planetary nebulae Abellâ€‰43â€‰and NGCâ€‰7094. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1054-1071.	4.4	9
66	Chemistry and physical properties of the born-again planetary nebula HuBiâ€‰1. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4003-4020.	4.4	8
67	On the relevance of bubbles and potential flows for stellar convection. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4441-4453.	4.4	7
68	Observations of the Ultraviolet-bright Star Y453 in the Globular Cluster M4 (NGC 6121). Astronomical Journal, 2017, 154, 126.	4.7	7
69	Observations of the Ultraviolet-bright Star Barnard 29 in the Globular Cluster M13 (NGC 6205). Astronomical Journal, 2019, 157, 147.	4.7	7
70	Evolutionary timescales from the AGB to the CSPNe phase. Proceedings of the International Astronomical Union, 2018, 14, 36-46.	0.0	5
71	Low-mass, helium-enriched PG 1159 stars: a possible evolutionary origin and implications for their pulsational stability properties. Astronomy and Astrophysics, 2007, 467, 1175-1180.	5.1	5
72	Pulsations driven by theÉ›-mechanism in post-merger remnants: First results. EPJ Web of Conferences, 2013, 43, 04004.	0.3	3

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73	Spectral analysis of the binary nucleus of the planetary nebula Hen 2-428 â€“ first results. Open Astronomy, 2018, 27, 57-61.	0.6	3
74	Revealing the True Nature of Hen 2-428. Galaxies, 2018, 6, 88.	3.0	3
75	Hunting Young White Dwarfs at the Center of Planetary Nebulae. Astrophysical Journal, 2019, 882, 171.	4.5	3
76	The history of the Galactic bulge. Proceedings of the International Astronomical Union, 2016, 12, 184-187.	0.0	1
77	New models for the evolution of central stars of planetary nebulae: Faster and Brighter. Proceedings of the International Astronomical Union, 2016, 12, 179-183.	0.0	1
78	Observations of the Bright Star in the Globular Cluster 47 Tucanae (NGC 104). Astronomical Journal, 2021, 162, 126.	4.7	1
79	Asteroseismological constraints on the pulsating planetary nebula nucleus (PG1159-type) RXâ€‰J2117.1+3412. Astronomy and Astrophysics, 2007, 470, 1031-1031.	5.1	1
80	Seismological constraints on the high-gravity DOV stars PG2131+066 and PG 1707+427. Journal of Physics: Conference Series, 2009, 172, 012078.	0.4	0
81	Modeling He-rich subdwarfs through the hot-flasher scenario. Journal of Physics: Conference Series, 2009, 172, 012014.	0.4	0
82	Testing the hot-flasher scenario with asteroseismological tools. First Results. Proceedings of the International Astronomical Union, 2009, 5, 369-369.	0.0	0
83	New cooling sequences for old hydrogen-rich white dwarfs. , 2010, , .		0
84	New coreâˆ•envelope chemical profiles for pulsating DA white dwarfs. , 2010, , .		0
85	Exploring the diffusion-induced nova scenario. , 2010, , .		0
86	Asteroseismology of pulsating DA white dwarfs with fully evolutionary models. EPJ Web of Conferences, 2013, 43, 05009.	0.3	0
87	The rapid evolution of the central star of the Stingray Nebula â€” latest news from the HST. Journal of Physics: Conference Series, 2016, 728, 032006.	0.4	0
88	Îµ-mechanism driven pulsations in hot subdwarf stars with mixed H-He atmospheres. Open Astronomy, 2017, 26, .	0.6	0
89	Pulsational instabilities in hot pre-horizontal branch stars. EPJ Web of Conferences, 2017, 152, 06010.	0.3	0
90	Observations of the Ultraviolet-Bright Star Barnard 29 in the Globular Cluster M13 (NGC 6205). Proceedings of the International Astronomical Union, 2018, 14, 385-386.	0.0	0