Fraija Cabrera

List of Publications by Year
in descending order

91 papers	2,525 citations	201674 27 h-index	214800 47 g-index
93 all docs	93 docs citations	93 times ranked	2174 citing authors

#	Article	IF	Citations
1	Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth. Science, 2017, 358, 911-914.	12.6	303
2	The 2HWC HAWC Observatory Gamma-Ray Catalog. Astrophysical Journal, 2017, 843, 40.	4.5	200
3	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2017, 843, 39.	4.5	159
4	Multiple Galactic Sources with Emission Above 56ÂTeV Detected by HAWC. Physical Review Letters, 2020, 124, 021102.	7.8	143
5	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. Astrophysical Journal, 2020, 905, 76.	4.5	99
6	Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. Astrophysical Journal, 2019, 881, 134.	4.5	98
7	Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2018, 853, 154.	4.5	69
8	HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon. Nature Astronomy, 2021, 5, 465-471.	10.1	62
9	HAWC J2227+610 and Its Association with G106.3+2.7, a New Potential Galactic PeVatron. Astrophysical Journal Letters, 2020, 896, L29.	8.3	48
10	Synchrotron Self-Compton as a Likely Mechanism of Photons beyond the Synchrotron Limit in GRB 190114C. Astrophysical Journal, 2019, 883, 162.	4.5	46
11	The X-Ray Fundamental Plane of the Platinum Sample, the Kilonovae, and the SNe Ib/c Associated with GRBs. Astrophysical Journal, 2020, 904, 97.	4.5	46
12	GeV-PeV neutrino production and oscillation in hidden jets from gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2187-2200.	4.4	43
13	Analysis and Modeling of the Multi-wavelength Observations of the Luminous GRB 190114C. Astrophysical Journal Letters, 2019, 879, L26.	8.3	41
14	Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC. Astrophysical Journal, 2017, 841, 100.	4.5	39
15	Theoretical Description of GRB 160625B with Wind-to-ISM Transition and Implications for a Magnetized Outflow. Astrophysical Journal, 2017, 848, 15.	4.5	39
16	Modeling the Observations of GRB 180720B: from Radio to Sub-TeV Gamma-Rays. Astrophysical Journal, 2019, 885, 29.	4.5	36
17	GRB 110731A: EARLY AFTERGLOW IN STELLAR WIND POWERED BY A MAGNETIZED OUTFLOW. Astrophysical Journal, 2015, 804, 105.	4.5	35
18	MODELING THE EARLY MULTIWAVELENGTH EMISSION IN GRB 130427A. Astrophysical Journal, 2016, 818, 190.	4.5	35

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19	Evidence of 200 TeV Photons from HAWC J1825-134. Astrophysical Journal Letters, 2021, 907, L30.	8.3	34
20	All-sky Measurement of the Anisotropy of Cosmic Rays at 10 TeV and Mapping of the Local Interstellar Magnetic Field. Astrophysical Journal, 2019, 871, 96.	4.5	32
21	Evidence that Ultra-high-energy Gamma Rays Are a Universal Feature near Powerful Pulsars. Astrophysical Journal Letters, 2021, 911, L27.	8.3	32
22	On the Origin of the Multi-GeV Photons from the Closest Burst with Intermediate Luminosity: GRB 190829A. Astrophysical Journal, 2021, 918, 12.	4.5	32
23	The Optical Luminosityâ€“Time Correlation for More than 100 Gamma-Ray Burst Afterglows. Astrophysical Journal Letters, 2020, 905, L26.	8.3	32
24	On the Investigation of the Closure Relations for Gamma-Ray Bursts Observed by Swift in the Post-plateau Phase and the GRB Fundamental Plane. Astrophysical Journal, 2020, 903, 18.	4.5	31
25	SEARCH FOR GAMMA-RAYS FROM THE UNUSUALLY BRIGHT GRB 130427A WITH THE HAWC GAMMA-RAY OBSERVATORY. Astrophysical Journal, 2015, 800, 78.	4.5	30
26	Long-term Optical Polarization Variability and Multiwavelength Analysis of Blazar Mrk 421. Astrophysical Journal, Supplement Series, 2017, 232, 7.	7.7	30
27	MODELING THE EARLY AFTERGLOW IN THE SHORT AND HARD GRB 090510. Astrophysical Journal, 2016, 831, 22.	4.5	29
28	Search for Very High-energy Gamma Rays from the Northern Fermi Bubble Region with HAWC. Astrophysical Journal, 2017, 842, 85.	4.5	28
29	GRB Fermi-LAT Afterglows: Explaining Flares, Breaks, and Energetic Photons. Astrophysical Journal, 2020, 905, 112.	4.5	28
30	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. Astrophysical Journal, 2018, 865, 57.	4.5	25
31	Modeling the High-energy Emission in GRB 110721A and Implications on the Early Multiwavelength and Polarimetric Observations. Astrophysical Journal, 2017, 848, 94.	4.5	24
32	NEUTRINO, Î³-RAY, AND COSMIC-RAY FLUXES FROM THE CORE OF THE CLOSEST RADIO GALAXIES. Astrophysical Journal, 2016, 830, 81.	4.5	24
33	CORRELATION OF Î³-RAY AND HIGH-ENERGY COSMIC RAY FLUXES FROM THE GIANT LOBES OF CENTAURUS A. Astrophysical Journal, 2014, 783, 44.	4.5	22
34	Reverse Shock Emission Revealed in Early Photometry in the Candidate Short GRB 180418A. Astrophysical Journal, 2019, 881, 12.	4.5	21
35	The Short GRB 170817A: Modeling the Off-axis Emission and Implications on the Ejecta Magnetization. Astrophysical Journal, 2019, 871, 123.	4.5	21
36	SYNCHROTRON SELF-COMPTON EMISSION AS THE ORIGIN OF THE GAMMA-RAY AFTERGLOW OBSERVED IN GRB 980923. Astrophysical Journal, 2012, 751, 33.	4.5	20

