

Zorawar Wadiasingh

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,814
citations

159585

30
h-index

189892

50
g-index

90
all docs

90
docs citations

90
times ranked

3330
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulse Peak Migration during the Outburst Decay of the Magnetar SGR 1830-0645: Crustal Motion and Magnetospheric Untwisting. <i>Astrophysical Journal Letters</i> , 2022, 924, L27.	8.3	12
2	X-Ray Burst and Persistent Emission Properties of the Magnetar SGR 1830-0645 in Outburst. <i>Astrophysical Journal</i> , 2022, 924, 136.	4.5	5
3	A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background. <i>Science</i> , 2022, 376, 521-523.	12.6	14
4	Probing the non-thermal emission geometry of AR Sco via optical phase-resolved polarimetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 2998-3010.	4.4	5
5	Limits on the Hard X-Ray Emission From the Periodic Fast Radio Burst FRB 180916.J0158+65. <i>Astrophysical Journal</i> , 2022, 929, 173.	4.5	3
6	Simultaneous View of FRB 180301 with FAST and NICER during a Bursting Phase. <i>Astrophysical Journal</i> , 2022, 930, 172.	4.5	5
7	Search for New Cosmic-Ray Acceleration Sites within the 4FGL Catalog Galactic Plane Sources. <i>Astrophysical Journal</i> , 2022, 933, 204.	4.5	3
8	The Multipolar Magnetic Field of the Millisecond Pulsar PSR J0030+0451. <i>Astrophysical Journal</i> , 2021, 907, 63.	4.5	29
9	Broadband X-ray burst spectroscopy of the fast-radio-burst-emitting Galactic magnetar. <i>Nature Astronomy</i> , 2021, 5, 408-413.	10.1	31
10	NICER Discovery of Millisecond X-Ray Pulsations and an Ultracompact Orbit in IGR J17494-3030. <i>Astrophysical Journal Letters</i> , 2021, 908, L15.	8.3	14
11	Enhanced x-ray emission coinciding with giant radio pulses from the Crab Pulsar. <i>Science</i> , 2021, 372, 187-190.	12.6	13
12	Long-term Coherent Timing of the Accreting Millisecond Pulsar IGR J17062+6143. <i>Astrophysical Journal</i> , 2021, 912, 120.	4.5	13
13	Search for dark matter annihilation in the Wolf-Lundmark-Melotte dwarf irregular galaxy with H.E.S.S.. <i>Physical Review D</i> , 2021, 103, .	4.7	13
14	Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. III. Model Description and Verification of Parameter Estimation Codes. <i>Astrophysical Journal Letters</i> , 2021, 914, L15.	8.3	27
15	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. <i>Science</i> , 2021, 372, 1081-1085.	12.6	86
16	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. <i>Astrophysical Journal</i> , 2021, 917, 6.	4.5	15
17	Search for Long-duration Gravitational-wave Signals Associated with Magnetar Giant Flares. <i>Astrophysical Journal</i> , 2021, 918, 80.	4.5	4
18	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. <i>Astrophysical Journal</i> , 2021, 919, 106.	4.5	6

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19	Identification of a Local Sample of Gamma-Ray Bursts Consistent with a Magnetar Giant Flare Origin. <i>Astrophysical Journal Letters</i> , 2021, 907, L28.	8.3	33
20	Radio pulsations from the $\hat{\Gamma}^3$ -ray millisecond pulsar PSR J2039+5617. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 935-952.	4.4	11
21	Einstein@Home discovery of the gamma-ray millisecond pulsar PSR J2039+5617 confirms its predicted redback nature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 915-934.	4.4	35
22	A Month of Monitoring the New Magnetar Swift J1555.2+5402 during an X-Ray Outburst. <i>Astrophysical Journal Letters</i> , 2021, 920, L4.	8.3	3
23	A Comprehensive X-Ray Report on AT2019wey. <i>Astrophysical Journal</i> , 2021, 920, 121.	4.5	8
24	Resolving the Crab pulsar wind nebula at teraelectronvolt energies. <i>Nature Astronomy</i> , 2020, 4, 167-173.	10.1	25
25	Periodicity in recurrent fast radio bursts and the origin of ultralong period magnetars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 3390-3401.	4.4	68
26	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. <i>Astrophysical Journal Letters</i> , 2020, 894, L16.	8.3	9
27	Resolving acceleration to very high energies along the jet of Centaurus A. <i>Nature</i> , 2020, 582, 356-359.	27.8	37
28	Detection of very-high-energy $\hat{\Gamma}^3$ -ray emission from the colliding wind binary Car with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2020, 635, A167.	5.1	20
29	The Fast Radio Burst Luminosity Function and Death Line in the Low-twist Magnetar Model. <i>Astrophysical Journal</i> , 2020, 891, 82.	4.5	43
30	A Radiatively Quiet Glitch and Anti-glitch in the Magnetar 1E2259+586. <i>Astrophysical Journal Letters</i> , 2020, 896, L42.	8.3	13
31	H.E.S.S. and Fermi-LAT observations of PSR B1259+63/LS 2883 during its 2014 and 2017 periastron passages. <i>Astronomy and Astrophysics</i> , 2020, 633, A102.	5.1	17
32	H.E.S.S. detection of very high-energy $\hat{\Gamma}^3$ -ray emission from the quasar PKS 0736+017. <i>Astronomy and Astrophysics</i> , 2020, 633, A162.	5.1	15
33	Very high energy $\hat{\Gamma}^3$ -ray emission from two blazars of unknown redshift and upper limits on their distance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5590-5602.	4.4	19
34	Simultaneous observations of the blazar PKS 2155+304 from ultra-violet to TeV energies. <i>Astronomy and Astrophysics</i> , 2020, 639, A42.	5.1	7
35	NICER Observation of the Temporal and Spectral Evolution of Swift J1818.0+1607: A Missing Link between Magnetars and Rotation-powered Pulsars. <i>Astrophysical Journal</i> , 2020, 902, 1.	4.5	21
36	X-Ray through Very High Energy Intrabinary Shock Emission from Black Widows and Redbacks. <i>Astrophysical Journal</i> , 2020, 904, 91.	4.5	18

