

# Julia Tjus

## List of Publications by Year in descending order

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Version: 2024-02-01

413  
papers

31,005  
citations

4658

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6130

159  
g-index

419  
all docs

419  
docs citations

419  
times ranked

14766  
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  | Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector. <i>Science</i> , 2013, 342, 1242856.   | 12.6 | 1,048     |
| 3  | Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. <i>Physical Review Letters</i> , 2014, 113, 101101.  | 7.8  | 873       |
| 4  | Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .   | 12.6 | 654       |
| 5  | Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011, 32, 193-316.  | 3.7  | 640       |
| 6  | Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert. <i>Science</i> , 2018, 361, 147-151.  | 12.6 | 601       |
| 7  | First Observation of PeV-Energy Neutrinos with IceCube. <i>Physical Review Letters</i> , 2013, 111, 021103.   | 7.8  | 578       |
| 8  | Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013, 43, 3-18.   | 4.3  | 504       |
| 9  | Variable Very High Energy $\hat{3}$ â€Ray Emission from Markarian 501. <i>Astrophysical Journal</i> , 2007, 669, 862-883.   | 4.5  | 426       |
| 10 | The IceCube Neutrino Observatory: instrumentation and online systems. <i>Journal of Instrumentation</i> , 2017, 12, P03012-P03012.  | 1.2  | 390       |
| 11 | First year performance of the IceCube neutrino telescope. <i>Astroparticle Physics</i> , 2006, 26, 155-173.   | 4.3  | 379       |
| 12 | Very-High-Energy Gamma Rays from a Distant Quasar: How Transparent Is the Universe?. <i>Science</i> , 2008, 320, 1752-1754.   | 12.6 | 355       |
| 13 | A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. <i>Astrophysical Journal</i> , 2015, 809, 98.  | 4.5  | 337       |
| 14 | OBSERVATION AND CHARACTERIZATION OF A COSMIC MUON NEUTRINO FLUX FROM THE NORTHERN HEMISPHERE USING SIX YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2016, 833, 3.  | 4.5  | 336       |
| 15 | Acceleration of petaelectronvolt protons in the Galactic Centre. <i>Nature</i> , 2016, 531, 476-479.  | 27.8 | 326       |
| 16 | The IceCube data acquisition system: Signal capture, digitization, and timestamping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 601, 294-316. | 1.6  | 312       |
| 17 | An absence of neutrinos associated with cosmic-ray acceleration in $\hat{3}$ -ray bursts. <i>Nature</i> , 2012, 484, 351-354.   | 27.8 | 272       |
| 18 | Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.   | 7.8  | 247       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | The H.E.S.S. Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A1.   | 5.1  | 244       |
| 20 | Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector. <i>Physical Review Letters</i> , 2013, 110, 131302.   | 7.8  | 235       |
| 21 | High-energy neutrinos in the context of multimessenger astrophysics. <i>Physics Reports</i> , 2008, 458, 173-246.  | 25.6 | 234       |
| 22 | VHE $\gamma$ -Ray Observation of the Crab Nebula and its Pulsar with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2008, 674, 1037-1055.   | 4.5  | 233       |
| 23 | 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       |
| 24 | The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012, 35, 615-624.  | 4.3  | 222       |
| 25 | Time-Integrated Neutrino Source Searches with 10 Years of IceCube Data. <i>Physical Review Letters</i> , 2020, 124, 051103.  | 7.8  | 221       |
| 26 | Calibration and characterization of the IceCube photomultiplier tube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 618, 139-152. | 1.6  | 211       |
| 27 | Search for a Dark Matter Annihilation Signal from the Galactic Center Halo with H.E.S.S.. <i>Physical Review Letters</i> , 2011, 106, 161301.  | 7.8  | 209       |
| 28 | Atmospheric and astrophysical neutrinos above 1 TeV interacting in IceCube. <i>Physical Review D</i> , 2015, 91, .   | 4.7  | 209       |
| 29 | IceCube-Gen2: the window to the extreme Universe. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 060501.  | 3.6  | 204       |
| 30 | All-sky Search for Time-integrated Neutrino Emission from Astrophysical Sources with 7 yr of IceCube Data. <i>Astrophysical Journal</i> , 2017, 835, 151.  | 4.5  | 198       |
| 31 | THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE TEV-PEV NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.   | 4.5  | 186       |
| 32 | Very High Energy Gamma-Ray Radiation from the Stellar Mass Black Hole Binary Cygnus X-1. <i>Astrophysical Journal</i> , 2007, 665, L51-L54.  | 4.5  | 183       |
| 33 | Search for Photon-Linelike Signatures from Dark Matter Annihilations with H.E.S.S.. <i>Physical Review Letters</i> , 2013, 110, 041301.  | 7.8  | 176       |
| 34 | Radio Imaging of the Very-High-Energy $\gamma$ -Ray Emission Region in the Central Engine of a Radio Galaxy. <i>Science</i> , 2009, 325, 444-448.  | 12.6 | 175       |
| 35 | Search for TeV Gamma-ray Emission from GRB 100621A, an extremely bright GRB in X-rays, with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2014, 565, A16.  | 5.1  | 174       |
| 36 | Observation of Pulsed $\gamma$ -Rays Above 25 GeV from the Crab Pulsar with MAGIC. <i>Science</i> , 2008, 322, 1221-1224.  | 12.6 | 173       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Muon track reconstruction and data selection techniques in AMANDA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 524, 169-194.                                | 1.6 | 171       |
| 38 | Energy reconstruction methods in the IceCube neutrino telescope. Journal of Instrumentation, 2014, 9, P03009-P03009.   | 1.2 | 171       |
| 39 | Probing quantum gravity using photons from a flare of the active galactic nucleus Markarian 501 observed by the MAGIC telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 668, 253-257.                 | 4.1 | 168       |
| 40 | IceTop: The surface component of IceCube. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 700, 188-220.   | 1.6 | 166       |
| 41 | Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube. Physical Review D, 2011, 83, .   | 4.7 | 156       |
| 42 | Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. Physical Review Letters, 2015, 114, 171102.   | 7.8 | 156       |
| 43 | Discovery of Very High Energy Gamma Radiation from IC 443 with the MAGIC Telescope. Astrophysical Journal, 2007, 664, L87-L90.   | 4.5 | 155       |
| 44 | Optical properties of deep glacial ice at the South Pole. Journal of Geophysical Research, 2006, 111, .  | 3.3 | 149       |
| 45 | SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. Astrophysical Journal, 2014, 796, 109.  | 4.5 | 149       |
| 46 | Implementation of the Random Forest method for the Imaging Atmospheric Cherenkov Telescope MAGIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 424-432. | 1.6 | 146       |
| 47 | THE 2010 VERY HIGH ENERGY $\gamma$ -RAY FLARE AND 10 YEARS OF MULTI-WAVELENGTH OBSERVATIONS OF M 87. Astrophysical Journal, 2012, 746, 151.  | 4.5 | 145       |
| 48 | IceCube high-energy starting event sample: Description and flux characterization with 7.5 years of data. Physical Review D, 2021, 104, .   | 4.7 | 142       |
| 49 | Searches for Sterile Neutrinos with the IceCube Detector. Physical Review Letters, 2016, 117, 071801.  | 7.8 | 140       |
| 50 | Measurement of the extragalactic background light imprint on the spectra of the brightest blazars observed with H.E.S.S.. Astronomy and Astrophysics, 2013, 550, A4.   | 5.1 | 139       |
| 51 | Characteristics of the Diffuse Astrophysical Electron and Tau Neutrino Flux with Six Years of IceCube High Energy Cascade Data. Physical Review Letters, 2020, 125, 121104.  | 7.8 | 137       |
| 52 | Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.  | 8.3 | 135       |
| 53 | Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector. Physical Review Letters, 2009, 102, 201302.  | 7.8 | 132       |
| 54 | Differential limit on the extremely-high-energy cosmic neutrino flux in the presence of astrophysical background from nine years of IceCube data. Physical Review D, 2018, 98, .   | 4.7 | 131       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. <i>Astrophysical Journal</i> , 2011, 732, 18.  | 4.5  | 126       |
