

CITATION REPORT

List of articles citing

First year performance of the IceCube neutrino telescope

DOI: 10.1016/j.astropartphys.2006.06.007
Astroparticle Physics, 2006, 26, 155-173.

Source: <https://exaly.com/paper-pdf/40475185/citation-report.pdf>

Version: 2024-04-29

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 351 | References. 369-377 | | |
| 350 | Signature of sterile species in atmospheric neutrino data at neutrino telescopes. 2007 , 2007, 014-014 | | 50 |
| 349 | Flavor composition and energy spectrum of astrophysical neutrinos. <i>Physical Review D</i> , 2007 , 75, | 4.9 | 137 |
| 348 | Oscillation effects on high-energy neutrino fluxes from astrophysical hidden sources. <i>Physical Review D</i> , 2007 , 75, | 4.9 | 29 |
| 347 | Predictions for the cosmogenic neutrino flux in light of new data from the Pierre Auger Observatory. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 58 |
| 346 | TeV Particle Astrophysics II: Summary comments. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 72-77 | 0.3 | |
| 345 | First results from the NEMO Test Site. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 343-345 | 0.3 | 1 |
| 344 | Construction Status and Future of the IceCube Neutrino Observatory. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 47-51 | 0.3 | 1 |
| 343 | Air showers in a three dimensional array: Recent data from IceCube/IceTop. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 327-329 | 0.3 | 1 |
| 342 | Tau Neutrinos in IceCube. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 227-230 | 0.3 | 27 |
| 341 | ARENA 2006 Conference Summary Acoustic Detection. <i>Journal of Physics: Conference Series</i> , 2007 , 81, 012027 | 0.3 | 1 |
| 340 | ARIANNA: A New Concept for UHE Neutrino Detection. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 276-283 | 0.3 | 49 |
| 339 | IceCube - First Results. <i>Journal of Physics: Conference Series</i> , 2007 , 60, 334-336 | 0.3 | 3 |
| 338 | Neutrino astrophysics experiments beneath the sea and ice. 2007 , 315, 66-8 | | 13 |
| 337 | Neutrinos from cosmic ray accelerators in the Cygnus region of the galaxy. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 12 |
| 336 | Density profiles of supernova matter and determination of neutrino parameters. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 2 |
| 335 | Confusing sterile neutrinos with deviation from tribimaximal mixing at neutrino telescopes. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 20 |

| | | | |
|-----|---|-----|----|
| 334 | Neutrino flux ratios at neutrino telescopes: The role of uncertainties of neutrino mixing parameters and applications to neutrino decay. <i>Physical Review D</i> , 2007 , 75, | 4.9 | 40 |
| 333 | Detection of atmospheric muon neutrinos with the IceCube 9-string detector. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 23 |
| 332 | XMM-Newton observations of the first unidentified TeV gamma-ray source TeV J2032+4130. <i>Astronomy and Astrophysics</i> , 2007 , 469, L17-L21 | 5.1 | 19 |
| 331 | Light tracking through ice and water scattering and absorption in heterogeneous media with Photonics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 581, 619-631 | 1.2 | 49 |
| 330 | Review on Neutrino Telescopes. 2007 , 165, 161-171 | | |
| 329 | Neutrino astronomy in Ice. 2007 , 168, 232-237 | | |
| 328 | The IceCube Neutrino Observatory - Design and Performance. 2007 , 172, 13-16 | | 1 |
| 327 | Signals of very high energy neutralinos in future cosmic ray detectors. 2007 , 650, 407-415 | | 1 |
| 326 | Cosmic neutrinos from the sources of galactic and extragalactic cosmic rays. 2007 , 309, 407-414 | | 13 |
| 325 | AURA Next generation neutrino detector in the South Pole. 2007 , 168, 268-270 | | 6 |
| 324 | The radio Cherenkov technique for ultra-high energy neutrino detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 595, 260-263 | 1.2 | 2 |
| 323 | The expectation maximization algorithm applied to the search of point sources of astroparticles. <i>Astroparticle Physics</i> , 2008 , 29, 117-124 | 2.4 | 18 |
| 322 | IceTop Cosmic ray physics with IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 588, 130-134 | 1.2 | 5 |
| 321 | IceCube: Performance, Status, and Future. 2008 , 175-176, 409-414 | | |
| 320 | Permafrost: An alternative target material for ultra-high energy neutrino detection?. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 587, 29-34 | 1.2 | 8 |
| 319 | Recent achievements of the NEMO project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 588, 111-118 | 1.2 | 47 |
| 318 | The IceCube/IceTop air shower experiment. 2008 , 175-176, 415-420 | | 6 |
| 317 | Prospects for identifying the sources of the Galactic cosmic rays with IceCube. <i>Physical Review D</i> , 2008 , 78, | 4.9 | 42 |

