

# Julia Tjus

## List of Publications by Year in descending order

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413  
papers

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citations

4658

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6131

159  
g-index

419  
all docs

419  
docs citations

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times ranked

14766  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | 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         |
| 2  | Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. Physical Review Letters, 2022, 128, 051101.  | 7.8  | 12        |
| 3  | Search for High-energy Neutrinos from Ultraluminous Infrared Galaxies with IceCube. Astrophysical Journal, 2022, 926, 59.   | 4.5  | 7         |
| 4  | Plasmas, particles and photons—spotlights on multimessenger astronomy. Plasma Physics and Controlled Fusion, 2022, 64, 044013.  | 2.1  | 1         |
| 5  | Improved Characterization of the Astrophysical Muon—neutrino Flux with 9.5 Years of IceCube Data. Astrophysical Journal, 2022, 928, 50.   | 4.5  | 67        |
| 6  | Search for GeV-scale dark matter annihilation in the Sun with IceCube DeepCore. Physical Review D, 2022, 105, .   | 4.7  | 15        |
| 7  | Regimes of cosmic-ray diffusion in Galactic turbulence. SN Applied Sciences, 2022, 4, 15.   | 2.9  | 18        |
| 8  | Propagation of Cosmic Rays in Plasmoids of AGN Jets-Implications for Multimessenger Predictions. Physics, 2022, 4, 473-490.   | 1.4  | 7         |
| 9  | Anisotropic cosmic ray diffusion in isotropic Kolmogorov turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2658-2666.   | 4.4  | 6         |
| 10 | PropPy — Correlated random walk propagation of cosmic rays in magnetic turbulence. Journal of Open Source Software, 2022, 7, 4243.  | 4.6  | 4         |
| 11 | 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         |
| 12 | Strong Constraints on Neutrino Nonstandard Interactions from TeV-Scale $\langle \text{mml:math display="inline"> \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle^{\frac{1}{2}} \langle \text{mml:mi} \rangle^{\frac{1}{4}} \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Disappearance at IceCube. Physical Review Letters, 2022, 129, . | 7.8  | 7         |
| 13 | Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 057-057.   | 5.4  | 46        |
| 14 | Searches for neutrinos from cosmic-ray interactions in the Sun using seven years of IceCube data. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 025-025.  | 5.4  | 4         |
| 15 | Measurements of the time-dependent cosmic-ray Sun shadow with seven years of IceCube data: Comparison with the Solar cycle and magnetic field models. Physical Review D, 2021, 103, .   | 4.7  | 8         |
| 16 | Detection of a particle shower at the Glashow resonance with IceCube. Nature, 2021, 591, 220-224.   | 27.8 | 86        |
| 17 | Follow-up of Astrophysical Transients in Real Time with the IceCube Neutrino Observatory. Astrophysical Journal, 2021, 910, 4.  | 4.5  | 18        |
| 18 | IceCube-Gen2: the window to the extreme Universe. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 060501.   | 3.6  | 204       |

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|----|--|------|-----------|
| 19 | 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         |
| 20 | Cosmic Neutrinos from Temporarily Gamma-suppressed Blazars. <i>Astrophysical Journal Letters</i> , 2021, 911, L18.   | 8.3  | 24        |
| 21 | 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         |
| 22 | IceCube high-energy starting event sample: Description and flux characterization with 7.5 years of data. <i>Physical Review D</i> , 2021, 104, .   | 4.7  | 142       |
| 23 | Measurement of the high-energy all-flavor neutrino-nucleon cross section with IceCube. <i>Physical Review D</i> , 2021, 104, .   | 4.7  | 15        |
| 24 | A convolutional neural network based cascade reconstruction for the IceCube Neutrino Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07041.                                  | 1.2  | 29        |
| 25 | Astro-COLIBRI – The COincidence LIBrary for Real-time Inquiry for Multimessenger Astrophysics. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 5.                           | 7.7  | 7         |
| 26 | A muon-track reconstruction exploiting stochastic losses for large-scale Cherenkov detectors. <i>Journal of Instrumentation</i> , 2021, 16, P08034.                                      | 1.2  | 11        |
| 27 | LeptonInjector and LeptonWeighter: A neutrino event generator and weighter for neutrino observatories. <i>Computer Physics Communications</i> , 2021, 266, 108018.                       | 7.5  | 8         |
| 28 | Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. <i>Astrophysical Journal</i> , 2021, 906, 63.   | 4.5  | 9         |
| 29 | 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        |
| 30 | 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        |
| 31 | Resolving the Crab pulsar wind nebula at teraelectronvolt energies. <i>Nature Astronomy</i> , 2020, 4, 167-173.  | 10.1 | 25        |
| 32 | 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         |
| 33 | Searching for eV-scale sterile neutrinos with eight years of atmospheric neutrinos at the IceCube Neutrino Telescope. <i>Physical Review D</i> , 2020, 102, .                            | 4.7  | 34        |
| 34 | Design and performance of the first IceAct demonstrator at the South Pole. <i>Journal of Instrumentation</i> , 2020, 15, T02002-T02002.  | 1.2  | 3         |
| 35 | 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        |
| 36 | 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        |