| 56 | SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2015, 805, L5.  | 8.3  | 124       |
| 57 | Measurement of South Pole ice transparency with the IceCube LED calibration system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 711, 73-89. | 1.6  | 122       |
| 58 | IceCube sensitivity for low-energy neutrinos from nearby supernovae. <i>Astronomy and Astrophysics</i> , 2011, 535, A109.  | 5.1  | 121       |
| 59 | Observations of Markarian 421 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 663, 125-138.   | 4.5  | 120       |
| 60 | MEASUREMENT OF THE ANISOTROPY OF COSMIC-RAY ARRIVAL DIRECTIONS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2010, 718, L194-L198.  | 8.3  | 119       |
| 61 | 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       |
| 62 | The IceCube realtime alert system. <i>Astroparticle Physics</i> , 2017, 92, 30-41.   | 4.3  | 116       |
| 63 | Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , 2017, 843, 112.   | 4.5  | 116       |
| 64 | OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. <i>Astrophysical Journal</i> , 2012, 746, 33.   | 4.5  | 115       |
| 65 | Measurement of the cosmic ray energy spectrum with IceTop-73. <i>Physical Review D</i> , 2013, 88, .   | 4.7  | 114       |
| 66 | Measurement of the multi-TeV neutrino interaction cross-section with IceCube using Earth absorption. <i>Nature</i> , 2017, 551, 596-600.   | 27.8 | 113       |
| 67 | Constraints on axionlike particles with H.E.S.S. from the irregularity of the PKS $\xi$ 2155-304 energy spectrum. <i>Physical Review D</i> , 2013, 88, .   | 4.7  | 112       |
| 68 | The exceptionally powerful TeV $\hat{\Gamma}^3$ -ray emitters in the Large Magellanic Cloud. <i>Science</i> , 2015, 347, 406-412.  | 12.6 | 111       |
| 69 | Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 $\hat{\text{A}}$ PeV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101.   | 7.8  | 111       |
| 70 | Search for annihilating dark matter in the Sun with 3 $\hat{\text{A}}$ years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1.  | 3.9  | 111       |
| 71 | AN ALL-SKY SEARCH FOR THREE FLAVORS OF NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE ICECUBE NEUTRINO OBSERVATORY. <i>Astrophysical Journal</i> , 2016, 824, 115.   | 4.5  | 109       |
| 72 | Search for $\hat{\Gamma}^3$ -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       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | OBSERVATION OF ANISOTROPY IN THE ARRIVAL DIRECTIONS OF GALACTIC COSMIC RAYS AT MULTIPLE ANGULAR SCALES WITH IceCube. <i>Astrophysical Journal</i> , 2011, 740, 16.   | 4.5  | 103       |
| 74 | Discovery of Very High Energy $\hat{\gamma}$ -Ray Emission from the Low-Frequency-peaked BL Lacertae Object BL Lacertae. <i>Astrophysical Journal</i> , 2007, 666, L17-L20.  | 4.5  | 102       |
| 75 | Improving the performance of the single-dish Cherenkov telescope MAGIC through the use of signal timing. <i>Astroparticle Physics</i> , 2009, 30, 293-305.   | 4.3  | 98        |
| 76 | Constraints on Galactic Neutrino Emission with Seven Years of IceCube Data. <i>Astrophysical Journal</i> , 2017, 849, 67.  | 4.5  | 95        |
| 77 | H.E.S.S. observations of RX J1713.7 $\hat{\gamma}$ 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        |
| 78 | Discovery of Very High Energy $\hat{\gamma}$ -Rays from 1ES 1011+496 at $\langle i \rangle z \langle /i \rangle = 0.212$ . <i>Astrophysical Journal</i> , 2007, 667, L21-L24.  | 4.5  | 94        |
| 79 | Search for Lorentz Invariance breaking with a likelihood fit of the PKS 2155-304 flare data taken on MJD 53944. <i>Astroparticle Physics</i> , 2011, 34, 738-747.  | 4.3  | 94        |
| 80 | Multiyear search for a diffuse flux of muon neutrinos with AMANDA-II. <i>Physical Review D</i> , 2007, 76, .   | 4.7  | 92        |
| 81 | High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016, 93, .  | 4.7  | 92        |
| 82 | Observation of VHE $\hat{\gamma}$ -rays from Cassiopeia A with the MAGIC telescope. <i>Astronomy and Astrophysics</i> , 2007, 474, 937-940.  | 5.1  | 90        |
| 83 | Measurement of Atmospheric Neutrino Oscillations at $6\hat{\epsilon}^{\prime}56\hat{A}GeV$ with IceCube DeepCore. <i>Physical Review Letters</i> , 2018, 120, 071801.  | 7.8  | 88        |
| 84 | Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-string detector. <i>Physical Review D</i> , 2011, 84, .  | 4.7  | 87        |
| 85 | THE JUNE 2008 FLARE OF MARKARIAN 421 FROM OPTICAL TO TeV ENERGIES. <i>Astrophysical Journal</i> , 2009, 691, L13-L19.  | 4.5  | 86        |
| 86 | Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data. <i>Physical Review D</i> , 2015, 91, .   | 4.7  | 86        |
| 87 | Detection of a particle shower at the Glashow resonance with IceCube. <i>Nature</i> , 2021, 591, 220-224.  | 27.8 | 86        |
| 88 | Discovery of Very High Energy $\hat{\gamma}$ -Rays from Markarian 180 Triggered by an Optical Outburst. <i>Astrophysical Journal</i> , 2006, 648, L105-L108.   | 4.5  | 85        |
| 89 | Limits on Neutrino Emission from Gamma-Ray Bursts with the 40 String IceCube Detector. <i>Physical Review Letters</i> , 2011, 106, 141101.   | 7.8  | 85        |
| 90 | OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. <i>Astrophysical Journal</i> , 2013, 765, 55.   | 4.5  | 85        |

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|-----|--|-----|-----------|
| 91  | Very High Energy Gamma-Ray Observations of Strong Flaring Activity in M87 in 2008 February. <i>Astrophysical Journal</i> , 2008, 685, L23-L26.   | 4.5 | 84        |
| 92  | PERIODIC VERY HIGH ENERGY $\gamma$ -RAY EMISSION FROM LS I +61 $^{\circ}$ 303 OBSERVED WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2009, 693, 303-310.  | 4.5 | 81        |
| 93  | SEARCH FOR MUON NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2010, 710, 346-359.  | 4.5 | 81        |
| 94  | SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. <i>Astrophysical Journal</i> , 2013, 779, 132.   | 4.5 | 81        |
| 95  | Search for dark matter from the Galactic halo with the IceCube Neutrino Telescope. <i>Physical Review D</i> , 2011, 84, .  | 4.7 | 79        |
| 96  | A new SNR with TeV shell-type morphology: HESS J1731-347. <i>Astronomy and Astrophysics</i> , 2011, 531, A81.  | 5.1 | 77        |
| 97  | Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube. <i>Physical Review D</i> , 2010, 82, .   | 4.7 | 76        |
| 98  | Search for dark matter annihilation signatures in H.E.S.S. observations of dwarf spheroidal galaxies. <i>Physical Review D</i> , 2014, 90, .   | 4.7 | 76        |
| 99  | Cosmic ray spectrum and composition from PeV to EeV using 3 $\hat{A}$ years of data from IceTop and IceCube. <i>Physical Review D</i> , 2019, 100, .   | 4.7 | 76        |
| 100 | Discovery of extended VHE $\gamma$ -ray emission from the vicinity of the young massive stellar cluster Westerlund 1. <i>Astronomy and Astrophysics</i> , 2012, 537, A114.   | 5.1 | 76        |
| 101 | Search for sterile neutrino mixing using three years of IceCube DeepCore data. <i>Physical Review D</i> , 2017, 95, .  | 4.7 | 75        |
| 102 | Search for steady point-like sources in the astrophysical muon neutrino flux with 8 years of IceCube data. <i>European Physical Journal C</i> , 2019, 79, 1.   | 3.9 | 75        |
| 103 | Unfolding of differential energy spectra in the MAGIC experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 583, 494-506. | 1.6 | 74        |
| 104 | Search for Ultra-High Energy Neutrinos with AMANDA. <i>Astrophysical Journal</i> , 2008, 675, 1014-1024.   | 4.5 | 74        |
| 105 | H.E.S.S. constraints on dark matter annihilations towards the sculptor and carina dwarf galaxies. <i>Astroparticle Physics</i> , 2011, 34, 608-616.  | 4.3 | 74        |
| 106 | Probing the extent of the non-thermal emission from the Vela X region at TeV energies with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2012, 548, A38.   | 5.1 | 74        |
| 107 | Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. <i>Physical Review D</i> , 2014, 89, .   | 4.7 | 74        |
| 108 | H.E.S.S. discovery of VHE $\gamma$ -rays from the quasar PKS 1510-089. <i>Astronomy and Astrophysics</i> , 2013, 554, A107.  | 5.1 | 73        |

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|-----|--|------|-----------|
