Zorawar Wadiasingh

List of Publications by Year
in descending order

88	2,814	159585 30	189892 50
papers	citations	h-index	g-index

90	90	90	3330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The H.E.S.S. Galactic plane survey. Astronomy and Astrophysics, 2018, 612, A1.	5.1	244
2	Search for Dark Matter Annihilations towards the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. Physical Review Letters, 2016, 117, 111301.	7.8	233
3	A very-high-energy component deep in the Î³-ray burst afterglow. Nature, 2019, 575, 464-467.	27.8	166
4	The population of TeV pulsar wind nebulae in the H.E.S.S. Galactic Plane Survey. Astronomy and Astrophysics, 2018, 612, A2.	5.1	117
5	Search for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> -Ray Line Signals from Dark Matter Annihilations in the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. Physical Review Letters, 2018, 120, 201101.	7.8	105
6	H.E.S.S. observations of RX J1713.7â˜3946 with improved angular and spectral resolution: Evidence for gamma-ray emission extending beyond the X-ray emitting shell. Astronomy and Astrophysics, 2018, 612, A6.	5.1	95
7	Repeating Fast Radio Bursts from Magnetars with Low Magnetospheric Twist. Astrophysical Journal, 2019, 879, 4.	4.5	91
8	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. Science, 2021, 372, 1081-1085.	12.6	86
9	Periodicity in recurrent fast radio bursts and the origin of ultralong period magnetars. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3390-3401.	4.4	68
10	Particle transport within the pulsar wind nebula HESS J1825â€“137. Astronomy and Astrophysics, 2019, 621, A116.	5.1	57
11	Measurement of the EBL spectral energy distribution using the VHE Î³-ray spectra of H.E.S.S. blazars. Astronomy and Astrophysics, 2017, 606, A59.	5.1	54
12	NICER View of the 2020 Burst Storm and Persistent Emission of SGR 1935+2154. Astrophysical Journal Letters, 2020, 904, L21.	8.3	53
13	Characterising the VHE diffuse emission in the central 200 parsecs of our Galaxy with H.E.S.S.. Astronomy and Astrophysics, 2018, 612, A9.	5.1	52
14	Constraining Relativistic Bow Shock Properties in Rotation-powered Millisecond Pulsar Binaries. Astrophysical Journal, 2017, 839, 80.	4.5	47
15	The 2014 TeV Î³-Ray Flare of Mrk 501 Seen with H.E.S.S.: Temporal and Spectral Constraints on Lorentz Invariance Violation. Astrophysical Journal, 2019, 870, 93.	4.5	47
16	Population study of Galactic supernova remnants at very high Î³-ray energies with H.E.S.S.. Astronomy and Astrophysics, 2018, 612, A3.	5.1	44
17	H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100ÂGeV to 2ÂTeV Energy Range Close to the Galactic Center. Physical Review Letters, 2016, 117, 151302.	7.8	43
18	Deeper H.E.S.S. observations of Vela Junior (RX J0852.0â˜4622): Morphology studies and resolved spectroscopy. Astronomy and Astrophysics, 2018, 612, A7.	5.1	43

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19	The Fast Radio Burst Luminosity Function and Death Line in the Low-twist Magnetar Model. Astrophysical Journal, 2020, 891, 82.	4.5	43
20	The starburst galaxy NGC 253 revisited by H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 617, A73.	5.1	41
21	TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. Astrophysical Journal Letters, 2017, 850, L22.	8.3	38
22	Resonant Inverse Compton Scattering Spectra from Highly Magnetized Neutron Stars. Astrophysical Journal, 2018, 854, 98.	4.5	37
23	Resolving acceleration to very high energies along the jet of Centaurus A. Nature, 2020, 582, 356-359.	27.8	37
24	The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 612, A5.	5.1	35
25	Einstein@Home discovery of the gamma-ray millisecond pulsar PSR J2039â€“5617 confirms its predicted redback nature. Monthly Notices of the Royal Astronomical Society, 2021, 502, 915-934.	4.4	35
26	Characterizing the Î³-ray long-term variability of PKSâ€‰2155â^'304 with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2017, 598, A39.	5.1	33
27	Identification of a Local Sample of Gamma-Ray Bursts Consistent with a Magnetar Giant Flare Origin. Astrophysical Journal Letters, 2021, 907, L28.	8.3	33
28	First ground-based measurement of sub-20 GeV to 100 GeV Î³-Rays from the Vela pulsar with H.E.S.S. II. Astronomy and Astrophysics, 2018, 620, A66.	5.1	32
29	A search for new supernova remnant shells in the Galactic plane with H.E.S.S.. Astronomy and Astrophysics, 2018, 612, A8.	5.1	32
30	Constraints on the emission region of 3C 279 during strong flares in 2014 and 2015 through VHE Î³-ray observations with H.E.S.S.. Astronomy and Astrophysics, 2019, 627, A159.	5.1	32
31	Broadband X-ray burst spectroscopy of the fast-radio-burst-emitting Galactic magnetar. Nature Astronomy, 2021, 5, 408-413.	10.1	31
32	Searches for gamma-ray lines and â€˜pure WIMPâ€™ spectra from Dark Matter annihilations in dwarf galaxies with H.E.S.S.. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 037-037.	5.4	30
33	Gamma-ray blazar spectra with H.E.S.S. II mono analysis: The case of PKSâ€‰2155â^'304 and PGâ€‰1553+113. Astronomy and Astrophysics, 2017, 600, A89.	5.1	29
34	Pressure Balance and Intrabinary Shock Stability in Rotation-powered-state Redback and Transitional Millisecond Pulsar Binary Systems. Astrophysical Journal, 2018, 869, 120.	4.5	29
35	The Multipolar Magnetic Field of the Millisecond Pulsar PSR J0030+0451. Astrophysical Journal, 2021, 907, 63.	4.5	29
36	The Î³-ray spectrum of the core of Centaurus A as observed with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 619, A71.	5.1	28