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37	HOW MANY ULTRA-HIGH ENERGY COSMIC RAYS COULD WE EXPECT FROM CENTAURUS A?. Astrophysical Journal, 2012, 753, 40.	4.5	20
38	Light Curves of a Shock-breakout Material and a Relativistic Off-axis Jet from a Binary Neutron Star System. Astrophysical Journal, 2019, 871, 200.	4.5	20
39	THE STUDY OF TeV VARIABILITY AND THE DUTY CYCLE OF Mrk 421 FROM 3 Yr OF OBSERVATIONS WITH THE MILAGRO OBSERVATORY. Astrophysical Journal, 2014, 782, 110.	4.5	19
40	THE GIGAELECTRONVOLT COUNTERPART OF VER J2019+407 IN THE NORTHERN SHELL OF THE SUPERNOVA REMNANT G78.2+2.1 (Î³ Cygni). Astrophysical Journal, 2016, 826, 31.	4.5	19
41	Modeling the spectral energy distribution of the radio galaxy IC310. Astroparticle Physics, 2017, 89, 14-22.	4.3	18
42	Photometric Observations of Supernova 2013cq Associated with GRB 130427A. Astrophysical Journal, 2017, 837, 116.	4.5	17
43	PROPAGATION AND NEUTRINO OSCILLATIONS IN THE BASE OF A HIGHLY MAGNETIZED GAMMA-RAY BURST FIREBALL FLOW. Astrophysical Journal, 2014, 787, 140.	4.5	16
44	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. Astrophysical Journal, 2017, 843, 116.	4.5	16
45	Data acquisition architecture and online processing system for the HAWC gamma-ray observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 888, 138-146.	1.6	16
46	Late Central-engine Activity in GRB 180205A. Astrophysical Journal, 2019, 872, 118.	4.5	16
47	TeV Î³-ray fluxes from the long campaigns on Mrk 421 as constraints on the emission of TeVâ€“PeV neutrinos and UHECRs. Astroparticle Physics, 2015, 70, 54-61.	4.3	15
48	The Origin of the Optical Flashes: The Case Study of GRB 080319B and GRB 130427A. Astrophysical Journal, 2018, 859, 70.	4.5	15
49	Examining Two-dimensional Luminosityâ€“Time Correlations for Gamma-Ray Burst Radio Afterglows with VLA and ALMA. Astrophysical Journal, 2022, 925, 15.	4.5	15
50	Resonant oscillations of GeV-TeV neutrinos in internal shocks from gamma-ray burst jets inside stars. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2784-2798.	4.4	14
51	Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. Astrophysical Journal, 2021, 911, 143.	4.5	14
52	Fermi-GBM Observations of GRB 210812A: Signatures of a Million Solar Mass Gravitational Lens. Astrophysical Journal Letters, 2021, 921, L30.	8.3	14
53	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2021, 907, 67.	4.5	13
54	Signatures of neutrino cooling in the SN1987A scenario. Monthly Notices of the Royal Astronomical Society, 2014, 442, 239-250.	4.4	12