| 109 | MAGIC Upper Limits on the Very High Energy Emission from Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2007, 667, 358-366.  | 4.5  | 72        |
| 110 | Simultaneous Multiwavelength Observations of the Blazar 1ES 1959+650 at a Low TeV Flux. <i>Astrophysical Journal</i> , 2008, 679, 1029-1039.   | 4.5  | 72        |
| 111 | DISCOVERY OF VERY HIGH ENERGY $\hat{\gamma}$ -RAYS FROM THE BLAZAR S5 0716+714. <i>Astrophysical Journal</i> , 2009, 704, L129-L133.   | 4.5  | 72        |
| 112 | ANISOTROPY IN COSMIC-RAY ARRIVAL DIRECTIONS IN THE SOUTHERN HEMISPHERE BASED ON SIX YEARS OF DATA FROM THE ICECUBE DETECTOR. <i>Astrophysical Journal</i> , 2016, 826, 220.  | 4.5  | 72        |
| 113 | Determination of the atmospheric neutrino flux and searches for new physics with AMANDA-II. <i>Physical Review D</i> , 2009, 79, .   | 4.7  | 71        |
| 114 | THE ORIGIN OF COSMIC RAYS: EXPLOSIONS OF MASSIVE STARS WITH MAGNETIC WINDS AND THEIR SUPERNOVA MECHANISM. <i>Astrophysical Journal</i> , 2010, 725, 184-187.   | 4.5  | 71        |
| 115 | Diffuse Galactic gamma-ray emission with H.E.S.S.. <i>Physical Review D</i> , 2014, 90, .  | 4.7  | 69        |
| 116 | Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008-2009 data. <i>Physical Review D</i> , 2011, 83, .  | 4.7  | 68        |
| 117 | Improved Characterization of the Astrophysical Muon neutrino Flux with 9.5 Years of IceCube Data. <i>Astrophysical Journal</i> , 2022, 928, 50.  | 4.5  | 67        |
| 118 | Multiyear search for dark matter annihilations in the Sun with the AMANDA-II and IceCube detectors. <i>Physical Review D</i> , 2012, 85, .   | 4.7  | 66        |
| 119 | Neutrino interferometry for high-precision tests of Lorentz symmetry with IceCube. <i>Nature Physics</i> , 2018, 14, 961-966.  | 16.7 | 66        |
| 120 | Search for Extraterrestrial Point Sources of Neutrinos with AMANDA-II. <i>Physical Review Letters</i> , 2004, 92, 071102.  | 7.8  | 65        |
| 121 | Detection of Very High Energy Radiation from the BL Lacertae Object PG 1553+113 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 654, L119-L122.   | 4.5  | 65        |
| 122 | MAGIC Observations of the Unidentified $\hat{\gamma}$ -Ray Source TeV J2032+4130. <i>Astrophysical Journal</i> , 2008, 675, L25-L28.   | 4.5  | 64        |
| 123 | Measurement of the Atmospheric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">e^{-\hat{\gamma}^2/2} \rangle$ Flux in IceCube. <i>Physical Review Letters</i> , 2013, 110, 151105. | 7.8  | 64        |
| 124 | PROPOSAL: A tool for propagation of charged leptons. <i>Computer Physics Communications</i> , 2013, 184, 2070-2090.  | 7.5  | 64        |
| 125 | Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes. <i>Astrophysical Journal Letters</i> , 2018, 868, L20.   | 8.3  | 64        |
| 126 | Search for neutrinos from dark matter self-annihilations in the center of the Milky Way with 3 years of IceCube/DeepCore. <i>European Physical Journal C</i> , 2017, 77, 1.  | 3.9  | 62        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Search for neutrinos from decaying dark matter with IceCube. <i>European Physical Journal C</i> , 2018, 78, 831.  | 3.9 | 62        |
| 128 | Upper Limit for $\hat{\Gamma}^3$ Ray Emission above 140 GeV from the Dwarf Spheroidal Galaxy Draco. <i>Astrophysical Journal</i> , 2008, 679, 428-431.  | 4.5 | 61        |
| 129 | The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. <i>Astroparticle Physics</i> , 2010, 34, 48-58.   | 4.3 | 61        |
| 130 | SPECTRAL ANALYSIS AND INTERPRETATION OF THE $\hat{\Gamma}^3$ -RAY EMISSION FROM THE STARBURST GALAXY NGC 253. <i>Astrophysical Journal</i> , 2012, 757, 158.  | 4.5 | 61        |
| 131 | Flux limits on ultra high energy neutrinos with AMANDA-B10. <i>Astroparticle Physics</i> , 2005, 22, 339-353.   | 4.3 | 60        |
| 132 | High-energy neutrinos from radio galaxies. <i>Physical Review D</i> , 2014, 89, .   | 4.7 | 60        |
| 133 | Investigation of Two Fermi-LAT Gamma-Ray Blazars Coincident with High-energy Neutrinos Detected by IceCube. <i>Astrophysical Journal</i> , 2019, 880, 103.  | 4.5 | 60        |
| 134 | Detection of atmospheric muon neutrinos with the IceCube 9-string detector. <i>Physical Review D</i> , 2007, 76, .  | 4.7 | 57        |
| 135 | Influence of hadronic interaction models and the cosmic ray spectrum on the high energy atmospheric muon and neutrino flux. <i>Physical Review D</i> , 2012, 86, .  | 4.7 | 57        |
| 136 | Particle transport within the pulsar wind nebula HESS J1825 $\hat{\Gamma}^3$ 137. <i>Astronomy and Astrophysics</i> , 2019, 621, A116.  | 5.1 | 57        |
| 137 | SEARCH FOR DARK MATTER ANNIHILATION SIGNALS FROM THE FORNAX GALAXY CLUSTER WITH H.E.S.S.. <i>Astrophysical Journal</i> , 2012, 750, 123.  | 4.5 | 57        |
| 138 | eV-Scale Sterile Neutrino Search Using Eight Years of Atmospheric Muon Neutrino Data from the IceCube Neutrino Observatory. <i>Physical Review Letters</i> , 2020, 125, 141801.                             | 7.8 | 57        |
| 139 | SEARCHES FOR TIME-DEPENDENT NEUTRINO SOURCES WITH ICECUBE DATA FROM 2008 TO 2012. <i>Astrophysical Journal</i> , 2015, 807, 46.   | 4.5 | 56        |
| 140 | Improved limits on dark matter annihilation in the Sun with the 79-string IceCube detector and implications for supersymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 022-022. | 5.4 | 56        |
| 141 | SIMULTANEOUS MULTIWAVELENGTH OBSERVATIONS OF MARKARIAN 421 DURING OUTBURST. <i>Astrophysical Journal</i> , 2009, 703, 169-178.  | 4.5 | 55        |
| 142 | Measurements using the inelasticity distribution of multi-TeV neutrino interactions in IceCube. <i>Physical Review D</i> , 2019, 99, .  | 4.7 | 55        |
| 143 | Observation of Very High Energy $\hat{\Gamma}^3$ Rays from the AGN 1ES 2344+514 in a Low Emission State with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 662, 892-899.                        | 4.5 | 54        |
| 144 | Measurement of the EBL spectral energy distribution using the VHE $\hat{\Gamma}^3$ -ray spectra of H.E.S.S. blazars. <i>Astronomy and Astrophysics</i> , 2017, 606, A59.                                    | 5.1 | 54        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. <i>Physical Review D</i> , 2013, 88, .  | 4.7 | 53        |
| 146 | Search for Sources of Astrophysical Neutrinos Using Seven Years of IceCube Cascade Events. <i>Astrophysical Journal</i> , 2019, 886, 12.  | 4.5 | 53        |
| 147 | Measurement of atmospheric tau neutrino appearance with IceCube DeepCore. <i>Physical Review D</i> , 2019, 99, .  | 4.7 | 53        |
| 148 | Five years of searches for point sources of astrophysical neutrinos with the AMANDA-II neutrino telescope. <i>Physical Review D</i> , 2007, 75, .                               | 4.7 | 52        |
| 149 | DISCOVERY OF A VERY HIGH ENERGY GAMMA-RAY SIGNAL FROM THE 3C 66A/B REGION. <i>Astrophysical Journal</i> , 2009, 692, L29-L33.   | 4.5 | 52        |
| 150 | Revisiting the Westerlund Å2 field with the HESS telescope array. <i>Astronomy and Astrophysics</i> , 2011, 525, A46.   | 5.1 | 52        |
| 151 | Search for dark matter annihilation in the Galactic Center with IceCube-79. <i>European Physical Journal C</i> , 2015, 75, 1.   | 3.9 | 52        |
| 152 | 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        |
| 153 | Limits to the muon flux from neutralino annihilations in the Sun with the AMANDA detector. <i>Astroparticle Physics</i> , 2006, 24, 459-466.                                    | 4.3 | 51        |
| 154 | Multiwavelength (Radio, X-ray, and $\gamma$ -ray) Observations of the $\gamma$ -ray Binary LS I +61 303. <i>Astrophysical Journal</i> , 2008, 684, 1351-1358.                   | 4.5 | 51        |
| 155 | Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , 2016, 78, 1-27.  | 4.3 | 51        |
| 156 | THE 2012 FLARE OF PG 1553+113 SEEN WITH H.E.S.S. AND FERMI-LAT. <i>Astrophysical Journal</i> , 2015, 802, 65.   | 4.5 | 50        |
| 157 | Measurement of Atmospheric Neutrino Oscillations with IceCube. <i>Physical Review Letters</i> , 2013, 111, 081801.  | 7.8 | 49        |
| 158 | Search for extended $\gamma$ -ray emission around AGN with H.E.S.S. and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2014, 562, A145.   | 5.1 | 49        |
