

Pier-Emmanuel Tremblay

List of Publications by Year in descending order

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Version: 2024-02-01

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	J-PLUS: Spectral evolution of white dwarfs by PDF analysis. <i>Astronomy and Astrophysics</i> , 2022, 658, A79.	5.1	17
2	Kinematic properties of white dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 658, A22.	5.1	11
3	A white dwarf accreting planetary material determined from X-ray observations. <i>Nature</i> , 2022, 602, 219-222.	27.8	22
4	The Ultramassive White Dwarfs of the Alpha Persei Cluster. <i>Astrophysical Journal Letters</i> , 2022, 926, L24.	8.3	10
5	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. <i>Astrophysical Journal</i> , 2022, 928, 190.	4.5	20
6	Spectral analysis of cool white dwarfs accreting from planetary systems: from the ultraviolet to the optical. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 71-82.	4.4	8
7	When Do Stars Go Boom?. <i>Astrophysical Journal Letters</i> , 2022, 931, L20.	8.3	0
8	Alkali metals in white dwarf atmospheres as tracers of ancient planetary crusts. <i>Nature Astronomy</i> , 2021, 5, 451-459.	10.1	28
9	Horizontal spreading of planetary debris accreted by white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1646-1667.	4.4	21
10	Forever young white dwarfs: When stellar ageing stops. <i>Astronomy and Astrophysics</i> , 2021, 649, L7.	5.1	31
11	Constraining the solar neighbourhood age-metallicity relation from white dwarf-main sequence binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 3165-3176.	4.4	21
12	Weighing stars from birth to death: mass determination methods across the HRD. <i>Astronomy and Astrophysics Review</i> , 2021, 29, 1.	25.5	38
13	J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus. <i>Astronomy and Astrophysics</i> , 2021, 654, A61.	5.1	17
14	A catalogue of white dwarfs in <i>Gaia</i> EDR3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3877-3896.	4.4	122
15	3D spectroscopic analysis of helium-line white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 5274-5293.	4.4	16
16	Cool white dwarfs as standards for infrared observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 3613-3623.	4.4	17
17	Single magnetic white dwarfs with Balmer emission lines: a small class with consistent physical characteristics as possible signposts for close-in planetary companions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2564-2574.	4.4	17
18	<i>Gaia</i> white dwarfs within 40%pc. I. Spectroscopic observations of new candidates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 130-145.	4.4	45

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19	Gaia white dwarfs within 40â€‰pc II: the volume-limited Northern hemisphere sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1890-1908.	4.4	73
20	A white dwarf bound to the transiting planetary system WASP-98. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4416-4422.	4.4	5
21	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. <i>Astrophysical Journal</i> , 2020, 891, 171.	4.5	23
22	Carbon star formation as seen through the non-monotonic initialâ€‰final mass relation. <i>Nature Astronomy</i> , 2020, 4, 1102-1110.	10.1	38
23	An ultra-massive white dwarf with a mixed hydrogenâ€‰carbon atmosphere as a likely merger remnant. <i>Nature Astronomy</i> , 2020, 4, 663-669.	10.1	29
24	Gravity and limb-darkening coefficients for compact stars: DA, DB, and DBA eclipsing white dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 634, A93.	5.1	32
25	From hydrogen to helium: the spectral evolution of white dwarfs as evidence for convective mixing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3540-3552.	4.4	27
26	Constraining planet formation around 6â€‰MâŠ™ stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 765-775.	4.4	12
27	TESS first look at evolved compact pulsators. <i>Astronomy and Astrophysics</i> , 2020, 638, A82.	5.1	17
28	A White Dwarf with Transiting Circumstellar Material Far outside the Roche Limit. <i>Astrophysical Journal</i> , 2020, 897, 171.	4.5	68
29	A Systematic Search of Zwicky Transient Facility Data for Ultracompact Binary LISA-detectable Gravitational-wave Sources. <i>Astrophysical Journal</i> , 2020, 905, 32.	4.5	62
30	Intermediate-mass Stars Become Magnetic White Dwarfs. <i>Astrophysical Journal Letters</i> , 2020, 901, L14.	8.3	9
31	Doppler beaming factors for white dwarfs, main sequence stars, and giant stars. <i>Astronomy and Astrophysics</i> , 2020, 641, A157.	5.1	6
32	Calibration of the mixing-length theory for structures of helium-dominated atmosphere white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1010-1025.	4.4	22
33	Convective overshoot and macroscopic diffusion in pure-hydrogen-atmosphere white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2503-2522.	4.4	35
34	A Gaia Data Release 2 catalogue of white dwarfs and a comparison with SDSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4570-4591.	4.4	287
35	Fundamental parameter accuracy of DA and DB white dwarfs in Gaia Data Release 2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 5222-5232.	4.4	57
36	Orbital relaxation and excitation of planets tidally interacting with white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3831-3848.	4.4	21

