Pier-Emmanuel Tremblay

List of Publications by Year
in descending order

91 papers	4,169 citations	109321 35 h-index	128289 60 g-index
91 all docs	91 docs citations	91 times ranked	2916 citing authors

#	Article	IF	Citations
1	AN IMPROVED SPECTROSCOPIC ANALYSIS OF DA WHITE DWARFS FROM THE SLOAN DIGITAL SKY SURVEY DATA RELEASE 4. Astrophysical Journal, 2011, 730, 128.	4.5	359
2	SPECTROSCOPIC ANALYSIS OF DA WHITE DWARFS: STARK BROADENING OF HYDROGEN LINES INCLUDING NONIDEAL EFFECTS. Astrophysical Journal, 2009, 696, 1755-1770.	4.5	290
3	A<i>Gaia</i>Data Release 2 catalogue of white dwarfs and a comparison with SDSS. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4570-4591.	4.4	287
4	The White Dwarf Initialâ€“Final Mass Relation for Progenitor Stars from 0.85 to 7.5 <i>M</i> _{âŠ™}. Astrophysical Journal, 2018, 866, 21.	4.5	209
5	Spectroscopic analysis of DA white dwarfs with 3D model atmospheres. Astronomy and Astrophysics, 2013, 559, A104.	5.1	156
6	White Dwarf Rotation as a Function of Mass and a Dichotomy of Mode Line Widths: <i>Kepler</i> Observations of 27 Pulsating DA White Dwarfs through <i>K2</i> Campaign 8. Astrophysical Journal, Supplement Series, 2017, 232, 23.	7.7	128
7	Techniques and Review of Absolute Flux Calibration from the Ultraviolet to the Mid-Infrared. Publications of the Astronomical Society of the Pacific, 0, , 000-000.	3.1	125
8	A catalogue of white dwarfs in <i>Gaia</i> EDR3. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3877-3896.	4.4	122
9	The field white dwarf mass distribution. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2100-2114.	4.4	99
10	Core crystallization and pile-up in the cooling sequence of evolving white dwarfs. Nature, 2019, 565, 202-205.	27.8	97
11	The Gaia 20â€‰pc white dwarf sample. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3942-3961.	4.4	94
12	Gaia white dwarfs within 40â€‰pc II: the volume-limited Northern hemisphere sample. Monthly Notices of the Royal Astronomical Society, 2020, 499, 1890-1908.	4.4	73
13	WHITE DWARF COSMOCHRONOLOGY IN THE SOLAR NEIGHBORHOOD. Astrophysical Journal, 2014, 791, 92.	4.5	68
14	A White Dwarf with Transiting Circumstellar Material Far outside the Roche Limit. Astrophysical Journal, 2020, 897, 171.	4.5	68
15	A Systematic Search of Zwicky Transient Facility Data for Ultracompact Binary LISA-detectable Gravitational-wave Sources. Astrophysical Journal, 2020, 905, 32.	4.5	62
16	3D MODEL ATMOSPHERES FOR EXTREMELY LOW-MASS WHITE DWARFS. Astrophysical Journal, 2015, 809, 148.	4.5	60
17	NEW INSIGHTS INTO THE PROBLEM OF THE SURFACE GRAVITY DISTRIBUTION OF COOL DA WHITE DWARFS. Astrophysical Journal, 2010, 712, 1345-1358.	4.5	59
18	Solution to the problem of the surface gravity distribution of cool DA white dwarfs from improved 3D model atmospheres. Astronomy and Astrophysics, 2011, 531, L19.	5.1	58