| 159 | THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. <i>Astrophysical Journal</i> , 2016, 823, 65. | 4.5 | 49        |
| 160 | Measurement of the Atmospheric $\mu$ Spectrum with IceCube. <i>Physical Review D</i> , 2015, 91, .  | 4.7 | 48        |
| 161 | A multiwavelength view of the flaring state of PKS Å2155-304 in 2006. <i>Astronomy and Astrophysics</i> , 2012, 539, A149.  | 5.1 | 48        |
| 162 | CORRELATED X-RAY AND VERY HIGH ENERGY EMISSION IN THE GAMMA-RAY BINARY LS I +61 303. <i>Astrophysical Journal</i> , 2009, 706, L27-L32.   | 4.5 | 47        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. <i>Physical Review D</i> , 2013, 88, .  | 4.7 | 47        |
| 164 | The 2014 TeV $\hat{\nu}^3$ -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        |
| 165 | UPPER LIMITS ON THE VHE GAMMA-RAY EMISSION FROM THE WILLMAN 1 SATELLITE GALAXY WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2009, 697, 1299-1304.                         | 4.5 | 46        |
| 166 | Ultra-high-energy cosmic rays from radio galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 036-036.   | 5.4 | 46        |
| 167 | Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 057-057.           | 5.4 | 46        |
| 168 | Discovery of hard-spectrum $\hat{\nu}^3$ -ray emission from the BL Lacertae object 1ES 0414+009. <i>Astronomy and Astrophysics</i> , 2012, 538, A103.                                 | 5.1 | 45        |
| 169 | PINGU: a vision for neutrino and particle physics at the South Pole. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 054006.                                    | 3.6 | 45        |
| 170 | A polarized fast radio burst at low Galactic latitude. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .  | 4.4 | 45        |
| 171 | SIMULTANEOUS MULTIWAVELENGTH OBSERVATION OF Mrk 501 IN A LOW STATE IN 2006. <i>Astrophysical Journal</i> , 2009, 705, 1624-1631.  | 4.5 | 44        |
| 172 | Search for point sources of high energy neutrinos with final data from AMANDA-II. <i>Physical Review D</i> , 2009, 79, .  | 4.7 | 44        |
| 173 | Flux upper limits for 47 AGN observed with H.E.S.S. in 2004~2011. <i>Astronomy and Astrophysics</i> , 2014, 564, A9.  | 5.1 | 44        |
| 174 | Search for astrophysical tau neutrinos in three years of IceCube data. <i>Physical Review D</i> , 2016, 93, .   | 4.7 | 44        |
| 175 | Population study of Galactic supernova remnants at very high $\hat{\nu}^3$ -ray energies with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2018, 612, A3.                            | 5.1 | 44        |
| 176 | The Search for Muon Neutrinos from Northern Hemisphere Gamma-Ray Bursts with AMANDA. <i>Astrophysical Journal</i> , 2008, 674, 357-370.   | 4.5 | 43        |
| 177 | FIRST NEUTRINO POINT-SOURCE RESULTS FROM THE 22 STRING ICECUBE DETECTOR. <i>Astrophysical Journal</i> , 2009, 701, L47-L51.   | 4.5 | 43        |
| 178 | H.E.S.S. observations of the Crab during its March 2013 GeV gamma-ray flare. <i>Astronomy and Astrophysics</i> , 2014, 562, L4.   | 5.1 | 43        |
| 179 | H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100 GeV to 2 TeV Energy Range Close to the Galactic Center. <i>Physical Review Letters</i> , 2016, 117, 151302.             | 7.8 | 43        |
| 180 | Deeper H.E.S.S. observations of Vela Junior (RX J0852.0~4622): Morphology studies and resolved spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 612, A7.                       | 5.1 | 43        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 181 | FADC signal reconstruction for the MAGIC telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 594, 407-419. | 1.6  | 42        |
| 182 | Cosmic Ray Electrons and Positrons from Supernova Explosions of Massive Stars. Physical Review Letters, 2009, 103, 061101.   | 7.8  | 42        |
| 183 | Closing in on the origin of Galactic cosmic rays using multimessenger information. Physics Reports, 2020, 872, 1-98.   | 25.6 | 42        |
| 184 | The diffuse neutrino flux from FR-II radio galaxies and blazars: A source property based estimate. Astroparticle Physics, 2005, 23, 355-368.   | 4.3  | 41        |
| 185 | The starburst galaxy NGC 253 revisited by H.E.S.S. and <i>Fermi</i> -LAT. Astronomy and Astrophysics, 2018, 617, A73.  | 5.1  | 41        |
| 186 | Very-high-energy gamma-ray emission from the direction of the Galactic globular cluster Terzan 5. Astronomy and Astrophysics, 2011, 531, L18.  | 5.1  | 40        |
| 187 | Searching for soft relativistic jets in core-collapse supernovae with the IceCube optical follow-up program. Astronomy and Astrophysics, 2012, 539, A60.   | 5.1  | 40        |
| 188 | Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. Physical Review D, 2017, 96, .   | 4.7  | 40        |
| 189 | LONG-TERM TeV AND X-RAY OBSERVATIONS OF THE GAMMA-RAY BINARY HESS J0632+057. Astrophysical Journal, 2014, 780, 168.  | 4.5  | 39        |
| 190 | Search for non-relativistic magnetic monopoles with IceCube. European Physical Journal C, 2014, 74, 1.   | 3.9  | 39        |
| 191 | THE DETECTION OF A SN II <sub>in</sub> IN OPTICAL FOLLOW-UP OBSERVATIONS OF ICECUBE NEUTRINO EVENTS. Astrophysical Journal, 2015, 811, 52.   | 4.5  | 39        |
| 192 | Search for extraterrestrial point sources of high energy neutrinos with AMANDA-II using data collected in 2000–2002. Physical Review D, 2005, 71, .  | 4.7  | 38        |
| 193 | Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube. European Physical Journal C, 2015, 75, 116.             | 3.9  | 38        |
| 194 | THE RADIO–GAMMA CORRELATION IN STARBURST GALAXIES. Astrophysical Journal, 2016, 821, 87.   | 4.5  | 38        |
| 195 | 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        |
| 196 | TIME-DEPENDENT SEARCHES FOR POINT SOURCES OF NEUTRINOS WITH THE 40-STRING AND 22-STRING CONFIGURATIONS OF ICECUBE. Astrophysical Journal, 2012, 744, 1.  | 4.5  | 37        |
| 197 | All-flavour search for neutrinos from dark matter annihilations in the Milky Way with IceCube/DeepCore. European Physical Journal C, 2016, 76, 1.  | 3.9  | 37        |
| 198 | Extending the Search for Neutrino Point Sources with IceCube above the Horizon. Physical Review Letters, 2009, 103, 221102.  | 7.8  | 36        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 199 | An improved method for measuring muon energy using the truncated mean of $dE/dx$ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 190-198. | 1.6 | 36        |
| 200 | Constraints on an Annihilation Signal from a Core of Constant Dark Matter Density around the Milky Way Center with H.E.S.S.. Physical Review Letters, 2015, 114, 081301.  | 7.8 | 36        |
| 201 | CRPropa 3.1 – a low energy extension based on stochastic differential equations. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 046-046.   | 5.4 | 36        |
| 202 | The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 612, A5.  | 5.1 | 35        |
| 203 | Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. Astroparticle Physics, 2019, 111, 35-53.  | 4.3 | 35        |
| 204 | H.E.S.S. OBSERVATIONS OF THE GLOBULAR CLUSTERS NGC 6388 AND M15 AND SEARCH FOR A DARK MATTER SIGNAL. Astrophysical Journal, 2011, 735, 12.  | 4.5 | 34        |
| 205 | First search for atmospheric and extraterrestrial neutrino-induced cascades with the IceCube detector. Physical Review D, 2011, 84, .   | 4.7 | 34        |
| 206 | Cosmic ray composition and energy spectrum from $1 \times 10^{30}$ PeV using the 40-string configuration of IceTop and IceCube. Astroparticle Physics, 2013, 42, 15-32.   | 4.3 | 34        |
| 207 | H.E.S.S. observations of the binary system PSR B1259-63/LS 2883 around the 2010/2011 periastron passage. Astronomy and Astrophysics, 2013, 551, A94.  | 5.1 | 34        |
| 208 | Observation of the cosmic-ray shadow of the Moon with IceCube. Physical Review D, 2014, 89, .   | 4.7 | 34        |
| 209 | Searches for small-scale anisotropies from neutrino point sources with three years of IceCube data. Astroparticle Physics, 2015, 66, 39-52.   | 4.3 | 34        |
| 210 | Searching for eV-scale sterile neutrinos with eight years of atmospheric neutrinos at the IceCube Neutrino Telescope. Physical Review D, 2020, 102, .   | 4.7 | 34        |
| 211 | MAGIC TeV gamma-ray observations of Markarian 421 during multiwavelength campaigns in 2006. Astronomy and Astrophysics, 2010, 519, A32.   | 5.1 | 33        |