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37	A Novel Approach to Constrain Rotational Mixing and Convective-core Overshoot in Stars Using the Initial-Final Mass Relation. <i>Astrophysical Journal Letters</i> , 2019, 871, L18.	8.3	21
38	Orbital Decay in a 20 Minute Orbital Period Detached Binary with a Hydrogen-poor Low-mass White Dwarf. <i>Astrophysical Journal Letters</i> , 2019, 886, L12.	8.3	42
39	Discovery of the first resolved triple white dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 901-907.	4.4	14
40	Core crystallization and pile-up in the cooling sequence of evolving white dwarfs. <i>Nature</i> , 2019, 565, 202-205.	27.8	97
41	J-PLUS: photometric calibration of large-area multi-filter surveys with stellar and white dwarf loci. <i>Astronomy and Astrophysics</i> , 2019, 631, A119.	5.1	36
42	Can magnetic fields suppress convection in the atmosphere of cool white dwarfs? A case study on WD2105+820. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 3693-3699.	4.4	27
43	Pure-helium 3D model atmospheres of white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1522-1537.	4.4	26
44	The White Dwarf Initial-Final Mass Relation for Progenitor Stars from 0.85 to 7.5 M_{\odot} . <i>Astrophysical Journal</i> , 2018, 866, 21.	4.5	209
45	Fast spectrophotometry of WD J1145+017. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 703-714.	4.4	22
46	The Gaia 200pc white dwarf sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3942-3961.	4.4	94
47	The onset of convective coupling and freezing in the white dwarfs of 47 Tucanae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 677-682.	4.4	1
48	Evidence from K2 for Rapid Rotation in the Descendant of an Intermediate-mass Star. <i>Astrophysical Journal Letters</i> , 2017, 841, L2.	8.3	24
49	White Dwarf Rotation as a Function of Mass and a Dichotomy of Mode Line Widths: Kepler Observations of 27 Pulsating DA White Dwarfs through K2 Campaign 8. <i>Astrophysical Journal, Supplement Series</i> , 2017, 232, 23.	7.7	128
50	Hydrogen Balmer Line Broadening in Solar and Stellar Flares. <i>Astrophysical Journal</i> , 2017, 837, 125.	4.5	45
51	Two white dwarfs in ultrashort binaries with detached, eclipsing, likely sub-stellar companions detected by K2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 976-986.	4.4	35
52	The Gaia DR1 mass-radius relation for white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 2849-2861.	4.4	41
53	Multiband photometry and spectroscopy of an all-sky sample of bright white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4173-4192.	4.4	20
54	Using large spectroscopic surveys to test the double degenerate model for Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 2910-2922.	4.4	21

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55	Destroying Aliases from the Ground and Space: Super-Nyquist ZZ Ceti in K2 Long Cadence Data. <i>Astrophysical Journal</i> , 2017, 851, 24.	4.5	15
56	White dwarfs in the Gaia era. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 317-320.	0.0	0
57	AN ULTRAMASSIVE 1.28 M_{\odot} WHITE DWARF IN NGC 2099*. <i>Astrophysical Journal Letters</i> , 2016, 820, L18.	8.3	17
58	TWO MASSIVE WHITE DWARFS FROM NGC 2323 AND THE INITIAL-FINAL MASS RELATION FOR PROGENITORS OF $4-6.5 M_{\odot}$. <i>Astrophysical Journal</i> , 2016, 818, 84.	4.5	35
59	OUTBURSTS IN TWO NEW COOL PULSATING DA WHITE DWARFS. <i>Astrophysical Journal</i> , 2016, 829, 82.	4.5	21
60	The field white dwarf mass distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 2100-2114.	4.4	99
61	CONSTRAINING WHITE DWARF STRUCTURE AND NEUTRINO PHYSICS IN 47 TUCANAE. <i>Astrophysical Journal</i> , 2016, 821, 27.	4.5	9
62	The search for ZZ Ceti stars in the original <i>Kepler</i> mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 2855-2863.	4.4	13
63	A search for white dwarfs in the Galactic plane: the field and the open cluster population. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1988-2004.	4.4	18
64	ON THE EVOLUTION OF MAGNETIC WHITE DWARFS. <i>Astrophysical Journal</i> , 2015, 812, 19.	4.5	52
65	3D MODEL ATMOSPHERES FOR EXTREMELY LOW-MASS WHITE DWARFS. <i>Astrophysical Journal</i> , 2015, 809, 148.	4.5	60
66	New insights on pulsating white dwarfs from 3D radiation-hydrodynamical simulations. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 667-672.	0.0	0
67	CALIBRATION OF THE MIXING-LENGTH THEORY FOR CONVECTIVE WHITE DWARF ENVELOPES. <i>Astrophysical Journal</i> , 2015, 799, 142.	4.5	50
68	A NEW MERGING DOUBLE DEGENERATE BINARY IN THE SOLAR NEIGHBORHOOD. <i>Astronomical Journal</i> , 2015, 149, 176.	4.7	17
69	A MEASUREMENT OF DIFFUSION IN 47 TUCANAE. <i>Astrophysical Journal</i> , 2015, 804, 53.	4.5	19
70	INITIAL-FINAL MASS RELATION FOR 3 TO 4 M_{\odot} PROGENITORS OF WHITE DWARFS FROM THE SINGLE CLUSTER NGC 2099. <i>Astrophysical Journal</i> , 2015, 807, 90.	4.5	23
71	Precise parameters for both white dwarfs in the eclipsing binary CSS 41177. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 3399-3408.	4.4	42
72	WHITE DWARF COSMOCHRONOLOGY IN THE SOLAR NEIGHBORHOOD. <i>Astrophysical Journal</i> , 2014, 791, 92.	4.5	68

