

# Marcelo M Miller Bertolami

## List of Publications by Year in descending order

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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	An evolutionary channel for CO-rich and pulsating He-rich subdwarfs. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 511, L60-L65.	3.3	10
2	Chemistry and physical properties of the born-again planetary nebula HuBiâ€™1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4003-4020.	4.4	8
3	Weighing stars from birth to death: mass determination methods across the HRD. <i>Astronomy and Astrophysics Review</i> , 2021, 29, 1.	25.5	38
4	The importance of thermal torques on the migration of planets growing by pebble accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3638-3652.	4.4	13
5	Long Live the Disk: Lifetimes of Protoplanetary Disks in Hierarchical Triple-star Systems and a Possible Explanation for HD 98800 B. <i>Astrophysical Journal</i> , 2021, 916, 113.	4.5	13
6	Observations of the Bright Star in the Globular Cluster 47 Tucanae (NGC 104). <i>Astronomical Journal</i> , 2021, 162, 126.	4.7	1
7	Asteroseismic signatures of the helium core flash. <i>Nature Astronomy</i> , 2020, 4, 67-71.	10.1	11
8	Catalogue of the central stars of planetary nebulae. <i>Astronomy and Astrophysics</i> , 2020, 640, A10.	5.1	28
9	An in-depth reanalysis of the alleged type Ia supernova progenitor Henize 2â€™428. <i>Astronomy and Astrophysics</i> , 2020, 638, A93.	5.1	15
10	Impact of convective boundary mixing on the TP-AGB. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4748-4762.	4.4	12
11	Giant planet formation at the pressure maxima of protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2020, 642, A140.	5.1	33
12	On the recent parametric determination of an asteroseismological model for the DBV star KIC 08626021. <i>Astronomy and Astrophysics</i> , 2019, 630, A100.	5.1	23
13	Hunting Young White Dwarfs at the Center of Planetary Nebulae. <i>Astrophysical Journal</i> , 2019, 882, 171.	4.5	3
14	Spectral analysis of the hybrid PGâ€™1159-type central stars of the planetary nebulae Abellâ€™43â€™ and NGCâ€™7094. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1054-1071.	4.4	9
15	Pulsating white dwarfs: new insights. <i>Astronomy and Astrophysics Review</i> , 2019, 27, 1.	25.5	129
16	Hot UV-bright stars of galactic globular clusters. <i>Astronomy and Astrophysics</i> , 2019, 627, A34.	5.1	25
17	Thermal torque effects on the migration of growing low-mass planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5690-5708.	4.4	28
18	The evolution of ultra-massive white dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 625, A87.	5.1	79

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19	Observations of the Ultraviolet-bright Star Barnard 29 in the Globular Cluster M13 (NGC 6205). <i>Astronomical Journal</i> , 2019, 157, 147.	4.7	7
20	Revised Simulations of the Planetary Nebulae Luminosity Function. <i>Astrophysical Journal</i> , 2019, 887, 65.	4.5	12
21	On the production of He, C, and N by low- and intermediate-mass stars: a comparison of observed and model-predicted planetary nebula abundances. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 241-260.	4.4	24
22	Chemical Abundances of Planetary Nebulae in the Substructures of M31. II. The Extended Sample and a Comparison Study with the Outer-disk Group*. <i>Astrophysical Journal</i> , 2018, 853, 50.	4.5	13
23	Spectral analysis of the binary nucleus of the planetary nebula Hen 2-428 "first results. <i>Open Astronomy</i> , 2018, 27, 57-61.	0.6	3
24	Revealing the True Nature of Hen 2-428. <i>Galaxies</i> , 2018, 6, 88.	3.0	3
25	Observations of the Ultraviolet-Bright Star Barnard 29 in the Globular Cluster M13 (NGC 6205). <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 385-386.	0.0	0
26	A quantitative NLTE analysis of visual and ultraviolet spectra of four helium-rich subdwarf O stars. <i>Astronomy and Astrophysics</i> , 2018, 620, A36.	5.1	15
27	Evolutionary timescales from the AGB to the CSPNe phase. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 36-46.	0.0	5
28	Pulsational instabilities driven by the $\kappa$ mechanism in hot pre-horizontal branch stars. <i>Astronomy and Astrophysics</i> , 2018, 614, A136.	5.1	24
29	The inside-out planetary nebula around a born-again star. <i>Nature Astronomy</i> , 2018, 2, 784-789.	10.1	17
30	The mysterious age invariance of the planetary nebula luminosity function bright cut-off. <i>Nature Astronomy</i> , 2018, 2, 580-584.	10.1	25
31	The formation of giant planets in wide orbits by photoevaporation-synchronized migration. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 471, L16-L20.	3.3	28
32	Observations of the Ultraviolet-bright Star Y453 in the Globular Cluster M4 (NGC 6121). <i>Astronomical Journal</i> , 2017, 154, 126.	4.7	7
33	$\hat{\mu}$ -mechanism driven pulsations in hot subdwarf stars with mixed H-He atmospheres. <i>Open Astronomy</i> , 2017, 26, .	0.6	0
34	Pulsational instabilities in hot pre-horizontal branch stars. <i>EPJ Web of Conferences</i> , 2017, 152, 06010.	0.3	0
35	Breaking news from the <i>HST</i> : the central star of the Stingray Nebula is now returning towards the AGB. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 464, L51-L55.	3.3	21
36	New models for the evolution of post-asymptotic giant branch stars and central stars of planetary nebulae. <i>Astronomy and Astrophysics</i> , 2016, 588, A25.	5.1	281

