

# T Capistrán

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8214212/publications.pdf>

Version: 2024-02-01

45  
papers

1,866  
citations

331670

21  
h-index

254184

43  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1751  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth. <i>Science</i> , 2017, 358, 911-914.   | 12.6 | 303       |
| 2  | The 2HWC HAWC Observatory Gamma-Ray Catalog. <i>Astrophysical Journal</i> , 2017, 843, 40.   | 4.5  | 200       |
| 3  | Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 39.  | 4.5  | 159       |
| 4  | Multiple Galactic Sources with Emission Above 56ÂTeV Detected by HAWC. <i>Physical Review Letters</i> , 2020, 124, 021102.   | 7.8  | 143       |
| 5  | 3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.  | 4.5  | 99        |
| 6  | Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. <i>Astrophysical Journal</i> , 2019, 881, 134.   | 4.5  | 98        |
| 7  | Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.  | 27.8 | 75        |
| 8  | Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2018, 853, 154.  | 4.5  | 69        |
| 9  | HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon. <i>Nature Astronomy</i> , 2021, 5, 465-471.  | 10.1 | 62        |
| 10 | All-particle cosmic ray energy spectrum measured by the HAWC experiment from 10 to 500ÂTeV. <i>Physical Review D</i> , 2017, 96, .   | 4.7  | 56        |
| 11 | HAWC J2227+610 and Its Association with G106.3+2.7, a New Potential Galactic PeVatron. <i>Astrophysical Journal Letters</i> , 2020, 896, L29.  | 8.3  | 48        |
| 12 | Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100ÂTeV. <i>Physical Review Letters</i> , 2020, 124, 131101.                                      | 7.8  | 40        |
| 13 | Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC. <i>Astrophysical Journal</i> , 2017, 841, 100.  | 4.5  | 39        |
| 14 | Constraints on spin-dependent dark matter scattering with long-lived mediators from TeV observations of the Sun with HAWC. <i>Physical Review D</i> , 2018, 98, .                        | 4.7  | 37        |
| 15 | A search for dark matter in the Galactic halo with HAWC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 049-049.  | 5.4  | 36        |
| 16 | Evidence of 200 TeV Photons from HAWC J1825-134. <i>Astrophysical Journal Letters</i> , 2021, 907, L30.  | 8.3  | 34        |
| 17 | SEARCH FOR TeV GAMMA-RAY EMISSION FROM POINT-LIKE SOURCES IN THE INNER GALACTIC PLANE WITH A PARTIAL CONFIGURATION OF THE HAWC OBSERVATORY. <i>Astrophysical Journal</i> , 2016, 817, 3. | 4.5  | 33        |
| 18 | All-sky Measurement of the Anisotropy of Cosmic Rays at 10 TeV and Mapping of the Local Interstellar Magnetic Field. <i>Astrophysical Journal</i> , 2019, 871, 96.                       | 4.5  | 32        |

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|----|--|-----|-----------|
| 19 | Evidence that Ultra-high-energy Gamma Rays Are a Universal Feature near Powerful Pulsars. <i>Astrophysical Journal Letters</i> , 2021, 911, L27.   | 8.3 | 32        |
| 20 | Search for Very High-energy Gamma Rays from the Northern Fermi Bubble Region with HAWC. <i>Astrophysical Journal</i> , 2017, 842, 85.  | 4.5 | 28        |
| 21 | Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. <i>Astrophysical Journal</i> , 2018, 865, 57.   | 4.5 | 25        |
| 22 | VERITAS and Fermi-LAT Observations of TeV Gamma-Ray Sources Discovered by HAWC in the 2HWC Catalog. <i>Astrophysical Journal</i> , 2018, 866, 24.  | 4.5 | 21        |
| 23 | First HAWC observations of the Sun constrain steady TeV gamma-ray emission. <i>Physical Review D</i> , 2018, 98, .   | 4.7 | 19        |
| 24 | Search for gamma-ray spectral lines from dark matter annihilation in dwarf galaxies with the High-Altitude Water Cherenkov observatory. <i>Physical Review D</i> , 2020, 101, .                      | 4.7 | 18        |
| 25 | The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. <i>Astrophysical Journal</i> , 2017, 843, 116.   | 4.5 | 16        |
| 26 | Constraining the local burst rate density of primordial black holes with HAWC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 026-026.  | 5.4 | 16        |
| 27 | TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. <i>Astrophysical Journal</i> , 2021, 917, 6.  | 4.5 | 15        |
| 28 | Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. <i>Astrophysical Journal</i> , 2021, 911, 143.  | 4.5 | 14        |
| 29 | A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2021, 907, 67.  | 4.5 | 13        |
| 30 | Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 88.                      | 4.5 | 12        |
| 31 | Search for dark matter gamma-ray emission from the Andromeda Galaxy with the High-Altitude Water Cherenkov Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 043-043. | 5.4 | 11        |
| 32 | Constraining the $\langle \sigma_{\text{ann}} \rangle$ ratio in TeV cosmic rays with observations of the Moon shadow by HAWC. <i>Physical Review D</i> , 2018, 97, .                                 | 4.7 | 9         |
| 33 | Probing the Sea of Cosmic Rays by Measuring Gamma-Ray Emission from Passive Giant Molecular Clouds with HAWC. <i>Astrophysical Journal</i> , 2021, 914, 106.   | 4.5 | 9         |
| 34 | Long-term Spectra of the Blazars Mrk 421 and Mrk 501 at TeV Energies Seen by HAWC. <i>Astrophysical Journal</i> , 2022, 929, 125.  | 4.5 | 8         |
| 35 | MAGIC and Fermi-LAT gamma-ray results on unassociated HAWC sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 356-366.   | 4.4 | 7         |
| 36 | HAWC Study of the Ultra-high-energy Spectrum of MGRO J1908+06. <i>Astrophysical Journal</i> , 2022, 928, 116.  | 4.5 | 6         |

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|----|---|-----|-----------|
| 37 | HAWC Search for High-mass Microquasars. <i>Astrophysical Journal Letters</i> , 2021, 912, L4.   | 8.3 | 3         |
| 38 | Gamma/hadron separation with the HAWC observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1039, 166984. | 1.6 | 3         |
| 39 | Gamma/hadron separation in HAWC using neural networks. <i>Proceedings of SPIE</i> , 2016, , .   | 0.8 | 2         |
| 40 | HAWC as a Ground-Based Space-Weather Observatory. <i>Solar Physics</i> , 2021, 296, 1.  | 2.5 | 2         |
| 41 | Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. <i>Astrophysical Journal</i> , 2020, 905, 73.   | 4.5 | 2         |
| 42 | Characterization of the background for a neutrino search with the HAWC observatory. <i>Astroparticle Physics</i> , 2022, 137, 102670.   | 4.3 | 2         |
| 43 | Characterization of a outer detector (outriggers) for HAWC. <i>Journal of Physics: Conference Series</i> , 2017, 792, 012094.   | 0.4 | 1         |
| 44 | Constraints on the Emission of Gamma-Rays from M31 with HAWC. <i>Astrophysical Journal</i> , 2020, 893, 16.   | 4.5 | 1         |
| 45 | Probing the Extragalactic Mid-infrared Background with HAWC. <i>Astrophysical Journal</i> , 2022, 933, 223.   | 4.5 | 0         |