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19	Granulation properties of giants, dwarfs, and white dwarfs from the CIFIST 3D model atmosphere grid. Astronomy and Astrophysics, 2013, 557, A7.	5.1	57
20	Fundamental parameter accuracy of DA and DB white dwarfs in<i>Gaia</i>Data Release 2. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5222-5232.	4.4	57
21	THE CORE MASS GROWTH AND STELLAR LIFETIME OF THERMALLY PULSING ASYMPTOTIC GIANT BRANCH STARS. Astrophysical Journal, 2014, 782, 17.	4.5	54
22	ON THE EVOLUTION OF MAGNETIC WHITE DWARFS. Astrophysical Journal, 2015, 812, 19.	4.5	52
23	CALIBRATION OF THE MIXING-LENGTH THEORY FOR CONVECTIVE WHITE DWARF ENVELOPES. Astrophysical Journal, 2015, 799, 142.	4.5	50
24	A DETAILED MODEL ATMOSPHERE ANALYSIS OF COOL WHITE DWARFS IN THE SLOAN DIGITAL SKY SURVEY. Astrophysical Journal, Supplement Series, 2010, 190, 77-99.	7.7	48
25	THE SPECTRAL ENERGY DISTRIBUTIONS OF WHITE DWARFS IN 47 Tucanae: THE DISTANCE TO THE CLUSTER. Astronomical Journal, 2012, 143, 50.	4.7	47
26	Hydrogen Balmer Line Broadening in Solar and Stellar Flares. Astrophysical Journal, 2017, 837, 125.	4.5	45
27	<i>Gaia</i> white dwarfs within 40â€‰pc â€“ I. Spectroscopic observations of new candidates. Monthly Notices of the Royal Astronomical Society, 2020, 497, 130-145.	4.4	45
28	<i>Gaia</i>photometry for white dwarfs. Astronomy and Astrophysics, 2014, 565, A11.	5.1	45
29	Precise parameters for both white dwarfs in the eclipsing binary CSSÂ41177. Monthly Notices of the Royal Astronomical Society, 2014, 438, 3399-3408.	4.4	42
30	Orbital Decay in a 20 Minute Orbital Period Detached Binary with a Hydrogen-poor Low-mass White Dwarf. Astrophysical Journal Letters, 2019, 886, L12.	8.3	42
31	Pure-hydrogen 3D model atmospheres of cool white dwarfs. Astronomy and Astrophysics, 2013, 552, A13.	5.1	41
32	The<i>Gaia</i>DR1 massâ€“radius relation for white dwarfs. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2849-2861.	4.4	41
33	Carbon star formation as seen through the non-monotonic initialâ€“final mass relation. Nature Astronomy, 2020, 4, 1102-1110.	10.1	38
34	Weighing stars from birth to death: mass determination methods across the HRD. Astronomy and Astrophysics Review, 2021, 29, 1.	25.5	38
35	J-PLUS: photometric calibration of large-area multi-filter surveys with stellar and white dwarf loci. Astronomy and Astrophysics, 2019, 631, A119.	5.1	36
36	TWO MASSIVE WHITE DWARFS FROM NGC 2323 AND THE INITIALâ€“FINAL MASS RELATION FOR PROGENITORS OF 4â€“6.5 M_{âŠ™}*. Astrophysical Journal, 2016, 818, 84.	4.5	35