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37	Constraining the Neutron Star Massâ€“Radius Relation and Dense Matter Equation of State with NICER. III. Model Description and Verification of Parameter Estimation Codes. Astrophysical Journal Letters, 2021, 914, L15.	8.3	27
38	A Fundamental Plane for Gamma-Ray Pulsars. Astrophysical Journal Letters, 2019, 883, L4.	8.3	25
39	Resolving the Crab pulsar wind nebula at teraelectronvolt energies. Nature Astronomy, 2020, 4, 167-173.	10.1	25
40	COOLING RATES FOR RELATIVISTIC ELECTRONS UNDERGOING COMPTON SCATTERING IN STRONG MAGNETIC FIELDS. Astrophysical Journal, 2011, 733, 61.	4.5	24
41	H.E.S.S. discovery of very high energy Î³-ray emission from PKSâ€‰0625â˜’354. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4187-4198.	4.4	21
42	NICER Observation of the Temporal and Spectral Evolution of Swift J1818.0â˜’1607: A Missing Link between Magnetars and Rotation-powered Pulsars. Astrophysical Journal, 2020, 902, 1.	4.5	21
43	Fast Radio Burst Trains from Magnetar Oscillations. Astrophysical Journal Letters, 2020, 903, L38.	8.3	21
44	Detection of very-high-energy Î³-ray emission from the colliding wind binary Î· Car with H.E.S.S.. Astronomy and Astrophysics, 2020, 635, A167.	5.1	20
45	Very high energy Î³-ray emission from two blazars of unknown redshift and upper limits on their distance. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5590-5602.	4.4	19
46	Compton scattering in strong magnetic fields: Spin-dependent influences at the cyclotron resonance. Physical Review D, 2014, 90, .	4.7	18
47	X-Ray through Very High Energy Intrabinary Shock Emission from Black Widows and Redbacks. Astrophysical Journal, 2020, 904, 91.	4.5	18
48	H.E.S.S. and Fermi-LAT observations of PSR B1259â€“63/LS 2883 during its 2014 and 2017 periastron passages. Astronomy and Astrophysics, 2020, 633, A102.	5.1	17
49	H.E.S.S. andSuzakuobservations of the Vela X pulsar wind nebula. Astronomy and Astrophysics, 2019, 627, A100.	5.1	15
50	H.E.S.S. detection of very high-energy Î³-ray emission from the quasar PKS 0736+017. Astronomy and Astrophysics, 2020, 633, A162.	5.1	15
51	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. Astrophysical Journal, 2021, 917, 6.	4.5	15
52	Opacities for photon splitting and pair creation in neutron star magnetospheres. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3327-3349.	4.4	14
53	NICER Discovery of Millisecond X-Ray Pulsations and an Ultracompact Orbit in IGR J17494-3030. Astrophysical Journal Letters, 2021, 908, L15.	8.3	14
54	A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background. Science, 2022, 376, 521-523.	12.6	14