| | | | |
|-----|--|-----|-----|
| 316 | Probing θ 3 in neutrino telescopes. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 16 |
| 315 | Radiography of Earth's core and mantle with atmospheric neutrinos. 2008 , 100, 061802 | | 34 |
| 314 | Recentvs from IceCube. <i>Journal of Physics: Conference Series</i> , 2008 , 136, 022050 | 0.3 | |
| 313 | The highest energy neutrinos. <i>Journal of Physics: Conference Series</i> , 2008 , 120, 062004 | 0.3 | 4 |
| 312 | Extragalactic optical-infrared background radiation, its time evolution and the cosmic photon-photon opacity. <i>Astronomy and Astrophysics</i> , 2008 , 487, 837-852 | 5.1 | 606 |
| 311 | Solar Energetic Particle Spectrum on 2006 December 13 Determined by IceTop. <i>Astrophysical Journal</i> , 2008 , 689, L65-L68 | 4.7 | 29 |
| 310 | The NEMO project: achievements and perspectives. <i>Journal of Physics: Conference Series</i> , 2008 , 120, 062010 | | |
| 309 | The Search for Muon Neutrinos from Northern Hemisphere Gamma-Ray Bursts with AMANDA. <i>Astrophysical Journal</i> , 2008 , 674, 357-370 | 4.7 | 36 |
| 308 | SEARCH FOR HIGH-ENERGY MUON NEUTRINOS FROM THE NAKED-EYE GRB 080319B WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2009 , 701, 1721-1731 | 4.7 | 25 |
| 307 | Extending the search for neutrino point sources with IceCube above the horizon. 2009 , 103, 221102 | | 31 |
| 306 | Neutrino diagnostics of ultrahigh energy cosmic ray protons. <i>Physical Review D</i> , 2009 , 79, | 4.9 | 44 |
| 305 | Limits on a muon flux from neutralino annihilations in the sun with the IceCube 22-string detector. 2009 , 102, 201302 | | 114 |
| 304 | Gamma-Ray Bursts. 2009 , | | 39 |
| 303 | High-energy neutrinos from dark matter particle self-capture within the Sun. <i>Physical Review D</i> , 2009 , 80, | 4.9 | 64 |
| 302 | SEARCHES FOR A DIFFUSE FLUX OF EXTRATERRESTRIAL MUON NEUTRINOS WITH THE ICECUBE OBSERVATORY. 2009 , 18, 1603-1607 | | 1 |
| 301 | EXTENDED SEARCH FOR POINT SOURCES OF NEUTRINOS BELOW AND ABOVE THE HORIZON: COVERING ENERGIES FROM TeV TO EeV WITH ICECUBE. 2009 , 18, 1587-1590 | | 2 |
| 300 | GALACTIC MAGNETIC FIELDS AND THE LARGE-SCALE ANISOTROPY AT MILAGRO. <i>Astrophysical Journal</i> , 2009 , 703, L90-L93 | 4.7 | 16 |
| 299 | High energy neutrino telescopes. 2009 , 11, 055006 | | 5 |