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37	Simultaneous Magnetic Polar Cap Heating during a Flaring Episode from the Magnetar 1RXS J170849.0â€“400910. <i>Astrophysical Journal Letters</i> , 2020, 889, L27.	8.3	7
38	Fast Radio Burst Trains from Magnetar Oscillations. <i>Astrophysical Journal Letters</i> , 2020, 903, L38.	8.3	21
39	NICER View of the 2020 Burst Storm and Persistent Emission of SGR 1935+2154. <i>Astrophysical Journal Letters</i> , 2020, 904, L21.	8.3	53
40	Repeating Fast Radio Bursts from Magnetars with Low Magnetospheric Twist. <i>Astrophysical Journal</i> , 2019, 879, 4.	4.5	91
41	Upper limits on very-high-energy gamma-ray emission from core-collapse supernovae observed with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2019, 626, A57.	5.1	9
42	A Fundamental Plane for Gamma-Ray Pulsars. <i>Astrophysical Journal Letters</i> , 2019, 883, L4.	8.3	25
43	Opacities for photon splitting and pair creation in neutron star magnetospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3327-3349.	4.4	14
44	H.E.S.S. observations of the flaring gravitationally lensed galaxy PKSâ€“1830â€“211. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3886-3891.	4.4	5
45	H.E.S.S. and <i>Suzaku</i> observations of the Vela X pulsar wind nebula. <i>Astronomy and Astrophysics</i> , 2019, 627, A100.	5.1	15
46	A very-high-energy component deep in the $\hat{\nu}^3$ -ray burst afterglow. <i>Nature</i> , 2019, 575, 464-467.	27.8	166
47	Constraints on the emission region of 3C 279 during strong flares in 2014 and 2015 through VHE $\hat{\nu}^3$ -ray observations with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2019, 627, A159.	5.1	32
48	Particle transport within the pulsar wind nebula HESS J1825â€“137. <i>Astronomy and Astrophysics</i> , 2019, 621, A116.	5.1	57
49	The 2014 TeV $\hat{\nu}^3$ -Ray Flare of Mrk 501 Seen with H.E.S.S.: Temporal and Spectral Constraints on Lorentz Invariance Violation. <i>Astrophysical Journal</i> , 2019, 870, 93.	4.5	47
50	Constraining the Emission Geometry and Mass of the White Dwarf Pulsar AR Sco Using the Rotating Vector Model. <i>Astrophysical Journal</i> , 2019, 887, 44.	4.5	8
51	Resonant Inverse Compton Scattering Spectra from Highly Magnetized Neutron Stars. <i>Astrophysical Journal</i> , 2018, 854, 98.	4.5	37
52	H.E.S.S. discovery of very high energy $\hat{\nu}^3$ -ray emission from PKSâ€“0625â€“354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4187-4198.	4.4	21
53	Pressure Balance and Intrabinary Shock Stability in Rotation-powered-state Redback and Transitional Millisecond Pulsar Binary Systems. <i>Astrophysical Journal</i> , 2018, 869, 120.	4.5	29
54	The population of TeV pulsar wind nebulae in the H.E.S.S. Galactic Plane Survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A2.	5.1	117