| 212 | Discovery of the source HESS J1356-645 associated with the young and energetic PSR J1357-6429. Astronomy and Astrophysics, 2011, 533, A103.   | 5.1 | 33        |
| 213 | Measurement of acoustic attenuation in South Pole ice. Astroparticle Physics, 2011, 34, 382-393.  | 4.3 | 33        |
| 214 | Characterizing the $\gamma$ -ray long-term variability of PKS 2155+304 with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2017, 598, A39.   | 5.1 | 33        |
| 215 | Multiwavelength follow-up of a rare IceCube neutrino multiplet. Astronomy and Astrophysics, 2017, 607, A115.  | 5.1 | 33        |
| 216 | Coincident GRB neutrino flux predictions: Implications for experimental UHE neutrino physics. Astroparticle Physics, 2006, 25, 118-128.   | 4.3 | 32        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 217 | Search for Neutrino-induced Cascades from Gamma-Ray Bursts with AMANDA. <i>Astrophysical Journal</i> , 2007, 664, 397-410.  | 4.5 | 32        |
| 218 | Solar Energetic Particle Spectrum on 2006 December 13 Determined by IceTop. <i>Astrophysical Journal</i> , 2008, 689, L65-L68.  | 4.5 | 32        |
| 219 | TRACING THE SOURCES OF COSMIC RAYS WITH MOLECULAR IONS. <i>Astrophysical Journal Letters</i> , 2011, 739, L43.  | 8.3 | 32        |
| 220 | HESS and Fermi-LAT discovery of $\hat{\gamma}$ -rays from the blazar 1ES1312+423. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1889-1901.  | 4.4 | 32        |
| 221 | Discovery of TeV $\hat{\gamma}$ -ray emission from PKS0447-439 and derivation of an upper limit on its redshift. <i>Astronomy and Astrophysics</i> , 2013, 552, A118.   | 5.1 | 32        |
| 222 | First ground-based measurement of sub-20 GeV to 100 GeV $\hat{\gamma}$ -Rays from the Vela pulsar with H.E.S.S. II. <i>Astronomy and Astrophysics</i> , 2018, 620, A66.   | 5.1 | 32        |
| 223 | 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        |
| 224 | Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. <i>Astrophysical Journal</i> , 2019, 870, 134.  | 4.5 | 32        |
| 225 | 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        |
| 226 | HESS J1943+213: a candidate extreme BL Lacertae object. <i>Astronomy and Astrophysics</i> , 2011, 529, A49.   | 5.1 | 31        |
| 227 | DISCOVERY OF THE HARD SPECTRUM VHE $\hat{\gamma}$ -RAY SOURCE HESS J1641+463. <i>Astrophysical Journal Letters</i> , 2014, 794, L1.   | 8.3 | 31        |
| 228 | Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 037-037. | 5.4 | 31        |
| 229 | Combined search for neutrinos from dark matter self-annihilation in the Galactic Center with ANTARES and IceCube. <i>Physical Review D</i> , 2020, 102, .   | 4.7 | 31        |
| 230 | Suzaku and Multi-Wavelength Observations of OJ 287 during the Periodic Optical Outburst in 2007. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, 1011-1022.   | 2.5 | 30        |
| 231 | Searches for gamma-ray lines and 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        |
| 232 | IceCube Search for Neutrinos Coincident with Compact Binary Mergers from LIGO-Virgo's First Gravitational-wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2020, 898, L10.  | 8.3 | 30        |
| 233 | Neutrinos from active black holes, sources of ultra high energy cosmic rays. <i>Astroparticle Physics</i> , 2009, 31, 138-148.  | 4.3 | 29        |
| 234 | Discovery of VHE $\hat{\gamma}$ -ray emission and multi-wavelength observations of the BL Lacertae object 1RXS J101015.9+311909. <i>Astronomy and Astrophysics</i> , 2012, 542, A94.  | 5.1 | 29        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 235 | Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2013, 87, .   | 4.7 | 29        |
| 236 | Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. <i>Physical Review D</i> , 2014, 90, .               | 4.7 | 29        |
| 237 | Searches for relativistic magnetic monopoles in IceCube. <i>European Physical Journal C</i> , 2016, 76, 1.   | 3.9 | 29        |
| 238 | Gamma-ray blazar spectra with H.E.S.S. II mono analysis: The case of PKSâ€™2155â€™304 and PGâ€™1553+113. <i>Astronomy and Astrophysics</i> , 2017, 600, A89.                         | 5.1 | 29        |
| 239 | A convolutional neural network based cascade reconstruction for the IceCube Neutrino Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07041.                              | 1.2 | 29        |
| 240 | NO OBSERVATIONAL CONSTRAINTS FROM HYPOTHETICAL COLLISIONS OF HYPOTHETICAL DARK HALO PRIMORDIAL BLACK HOLES WITH GALACTIC OBJECTS. <i>Astrophysical Journal</i> , 2009, 705, 659-669. | 4.5 | 29        |
| 241 | On the origin of ultra high energy cosmic rays: subluminal and superluminal relativistic shocks. <i>Astronomy and Astrophysics</i> , 2008, 492, 323-336.                             | 5.1 | 28        |
| 242 | First search for extremely high energy cosmogenic neutrinos with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2010, 82, .  | 4.7 | 28        |
| 243 | Discovery of VHE emission towards the Carina arm region with the H.E.S.S. telescope array: HESSâ€™J1018â€™589. <i>Astronomy and Astrophysics</i> , 2012, 541, A5.                    | 5.1 | 28        |
| 244 | Discovery of variable VHE $\gamma$ -ray emission from the binary system 1FGLâ€™J1018.6â€™5856. <i>Astronomy and Astrophysics</i> , 2015, 577, A131.                                  | 5.1 | 28        |
| 245 | Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. <i>European Physical Journal C</i> , 2015, 75, 1.                                     | 3.9 | 28        |
| 246 | 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        |
| 247 | SEARCH FOR HIGH-ENERGY MUON NEUTRINOS FROM THE â€™NAKED-EYEâ€™-GRB 080319B WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2009, 701, 1721-1731.                 | 4.5 | 27        |
| 248 | HESS J1640-465 - an exceptionally luminous TeV $\gamma$ -ray supernova remnant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 2828-2836.                     | 4.4 | 27        |
| 249 | LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. <i>Astrophysical Journal Letters</i> , 2016, 824, L28.  | 8.3 | 27        |
| 250 | THE WMAP HAZE FROM THE GALACTIC CENTER REGION DUE TO MASSIVE STAR EXPLOSIONS AND A REDUCED COSMIC RAY SCALE HEIGHT. <i>Astrophysical Journal Letters</i> , 2010, 710, L53-L57.       | 8.3 | 26        |
| 251 | Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. <i>European Physical Journal C</i> , 2010, 69, 361-378.  | 3.9 | 26        |
| 252 | Discovery of very high energy $\gamma$ -ray emission from the BLâ€™Lacertae object PKSâ€™0301â€™243 with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2013, 559, A136.              | 5.1 | 26        |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 253 | Turbulence-level dependence of cosmic ray parallel diffusion. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5051-5064.   | 4.4  | 26        |
| 254 | On the selection of AGN neutrino source candidates for a source stacking analysis with neutrino telescopes. Astroparticle Physics, 2006, 26, 282-300.  | 4.3  | 25        |
| 255 | Identification of HESS J1303-631 as a pulsar wind nebula through $\gamma$ -ray, X-ray, and radio observations. Astronomy and Astrophysics, 2012, 548, A46.   | 5.1  | 25        |
| 256 | Cosmic-ray-induced ionization in molecular clouds adjacent to supernova remnants. Astronomy and Astrophysics, 2012, 541, A126.   | 5.1  | 25        |
| 257 | Lateral distribution of muons in IceCube cosmic ray events. Physical Review D, 2013, 87, .   | 4.7  | 25        |
| 258 | Improvement in fast particle track reconstruction with robust statistics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 736, 143-149. | 1.6  | 25        |
| 259 | Cosmic backgrounds due to the formation of the first generation of supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1147-1156.  | 4.4  | 25        |
| 260 | The high-energy $\gamma$ -ray emission of AP Librae. Astronomy and Astrophysics, 2015, 573, A31.   | 5.1  | 25        |
| 261 | Prediction of the diffuse neutrino flux from cosmic ray interactions near supernova remnants. Astroparticle Physics, 2015, 65, 80-100.   | 4.3  | 25        |
| 262 | Resolving the Crab pulsar wind nebula at teraelectronvolt energies. Nature Astronomy, 2020, 4, 167-173.  | 10.1 | 25        |