| | | | |
|-----|---|-----|-----|
| 298 | Cosmic ray knee and new physics at the TeV scale. 2009 , 2009, 027-027 | | 5 |
| 297 | Limits on the WIMP-nucleon scattering cross-section from neutrino telescopes. 2009 , 2009, 009-009 | | 71 |
| 296 | 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 | 1.2 | 228 |
| 295 | AURAA radio frequency extension to IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 604, S70-S75 ^{1.2} | | 16 |
| 294 | Recent results and perspectives of the NEMO project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 602, 47-53 | 1.2 | 21 |
| 293 | Development of telescopes for extremely energetic neutrinos: AMANDA, ANITA, and ARIANNA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 602, 279-284 | 1.2 | 8 |
| 292 | Study of the acoustic signature of UHE neutrino interactions in water and ice. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 607, 398-411 | 1.2 | 18 |
| 291 | News from the South Pole: recent results from the IceCube and AMANDA neutrino telescopes. 2009 , 827, 567c-569c | | 1 |
| 290 | Neutrino Astronomy in the Ice. 2009 , 188, 239-244 | | 3 |
| 289 | Prospects of identifying the sources of the Galactic cosmic rays with IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 602, 117-119 | 1.2 | 14 |
| 288 | High energy neutrino acoustic detection activities in Lake Baikal: Status and results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 604, S130-S135 | 1.2 | 6 |
| 287 | Measurement of sound speed versus depth in Antarctic ice with the South Pole Acoustic Test Setup. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 604, S175-S178 | 1.2 | 7 |
| 286 | HADESHydrophone for Acoustic Detection at South Pole. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 604, S215-S218 | 1.2 | 4 |
| 285 | Identifying Galactic PeVatrons with neutrinos. <i>Astroparticle Physics</i> , 2009 , 31, 437-444 | 2.4 | 49 |
| 284 | Recording of ultrahigh-energy astrophysical neutrinos. 2009 , 40, 1-28 | | 6 |
| 283 | Capture of inelastic Dark Matter in the sun. 2009 , 2009, 037-037 | | 56 |
| 282 | IceCube: A Cubic Kilometer Radiation Detector. 2009 , 56, 1141-1147 | | 12 |
| 281 | DAMA/LIBRA data and leptonically interacting dark matter. <i>Physical Review D</i> , 2009 , 80, | 4.9 | 125 |

| | | | |
|-----|--|-----|-----|
| 280 | FIRST NEUTRINO POINT-SOURCE RESULTS FROM THE 22 STRING ICECUBE DETECTOR. <i>Astrophysical Journal</i> , 2009 , 701, L47-L51 | 4.7 | 41 |
| 279 | IceCube Science. <i>Journal of Physics: Conference Series</i> , 2009 , 171, 012014 | 0.3 | 7 |
| 278 | Probing dark matter dynamics via earthborn neutrinos at IceCube. 2009 , 2009, 099-099 | | 22 |
| 277 | IceCube neutrino observatory at the South Pole: recent results. 2009 , 5, 620-621 | | 1 |
| 276 | IceCube Science. <i>Journal of Physics: Conference Series</i> , 2009 , 173, 012021 | 0.3 | 2 |
| 275 | SEARCH FOR MUON NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2010 , 710, 346-359 | 4.7 | 69 |
| 274 | High-energy astrophysics with neutrino telescopes. 2010 , 65, 649-701 | | 40 |
| 273 | Dark matter annihilation rate with nonstandard thermal history. 2010 , 2010, 1 | | 17 |
| 272 | Simulation of large photomultipliers for experiments in astroparticle physics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 613, 145-151 | 1.2 | 2 |
| 271 | 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 | 1.2 | 179 |
| 270 | Water transparency measurements in the deep Ionian Sea. <i>Astroparticle Physics</i> , 2010 , 34, 187-197 | 2.4 | 14 |
| 269 | Simulation of heterogeneity sections obtained by neutrino radiography. 2010 , 62, 215-221 | | 3 |
| 268 | High energy neutrinos to see inside the Earth. 2010 , 62, 205-209 | | |
| 267 | Seasonal variation of atmospheric leptons as a probe of charm. 2010 , 105, 121102 | | 17 |
| 266 | Invited review article: IceCube: an instrument for neutrino astronomy. 2010 , 81, 081101 | | 139 |
| 265 | Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube. <i>Physical Review D</i> , 2010 , 82, | 4.9 | 65 |
| 264 | Multiflavor and multiband observations of neutrinos from core collapse supernovae. <i>Physical Review D</i> , 2010 , 81, | 4.9 | 7 |
| 263 | Constraints on neutrino-nucleon interactions at energies of 1 EeV with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2010 , 82, | 4.9 | 1 |