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|----|---|------|-----------|
| 37 | Combined sensitivity to the neutrino mass ordering with JUNO, the IceCube Upgrade, and PINGU. <i>Physical Review D</i> , 2020, 101, .   | 4.7  | 25        |
| 38 | 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        |
| 39 | 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         |
| 40 | 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         |
| 41 | Turbulence-level dependence of cosmic ray parallel diffusion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5051-5064.  | 4.4  | 26        |
| 42 | Velocity independent constraints on spin-dependent DM-nucleon interactions from IceCube and PICO. <i>European Physical Journal C</i> , 2020, 80, 1.   | 3.9  | 6         |
| 43 | Cosmic ray spectrum from 250ÂTeV to 10ÂPeV using IceTop. <i>Physical Review D</i> , 2020, 102, .  | 4.7  | 17        |
| 44 | Characteristics of the Diffuse Astrophysical Electron and Tau Neutrino Flux with Six Years of IceCube High Energy Cascade Data. <i>Physical Review Letters</i> , 2020, 125, 121104.   | 7.8  | 137       |
| 45 | A Search for IceCube Events in the Direction of ANITA Neutrino Candidates. <i>Astrophysical Journal</i> , 2020, 892, 53.  | 4.5  | 20        |
| 46 | Closing in on the origin of Galactic cosmic rays using multimessenger information. <i>Physics Reports</i> , 2020, 872, 1-98.  | 25.6 | 42        |
| 47 | 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        |
| 48 | 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        |
| 49 | Time-Integrated Neutrino Source Searches with 10ÂYears of IceCube Data. <i>Physical Review Letters</i> , 2020, 124, 051103.   | 7.8  | 221       |
| 50 | 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        |
| 51 | 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        |
| 52 | 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        |
| 53 | A Search for MeV to TeV Neutrinos from Fast Radio Bursts with IceCube. <i>Astrophysical Journal</i> , 2020, 890, 111.   | 4.5  | 20        |
| 54 | Interpolation of Turbulent Magnetic Fields and Its Consequences on Cosmic Ray Propagation. <i>Astrophysical Journal</i> , 2020, 889, 123.   | 4.5  | 10        |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky. <i>Astrophysical Journal</i> , 2020, 892, 92.  | 4.5 | 25        |
| 57 | IceCube Search for High-energy Neutrino Emission from TeV Pulsar Wind Nebulae. <i>Astrophysical Journal</i> , 2020, 898, 117.  | 4.5 | 21        |
| 58 | Recurrent Neutrino Emission from Supermassive Black Hole Mergers. <i>Astrophysical Journal Letters</i> , 2020, 905, L13.   | 8.3 | 11        |
| 59 | A novel analytical model of the magnetic field configuration in the Galactic center. <i>Astronomy and Astrophysics</i> , 2020, 644, A71.   | 5.1 | 9         |
| 60 | 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        |
| 61 | Search for transient optical counterparts to high-energy IceCube neutrinos with Pan-STARRS1. <i>Astronomy and Astrophysics</i> , 2019, 626, A117.  | 5.1 | 13        |
| 62 | CRPropa - A Toolbox for Cosmic Ray Simulations. <i>Journal of Physics: Conference Series</i> , 2019, 1181, 012034.   | 0.4 | 1         |
| 63 | Solenoidal Improvements for the JF12 Galactic Magnetic Field Model. <i>Astrophysical Journal</i> , 2019, 877, 76.  | 4.5 | 13        |
| 64 | 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        |
| 65 | Cosmic ray spectrum and composition from PeV to EeV using 3 years of data from IceTop and IceCube. <i>Physical Review D</i> , 2019, 100, .   | 4.7 | 76        |
| 66 | Search for Sources of Astrophysical Neutrinos Using Seven Years of IceCube Cascade Events. <i>Astrophysical Journal</i> , 2019, 886, 12.   | 4.5 | 53        |
| 67 | 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        |
| 68 | Measurement of atmospheric tau neutrino appearance with IceCube DeepCore. <i>Physical Review D</i> , 2019, 99, .   | 4.7 | 53        |
| 69 | 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        |
| 70 | 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         |
| 71 | 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        |
| 72 | Detection of the Temporal Variation of the Sun's Cosmic Ray Shadow with the IceCube Detector. <i>Astrophysical Journal</i> , 2019, 872, 133.   | 4.5 | 7         |