| 263 | Combined sensitivity to the neutrino mass ordering with JUNO, the IceCube Upgrade, and PINGU. Physical Review D, 2020, 101, .  | 4.7  | 25        |
| 264 | ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky. Astrophysical Journal, 2020, 892, 92.  | 4.5  | 25        |
| 265 | MUON ACCELERATION IN COSMIC-RAY SOURCES. Astrophysical Journal, 2013, 779, 106.  | 4.5  | 24        |
| 266 | Long-term monitoring of PKS 2155-304 with ATOM and H.E.S.S.: investigation of optical/ $\gamma$ -ray correlations in different spectral states. Astronomy and Astrophysics, 2014, 571, A39.                                    | 5.1  | 24        |
| 267 | Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube. Journal of Instrumentation, 2016, 11, P11009-P11009.  | 1.2  | 24        |
| 268 | Measurement of the $\mu$ $^{1/2}$ energy spectrum with IceCube-79. European Physical Journal C, 2017, 77, 692.   | 3.9  | 24        |
| 269 | Detailed spectral and morphological analysis of the shell type supernova remnant RCW 86. Astronomy and Astrophysics, 2018, 612, A4.  | 5.1  | 24        |
| 270 | Cosmic Neutrinos from Temporarily Gamma-suppressed Blazars. Astrophysical Journal Letters, 2021, 911, L18.   | 8.3  | 24        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 271 | Probing the gamma-ray emission from HESS J1834-087 using H.E.S.S. and Fermi-LAT observations. <i>Astronomy and Astrophysics</i> , 2015, 574, A27.                 | 5.1 | 24        |
| 272 | Discovery of gamma-ray emission from the extragalactic pulsar wind nebula N157B with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2012, 545, L2.                 | 5.1 | 23        |
| 273 | Search for neutrino-induced particle showers with IceCube-40. <i>Physical Review D</i> , 2014, 89, .  | 4.7 | 23        |
| 274 | Search for nonstandard neutrino interactions with IceCube DeepCore. <i>Physical Review D</i> , 2018, 97, .  | 4.7 | 23        |
| 275 | 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        |
| 276 | Constraints on Minute-Scale Transient Astrophysical Neutrino Sources. <i>Physical Review Letters</i> , 2019, 122, 051102.   | 7.8 | 23        |
| 277 | Limits on the muon flux from neutralino annihilations at the center of the Earth with AMANDA. <i>Astroparticle Physics</i> , 2006, 26, 129-139.                   | 4.3 | 22        |
| 278 | Search for neutrino-induced cascades with five years of AMANDA data. <i>Astroparticle Physics</i> , 2011, 34, 420-430.  | 4.3 | 22        |
| 279 | A Search for Neutrino Emission from Fast Radio Bursts with Six Years of IceCube Data. <i>Astrophysical Journal</i> , 2018, 857, 117.                              | 4.5 | 22        |
| 280 | COSMIC-RAY TRANSPORT AND ANISOTROPIES. <i>Astrophysical Journal</i> , 2013, 768, 124.   | 4.5 | 21        |
| 281 | Search for Astrophysical Sources of Neutrinos Using Cascade Events in IceCube. <i>Astrophysical Journal</i> , 2017, 846, 136.                                     | 4.5 | 21        |
| 282 | 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        |
| 283 | Impact of secondary acceleration on the neutrino spectra in gamma-ray bursts. <i>Astronomy and Astrophysics</i> , 2014, 569, A58.                                 | 5.1 | 21        |
| 284 | IceCube Search for High-energy Neutrino Emission from TeV Pulsar Wind Nebulae. <i>Astrophysical Journal</i> , 2020, 898, 117.                                     | 4.5 | 21        |
| 285 | Measurement of sound speed vs. depth in South Pole ice for neutrino astronomy. <i>Astroparticle Physics</i> , 2010, 33, 277-286.                                  | 4.3 | 20        |
| 286 | Search for relativistic magnetic monopoles with IceCube. <i>Physical Review D</i> , 2013, 87, .   | 4.7 | 20        |
| 287 | South Pole glacial climate reconstruction from multi-borehole laser particulate stratigraphy. <i>Journal of Glaciology</i> , 2013, 59, 1117-1128.                 | 2.2 | 20        |
| 288 | First search for dark matter annihilations in the Earth with the IceCube detector. <i>European Physical Journal C</i> , 2017, 77, 1.                              | 3.9 | 20        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 289 | Astrophysical neutrinos and cosmic rays observed by IceCube. <i>Advances in Space Research</i> , 2018, 62, 2902-2930.  | 2.6 | 20        |
| 290 | A Search for IceCube Events in the Direction of ANITA Neutrino Candidates. <i>Astrophysical Journal</i> , 2020, 892, 53.   | 4.5 | 20        |
| 291 | H.E.S.S. reveals a lack of TeV emission from the supernova remnant Puppis A. <i>Astronomy and Astrophysics</i> , 2015, 575, A81.   | 5.1 | 20        |
| 292 | H.E.S.S. detection of TeV emission from the interaction region between the supernova remnant G349.7+0.2 and a molecular cloud. <i>Astronomy and Astrophysics</i> , 2015, 574, A100.          | 5.1 | 20        |
| 293 | A Search for MeV to TeV Neutrinos from Fast Radio Bursts with IceCube. <i>Astrophysical Journal</i> , 2020, 890, 111.  | 4.5 | 20        |
| 294 | Detection of very-high-energy $\gamma$ -ray emission from the vicinity of PSR B1706-44 and G343.1+2.3 with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2011, 528, A143.                    | 5.1 | 19        |
| 295 | Search for ultrahigh-energy tau neutrinos with IceCube. <i>Physical Review D</i> , 2012, 86, .   | 4.7 | 19        |
| 296 | Limits on the High-Energy Gamma and Neutrino Fluxes from the SGR 1806-20 Giant Flare of 27 December 2004 with the AMANDA-II Detector. <i>Physical Review Letters</i> , 2006, 97, 221101.     | 7.8 | 18        |
| 297 | Systematic Search for VHE Gamma-Ray Emission from X-ray-bright High-Frequency BL Lac Objects. <i>Astrophysical Journal</i> , 2008, 681, 944-953.   | 4.5 | 18        |
| 298 | SEARCH FOR VHE $\gamma$ -RAY EMISSION FROM THE GLOBULAR CLUSTER M13 WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2009, 702, 266-269.   | 4.5 | 18        |
| 299 | Simultaneous multi-wavelength campaign on PKS 2005-489 in a high state. <i>Astronomy and Astrophysics</i> , 2011, 533, A110.   | 5.1 | 18        |
| 300 | Discovery of high and very high-energy emission from the BL Lacertae object SHBL J001355.9-185406. <i>Astronomy and Astrophysics</i> , 2013, 554, A72.                                       | 5.1 | 18        |
| 301 | TeV $\gamma$ -ray observations of the young synchrotron-dominated SNRs G1.9+0.3 and G330.2+1.0 with H.E.S.S.. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 790-799. | 4.4 | 18        |
| 302 | On the non-thermal electron-to-proton ratio at cosmic ray acceleration sites. <i>Astroparticle Physics</i> , 2017, 90, 75-84.  | 4.3 | 18        |
| 303 | Follow-up of Astrophysical Transients in Real Time with the IceCube Neutrino Observatory. <i>Astrophysical Journal</i> , 2021, 910, 4.   | 4.5 | 18        |
| 304 | Regimes of cosmic-ray diffusion in Galactic turbulence. <i>SN Applied Sciences</i> , 2022, 4, 15.  | 2.9 | 18        |
| 305 | Limits on a muon flux from Kaluza-Klein dark matter annihilations in the Sun from the IceCube 22-string detector. <i>Physical Review D</i> , 2010, 81, .                                     | 4.7 | 17        |
| 306 | HESS observations of the Carina nebula and its enigmatic colliding wind binary Eta Carinae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 128-135.                   | 4.4 | 17        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 307 | Cosmic ray spectrum from 250 TeV to 10 PeV using IceTop. <i>Physical Review D</i> , 2020, 102, .  | 4.7 | 17        |
| 308 | MAGIC observations of PG 1553+113 during a multiwavelength campaign in July 2006. <i>Astronomy and Astrophysics</i> , 2009, 493, 467-469.   | 5.1 | 16        |
| 309 | Search for very-high-energy $\gamma$ -ray emission from Galactic globular clusters with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2013, 551, A26.   | 5.1 | 16        |
| 310 | MAGIC observation of the GRB 080430 afterglow. <i>Astronomy and Astrophysics</i> , 2010, 517, A5.   | 5.1 | 15        |
| 311 | Use of event-level neutrino telescope data in global fits for theories of new physics. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 057-057.   | 5.4 | 15        |
| 312 | All-particle cosmic ray energy spectrum measured with 26 IceTop stations. <i>Astroparticle Physics</i> , 2013, 44, 40-58.   | 4.3 | 15        |