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37	First axion bounds from a pulsating helium-rich white dwarf star. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 062-062.	5.4	32
38	The rapid evolution of the central star of the Stingray Nebula – latest news from the HST. <i>Journal of Physics: Conference Series</i> , 2016, 728, 032006.	0.4	0
39	THE EFFECT OF $^{22}\text{Ne}$ DIFFUSION IN THE EVOLUTION AND PULSATONAL PROPERTIES OF WHITE DWARFS WITH SOLAR METALLICITY PROGENITORS. <i>Astrophysical Journal</i> , 2016, 823, 158.	4.5	45
40	An asteroseismic constraint on the mass of the axion from the period drift of the pulsating DA white dwarf star L19-2. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 036-036.	5.4	46
41	The history of the Galactic bulge. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 184-187.	0.0	1
42	New models for the evolution of central stars of planetary nebulae: Faster and Brighter. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 179-183.	0.0	1
43	On the relevance of bubbles and potential flows for stellar convection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4441-4453.	4.4	7
44	White dwarf evolutionary sequences for low-metallicity progenitors: The impact of third dredge-up. <i>Astronomy and Astrophysics</i> , 2015, 576, A9.	5.1	70
45	Limits on the neutrino magnetic dipole moment from the luminosity function of hot white dwarfs. <i>Astronomy and Astrophysics</i> , 2014, 562, A123.	5.1	34
46	Constraining the neutrino magnetic dipole moment from white dwarf pulsations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 054-054.	5.4	44
47	Revisiting the axion bounds from the Galactic white dwarf luminosity function. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 069-069.	5.4	134
48	The white dwarf cooling sequence of 47 Tucanae. <i>Astronomy and Astrophysics</i> , 2014, 571, A56.	5.1	17
49	QUIESCENT NUCLEAR BURNING IN LOW-METALLICITY WHITE DWARFS. <i>Astrophysical Journal Letters</i> , 2013, 775, L22.	8.3	20
50	New evolutionary sequences for extremely low-mass white dwarfs. <i>Astronomy and Astrophysics</i> , 2013, 557, A19.	5.1	186
51	Pulsations driven by the $\epsilon$ -mechanism in post-merger remnants: First results. <i>EPJ Web of Conferences</i> , 2013, 43, 04004.	0.3	3
52	Asteroseismology of pulsating DA white dwarfs with fully evolutionary models. <i>EPJ Web of Conferences</i> , 2013, 43, 05009.	0.3	0
53	New phase diagrams for dense carbon-oxygen mixtures and white dwarf evolution. <i>Astronomy and Astrophysics</i> , 2012, 537, A33.	5.1	35
54	Outer boundary conditions for evolving cool white dwarfs. <i>Astronomy and Astrophysics</i> , 2012, 546, A119.	5.1	34