| | | | |
|-----|--|-----|-----|
| 262 | First search for extremely high energy cosmogenic neutrinos with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2010 , 82, | 4.9 | 27 |
| 261 | Detection of supernova explosions with IceCube. 2010 , 27, 194003 | | 1 |
| 260 | Monitoring in a High-Arctic Environment: Some Lessons from MANA. 2010 , 9, 16-23 | | 10 |
| 259 | Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 40 |
| 258 | Neutrino fluxes from nonuniversal Higgs mass LSP annihilations in the Sun. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 4 |
| 257 | Search for dark matter from the Galactic halo with the IceCube Neutrino Telescope. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 69 |
| 256 | Charge asymmetric cosmic ray signals from dark matter decay. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 22 |
| 255 | Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 143 |
| 254 | Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-string detector. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 85 |
| 253 | Calculation of high energy neutrino-nucleon cross sections and uncertainties using the Martin-Stirling-Thorne-Watt parton distribution functions and implications for future experiments. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 89 |
| 252 | OBSERVATION OF ANISOTROPY IN THE ARRIVAL DIRECTIONS OF GALACTIC COSMIC RAYS AT MULTIPLE ANGULAR SCALES WITH IceCube. <i>Astrophysical Journal</i> , 2011 , 740, 16 | 4.7 | 91 |
| 251 | TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. <i>Astrophysical Journal</i> , 2011 , 732, 18 | 4.7 | 106 |
| 250 | Constraints on high-energy neutrino emission from SN 2008D. <i>Astronomy and Astrophysics</i> , 2011 , 527, A28 | 5.1 | 7 |
| 249 | IceCube sensitivity for low-energy neutrinos from nearby supernovae. <i>Astronomy and Astrophysics</i> , 2011 , 535, A109 | 5.1 | 92 |
| 248 | Neutrino astronomy with IceCube and AMANDA. 2011 , 221, 103-109 | | |
| 247 | Underwater Neutrino Detection in the Mediterranean Sea: From Present to Future. 2011 , 221, 130-135 | | |
| 246 | Measurement of acoustic attenuation in South Pole ice. <i>Astroparticle Physics</i> , 2011 , 34, 382-393 | 2.4 | 24 |
| 245 | Search for neutrino-induced cascades with five years of AMANDA data. <i>Astroparticle Physics</i> , 2011 , 34, 420-430 | 2.4 | 20 |

