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List of Publications by Year
in descending order

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103 papers	3,838 citations	126708 33 h-index	138251 58 g-index
103 all docs	103 docs citations	103 times ranked	1582 citing authors

#	Article	IF	Citations
1	Evolutionary and pulsational properties of white dwarf stars. Astronomy and Astrophysics Review, 2010, 18, 471-566.	9.1	266
2	NEW COOLING SEQUENCES FOR OLD WHITE DWARFS. Astrophysical Journal, 2010, 717, 183-195.	1.6	193
3	A white dwarf cooling age of 8â€‰Gyr for NGC 6791 from physical separation processes. Nature, 2010, 465, 194-196.	13.7	191
4	New evolutionary sequences for extremely low-mass white dwarfs. Astronomy and Astrophysics, 2013, 557, A19.	2.1	186
5	The formation and evolution of hydrogen-deficient post-AGB white dwarfs: The emerging chemical profile and the expectations for the PGâ€‰1159-DB-DQ evolutionary connection. Astronomy and Astrophysics, 2005, 435, 631-648.	2.1	168
6	Pulsating white dwarfs: new insights. Astronomy and Astrophysics Review, 2019, 27, 1.	9.1	129
7	DOUBLE DEGENERATE MERGERS AS PROGENITORS OF HIGH-FIELD MAGNETIC WHITE DWARFS. Astrophysical Journal, 2012, 749, 25.	1.6	115
8	Toward ensemble asteroseismology of ZZâ€ƒCeti stars with fully evolutionary models. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1462-1480.	1.6	107
9	The age and colors of massive white dwarf stars. Astronomy and Astrophysics, 2007, 465, 249-255.	2.1	79
10	The evolution of ultra-massive white dwarfs. Astronomy and Astrophysics, 2019, 625, A87.	2.1	79
11	Asteroseismic inferences on GW Virginis variable stars in the frame of new PGÂ1159 evolutionary models. Astronomy and Astrophysics, 2006, 454, 863-881.	2.1	78
12	New evolutionary models for massive ZZ Ceti stars. I. First results for their pulsational properties. Astronomy and Astrophysics, 2003, 404, 593-609.	2.1	76
13	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.	1.6	75
14	White dwarf evolutionary sequences for low-metallicity progenitors: The impact of third dredge-up. Astronomy and Astrophysics, 2015, 576, A9.	2.1	70
15	New nonadiabatic pulsation computations on full PGÂ1159 evolutionary models: the theoretical GW Virginis instability strip revisited. Astronomy and Astrophysics, 2006, 458, 259-267.	2.1	67
16	The potential of the variable DA white dwarf G117?B15A as a tool for fundamental physics. New Astronomy, 2001, 6, 197-213.	0.8	66
17	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.	1.6	66
18	Mass-radius relations for massive white dwarf stars. Astronomy and Astrophysics, 2005, 441, 689-694.	2.1	63

