Tim Lukas Holch

List of Publications by Year
in descending order

38 papers	2,047 citations	361413 20 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	2999 citing authors

#	Article	IF	Citations
1	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. Science, 2018, 361, .	12.6	654
2	The H.E.S.S. Galactic plane survey. Astronomy and Astrophysics, 2018, 612, A1.	5.1	244
3	A very-high-energy component deep in the Î³-ray burst afterglow. Nature, 2019, 575, 464-467.	27.8	166
4	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
5	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. Science, 2021, 372, 1081-1085.	12.6	86
6	Particle transport within the pulsar wind nebula HESS J1825â€“137. Astronomy and Astrophysics, 2019, 621, A116.	5.1	57
7	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
8	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
9	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
10	Application of deep learning methods to analysis of imaging atmospheric Cherenkov telescopes data. Astroparticle Physics, 2019, 105, 44-53.	4.3	45
11	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
12	The starburst galaxy NGC 253 revisited by H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 617, A73.	5.1	41
13	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
14	Resolving acceleration to very high energies along the jet of Centaurus A. Nature, 2020, 582, 356-359.	27.8	37
15	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
16	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
17	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
18	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

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19	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
20	HexagDLyâ€"Processing hexagonally sampled data with CNNs in PyTorch. SoftwareX, 2019, 9, 193-198.	2.6	27
21	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
22	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
23	H.E.S.S. and MAGIC observations of a sudden cessation of a very-high-energy Î³-ray flare in PKS 1510â^'089 in May 2016. Astronomy and Astrophysics, 2021, 648, A23.	5.1	18
24	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
25	H.E.S.S. andSuzakuobservations of the Vela X pulsar wind nebula. Astronomy and Astrophysics, 2019, 627, A100.	5.1	15
26	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
27	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. Astrophysical Journal, 2021, 917, 6.	4.5	15
28	An extreme particle accelerator in the Galactic plane: HESS J1826â^'130. Astronomy and Astrophysics, 2020, 644, A112.	5.1	14
29	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
30	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
31	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. Astrophysical Journal Letters, 2020, 894, L16.	8.3	9
32	Simultaneous observations of the blazar PKS 2155â^'304 from ultra-violet to TeV energies. Astronomy and Astrophysics, 2020, 639, A42.	5.1	7
33	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
34	H.E.S.S. Follow-up Observations of Binary Black Hole Coalescence Events during the Second and Third Gravitational-wave Observing Runs of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2021, 923, 109.	4.5	6
35	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
36	HESS J1741â^'302: a hidden accelerator in the Galactic plane. Astronomy and Astrophysics, 2018, 612, A13.	5.1	4

#	Article	IF	Citations
37	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
38	Automatic mirror alignment for the medium-sized telescopes of the Cherenkov Telescope Array using the Bokeh method. , 2018, , .		1