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|----|--|------|-----------|
| 73 | Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.   | 4.3  | 35        |
| 74 | Constraints on Minute-Scale Transient Astrophysical Neutrino Sources. <i>Physical Review Letters</i> , 2019, 122, 051102.  | 7.8  | 23        |
| 75 | Measurements using the inelasticity distribution of multi-TeV neutrino interactions in IceCube. <i>Physical Review D</i> , 2019, 99, .   | 4.7  | 55        |
| 76 | Particle transport within the pulsar wind nebula HESS J1825â€“137. <i>Astronomy and Astrophysics</i> , 2019, 621, A116.  | 5.1  | 57        |
| 77 | The 2014 TeV $\hat{I}^3$ -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        |
| 78 | Studying the Temporal Variation of the Cosmic-Ray Sun Shadow Using IceCube Data. , 2019, , .   |      | 1         |
| 79 | H.E.S.S. discovery of very high energy $\hat{I}^3$ -ray emission from PKSâ€“0625âˆ“354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4187-4198.   | 4.4  | 21        |
| 80 | Ultra-high-energy cosmic rays from radio galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 036-036.  | 5.4  | 46        |
| 81 | Measurement of Atmospheric Neutrino Oscillations at 6â€“56â€“GeV with IceCube DeepCore. <i>Physical Review Letters</i> , 2018, 120, 071801.  | 7.8  | 88        |
| 82 | Cosmic-ray tracing. <i>Nature Physics</i> , 2018, 14, 333-334.   | 16.7 | 0         |
| 83 | Search for nonstandard neutrino interactions with IceCube DeepCore. <i>Physical Review D</i> , 2018, 97, .   | 4.7  | 23        |
| 84 | Astrophysical neutrinos and cosmic rays observed by IceCube. <i>Advances in Space Research</i> , 2018, 62, 2902-2930.  | 2.6  | 20        |
| 85 | 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        |
| 86 | 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       |
| 87 | 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        |
| 88 | The $\langle i \rangle \hat{I}^3 \langle /i \rangle$ -ray spectrum of the core of Centaurus A as observed with H.E.S.S. and $\langle i \rangle$ Fermi $\langle /i \rangle$ -LAT. <i>Astronomy and Astrophysics</i> , 2018, 619, A71. | 5.1  | 28        |
| 89 | Searches for gamma-ray lines and $\hat{I}^3$ -pure WIMPâ€“ 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        |
| 90 | A search for very high-energy flares from the microquasars GRS 1915+105, Circinus X-1, and V4641 Sgr using contemporaneous H.E.S.S. and RXTE observations. <i>Astronomy and Astrophysics</i> , 2018, 612, A10.                       | 5.1  | 7         |

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|-----|---|-----|-----------|
| 91  | Population study of Galactic supernova remnants at very high $\gamma$ -ray energies with H.E.S.S.. Astronomy and Astrophysics, 2018, 612, A3.   | 5.1 | 44        |
| 92  | Extended VHE $\gamma$ -ray emission towards SGR1806 $\hat{~}$ 20, LBV 1806 $\hat{~}$ 20, and stellar cluster Cl* 1806 $\hat{~}$ 20. Astronomy and Astrophysics, 2018, 612, A11.   | 5.1 | 12        |
| 93  | H.E.S.S. observations of RX J1713.7 $\hat{~}$ 3946 with improved angular and spectral resolution: Evidence for gamma-ray emission extending beyond the X-ray emitting shell. Astronomy and Astrophysics, 2018, 612, A6. | 5.1 | 95        |
| 94  | The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 612, A5.  | 5.1 | 35        |
| 95  | The starburst galaxy NGC 253 revisited by H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 617, A73.   | 5.1 | 41        |
| 96  | Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes. Astrophysical Journal Letters, 2018, 868, L20.  | 8.3 | 64        |
| 97  | First ground-based measurement of sub-20 GeV to 100 GeV $\gamma$ -Rays from the Vela pulsar with H.E.S.S. II. Astronomy and Astrophysics, 2018, 620, A66.   | 5.1 | 32        |
| 98  | Detailed spectral and morphological analysis of the shell type supernova remnant RCW 86. Astronomy and Astrophysics, 2018, 612, A4.   | 5.1 | 24        |
| 99  | Supernova explosions of massive stars and cosmic rays. Advances in Space Research, 2018, 62, 2773-2816.   | 2.6 | 15        |
| 100 | Characterising the VHE diffuse emission in the central 200 parsecs of our Galaxy with H.E.S.S.. Astronomy and Astrophysics, 2018, 612, A9.  | 5.1 | 52        |
| 101 | Search for neutrinos from decaying dark matter with IceCube. European Physical Journal C, 2018, 78, 831.  | 3.9 | 62        |
| 102 | HESS J1741 $\hat{~}$ 302: a hidden accelerator in the Galactic plane. Astronomy and Astrophysics, 2018, 612, A13.   | 5.1 | 4         |
| 103 | A search for new supernova remnant shells in the Galactic plane with H.E.S.S.. Astronomy and Astrophysics, 2018, 612, A8.   | 5.1 | 32        |
| 104 | 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       |
| 105 | Search for $\gamma$ -Ray Line Signals from Dark Matter Annihilations in the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. Physical Review Letters, 2018, 120, 201101.                                | 7.8 | 105       |
| 106 | Deeper H.E.S.S. observations of Vela Junior (RX J0852.0 $\hat{~}$ 4622): Morphology studies and resolved spectroscopy. Astronomy and Astrophysics, 2018, 612, A7.   | 5.1 | 43        |
| 107 | Detection of variable VHE $\gamma$ -ray emission from the extra-galactic $\gamma$ -ray binary LMC P3. Astronomy and Astrophysics, 2018, 610, L17.   | 5.1 | 12        |
| 108 | Constraints on particle acceleration in SS433/W50 from MAGIC and H.E.S.S. observations. Astronomy and Astrophysics, 2018, 612, A14.   | 5.1 | 23        |