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73	WHITE DWARFS IN THE UKIRT INFRARED DEEP SKY SURVEY DATA RELEASE 9. <i>Astrophysical Journal</i> , 2014, 788, 103.	4.5	6
74	THE CORE MASS GROWTH AND STELLAR LIFETIME OF THERMALLY PULSING ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2014, 782, 17.	4.5	54
75	<i>Gaia</i> photometry for white dwarfs. <i>Astronomy and Astrophysics</i> , 2014, 565, A11.	5.1	45
76	Granulation properties of giants, dwarfs, and white dwarfs from the CIFIST 3D model atmosphere grid. <i>Astronomy and Astrophysics</i> , 2013, 557, A7.	5.1	57
77	Pure-hydrogen 3D model atmospheres of cool white dwarfs. <i>Astronomy and Astrophysics</i> , 2013, 552, A13.	5.1	41
78	The potential of 3D radiation-hydrodynamics models for white dwarf asteroseismology. <i>EPJ Web of Conferences</i> , 2013, 43, 05008.	0.3	0
79	Spectroscopic analysis of DA white dwarfs with 3D model atmospheres. <i>Astronomy and Astrophysics</i> , 2013, 559, A104.	5.1	156
80	THE SPECTRAL ENERGY DISTRIBUTIONS OF WHITE DWARFS IN 47 Tucanae: THE DISTANCE TO THE CLUSTER. <i>Astronomical Journal</i> , 2012, 143, 50.	4.7	47
81	AN EMPIRICAL MEASURE OF THE RATE OF WHITE DWARF COOLING IN 47 TUCANAE. <i>Astrophysical Journal</i> , 2012, 760, 78.	4.5	14
82	Spectroscopic and photometric studies of white dwarfs in the Hyades. <i>Astronomy and Astrophysics</i> , 2012, 547, A99.	5.1	16
83	The brightest pure-H ultracool white dwarf. <i>Astronomy and Astrophysics</i> , 2012, 546, L3.	5.1	8
84	COOL WHITE DWARFS FOUND IN THE UKIRT INFRARED DEEP SKY SURVEY. <i>Astrophysical Journal</i> , 2011, 735, 62.	4.5	13
85	AN IMPROVED SPECTROSCOPIC ANALYSIS OF DA WHITE DWARFS FROM THE SLOAN DIGITAL SKY SURVEY DATA RELEASE 4. <i>Astrophysical Journal</i> , 2011, 730, 128.	4.5	359
86	Solution to the problem of the surface gravity distribution of cool DA white dwarfs from improved 3D model atmospheres. <i>Astronomy and Astrophysics</i> , 2011, 531, L19.	5.1	58
87	ABSOLUTE FLUX CALIBRATION OF THE IRAC INSTRUMENT ON THE <i>SPITZER</i> SPACE TELESCOPE USING <i>HUBBLE</i> SPACE TELESCOPE FLUX STANDARDS. <i>Astronomical Journal</i> , 2011, 141, 173.	4.7	28
88	NEW INSIGHTS INTO THE PROBLEM OF THE SURFACE GRAVITY DISTRIBUTION OF COOL DA WHITE DWARFS. <i>Astrophysical Journal</i> , 2010, 712, 1345-1358.	4.5	59
89	A DETAILED MODEL ATMOSPHERE ANALYSIS OF COOL WHITE DWARFS IN THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal</i> , Supplement Series, 2010, 190, 77-99.	7.7	48
90	SPECTROSCOPIC ANALYSIS OF DA WHITE DWARFS: STARK BROADENING OF HYDROGEN LINES INCLUDING NONIDEAL EFFECTS. <i>Astrophysical Journal</i> , 2009, 696, 1755-1770.	4.5	290

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91	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