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37	Two white dwarfs in ultrashort binaries with detached, eclipsing, likely sub-stellar companions detected by K2. Monthly Notices of the Royal Astronomical Society, 2017, 471, 976-986.	4.4	35
38	Convective overshoot and macroscopic diffusion in pure-hydrogen-atmosphere white dwarfs. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2503-2522.	4.4	35
39	Gravity and limb-darkening coefficients for compact stars: DA, DB, and DBA eclipsing white dwarfs. Astronomy and Astrophysics, 2020, 634, A93.	5.1	32
40	Forever young white dwarfs: When stellar ageing stops. Astronomy and Astrophysics, 2021, 649, L7.	5.1	31
41	An ultra-massive white dwarf with a mixed hydrogenâ€“carbon atmosphere as a likely merger remnant. Nature Astronomy, 2020, 4, 663-669.	10.1	29
42	ABSOLUTE FLUX CALIBRATION OF THE IRAC INSTRUMENT ON THE<i>SPITZER SPACE TELESCOPE</i>USING<i>HUBBLE SPACE TELESCOPE</i>FLUX STANDARDS. Astronomical Journal, 2011, 141, 173.	4.7	28
43	Alkali metals in white dwarf atmospheres as tracers of ancient planetary crusts. Nature Astronomy, 2021, 5, 451-459.	10.1	28
44	Can magnetic fields suppress convection in the atmosphere of cool white dwarfs? A case study on WD2105â^'820. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3693-3699.	4.4	27
45	From hydrogen to helium: the spectral evolution of white dwarfs as evidence for convective mixing. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3540-3552.	4.4	27
46	Pure-helium 3D model atmospheres of white dwarfs. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1522-1537.	4.4	26
47	Evidence from K2 for Rapid Rotation in the Descendant of an Intermediate-mass Star. Astrophysical Journal Letters, 2017, 841, L2.	8.3	24
48	INITIALâ€“FINAL MASS RELATION FOR 3 TO 4<i>M</i>_{âŠ™}PROGENITORS OF WHITE DWARFS FROM THE SINGLE CLUSTER NGC 2099. Astrophysical Journal, 2015, 807, 90.	4.5	23
49	COol Companions ON Ultrawide orbiTS (COCONUTS). I. A High-gravity T4 Benchmark around an Old White Dwarf and a Re-examination of the Surface-gravity Dependence of the L/T Transition. Astrophysical Journal, 2020, 891, 171.	4.5	23
50	Fast spectrophotometry of WDâ€‰1145+017. Monthly Notices of the Royal Astronomical Society, 2018, 481, 703-714.	4.4	22
51	Calibration of the mixing-length theory for structures of helium-dominated atmosphere white dwarfs. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1010-1025.	4.4	22
52	A white dwarf accreting planetary material determined from X-ray observations. Nature, 2022, 602, 219-222.	27.8	22
53	OUTBURSTS IN TWO NEW COOL PULSATING DA WHITE DWARFS. Astrophysical Journal, 2016, 829, 82.	4.5	21
54	Using large spectroscopic surveys to test the double degenerate model for TypeÂ Ia supernovae. Monthly Notices of the Royal Astronomical Society, 2017, 468, 2910-2922.	4.4	21

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55	Orbital relaxation and excitation of planets tidally interacting with white dwarfs. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3831-3848.	4.4	21
56	A Novel Approach to Constrain Rotational Mixing and Convective-core Overshoot in Stars Using the Initialâ€“Final Mass Relation. Astrophysical Journal Letters, 2019, 871, L18.	8.3	21
57	Horizontal spreading of planetary debris accreted by white dwarfs. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1646-1667.	4.4	21
58	Constraining the solar neighbourhood ageâ€“metallicity relation from white dwarfâ€“main sequence binaries. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3165-3176.	4.4	21
59	Multiband photometry and spectroscopy of an all-sky sample of bright white dwarfs. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4173-4192.	4.4	20
60	The Atmospheric Response to High Nonthermal Electron-beam Fluxes in Solar Flares. II. Hydrogen-broadening Predictions for Solar Flare Observations with the Daniel K. Inouye Solar Telescope. Astrophysical Journal, 2022, 928, 190.	4.5	20
61	A MEASUREMENT OF DIFFUSION IN 47 TUCANAE. Astrophysical Journal, 2015, 804, 53.	4.5	19
62	A search for white dwarfs in the Galactic plane: the field and the open cluster population. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1988-2004.	4.4	18
63	A NEW MERGING DOUBLE DEGENERATE BINARY IN THE SOLAR NEIGHBORHOOD. Astronomical Journal, 2015, 149, 176.	4.7	17
64	AN ULTRAMASSIVE 1.28 M_{âŠ™} WHITE DWARF IN NGC 2099*. Astrophysical Journal Letters, 2016, 820, L18.	8.3	17
65	Cool white dwarfs as standards for infrared observations. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3613-3623.	4.4	17
66	Single magnetic white dwarfs with Balmer emission lines: a small class with consistent physical characteristics as possible signposts for close-in planetary companions. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2564-2574.	4.4	17
67	J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus. Astronomy and Astrophysics, 2021, 654, A61.	5.1	17
68	TESS first look at evolved compact pulsators. Astronomy and Astrophysics, 2020, 638, A82.	5.1	17
69	J-PLUS: Spectral evolution of white dwarfs by PDF analysis. Astronomy and Astrophysics, 2022, 658, A79.	5.1	17
70	Spectroscopic and photometric studies of white dwarfs in the Hyades. Astronomy and Astrophysics, 2012, 547, A99.	5.1	16
71	3D spectroscopic analysis of helium-line white dwarfs. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5274-5293.	4.4	16
72	Destroying Aliases from the Ground and Space: Super-Nyquist ZZ Cetis in K2 Long Cadence Data. Astrophysical Journal, 2017, 851, 24.	4.5	15