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55	Could a plasma in quasi-thermal equilibrium be associated to the â€œorphanâ€•TeV flares?. Astroparticle Physics, 2015, 71, 1-20.	4.3	12
56	Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2017, 843, 88.	4.5	12
57	Study of the PeV neutrino, Î³-rays, and UHECRs around the lobes of Centaurus A. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4461-4471.	4.4	11
58	GRB 180620A: Evidence for Late-time Energy Injection. Astrophysical Journal, 2019, 887, 254.	4.5	11
59	Afterglow Light Curves of Nonrelativistic Ejecta Mass in a Stratified Circumstellar Medium. Astrophysical Journal, 2021, 907, 78.	4.5	10
60	Description of Atypical Bursts Seen Slightly Off-axis. Astrophysical Journal, 2020, 896, 25.	4.5	10
61	THE LONG AND THE SHORT OF THE HIGH-ENERGY EMISSION IN GRB090926A: AN EXTERNAL SHOCK. Astrophysical Journal, 2012, 755, 127.	4.5	9
62	Could a multi-PeV neutrino event have as origin the internal shocks inside the GRB progenitor star?. Journal of High Energy Astrophysics, 2016, 9-10, 25-34.	6.7	9
63	Signatures from a Quasi-spherical Outflow and an Off-axis Top-hat Jet Launched in a Merger of Compact Objects: An Analytical Approach. Astrophysical Journal, 2019, 884, 71.	4.5	9
64	Probing the Sea of Cosmic Rays by Measuring Gamma-Ray Emission from Passive Giant Molecular Clouds with HAWC. Astrophysical Journal, 2021, 914, 106.	4.5	9
65	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. Astrophysical Journal, 2021, 906, 63.	4.5	9
66	A two-zone model as origin of hard TeV spectrum in extreme BL lacs. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1557-1566.	4.4	9
67	Long-term Spectra of the Blazars Mrk 421 and Mrk 501 at TeV Energies Seen by HAWC. Astrophysical Journal, 2022, 929, 125.	4.5	8
68	Modeling the Prompt Optical Emission of GRB 180325A: The Evolution of a Spike from the Optical to Gamma Rays. Astrophysical Journal, 2021, 908, 39.	4.5	7
69	MeVâ€“GeV neutrino propagation as a signal of magnetic field amplification in neutron star merger. Journal of High Energy Astrophysics, 2016, 11-12, 29-43.	6.7	6
70	Optical Polarimetric and Multiwavelength Flaring Activity of Blazar 3C 279. Astrophysical Journal, Supplement Series, 2019, 245, 18.	7.7	6
71	Electronâ€“positron pair plasma in TXS 0506+056 and the â€˜neutrino flareâ€™ in 2014â€“2015. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5318-5325.	4.4	6
72	HAWC Study of the Ultra-high-energy Spectrum of MGRO J1908+06. Astrophysical Journal, 2022, 928, 116.	4.5	6

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73	Analysis of Fermi-LAT observations, UHECRs and neutrinos from the radio galaxy Centaurus B. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 023-023.	5.4	5
74	HAWC and Fermi-LAT Detection of Extended Emission from the Unidentified Source 2HWC J2006+341. Astrophysical Journal Letters, 2020, 903, L14.	8.3	5
75	GRB 191016A: The onset of the forward shock and evidence of late energy injection. Monthly Notices of the Royal Astronomical Society, 2022, 511, 6205-6217.	4.4	5
76	Hypercritical accretion scenario in central compact objects accompanied with an expected neutrino burst. Physical Review D, 2018, 98, .	4.7	4
77	Hypercritical accretion phase and neutrino expectation in the evolution of Cassiopeia A. Monthly Notices of the Royal Astronomical Society, 2015, 451, 455-466.	4.4	3
78	A central compact object in Kes 79: the hypercritical regime and neutrino expectation. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3646-3659.	4.4	3
79	HAWC Search for High-mass Microquasars. Astrophysical Journal Letters, 2021, 912, L4.	8.3	3
80	HAWC as a Ground-Based Space-Weather Observatory. Solar Physics, 2021, 296, 1.	2.5	2
81	Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. Astrophysical Journal, 2020, 905, 73.	4.5	2
82	Cosmic rays, neutrinos, and GeV-TeV gamma rays from starburst galaxy NGC 4945. Physical Review D, 2021, 104, .	4.7	2
83	Could a Hypercritical Accretion be Associated with the Atypical Magnetic-field Behavior in RX J0822-4300?. Publications of the Astronomical Society of the Pacific, 2018, 130, 124201.	3.1	1
84	Neutrino propagation in winds around the central engine of sGRB. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4968-4980.	4.4	1
85	Differentiating short gamma-ray bursts progenitors through multi-MeV neutrinos. Journal of High Energy Astrophysics, 2021, 32, 87-101.	6.7	1
86	Neutrino signal from compact objects during their formation, their mergers, or as a signature of electric-charge phase transition. New Astronomy, 2022, 97, 101883.	1.8	1
87	Lepton-hadronic processes and high-energy neutrinos in NGC 1275. Proceedings of the International Astronomical Union, 2014, 10, 175-176.	0.0	0
88	Fermi LAT observation of VER J2019+407. AIP Conference Proceedings, 2017, , .	0.4	0
89	Study of PeV neutrinos around dwarf galaxies near giant lobes of Centaurus A. Journal of Physics: Conference Series, 2020, 1342, 012104.	0.4	0
90	On LGRB progenitors: An approach from thermally-produced neutrinos. Journal of High Energy Astrophysics, 2022, 34, 217-228.	6.7	0

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91	Probing the Extragalactic Mid-infrared Background with HAWC. Astrophysical Journal, 2022, 933, 223.	4.5	0