

Jan van Roestel

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,754
citations

331670

21
h-index

243625

44
g-index

46
all docs

46
docs citations

46
times ranked

2957
citing authors

#	ARTICLE	IF	CITATIONS
1	The Zwicky Transient Facility: System Overview, Performance, and First Results. Publications of the Astronomical Society of the Pacific, 2019, 131, 018002.	3.1	1,020
2	The Zwicky Transient Facility: Science Objectives. Publications of the Astronomical Society of the Pacific, 2019, 131, 078001.	3.1	453
3	The second data release of the INT Photometric H&I Survey of the Northern Galactic Plane (IPHAS DR2). Monthly Notices of the Royal Astronomical Society, 2014, 444, 3230-3257.	4.4	131
4	A radio-pulsing white dwarf binary star. Nature, 2016, 537, 374-377.	27.8	117
5	General relativistic orbital decay in a seven-minute-orbital-period eclipsing binary system. Nature, 2019, 571, 528-531.	27.8	96
6	Machine Learning for the Zwicky Transient Facility. Publications of the Astronomical Society of the Pacific, 2019, 131, 038002.	3.1	83
7	A Systematic Search of Zwicky Transient Facility Data for Ultracompact Binary LISA-detectable Gravitational-wave Sources. Astrophysical Journal, 2020, 905, 32.	4.5	62
8	Bright, Months-long Stellar Outbursts Announce the Explosion of Interaction-powered Supernovae. Astrophysical Journal, 2021, 907, 99.	4.5	59
9	A WC/WO star exploding within an expanding carbon-oxygen-neon nebula. Nature, 2022, 601, 201-204.	27.8	48
10	The First Ultracompact Roche Lobe-Filling Hot Subdwarf Binary. Astrophysical Journal, 2020, 891, 45.	4.5	47
11	Real-time discovery of AT2020xnd: a fast, luminous ultraviolet transient with minimal radioactive ejecta. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5138-5147.	4.4	44
12	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
13	ZTF Early Observations of Type Ia Supernovae. II. First Light, the Initial Rise, and Time to Reach Maximum Brightness. Astrophysical Journal, 2020, 902, 47.	4.5	35
14	A hot subdwarf-white dwarf super-Chandrasekhar candidate supernova Ia progenitor. Nature Astronomy, 2021, 5, 1052-1061.	10.1	34
15	A New Class of Roche Lobe-Filling Hot Subdwarf Binaries. Astrophysical Journal Letters, 2020, 898, L25.	8.3	33
16	Convolutional neural networks for transient candidate vetting in large-scale surveys. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3101-3114.	4.4	32
17	A New Class of Large-amplitude Radial-mode Hot Subdwarf Pulsators. Astrophysical Journal Letters, 2019, 878, L35.	8.3	32
18	Discovery of 36 eclipsing EL CVn binaries found by the Palomar Transient Factory. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2560-2590.	4.4	30

#	ARTICLE	IF	CITATIONS
19	PTF1 J082340.04+081936.5: A Hot Subdwarf B Star with a Low-mass White Dwarf Companion in an 87-minute Orbit. <i>Astrophysical Journal</i> , 2017, 835, 131.	4.5	28
20	High-speed photometry of Gaia14aae: an eclipsing AM CVn that challenges formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1663-1679.	4.4	28
21	ZTF20aajnksq (AT 2020bft): A Fast Optical Transient at $z \approx 2.9$ with No Detected Gamma-Ray Burst Counterpart. <i>Astrophysical Journal</i> , 2020, 905, 98.	4.5	24
22	Cataclysmic Variables in the First Year of the Zwicky Transient Facility. <i>Astronomical Journal</i> , 2020, 159, 198.	4.7	22
23	Discovery and characterization of five new eclipsing AM CVn systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 5440-5461.	4.4	22
24	The OmegaWhite Survey for Short-period Variable Stars. V. Discovery of an Ultracompact Hot Subdwarf Binary with a Compact Companion in a 44-minute Orbit. <i>Astrophysical Journal</i> , 2017, 851, 28.	4.5	21
25	Discovery of a Double-detonation Thermonuclear Supernova Progenitor. <i>Astrophysical Journal Letters</i> , 2022, 925, L12.	8.3	20
26	SN 2018fif: The Explosion of a Large Red Supergiant Discovered in Its Infancy by the Zwicky Transient Facility. <i>Astrophysical Journal</i> , 2020, 902, 6.	4.5	18
27	The Kitt Peak Electron Multiplying CCD demonstrator. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1412-1419.	4.4	16
28	The ZTF Source Classification Project. I. Methods and Infrastructure. <i>Astronomical Journal</i> , 2021, 161, 267.	4.7	16
29	A Systematic Search for Outbursting AM CVn Systems with the Zwicky Transient Facility. <i>Astronomical Journal</i> , 2021, 162, 113.	4.7	15
30	ZTFJ0038+2030: A Long-period Eclipsing White Dwarf and a Substellar Companion. <i>Astrophysical Journal Letters</i> , 2021, 919, L26.	8.3	15
31	A 62-minute orbital period black widow binary in a wide hierarchical triple. <i>Nature</i> , 2022, 605, 41-45.	27.8	13
32	Multi-wavelength Observations of AT2019wey: a New Candidate Black Hole Low-mass X-ray Binary. <i>Astrophysical Journal</i> , 2021, 920, 120.	4.5	12
33	The Palomar Transient Factory Sky2Night programme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4507-4528.	4.4	11
34	Confirmation of a Second Propeller: A High-inclination Twin of AE Aquarii. <i>Astrophysical Journal</i> , 2021, 917, 22.	4.5	11
35	Simultaneous Observations of the Northern TESS Sectors by the Zwicky Transient Facility. <i>Research Notes of the AAS</i> , 2019, 3, 136.	0.7	11
36	Time-series and Phase-curve Photometry of the Episodically Active Asteroid (6478) Gault in a Quiescent State Using APO, GROWTH, P200, and ZTF. <i>Astrophysical Journal Letters</i> , 2021, 911, L35.	8.3	10

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37	Phase-resolved spectroscopy of Gaia14aae: line emission from near the white dwarf surface. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1947-1960.	4.4	9
38	Cataclysmic Variables in the Second Year of the Zwicky Transient Facility. Astronomical Journal, 2021, 162, 94.	4.7	8
39	SN 2020bjj: A Type Ibn supernova with a long-lasting peak plateau. Astronomy and Astrophysics, 2021, 652, A136.	5.1	7
40	The OmegaWhite survey for short-period variable stars â€“ VII. High amplitude short-period blue variables. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2215-2225.	4.4	6
41	An Outburst by AM CVn Binary SDSS J113732.32+405458.3. Research Notes of the AAS, 2021, 5, 3.	0.7	5
42	The OmegaWhite Survey for short-period variable stars â€“ IV. Discovery of the warm DQ white dwarf OWâ€“J175358.85â€“310728.9. Monthly Notices of the Royal Astronomical Society, 2017, 470, 732-741.	4.4	3
43	HO Puppis: Not a Be Star, but a Newly Confirmed IW And-type Star. Astrophysical Journal, 2021, 911, 51.	4.5	3
44	PTF1 J085713+331843, a new post-common-envelope binary in the orbital period gap of cataclysmic variables. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3109-3122.	4.4	2