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55	Systematic search for very-high-energy gamma-ray emission from bow shocks of runaway stars. Astronomy and Astrophysics, 2018, 612, A12.	5.1	13
56	A Radiatively Quiet Glitch and Anti-glitch in the Magnetar 1EÂ2259+586. Astrophysical Journal Letters, 2020, 896, L42.	8.3	13
57	Enhanced x-ray emission coinciding with giant radio pulses from the Crab Pulsar. Science, 2021, 372, 187-190.	12.6	13
58	Long-term Coherent Timing of the Accreting Millisecond Pulsar IGR J17062â€“6143. Astrophysical Journal, 2021, 912, 120.	4.5	13
59	Search for dark matter annihilation in the Wolf-Lundmark-Melotte dwarf irregular galaxy with H.E.S.S.. Physical Review D, 2021, 103, .	4.7	13
60	Extended VHEÎ³-ray emission towards SGR1806â˜’20, LBV 1806â˜’20, and stellar cluster Cl* 1806â˜’20. Astronomy and Astrophysics, 2018, 612, A11.	5.1	12
61	Detection of variable VHE Î³-ray emission from the extra-galactic Î³-ray binary LMC P3. Astronomy and Astrophysics, 2018, 610, L17.	5.1	12
62	Pulse Peak Migration during the Outburst Decay of the Magnetar SGR 1830-0645: Crustal Motion and Magnetospheric Untwisting. Astrophysical Journal Letters, 2022, 924, L27.	8.3	12
63	Radio pulsations from the Î³-ray millisecond pulsar PSRâ€‰J2039â€“5617. Monthly Notices of the Royal Astronomical Society, 2021, 502, 935-952.	4.4	11
64	Upper limits on very-high-energy gamma-ray emission from core-collapse supernovae observed with H.E.S.S.. Astronomy and Astrophysics, 2019, 626, A57.	5.1	9
65	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. Astrophysical Journal Letters, 2020, 894, L16.	8.3	9
66	Constraining the Emission Geometry and Mass of the White Dwarf Pulsar AR Sco Using the Rotating Vector Model. Astrophysical Journal, 2019, 887, 44.	4.5	8
67	A Comprehensive X-Ray Report on AT2019wey. Astrophysical Journal, 2021, 920, 121.	4.5	8
68	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. Astronomy and Astrophysics, 2018, 612, A10.	5.1	7
69	Simultaneous observations of the blazar PKS 2155â˜’304 from ultra-violet to TeV energies. Astronomy and Astrophysics, 2020, 639, A42.	5.1	7
70	Simultaneous Magnetic Polar Cap Heating during a Flaring Episode from the Magnetar 1RXS J170849.0â€“400910. Astrophysical Journal Letters, 2020, 889, L27.	8.3	7
71	First limits on the very-high energy gamma-ray afterglow emission of a fast radio burst. Astronomy and Astrophysics, 2017, 597, A115.	5.1	6
72	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. Astrophysical Journal, 2021, 919, 106.	4.5	6

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73	H.E.S.S. observations of the flaring gravitationally lensed galaxy PKSÂ1830â€“211. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3886-3891.	4.4	5
74	X-Ray Burst and Persistent Emission Properties of the Magnetar SGR 1830-0645 in Outburst. Astrophysical Journal, 2022, 924, 136.	4.5	5
75	Probing the non-thermal emission geometry of AR Sco via optical phase-resolved polarimetry. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2998-3010.	4.4	5
76	Simultaneous View of FRB 180301 with FAST and NICER during a Bursting Phase. Astrophysical Journal, 2022, 930, 172.	4.5	5
77	HESS J1741â^'302: a hidden accelerator in the Galactic plane. Astronomy and Astrophysics, 2018, 612, A13.	5.1	4
78	Search for Long-duration Gravitational-wave Signals Associated with Magnetar Giant Flares. Astrophysical Journal, 2021, 918, 80.	4.5	4
79	VHE Î³-ray discovery and multi-wavelength study of the blazar 1ES 2322-409. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	3
80	A Month of Monitoring the New Magnetar Swift J1555.2â^'5402 during an X-Ray Outburst. Astrophysical Journal Letters, 2021, 920, L4.	8.3	3
81	Limits on the Hard X-Ray Emission From the Periodic Fast Radio Burst FRB 180916.J0158+65. Astrophysical Journal, 2022, 929, 173.	4.5	3
82	Search for New Cosmic-Ray Acceleration Sites within the 4FGL Catalog Galactic Plane Sources. Astrophysical Journal, 2022, 933, 204.	4.5	3
83	Hard X-ray quiescent emission in magnetars via resonant Compton upscattering. Journal of Physics: Conference Series, 2017, 932, 012021.	0.4	2
84	Hard Spectral Tails in Magnetars. Proceedings of the International Astronomical Union, 2017, 13, 108-111.	0.0	0
85	MSP Binaries as Astrophysical Laboratories. Proceedings of the International Astronomical Union, 2017, 13, 420-421.	0.0	0
86	STANDARD SUPERSYMMETRY FROM A PLANCK-SCALE STATISTICAL THEORY. , 2008, , .		0
87	Orbitally Modulated Emission at Intrabinary Shocks in Millisecond Pulsar Binaries. , 2016, , .		0
88	The Aid of Optical Studies in Understanding Millisecond Pulsar Binaries. , 2016, , .		0