| | | | |
|-----|--|-----|----|
| 244 | The NEMO project: A status report. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 626-627, S25-S29 | 1.2 | 18 |
| 243 | The Baikal Neutrino Project: Present and perspective. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 628, 115-119 ^{1,2} | | 8 |
| 242 | First search for atmospheric and extraterrestrial neutrino-induced cascades with the IceCube detector. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 34 |
| 241 | Measurement of the all-particle cosmic ray energy spectrum with IceTop. 2011 , 7, 175-178 | | |
| 240 | High-energy neutrino astronomy: detection methods and first achievements.. 2011 , 74, | | 15 |
| 239 | Search for ultrahigh-energy tau neutrinos with IceCube. <i>Physical Review D</i> , 2012 , 86, | 4.9 | 18 |
| 238 | Constraints on the origin of the ultrahigh energy cosmic rays using cosmic diffuse neutrino flux limits: An analytical approach. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 17 |
| 237 | Probing the structure of jet-driven core-collapse supernova and long gamma-ray burst progenitors with high-energy neutrinos. <i>Physical Review D</i> , 2012 , 86, | 4.9 | 23 |
| 236 | Searching for soft relativistic jets in core-collapse supernovae with the IceCube optical follow-up program. <i>Astronomy and Astrophysics</i> , 2012 , 539, A60 | 5.1 | 35 |
| 235 | SEARCHES FOR PERIODIC NEUTRINO EMISSION FROM BINARY SYSTEMS WITH 22 AND 40 STRINGS OF ICECUBE. <i>Astrophysical Journal</i> , 2012 , 748, 118 | 4.7 | 8 |
| 234 | Detecting unresolved moving sources in a diffuse background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 425, 862-877 | 4.3 | 2 |
| 233 | Calculation of the Cherenkov light yield from low energetic secondary particles accompanying high-energy muons in ice and water with Geant4 simulations. <i>Astroparticle Physics</i> , 2012 , 38, 53-67 | 2.4 | 14 |
| 232 | TIME-DEPENDENT SEARCHES FOR POINT SOURCES OF NEUTRINOS WITH THE 40-STRING AND 22-STRING CONFIGURATIONS OF ICECUBE. <i>Astrophysical Journal</i> , 2012 , 744, 1 | 4.7 | 35 |
| 231 | MEASUREMENTS OF COSMIC RAYS WITH ICETOP/ICECUBE: STATUS AND RESULTS. 2012 , 27, 1230038 | | 2 |
| 230 | Design and performance of the South Pole Acoustic Test Setup. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 683, 78-90 | 1.2 | 6 |
| 229 | Cherenkov Counting. 2012 , 935-1019 | | 2 |
| 228 | The Neutrino Telescope of the KM3NeT Deep-Sea Research Infrastructure. 2012 , 37, 1209-1216 | | |
| 227 | Background studies for acoustic neutrino detection at the South Pole. <i>Astroparticle Physics</i> , 2012 , 35, 312-324 | 2.4 | 10 |

| | | | |
|-----|---|-----|-----|
| 226 | The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012 , 35, 615-624 | 2.4 | 158 |
| 225 | Measurements of the cosmic ray composition with air shower experiments. <i>Astroparticle Physics</i> , 2012 , 35, 660-678 | 2.4 | 213 |
| 224 | Acoustic search for high-energy neutrinos in the Lake Baikal: Results and plans. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 662, S210-S215 | 1.2 | 6 |
| 223 | First observation of PeV-energy neutrinos with IceCube. 2013 , 111, 021103 | | 470 |
| 222 | An improved method for measuring muon energy using the truncated mean of dE/dx. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 703, 190-198 | 1.2 | 28 |
| 221 | A view of prompt atmospheric neutrinos with IceCube. 2013 , 237-238, 266-268 | | 12 |
| 220 | Demystifying the PeV cascades in IceCube: Less (energy) is more (events). <i>Physical Review D</i> , 2013 , 88, | 4.9 | 75 |
| 219 | Measurement of atmospheric neutrino oscillations with IceCube. 2013 , 111, 081801 | | 41 |
| 218 | Evidence for high-energy extraterrestrial neutrinos at the IceCube detector. 2013 , 342, 1242856 | | 814 |
| 217 | Cosmic-ray physics with IceCube. 2013 , 51, 242-246 | | 1 |
| 216 | Technology development for the ExaVolt Antenna (EVA) suborbital ultra-high energy particle observatory. 2013 , | | 0 |
| 215 | Sensitivities of the IceCube DeepCore detector to signatures of low-mass dark matter in the Galactic halo. <i>Physical Review D</i> , 2013 , 87, | 4.9 | 7 |
| 214 | Identify signatures of underground muons from atmospheric charm: Simulation study. <i>Astroparticle Physics</i> , 2013 , 41, 38-44 | 2.4 | |
| 213 | 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 | 1.2 | 101 |
| 212 | Neutrino Astronomy with the IceCube Observatory. <i>Journal of Physics: Conference Series</i> , 2013 , 409, 012014 | 1.4 | 2 |
| 211 | Neutrino detection, position calibration and marine science with acoustic arrays in the deep sea. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 725, 32-37 | 1.2 | |
| 210 | Astrophysics of Galactic Charged Cosmic Rays. 2013 , 725-788 | | 4 |
| 209 | Cosmic ray composition and energy spectrum from 1B0PeV using the 40-string configuration of IceTop and IceCube. <i>Astroparticle Physics</i> , 2013 , 42, 15-32 | 2.4 | 28 |