| 313 | Supernova explosions of massive stars and cosmic rays. <i>Advances in Space Research</i> , 2018, 62, 2773-2816.   | 2.6 | 15        |
| 314 | On the relative importance of hadronic emission processes along the jet axis of active galactic nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2885-2901.  | 4.4 | 15        |
| 315 | Measurement of the high-energy all-flavor neutrino-nucleon cross section with IceCube. <i>Physical Review D</i> , 2021, 104, .  | 4.7 | 15        |
| 316 | MAGIC upper limits to the VHE gamma-ray flux of 3C 454.3 in high emission state. <i>Astronomy and Astrophysics</i> , 2009, 498, 83-87.  | 5.1 | 15        |
| 317 | Search for GeV-scale dark matter annihilation in the Sun with IceCube DeepCore. <i>Physical Review D</i> , 2022, 105, .   | 4.7 | 15        |
| 318 | Simultaneous multi-frequency observation of the unknown redshift blazar PG 1553+113 in March-April 2008. <i>Astronomy and Astrophysics</i> , 2010, 515, A76.  | 5.1 | 14        |
| 319 | SEARCH FOR VERY HIGH ENERGY GAMMA-RAY EMISSION FROM PULSAR-PULSAR WIND NEBULA SYSTEMS WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2010, 710, 828-835.  | 4.5 | 14        |
| 320 | Discovery of the VHE gamma-ray source HESS J1832-093 in the vicinity of SNR G22.7-0.2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 446, 1163-1169.   | 4.4 | 14        |
| 321 | Efficient propagation of systematic uncertainties from calibration to analysis with the SnowStorm method in IceCube. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 048-048.   | 5.4 | 14        |
| 322 | In-situ calibration of the single-photoelectron charge response of the IceCube photomultiplier tubes. <i>Journal of Instrumentation</i> , 2020, 15, P06032-P06032.  | 1.2 | 14        |
| 323 | The IceCube prototype string in Amanda. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 556, 169-181.  | 1.6 | 13        |
| 324 | Constraints on the Steady and Pulsed Very High Energy Gamma-Ray Emission from Observations of PSR B1951 documentclass{aastex} usepackage{amsbsy} usepackage{amsfonts} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra} usepackage[OT2,OT1]{fontenc} ewcommandcyr{ enewcommandmdefault{wncyr} enewcommandsfdefault{wncyss} enewcommandencodingdefault{OT2} ormalfont sele. <i>Astrop</i> | 4.5 | 13        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 325 | Astrophysical implications of high energy neutrino limits. <i>Astroparticle Physics</i> , 2007, 28, 98-118.   | 4.3 | 13        |
| 326 | NEUTRINO ANALYSIS OF THE 2010 SEPTEMBER CRAB NEBULA FLARE AND TIME-INTEGRATED CONSTRAINTS ON NEUTRINO EMISSION FROM THE CRAB USING ICECUBE. <i>Astrophysical Journal</i> , 2012, 745, 45. | 4.5 | 13        |
| 327 | 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        |
| 328 | Search for transient optical counterparts to high-energy IceCube neutrinos with Pan-STARRS1. <i>Astronomy and Astrophysics</i> , 2019, 626, A117.   | 5.1 | 13        |
| 329 | Solenoidal Improvements for the JF12 Galactic Magnetic Field Model. <i>Astrophysical Journal</i> , 2019, 877, 76.   | 4.5 | 13        |
| 330 | All-flavor constraints on nonstandard neutrino interactions and generalized matter potential with three years of IceCube DeepCore data. <i>Physical Review D</i> , 2021, 104, .           | 4.7 | 13        |
| 331 | NEUTRINO EMISSION FROM HIGH-ENERGY COMPONENT GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2010, 721, 1891-1899.   | 4.5 | 12        |
| 332 | Background studies for acoustic neutrino detection at the South Pole. <i>Astroparticle Physics</i> , 2012, 35, 312-324.   | 4.3 | 12        |
| 333 | The Propagation of Cosmic Rays from the Galactic Wind Termination Shock: Back to the Galaxy?. <i>Astrophysical Journal</i> , 2018, 859, 63.   | 4.5 | 12        |
| 334 | 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        |
| 335 | 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        |
| 336 | Search for PeV Gamma-Ray Emission from the Southern Hemisphere with 5 Yr of Data from the IceCube Observatory. <i>Astrophysical Journal</i> , 2020, 891, 9.                               | 4.5 | 12        |
| 337 | Cosmic-ray propagation around the Sun: investigating the influence of the solar magnetic field on the cosmic-ray Sun shadow. <i>Astronomy and Astrophysics</i> , 2020, 633, A83.          | 5.1 | 12        |
| 338 | Development of an analysis to probe the neutrino mass ordering with atmospheric neutrinos using three years of IceCube DeepCore data. <i>European Physical Journal C</i> , 2020, 80, 1.   | 3.9 | 12        |
| 339 | Search for Multi-flare Neutrino Emissions in 10 yr of IceCube Data from a Catalog of Sources. <i>Astrophysical Journal Letters</i> , 2021, 920, L45.                                      | 8.3 | 12        |
| 340 | Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. <i>Physical Review Letters</i> , 2022, 128, 051101.  | 7.8 | 12        |
| 341 | First Bounds on the Very High Energy $\gamma$ -Ray Emission from Arp 220. <i>Astrophysical Journal</i> , 2007, 658, 245-248.  | 4.5 | 11        |
| 342 | First Bounds on the High-Energy Emission from Isolated Wolf-Rayet Binary Systems. <i>Astrophysical Journal</i> , 2008, 685, L71-L74.  | 4.5 | 11        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 343 | SEARCHES FOR PERIODIC NEUTRINO EMISSION FROM BINARY SYSTEMS WITH 22 AND 40 STRINGS OF ICECUBE. <i>Astrophysical Journal</i> , 2012, 748, 118.   | 4.5 | 11        |
| 344 | HESS J1818-154, a new composite supernova remnant discovered in TeV gamma rays and X-rays. <i>Astronomy and Astrophysics</i> , 2014, 562, A40.  | 5.1 | 11        |
| 345 | Neutrino oscillation studies with IceCube-DeepCore. <i>Nuclear Physics B</i> , 2016, 908, 161-177.  | 2.5 | 11        |
| 346 | A muon-track reconstruction exploiting stochastic losses for large-scale Cherenkov detectors. <i>Journal of Instrumentation</i> , 2021, 16, P08034.   | 1.2 | 11        |
| 347 | A Search for Neutrino Point-source Populations in 7 yr of IceCube Data with Neutrino-count Statistics. <i>Astrophysical Journal</i> , 2020, 893, 102.   | 4.5 | 11        |
| 348 | Recurrent Neutrino Emission from Supermassive Black Hole Mergers. <i>Astrophysical Journal Letters</i> , 2020, 905, L13.  | 8.3 | 11        |
| 349 | INTERNAL $\tau^3$ OPACITY IN ACTIVE GALACTIC NUCLEI AND THE CONSEQUENCES FOR THE TeV OBSERVATIONS OF M87 AND Cen A. <i>Astrophysical Journal</i> , 2011, 736, 98.                             | 4.5 | 10        |
| 350 | SEARCHES FOR HIGH-ENERGY NEUTRINO EMISSION IN THE GALAXY WITH THE COMBINED ICECUBE-AMANDA DETECTOR. <i>Astrophysical Journal</i> , 2013, 763, 33.   | 4.5 | 10        |
| 351 | Gamma-ray emitting supernova remnants as the origin of Galactic cosmic rays?. <i>Astroparticle Physics</i> , 2016, 81, 1-11.  | 4.3 | 10        |
| 352 | Interpolation of Turbulent Magnetic Fields and Its Consequences on Cosmic Ray Propagation. <i>Astrophysical Journal</i> , 2020, 889, 123.   | 4.5 | 10        |
| 353 | Limits on the source properties of FR-I galaxies from high-energy neutrino and gamma observations. <i>Astroparticle Physics</i> , 2013, 48, 30-36.  | 4.3 | 9         |
| 354 | Theoretical study of ionization profiles of molecular clouds near supernova remnants. <i>Astronomy and Astrophysics</i> , 2014, 567, A50.   | 5.1 | 9         |
| 355 | The IceProd framework: Distributed data processing for the IceCube neutrino observatory. <i>Journal of Parallel and Distributed Computing</i> , 2015, 75, 198-211.                            | 4.1 | 9         |
| 356 | A Search for Time-dependent Astrophysical Neutrino Emission with IceCube Data from 2012 to 2017. <i>Astrophysical Journal</i> , 2021, 911, 67.  | 4.5 | 9         |
| 357 | Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. <i>Astrophysical Journal</i> , 2021, 906, 63.  | 4.5 | 9         |
| 358 | A novel analytical model of the magnetic field configuration in the Galactic center. <i>Astronomy and Astrophysics</i> , 2020, 644, A71.  | 5.1 | 9         |
| 359 | Constraints on high-energy neutrino emission from SN 2008D. <i>Astronomy and Astrophysics</i> , 2011, 527, A28.   | 5.1 | 8         |
| 360 | Measurements of the time-dependent cosmic-ray Sun shadow with seven years of IceCube data: Comparison with the Solar cycle and magnetic field models. <i>Physical Review D</i> , 2021, 103, . | 4.7 | 8         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 361 | LeptonInjector and LeptonWeighter: A neutrino event generator and weighter for neutrino observatories. Computer Physics Communications, 2021, 266, 108018.  | 7.5 | 8         |