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19	NEW CHEMICAL PROFILES FOR THE ASTEROSEISMOLOGY OF ZZ CETI STARS. Astrophysical Journal, 2010, 717, 897-907.	1.6	61
20	EVOLUTION OF WHITE DWARF STARS WITH HIGH-METALLICITY PROGENITORS: THE ROLE OF²²Ne DIFFUSION. Astrophysical Journal, 2010, 719, 612-621.	1.6	50
21	Gravitational Settling of²²Ne and White Dwarf Evolution. Astrophysical Journal, 2008, 677, 473-482.	1.6	49
22	Axions and the pulsation periods of variable white dwarfs revisited. Astronomy and Astrophysics, 2010, 512, A86.	2.1	47
23	ASTEROSEISMOLOGICAL STUDY OF MASSIVE ZZ CETI STARS WITH FULLY EVOLUTIONARY MODELS. Astrophysical Journal, 2013, 779, 58.	1.6	47
24	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.	1.9	46
25	The pulsation modes of the pre-white dwarf PG 1159-035. Astronomy and Astrophysics, 2008, 477, 627-640.	2.1	46
26	THE EFFECT OF ²²Ne DIFFUSION IN THE EVOLUTION AND PULSATIONAL PROPERTIES OF WHITE DWARFS WITH SOLAR METALLICITY PROGENITORS. Astrophysical Journal, 2016, 823, 158.	1.6	45
27	A refined search for pulsations in white dwarf companions to millisecond pulsarsâ˜…. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1267-1272.	1.6	43
28	Asteroseismological measurements on PGÂ1159-035, the prototype of the GW Virginis variable stars. Astronomy and Astrophysics, 2008, 478, 869-881.	2.1	38
29	Updated Evolutionary Sequences for Hydrogen-deficient White Dwarfs. Astrophysical Journal, 2017, 839, 11.	1.6	37
30	New phase diagrams for dense carbon-oxygen mixtures and white dwarf evolution. Astronomy and Astrophysics, 2012, 537, A33.	2.1	35
31	An independent constraint on the secular rate of variation of the gravitational constant from pulsating white dwarfs. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 032-032.	1.9	35
32	The mode trapping properties of full DA white dwarf evolutionary models. Astronomy and Astrophysics, 2002, 387, 531-549.	2.1	35
33	Outer boundary conditions for evolving cool white dwarfs. Astronomy and Astrophysics, 2012, 546, A119.	2.1	34
34	The seismic properties of low-mass He-core white dwarf stars. Astronomy and Astrophysics, 2012, 547, A96.	2.1	32
35	Pulsating low-mass white dwarfs in the frame of new evolutionary sequences. Astronomy and Astrophysics, 2014, 569, A106.	2.1	32
36	Asteroseismology of ZZ Ceti stars with fully evolutionary white dwarf models. Astronomy and Astrophysics, 2017, 599, A21.	2.1	32

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37	Pulsating low-mass white dwarfs in the frame of new evolutionary sequences. Astronomy and Astrophysics, 2016, 588, A74.	2.1	32
38	Forever young white dwarfs: When stellar ageing stops. Astronomy and Astrophysics, 2021, 649, L7.	2.1	31
39	New evolutionary models for massive ZZÂCeti stars. Astronomy and Astrophysics, 2005, 429, 277-290.	2.1	30
40	Asteroseismological constraints on the pulsating planetary nebula nucleus (PGâ€‰1159-type) RXâ€‰J2117.1+3412. Astronomy and Astrophysics, 2007, 461, 1095-1102.	2.1	30
41	An ultra-massive white dwarf with a mixed hydrogenâ€“carbon atmosphere as a likely merger remnant. Nature Astronomy, 2020, 4, 663-669.	4.2	29
42	The formation of ultra-massive carbon-oxygen core white dwarfs and their evolutionary and pulsational properties. Astronomy and Astrophysics, 2021, 646, A30.	2.1	28
43	Asteroseismology of theKeplerV777 Herculis variable white dwarf with fully evolutionary models. Astronomy and Astrophysics, 2012, 541, A42.	2.1	28
44	MEASURING THE EVOLUTIONARY RATE OF COOLING OF ZZ Ceti. Astrophysical Journal, 2013, 771, 17.	1.6	27
45	White dwarfâ€“main-sequence binaries from Gaia EDR3: the unresolved 100â€‰pc volume-limited sample. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5201-5211.	1.6	27
46	Asteroseismological constraints on the coolest GW Virginis variable star (PG 1159-type) PG 0122+200. Astronomy and Astrophysics, 2007, 475, 619-627.	2.1	26
47	Pulsational instabilities driven by the â^ mechanism in hot pre-horizontal branch stars. Astronomy and Astrophysics, 2018, 614, A136.	2.1	24
48	Pulsating low-mass white dwarfs in the frame of new evolutionary sequences. Astronomy and Astrophysics, 2016, 585, A1.	2.1	24
49	Pulsations of massive ZZ Ceti stars with carbon/oxygen and oxygen/neon cores. Astronomy and Astrophysics, 2004, 427, 923-932.	2.1	24
50	The formation of DA white dwarfs with thin hydrogen envelopes. Astronomy and Astrophysics, 2005, 440, L1-L4.	2.1	24
51	On the recent parametric determination of an asteroseismological model for the DBV star KIC 08626021. Astronomy and Astrophysics, 2019, 630, A100.	2.1	23
52	White-Dwarf Asteroseismology With the Kepler Space Telescope. Frontiers in Astronomy and Space Sciences, 2020, 7, .	1.1	23
53	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.	1.6	22
54	On the evolutionary status and pulsations of the recently discovered blue large-amplitude pulsators (BLAPs). Monthly Notices of the Royal Astronomical Society: Letters, 2018, 477, L30-L34.	1.2	22