| | | | |
|-----|---|-----|-----|
| 208 | Calculation of the Cherenkov light yield from electromagnetic cascades in ice with Geant4. <i>Astroparticle Physics</i> , 2013 , 44, 102-113 | 2.4 | 11 |
| 207 | All-particle cosmic ray energy spectrum measured with 26 IceTop stations. <i>Astroparticle Physics</i> , 2013 , 44, 40-58 | 2.4 | 13 |
| 206 | Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2013 , 87, | 4.9 | 26 |
| 205 | IceTop: The surface component of IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 700, 188-220 | 1.2 | 103 |
| 204 | Atmospheric Neutrino Oscillations in IceCube. 2013 , 237-238, 272-274 | | 6 |
| 203 | Electromagnetic transients as triggers in searches for gravitational waves from compact binary mergers. <i>Physical Review D</i> , 2013 , 87, | 4.9 | 41 |
| 202 | Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. <i>Physical Review D</i> , 2013 , 88, | 4.9 | 40 |
| 201 | Assessing the utility of acoustic communication for wireless sensors deployed beneath ice sheets. 2013 , 54, 124-134 | | 5 |
| 200 | Heavy neutrino decay at SHALON. 2013 , 52, 09010 | | 1 |
| 199 | Astronomy of ultra-high energy neutral particles with the Pierre Auger Observatory. <i>Journal of Physics: Conference Series</i> , 2013 , 409, 012115 | 0.3 | |
| 198 | Cosmic Ray Physics with the IceCube Observatory. <i>Journal of Physics: Conference Series</i> , 2013 , 409, 0120063 | | 1 |
| 197 | South Pole glacial climate reconstruction from multi-borehole laser particulate stratigraphy. 2013 , 59, 1117-1128 | | 16 |
| 196 | Indirect Dark Matter search with the ANTARES Deep-Sea Cherenkov detector. 2014 , 70, 00049 | | |
| 195 | IceVeto: Extended PeV neutrino astronomy in the Southern Hemisphere with IceCube. 2014 , | | |
| 194 | The Track Engine - an FPGA implementation of a track-finding algorithm for the Icecube Neutrino Telescope. 2014 , | | |
| 193 | Searches for clustering in the time integrated skymap of the ANTARES neutrino telescope. 2014 , 2014, 001-001 | | 8 |
| 192 | First data from DM-Ice17. <i>Physical Review D</i> , 2014 , 90, | 4.9 | 38 |
| 191 | Cosmic neutrino background absorption line in the neutrino spectrum at IceCube. <i>Physical Review D</i> , 2014 , 90, | 4.9 | 37 |