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|-----|--|------|-----------|
| 109 | The H.E.S.S. Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A1.   | 5.1  | 244       |
| 110 | Neutrino interferometry for high-precision tests of Lorentz symmetry with IceCube. <i>Nature Physics</i> , 2018, 14, 961-966.                                    | 16.7 | 66        |
| 111 | Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .                              | 12.6 | 654       |
| 112 | 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       |
| 113 | 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        |
| 114 | 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       |
| 115 | THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE TEV-PEV NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.   | 4.5  | 186       |
| 116 | Characterizing the $\gamma$ -ray long-term variability of PKS 2155+304 with H.E.S.S. and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2017, 598, A39.          | 5.1  | 33        |
| 117 | PINGLI: 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        |
| 118 | The IceCube realtime alert system. <i>Astroparticle Physics</i> , 2017, 92, 30-41.   | 4.3  | 116       |
| 119 | On the non-thermal electron-to-proton ratio at cosmic ray acceleration sites. <i>Astroparticle Physics</i> , 2017, 90, 75-84.                                    | 4.3  | 18        |
| 120 | The IceCube Neutrino Observatory: instrumentation and online systems. <i>Journal of Instrumentation</i> , 2017, 12, P03012-P03012.                               | 1.2  | 390       |
| 121 | Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.                               | 8.3  | 2,805     |
| 122 | Search for Astrophysical Sources of Neutrinos Using Cascade Events in IceCube. <i>Astrophysical Journal</i> , 2017, 846, 136.                                    | 4.5  | 21        |
| 123 | Search for sterile neutrino mixing using three years of IceCube DeepCore data. <i>Physical Review D</i> , 2017, 95, .  | 4.7  | 75        |
| 124 | Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. <i>Physical Review D</i> , 2017, 96, . | 4.7  | 40        |
| 125 | First limits on the very-high energy gamma-ray afterglow emission of a fast radio burst. <i>Astronomy and Astrophysics</i> , 2017, 597, A115.                    | 5.1  | 6         |
| 126 | Search for annihilating dark matter in the Sun with 3 years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1.                                   | 3.9  | 111       |



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|-----|---|------|-----------|
| 127 | TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. <i>Astrophysical Journal Letters</i> , 2017, 850, L22.   | 8.3  | 38        |
| 128 | Measurement of the $\mu$ $1/2$ energy spectrum with IceCube-79. <i>European Physical Journal C</i> , 2017, 77, 692.   | 3.9  | 24        |
| 129 | Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 850, L35.                   | 8.3  | 135       |
| 130 | Measurement of the multi-TeV neutrino interaction cross-section with IceCube using Earth absorption. <i>Nature</i> , 2017, 551, 596-600.  | 27.8 | 113       |
| 131 | Constraints on Galactic Neutrino Emission with Seven Years of IceCube Data. <i>Astrophysical Journal</i> , 2017, 849, 67.   | 4.5  | 95        |
| 132 | CRPropa 3.1â€”a low energy extension based on stochastic differential equations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 046-046.   | 5.4  | 36        |
| 133 | Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , 2017, 843, 112.  | 4.5  | 116       |
| 134 | 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        |
| 135 | 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        |
| 136 | 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        |
| 137 | Measurement of the EBL spectral energy distribution using the VHE $\gamma$ -ray spectra of H.E.S.S. blazars. <i>Astronomy and Astrophysics</i> , 2017, 606, A59.  | 5.1  | 54        |
| 138 | Multiwavelength follow-up of a rare IceCube neutrino multiplet. <i>Astronomy and Astrophysics</i> , 2017, 607, A115.  | 5.1  | 33        |
| 139 | On the (extra)Galactic origin(s) of the IceCube neutrino signal. , 2017, , .  |      | 0         |
| 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        |
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