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55	TESS first look at evolved compact pulsators. Astronomy and Astrophysics, 2019, 632, A42.	2.1	22
56	SHORT-PERIOD g -MODE PULSATIONS IN LOW-MASS WHITE DWARFS TRIGGERED BY H-SHELL BURNING. Astrophysical Journal Letters, 2014, 793, L17.	3.0	21
57	New DA white dwarf evolutionary models and their pulsational properties. Astronomy and Astrophysics, 2001, 380, L17-L20.	2.1	20
58	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.	2.1	20
59	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.	1.6	19
60	Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. Astronomy and Astrophysics, 2021, 645, A117.	2.1	19
61	Time-dependent diffusion in pulsating white dwarf stars: asteroseismology of G117-B15A. Monthly Notices of the Royal Astronomical Society, 2002, 332, 399-408.	1.6	18
62	Asteroseismology of hybridÎ´Scuti-Î³Doradus pulsating stars. Astronomy and Astrophysics, 2017, 597, A29.	2.1	18
63	Evidence of Thin Helium Envelopes in PG 1159 Stars. Astrophysical Journal, 2008, 677, L35-L38.	1.6	17
64	ON THE FORMATION OF HOT DQ WHITE DWARFS. Astrophysical Journal, 2009, 693, L23-L26.	1.6	17
65	The period and amplitude changes in the coolest GW Virginis variable star (PGÂ1159-type) PGÂ0122+200. Astronomy and Astrophysics, 2011, 528, A5.	2.1	17
66	Probing the Structure of Kepler ZZ Ceti Stars with Full Evolutionary Models-based Asteroseismology. Astrophysical Journal, 2017, 851, 60.	1.6	17
67	Pulsation properties of ultra-massive DA white dwarf stars with ONe cores. Astronomy and Astrophysics, 2019, 621, A100.	2.1	17
68	Revealing the pulsational properties of the V777 Herculis star KUV 05134+2605 by its long-term monitoring. Astronomy and Astrophysics, 2014, 570, A116.	2.1	15
69	The effects of element diffusion on the pulsational properties of variable DA white dwarf stars. Monthly Notices of the Royal Astronomical Society, 2002, 332, 392-398.	1.6	14
70	The evolution of white dwarfs with a varying gravitational constant. Astronomy and Astrophysics, 2011, 527, A72.	2.1	13
71	Pulsating low-mass white dwarfs in the frame of new evolutionary sequences. Astronomy and Astrophysics, 2017, 607, A33.	2.1	13
72	Asteroseismology of ZZ Ceti stars with full evolutionary white dwarf models. Astronomy and Astrophysics, 2018, 613, A46.	2.1	13