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55	Toward ensemble asteroseismology of ZZâ€fCeti stars with fully evolutionary models. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1462-1480.	4.4	107
56	The rate of cooling of the pulsating white dwarf star G117â~B15A: a new asteroseismological inference of the axion mass. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2792-2799.	4.4	75
57	Asteroseismology of the<i>Kepler</i>V777 Herculis variable white dwarf with fully evolutionary models. Astronomy and Astrophysics, 2012, 541, A42.	5.1	28
58	Thermohaline mixing and the photospheric composition of low-mass giant stars. Astronomy and Astrophysics, 2011, 533, A139.	5.1	37
59	NSV 11749, AN ELDER SIBLING OF THE BORN-AGAIN STARS V605 Aql AND V4334 Sgr?. Astrophysical Journal Letters, 2011, 743, L33.	8.3	9
60	ON THE CHALLENGING VARIABILITY OF LS IV-14Â°116: PULSATONAL INSTABILITIES EXCITED BY THE Îµ-MECHANISM. Astrophysical Journal Letters, 2011, 741, L3.	8.3	28
61	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
62	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
63	New cooling sequences for old hydrogen-rich white dwarfs. , 2010, , .		0
64	New coreâ•envelope chemical profiles for pulsating DA white dwarfs. , 2010, , .		0
65	Exploring the diffusion-induced nova scenario. , 2010, , .		0
66	NEW COOLING SEQUENCES FOR OLD WHITE DWARFS. Astrophysical Journal, 2010, 717, 183-195.	4.5	193
67	NEW CHEMICAL PROFILES FOR THE ASTEROSEISMOLOGY OF ZZ CETI STARS. Astrophysical Journal, 2010, 717, 897-907.	4.5	61
68	ON THE POSSIBLE EXISTENCE OF SHORT-PERIOD<i>g</i>-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
69	ON THE FORMATION OF HOT DQ WHITE DWARFS. Astrophysical Journal, 2009, 693, L23-L26.	4.5	17
70	Evolution and colors of helium-core white dwarf stars with high-metallicity progenitors. Astronomy and Astrophysics, 2009, 502, 207-216.	5.1	37
71	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
72	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

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73	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
74	Modeling He-rich subdwarfs through the hot-flasher scenario. Journal of Physics: Conference Series, 2009, 172, 012014.	0.4	0
75	Testing the hot-flasher scenario with asteroseismological tools. First Results. Proceedings of the International Astronomical Union, 2009, 5, 369-369.	0.0	0
76	Revisiting the theoretical DBV (V777 Her) instability strip: The MLT theory of convection. Journal of Physics: Conference Series, 2009, 172, 012075.	0.4	12
77	Evidence of Thin Helium Envelopes in PG 1159 Stars. Astrophysical Journal, 2008, 677, L35-L38.	4.5	17
78	Asteroseismological measurements on PG 1159-035, the prototype of the GW Virginis variable stars. Astronomy and Astrophysics, 2008, 478, 869-881.	5.1	38
79	On the systematics of asteroseismological mass determinations of PG 1159 stars. Astronomy and Astrophysics, 2008, 478, 175-180.	5.1	9
80	Modeling He-rich subdwarfs through the hot-flasher scenario. Astronomy and Astrophysics, 2008, 491, 253-265.	5.1	105
81	On the robustness of H-deficient post-AGB tracks. Astronomy and Astrophysics, 2007, 470, 675-684.	5.1	13
82	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
83	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
84	Asteroseismological constraints on the pulsating planetary nebula nucleus (PG 1159-type) RX J2117.1+3412. Astronomy and Astrophysics, 2007, 461, 1095-1102.	5.1	30
85	Asteroseismological constraints on the pulsating planetary nebula nucleus (PG 1159-type) RX J2117.1+3412. Astronomy and Astrophysics, 2007, 470, 1031-1031.	5.1	1
86	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
87	Full evolutionary models for PG 1159 stars. Implications for the helium-rich O(He) stars. Astronomy and Astrophysics, 2006, 454, 845-854.	5.1	89
88	New nonadiabatic pulsation computations on full PG 1159 evolutionary models: the theoretical GW Virginis instability strip revisited. Astronomy and Astrophysics, 2006, 458, 259-267.	5.1	67
89	New evolutionary calculations for the born again scenario. Astronomy and Astrophysics, 2006, 449, 313-326.	5.1	63
90	The formation of DA white dwarfs with thin hydrogen envelopes. Astronomy and Astrophysics, 2005, 440, L1-L4.	5.1	24