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55	Systematic search for very-high-energy gamma-ray emission from bow shocks of runaway stars. <i>Astronomy and Astrophysics</i> , 2018, 612, A12.	5.1	13
56	The γ -ray spectrum of the core of Centaurus A as observed with H.E.S.S. and <i>Fermi</i> -LAT. <i>Astronomy and Astrophysics</i> , 2018, 619, A71.	5.1	28
57	Searches for gamma-ray lines and $\tilde{\chi}$ -pure WIMP spectra from Dark Matter annihilations in dwarf galaxies with H.E.S.S.. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 037-037.	5.4	30
58	A search for very high-energy flares from the microquasars GRS 1915+105, Circinus X-1, and V4641 Sgr using contemporaneous H.E.S.S. and RXTE observations. <i>Astronomy and Astrophysics</i> , 2018, 612, A10.	5.1	7
59	Population study of Galactic supernova remnants at very high γ -ray energies with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2018, 612, A3.	5.1	44
60	Extended VHE γ -ray emission towards SGR1806 \hat{a} ²⁰ , LBV 1806 \hat{a} ²⁰ , and stellar cluster Cl* 1806 \hat{a} ²⁰ . <i>Astronomy and Astrophysics</i> , 2018, 612, A11.	5.1	12
61	H.E.S.S. observations of RX J1713.7 \hat{a} ³⁹⁴⁶ with improved angular and spectral resolution: Evidence for gamma-ray emission extending beyond the X-ray emitting shell. <i>Astronomy and Astrophysics</i> , 2018, 612, A6.	5.1	95
62	The supernova remnant W49B as seen with H.E.S.S. and <i>Fermi</i> -LAT. <i>Astronomy and Astrophysics</i> , 2018, 612, A5.	5.1	35
63	The starburst galaxy NGC 253 revisited by H.E.S.S. and <i>Fermi</i> -LAT. <i>Astronomy and Astrophysics</i> , 2018, 617, A73.	5.1	41
64	First ground-based measurement of sub-20 GeV to 100 GeV γ -Rays from the Vela pulsar with H.E.S.S. II. <i>Astronomy and Astrophysics</i> , 2018, 620, A66.	5.1	32
65	Characterising the VHE diffuse emission in the central 200 parsecs of our Galaxy with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2018, 612, A9.	5.1	52
66	HESS J1741 \hat{a} ³⁰² : a hidden accelerator in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2018, 612, A13.	5.1	4
67	A search for new supernova remnant shells in the Galactic plane with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2018, 612, A8.	5.1	32
68	Search for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{\gamma} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Ray Line Signals from Dark Matter Annihilations in the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. <i>Physical Review Letters</i> , 2018, 120, 201101.	7.8	105
69	Deeper H.E.S.S. observations of Vela Junior (RX J0852.0 \hat{a} ⁴⁶²²): Morphology studies and resolved spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 612, A7.	5.1	43
70	Detection of variable VHE γ -ray emission from the extra-galactic γ -ray binary LMC P3. <i>Astronomy and Astrophysics</i> , 2018, 610, L17.	5.1	12
71	The H.E.S.S. Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A1.	5.1	244
72	Characterizing the γ -ray long-term variability of PKS $\hat{\epsilon}$ %2155 \hat{a} ³⁰⁴ with H.E.S.S. and <i>Fermi</i> -LAT. <i>Astronomy and Astrophysics</i> , 2017, 598, A39.	5.1	33

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73	Constraining Relativistic Bow Shock Properties in Rotation-powered Millisecond Pulsar Binaries. <i>Astrophysical Journal</i> , 2017, 839, 80.	4.5	47
74	First limits on the very-high energy gamma-ray afterglow emission of a fast radio burst. <i>Astronomy and Astrophysics</i> , 2017, 597, A115.	5.1	6
75	TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. <i>Astrophysical Journal Letters</i> , 2017, 850, L22.	8.3	38
76	Gamma-ray blazar spectra with H.E.S.S. II mono analysis: The case of PKS 2155-304 and PG 1553+113. <i>Astronomy and Astrophysics</i> , 2017, 600, A89.	5.1	29
77	Hard Spectral Tails in Magnetars. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 108-111.	0.0	0
78	Measurement of the EBL spectral energy distribution using the VHE γ -ray spectra of H.E.S.S. blazars. <i>Astronomy and Astrophysics</i> , 2017, 606, A59.	5.1	54
79	MSP Binaries as Astrophysical Laboratories. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 420-421.	0.0	0
80	Hard X-ray quiescent emission in magnetars via resonant Compton upscattering. <i>Journal of Physics: Conference Series</i> , 2017, 932, 012021.	0.4	2
81	Search for Dark Matter Annihilations towards the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. <i>Physical Review Letters</i> , 2016, 117, 111301.	7.8	233
82	H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100 GeV to 2 TeV Energy Range Close to the Galactic Center. <i>Physical Review Letters</i> , 2016, 117, 151302.	7.8	43
83	Orbitally Modulated Emission at Intrabinary Shocks in Millisecond Pulsar Binaries. , 2016, , .		0
84	The Aid of Optical Studies in Understanding Millisecond Pulsar Binaries. , 2016, , .		0
85	Compton scattering in strong magnetic fields: Spin-dependent influences at the cyclotron resonance. <i>Physical Review D</i> , 2014, 90, .	4.7	18
86	COOLING RATES FOR RELATIVISTIC ELECTRONS UNDERGOING COMPTON SCATTERING IN STRONG MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2011, 733, 61.	4.5	24
87	STANDARD SUPERSYMMETRY FROM A PLANCK-SCALE STATISTICAL THEORY. , 2008, , .		0
88	VHE γ -ray discovery and multi-wavelength study of the blazar 1ES 2322-409. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	3