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73	AN EMPIRICAL MEASURE OF THE RATE OF WHITE DWARF COOLING IN 47 TUCANAE. Astrophysical Journal, 2012, 760, 78.	4.5	14
74	Discovery of the first resolved triple white dwarf. Monthly Notices of the Royal Astronomical Society, 2019, 483, 901-907.	4.4	14
75	COOL WHITE DWARFS FOUND IN THE UKIRT INFRARED DEEP SKY SURVEY. Astrophysical Journal, 2011, 735, 62.	4.5	13
76	The search for ZZ Ceti stars in the original<i>Kepler</i>mission. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2855-2863.	4.4	13
77	Constraining planet formation around 6â€“8 MâŠ™ stars. Monthly Notices of the Royal Astronomical Society, 2020, 493, 765-775.	4.4	12
78	Kinematic properties of white dwarfs. Astronomy and Astrophysics, 2022, 658, A22.	5.1	11
79	The Ultramassive White Dwarfs of the Alpha Persei Cluster. Astrophysical Journal Letters, 2022, 926, L24.	8.3	10
80	CONSTRAINING WHITE DWARF STRUCTURE AND NEUTRINO PHYSICS IN 47 TUCANAE. Astrophysical Journal, 2016, 821, 27.	4.5	9
81	Intermediate-mass Stars Become Magnetic White Dwarfs. Astrophysical Journal Letters, 2020, 901, L14.	8.3	9
82	The brightest pure-H ultracool white dwarf. Astronomy and Astrophysics, 2012, 546, L3.	5.1	8
83	Spectral analysis of cool white dwarfs accreting from planetary systems: from the ultraviolet to the optical. Monthly Notices of the Royal Astronomical Society, 2022, 511, 71-82.	4.4	8
84	WHITE DWARFS IN THE UKIRT INFRARED DEEP SKY SURVEY DATA RELEASE 9. Astrophysical Journal, 2014, 788, 103.	4.5	6
85	Doppler beaming factors for white dwarfs, main sequence stars, and giant stars. Astronomy and Astrophysics, 2020, 641, A157.	5.1	6
86	A white dwarf bound to the transiting planetary system WASP-98. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4416-4422.	4.4	5
87	The onset of convective coupling and freezing in the white dwarfs of 47 Tucanae. Monthly Notices of the Royal Astronomical Society, 2018, 474, 677-682.	4.4	1
88	The potential of 3D radiation-hydrodynamics models for white dwarf asteroseismology. EPJ Web of Conferences, 2013, 43, 05008.	0.3	0
89	New insights on pulsating white dwarfs from 3D radiation-hydrodynamical simulations. Proceedings of the International Astronomical Union, 2015, 11, 667-672.	0.0	0
90	White dwarfs in the Gaia era. Proceedings of the International Astronomical Union, 2017, 12, 317-320.	0.0	0

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91	When Do Stars Go Boom?. Astrophysical Journal Letters, 2022, 931, L20.	8.3	0