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73	Asteroseismological analysis of the ultra-massive ZZ Ceti stars BPM 37093, GD 518, and SDSS J0840+5222. Astronomy and Astrophysics, 2019, 632, A119.	2.1	13
74	Can pulsating PGÂ1159 stars place constraints on the occurrence of core overshooting?. Astronomy and Astrophysics, 2005, 439, L31-L34.	2.1	13
75	Revisiting the theoretical DBV (V777 Her) instability strip: The MLT theory of convection. Journal of Physics: Conference Series, 2009, 172, 012075.	0.3	12
76	Discovery of a new PG 1159 (GW Vir) pulsator. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2278-2281.	1.6	12
77	Two new pulsating low-mass pre-white dwarfs or SX Phoenicis stars?. Astronomy and Astrophysics, 2016, 587, L5.	2.1	12
78	The coolest extremely low-mass white dwarfs. Astronomy and Astrophysics, 2018, 614, A49.	2.1	12
79	Pulsating low-mass white dwarfs in the frame of new evolutionary sequences. Astronomy and Astrophysics, 2017, 600, A73.	2.1	12
80	Hot C-rich white dwarfs: testing the DBâ€“DQ transition through pulsations. Astronomy and Astrophysics, 2009, 506, 835-843.	2.1	11
81	Asteroseismic signatures of the helium core flash. Nature Astronomy, 2020, 4, 67-71.	4.2	11
82	About the existence of warm H-rich pulsating white dwarfs. Astronomy and Astrophysics, 2020, 633, A20.	2.1	11
83	The evolution of ultra-massive carbonâ€“oxygen white dwarfs. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5198-5206.	1.6	11
84	SEISMOLOGY OF A MASSIVE PULSATING HYDROGEN ATMOSPHERE WHITE DWARF. Astrophysical Journal, 2012, 757, 177.	1.6	10
85	An evolutionary channel for CO-rich and pulsating He-rich subdwarfs. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 511, L60-L65.	1.2	10
86	On the systematics of asteroseismological mass determinations of PG 1159 stars. Astronomy and Astrophysics, 2008, 478, 175-180.	2.1	9
87	Pulsating low-mass white dwarfs in the frame of new evolutionary sequences. Astronomy and Astrophysics, 2018, 620, A196.	2.1	9
88	Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. Astronomy and Astrophysics, 2021, 655, A27.	2.1	9
89	The white-dwarf cooling sequence of NGCÂ6791: a unique tool for stellar evolution. Astronomy and Astrophysics, 2011, 533, A31.	2.1	9
90	Pulsations powered by hydrogen shell burning in white dwarfs. Astronomy and Astrophysics, 2016, 595, A45.	2.1	8

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91	Asteroseismology of the GW Virginis stars SDSS J0349â˜'0059 and VV 47. Astronomy and Astrophysics, 2016, 589, A40.	2.1	8
92	Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. Astronomy and Astrophysics, 2022, 659, A30.	2.1	7
93	Effect of Coulomb diffusion of ions on the pulsational properties of DA white dwarfs. Astronomy and Astrophysics, 2020, 644, A55.	2.1	5
94	On the origin of white dwarfs with carbon-dominated atmospheres: the case of H1504+65. Astronomy and Astrophysics, 2009, 494, 1021-1024.	2.1	5
95	The pulsational properties of ultra-massive DB white dwarfs with carbon-oxygen cores coming from single-star evolution. Astronomy and Astrophysics, 2021, 646, A60.	2.1	4
96	Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed withTESSâ€“ IV. Discovery of two new GW Vir stars: TICâ€‰0403800675 and TICâ€‰1989122424. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2285-2291.	1.6	4
97	Discovery, TESS Characterization, and Modeling of Pulsations in the Extremely Low-mass White Dwarf GD 278. Astrophysical Journal, 2021, 922, 220.	1.6	3
98	Pulsational instability of high-luminosity H-rich pre-white dwarf star. EPJ Web of Conferences, 2017, 152, 06012.	0.1	2
99	On the formation of hydrogen-deficient low-mass white dwarfs. Astronomy and Astrophysics, 2020, 638, A30.	2.1	2
100	White-dwarf asteroseismology: An update. Proceedings of the International Astronomical Union, 2019, 15, 93-106.	0.0	1
101	A new instability domain of CNO-flashing low-mass He-core stars on their early white-dwarf cooling branches. Astronomy and Astrophysics, 2021, 647, A140.	2.1	1
102	Îµ-mechanism driven pulsations in hot subdwarf stars with mixed H-He atmospheres. Open Astronomy, 2017, 26, .	0.2	0
103	Evolution and asteroseismology of ultra-massive DA white dwarfs. Proceedings of the International Astronomical Union, 2019, 15, 110-113.	0.0	0