

# Massimo Capasso

## List of Publications by Year in descending order

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56  
papers

4,942  
citations

201674

27  
h-index

197818

49  
g-index

57  
all docs

57  
docs citations

57  
times ranked

9222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	8.3	2,805
2	The H.E.S.S. Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A1.	5.1	244
3	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
4	A very-high-energy component deep in the $\hat{\Gamma}^3$ -ray burst afterglow. <i>Nature</i> , 2019, 575, 464-467.	27.8	166
5	NUV-Sensitive Silicon Photomultiplier Technologies Developed at Fondazione Bruno Kessler. <i>Sensors</i> , 2019, 19, 308.	3.8	123
6	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
7	Search for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{\Gamma}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -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
8	H.E.S.S. observations of RX J1713.7 $\hat{\sim}$ 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
9	Particle transport within the pulsar wind nebula HESS J1825 $\hat{\sim}$ 137. <i>Astronomy and Astrophysics</i> , 2019, 621, A116.	5.1	57
10	Measurement of the EBL spectral energy distribution using the VHE $\langle i \rangle \hat{\Gamma}^3 \langle /i \rangle$ -ray spectra of H.E.S.S. blazars. <i>Astronomy and Astrophysics</i> , 2017, 606, A59.	5.1	54
11	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
12	The 2014 TeV $\hat{\Gamma}^3$ -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
13	A polarized fast radio burst at low Galactic latitude. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	45
14	Population study of Galactic supernova remnants at very high $\langle i \rangle \hat{\Gamma}^3 \langle /i \rangle$ -ray energies with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2018, 612, A3.	5.1	44
15	H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100 $\hat{\sim}$ GeV to 2 $\hat{\sim}$ TeV Energy Range Close to the Galactic Center. <i>Physical Review Letters</i> , 2016, 117, 151302.	7.8	43
16	Deeper H.E.S.S. observations of Vela Junior (RX J0852.0 $\hat{\sim}$ 4622): Morphology studies and resolved spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 612, A7.	5.1	43
17	The starburst galaxy NGC 253 revisited by H.E.S.S. and $\langle i \rangle \text{Fermi} \langle /i \rangle$ -LAT. <i>Astronomy and Astrophysics</i> , 2018, 617, A73.	5.1	41
18	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

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19	Resolving acceleration to very high energies along the jet of Centaurus A. <i>Nature</i> , 2020, 582, 356-359.	27.8	37
20	The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2018, 612, A5.	5.1	35
21	Characterizing the $\gamma$ -ray long-term variability of PKS 2155+304 with H.E.S.S. and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2017, 598, A39.	5.1	33
22	Silicon Photomultipliers: Technology Optimizations for Ultraviolet, Visible and Near-Infrared Range. <i>Instruments</i> , 2019, 3, 15.	1.8	33
23	First ground-based measurement of sub-20 GeV to 100 GeV $\gamma$ -Rays from the Vela pulsar with H.E.S.S. II. <i>Astronomy and Astrophysics</i> , 2018, 620, A66.	5.1	32
24	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
25	Constraints on the emission region of 3C 279 during strong flares in 2014 and 2015 through VHE $\gamma$ -ray observations with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2019, 627, A159.	5.1	32
26	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
27	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
28	The $\gamma$ -ray spectrum of the core of Centaurus A as observed with H.E.S.S. and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2018, 619, A71.	5.1	28
29	Vacuum ultraviolet silicon photomultipliers applied to BaF <sub>2</sub> cross-luminescence detection for high-rate ultrafast timing applications. <i>Physics in Medicine and Biology</i> , 2021, 66, 114002.	3.0	28
30	Resolving the Crab pulsar wind nebula at teraelectronvolt energies. <i>Nature Astronomy</i> , 2020, 4, 167-173.	10.1	25
31	Constraints on particle acceleration in SS433/W50 from MAGIC and H.E.S.S. observations. <i>Astronomy and Astrophysics</i> , 2018, 612, A14.	5.1	23
32	H.E.S.S. discovery of very high energy $\gamma$ -ray emission from PKS 0625+354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4187-4198.	4.4	21
33	Probing the local environment of the supernova remnant HESS J1731+347 with CO and CS observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 662-676.	4.4	19
34	Performance verification of the FlashCam prototype camera for the Cherenkov Telescope Array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 876, 31-34.	1.6	16
35	H.E.S.S. and Suzaku observations of the Vela X pulsar wind nebula. <i>Astronomy and Astrophysics</i> , 2019, 627, A100.	5.1	15
36	H.E.S.S. detection of very high-energy $\gamma$ -ray emission from the quasar PKS 0736+017. <i>Astronomy and Astrophysics</i> , 2020, 633, A162.	5.1	15

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37	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
38	Extended VHE $\gamma$ -ray emission towards SGR1806 $\hat{~}$ 20, LBV 1806 $\hat{~}$ 20, and stellar cluster Cl* 1806 $\hat{~}$ 20. <i>Astronomy and Astrophysics</i> , 2018, 612, A11.	5.1	12
39	Detection of variable VHE $\gamma$ -ray emission from the extra-galactic $\gamma$ -ray binary LMC P3. <i>Astronomy and Astrophysics</i> , 2018, 610, L17.	5.1	12
40	FBK VUV-sensitive Silicon Photomultipliers for cryogenic temperatures. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 982, 164478.	1.6	12
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	FlashCam: a fully-digital camera for the medium-sized telescopes of the Cherenkov Telescope Array. , 2016, , .		8
43	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
44	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
45	Cryogenic SiPM arrays for the DUNE photon detection system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 985, 164648.	1.6	6
46	H.E.S.S. observations of the flaring gravitationally lensed galaxy PKS $\hat{~}$ 1830 $\hat{~}$ 211. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3886-3891.	4.4	5
47	HESS J1741 $\hat{~}$ 302: a hidden accelerator in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2018, 612, A13.	5.1	4
48	An Archival Search for Neutron-star Mergers in Gravitational Waves and Very-high-energy Gamma Rays. <i>Astrophysical Journal</i> , 2021, 918, 66.	4.5	4
49	VHE $\gamma$ -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
50	Trigger performance verification of the FlashCam prototype camera. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 936, 392-393.	1.6	3
51	Discovery of new TeV supernova remnant shells in the Galactic plane with H.E.S.S.. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
52	Search for new supernova remnant shells in the Galactic plane with H.E.S.S.. , 2016, , .		1
53	X $\hat{~}$ ray observations of Galactic H.E.S.S. sources: An update. <i>Astronomische Nachrichten</i> , 2017, 338, 274-280.	1.2	0
54	The TeV supernova remnant shell HESS J1731-347 and its surroundings. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0

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55	Readout electronics testing during mass production of FlashCam cameras for the Cherenkov Telescope Array. , 2017, , .		0
56	Verification of the optical system of the 9.7-m prototype Schwarzschild-Couder Telescope. , 2020, , .		0