| 362 | The Cherenkov Telescope Array potential for the study of young supernova remnants. Astroparticle Physics, 2015, 62, 152-164.  | 4.3 | 7         |
| 363 | SEARCH FOR SOURCES OF HIGH-ENERGY NEUTRONS WITH FOUR YEARS OF DATA FROM THE ICETOP DETECTOR. Astrophysical Journal, 2016, 830, 129.   | 4.5 | 7         |
| 364 | 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         |
| 365 | Detection of the Temporal Variation of the Sun's Cosmic Ray Shadow with the IceCube Detector. Astrophysical Journal, 2019, 872, 133.  | 4.5 | 7         |
| 366 | Astro-COLIBRI – The COincidence LIBrary for Real-time Inquiry for Multimessenger Astrophysics. Astrophysical Journal, Supplement Series, 2021, 256, 5.  | 7.7 | 7         |
| 367 | Search for High-energy Neutrinos from Ultraluminous Infrared Galaxies with IceCube. Astrophysical Journal, 2022, 926, 59.   | 4.5 | 7         |
| 368 | Propagation of Cosmic Rays in Plasmoids of AGN Jets-Implications for Multimessenger Predictions. Physics, 2022, 4, 473-490.   | 1.4 | 7         |
| 369 | Strong Constraints on Neutrino Nonstandard Interactions from TeV-Scale $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > \langle \text{mml:msub} > \langle \text{mml:mi} > \hat{1}/2 < / \text{mml:mi} > \langle \text{mml:mi} > \hat{1}/4 < / \text{mml:mi} > < / \text{mml:msub} > < / \text{mml:math} >$ Disappearance at IceCube. Physical Review Letters, 2022, 129, . | 7.8 | 7         |
| 370 | Status of neutrino astronomy. Journal of Physics: Conference Series, 2008, 136, 022055.   | 0.4 | 6         |
| 371 | ACTIVE GALACTIC NUCLEI: SOURCES FOR ULTRA HIGH ENERGY COSMIC RAYS. International Journal of Modern Physics D, 2009, 18, 1577-1581.  | 2.1 | 6         |
| 372 | Constraints on the gamma-ray emission from the cluster-scale AGN outburst in the Hydra A galaxy cluster. Astronomy and Astrophysics, 2012, 545, A103.   | 5.1 | 6         |
| 373 | 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         |
| 374 | Velocity independent constraints on spin-dependent DM-nucleon interactions from IceCube and PICO. European Physical Journal C, 2020, 80, 1.   | 3.9 | 6         |
| 375 | First all-flavor search for transient neutrino emission using 3-years of IceCube DeepCore data. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 027.  | 5.4 | 6         |
| 376 | Anisotropic cosmic ray diffusion in isotropic Kolmogorov turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2658-2666.   | 4.4 | 6         |
| 377 | Light charged particle emission in the reaction $251\text{Cf}(n\text{th}, \hat{a}\%{\text{f}}\hat{a}\%{\text{f}})$ . Nuclear Physics A, 2005, 761, 173-189.   | 1.5 | 5         |
| 378 | Neutrinos from photo-hadronic interactions in Pks2155-304. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 269-272.   | 1.6 | 5         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 379 | THE SEARCH FOR TRANSIENT ASTROPHYSICAL NEUTRINO EMISSION WITH ICECUBE-DEEPCORE. <i>Astrophysical Journal</i> , 2016, 816, 75.   | 4.5 | 5         |
| 380 | H.E.S.S. observations of the flaring gravitationally lensed galaxy PKS 1830-211. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3886-3891.   | 4.4 | 5         |
| 381 | Constraints on neutrino emission from nearby galaxies using the 2MASS redshift survey and IceCube. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 042-042.   | 5.4 | 5         |
| 382 | Search for GeV neutrino emission during intense gamma-ray solar flares with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2021, 103, .   | 4.7 | 5         |
| 383 | HESS J1741-302: a hidden accelerator in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2018, 612, A13.   | 5.1 | 4         |
| 384 | Searches for neutrinos from cosmic-ray interactions in the Sun using seven years of IceCube data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 025-025.  | 5.4 | 4         |
| 385 | Cosmic ray transport and anisotropies to high energies. <i>ASTRA Proceedings</i> , 0, 2, 39-44.   | 0.0 | 4         |
| 386 | PropPy – Correlated random walk propagation of cosmic rays in magnetic turbulence. <i>Journal of Open Source Software</i> , 2022, 7, 4243.  | 4.6 | 4         |
| 387 | Galactic Propagation of Cosmic Rays from Individual Supernova Remnants. <i>Journal of Physics: Conference Series</i> , 2015, 632, 012019.   | 0.4 | 3         |
| 388 | 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         |
| 389 | Neutrinos below 100 TeV from the southern sky employing refined veto techniques to IceCube data. <i>Astroparticle Physics</i> , 2020, 116, 102392.  | 4.3 | 3         |
| 390 | Design and performance of the first IceAct demonstrator at the South Pole. <i>Journal of Instrumentation</i> , 2020, 15, T02002-T02002.   | 1.2 | 3         |
| 391 | Neutrinos from colliding wind binaries: future prospects for PINGU and ORCA. <i>ASTRA Proceedings</i> , 0, 1, 7-11.   | 0.0 | 3         |
| 392 | Cosmic Ray Cradles in the Galaxy. , 0, , .  |     | 2         |
| 393 | Computational techniques for the analysis of small signals in high-statistics neutrino oscillation experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 977, 164332. | 1.6 | 2         |
| 394 | A Possible GeV-Radio Correlation for Starburst Galaxies. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2013, , 299-304.  | 0.3 | 2         |
| 395 | Observation of the Cosmic-Ray Shadow of the Moon and Sun with IceCube. <i>ASTRA Proceedings</i> , 0, 2, 5-8.  | 0.0 | 2         |
| 396 | Implications of AMANDA neutrino flux limits. <i>Journal of Physics: Conference Series</i> , 2007, 60, 219-222.  | 0.4 | 1         |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 397 | Search for Galactic cosmic ray sources: The multimessenger approach. EPJ Web of Conferences, 2015, 105, 00003.   | 0.3  | 1         |
| 398 | CRPropa - A Toolbox for Cosmic Ray Simulations. Journal of Physics: Conference Series, 2019, 1181, 012034.   | 0.4  | 1         |
| 399 | Gamma-ray emitting supernova remnants as the origin of Galactic cosmic rays. ASTRA Proceedings, 0, 2, 57-62.   | 0.0  | 1         |
| 400 | Studying the Temporal Variation of the Cosmic-Ray Sun Shadow Using IceCube Data. , 2019, , .   |      | 1         |
| 401 | Plasmas, particles and photonsâ€™ spotlights on multimessenger astronomy. Plasma Physics and Controlled Fusion, 2022, 64, 044013.  | 2.1  | 1         |
| 402 | GRB neutrino search with MAGIC. AIP Conference Proceedings, 2008, , .  | 0.4  | 0         |
| 403 | Search for neutrinos from GRBs with AMANDA and IceCube. AIP Conference Proceedings, 2008, , .  | 0.4  | 0         |
| 404 | Neutrinos from Starburst-Galaxies â€™ A source stacking analysis of AMANDA II and IceCube data. Astrophysics and Space Sciences Transactions, 2011, 7, 7-10.                                   | 1.0  | 0         |
| 405 | Influence of hadronic interaction models and the cosmic ray spectrum on the high-energy atmospheric muon and neutrino flux. EPJ Web of Conferences, 2013, 52, 09003.                           | 0.3  | 0         |
| 406 | Cosmic-ray tracing. Nature Physics, 2018, 14, 333-334.   | 16.7 | 0         |
| 407 | NEUTRINO PHYSICS AT THE SOUTH POLE - RECENT RESULTS FROM THE AMANDA EXPERIMENT. , 2006, , .  |      | 0         |
| 408 | Neutrinos from Astrophysical Sources. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 681.   | 0.1  | 0         |
| 409 | Cosmic-Ray-Induced Ionization in Molecular Clouds Adjacent to Supernova Remnants. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 317-324.  | 0.3  | 0         |
| 410 | Ionisation as indicator for cosmic ray acceleration. ASTRA Proceedings, 0, 1, 13-17.   | 0.0  | 0         |
| 411 | H.E.S.S. detection of TeV emission from the interaction region between the supernova remnant G349.7+0.2 and a molecular cloud <i>(Corrigendum)</i>. Astronomy and Astrophysics, 2015, 580, C1. | 5.1  | 0         |
| 412 | On the (extra)Galactic origin(s) of the IceCube neutrino signal. , 2017, , .   |      | 0         |
| 413 | Framework and tools for the simulation and analysis of the radio emission from air showers at IceCube. Journal of Instrumentation, 2022, 17, P06026.   | 1.2  | 0         |