| | | | |
|-----|---|-----|-----|
| 190 | Can a single high-energy neutrino from gamma-ray bursts be a discovery?. <i>Physical Review D</i> , 2014 , 90, | 4.9 | 5 |
| 189 | Next-generation atmospheric neutrino experiments. 2014 , 4, 60-74 | | 7 |
| 188 | Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. <i>Physical Review D</i> , 2014 , 89, | 4.9 | 65 |
| 187 | Search for neutrino-induced particle showers with IceCube-40. <i>Physical Review D</i> , 2014 , 89, | 4.9 | 19 |
| 186 | Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , 2014 , 9, P03009-P03009 | 1 | 118 |
| 185 | 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, | 4.9 | 25 |
| 184 | Ultra-high-energy cosmic neutrinos: at energies and above. 2014 , 15, 309-317 | | |
| 183 | Cosmic ray spectrum, composition, and anisotropy measured with IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 742, 35-41 | 1.2 | 4 |
| 182 | Improvement in fast particle track reconstruction with robust statistics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 736, 143-149 | 1.2 | 20 |
| 181 | Back-to-back black holes decay signature at neutrino observatories. <i>Astroparticle Physics</i> , 2014 , 54, 132-138 | 1.2 | 5 |
| 180 | A novel approach to study atmospheric neutrino oscillation. 2014 , 2014, 1 | | 15 |
| 179 | Recent Highlights from IceCube. 2014 , 44, 540-549 | | 1 |
| 178 | The latest IceCube results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 766, 43-47 | 1.2 | 1 |
| 177 | Cosmogenic neutrinos and gamma rays. 2014 , 15, 349-356 | | 7 |
| 176 | Dark Matter Induced Neutrino Signature in IceCube DeepCore Detector. 2014 , 246-247, 90-94 | | |
| 175 | Design and implementation of a nanosecond time-stamping readout system-on-chip for photo-detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 735, 587-595 | 1.2 | 3 |
| 174 | Cosmic neutrino pevatrons: A brand new pathway to astronomy, astrophysics, and particle physics. 2014 , 1-2, 1-30 | | 111 |
| 173 | Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data. <i>Physical Review D</i> , 2015 , 91, | 4.9 | 63 |

| | | | |
|-----|---|-----|-----|
| 172 | Measurement of the Atmospheric $\bar{\nu}$ Spectrum with IceCube. <i>Physical Review D</i> , 2015 , 91, | 4.9 | 39 |
| 171 | Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. 2015 , 115, 081102 | | 204 |
| 170 | SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2015 , 805, L5 | 7.9 | 92 |
| 169 | THE DETECTION OF A SN II _n IN OPTICAL FOLLOW-UP OBSERVATIONS OF ICECUBE NEUTRINO EVENTS. <i>Astrophysical Journal</i> , 2015 , 811, 52 | 4.7 | 30 |
| 168 | Atmospheric neutrino oscillations with PINGU. <i>Journal of Physics: Conference Series</i> , 2015 , 598, 012026 | 0.3 | |
| 167 | Search for dark matter annihilation in the Galactic Center with IceCube-79. 2015 , 75, 1 | | 37 |
| 166 | Results from atmospheric neutrino oscillations with IceCube DeepCore. 2015 , | | |
| 165 | Measurement of Atmospheric Neutrino Oscillations with Very Large Volume Neutrino Telescopes. 2015 , 2015, 1-24 | | 6 |
| 164 | Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube: IceCube Collaboration. 2015 , 75, 116 | | 29 |
| 163 | Thermo-acoustic sound generation in the interaction of pulsed proton and laser beams with a water target. <i>Astroparticle Physics</i> , 2015 , 65, 69-79 | 2.4 | 7 |
| 162 | Searches for small-scale anisotropies from neutrino point sources with three years of IceCube data. <i>Astroparticle Physics</i> , 2015 , 66, 39-52 | 2.4 | 32 |
| 161 | Measurement of the Diffuse Neutrino Flux by a Global Fit to Multiple IceCube Results. 2015 , 61, 435-442 | | 1 |
| 160 | Ground- and Space-Based Gamma-Ray Astronomy. 2015 , 65, 245-277 | | 49 |
| 159 | Effective field theory interpretation of searches for dark matter annihilation in the Sun with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2015 , 91, | 4.9 | 20 |
| 158 | Atmospheric and astrophysical neutrinos above 1 TeV interacting in IceCube. <i>Physical Review D</i> , 2015 , 91, | 4.9 | 179 |
| 157 | Liverpool telescope 2: a new robotic facility for rapid transient follow-up. 2015 , 39, 119-165 | | 8 |
| 156 | Measurement of Atmospheric Neutrino Oscillations with IceCube/DeepCore in its 79-string Configuration. 2015 , 61, 598-607 | | |
| 155 | Swift follow-up of IceCube triggers, and implications for the Advanced-LIGO era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 448, 2210-2223 | 4.3 | 18 |

| | | | |
|-----|--|-----|-----|
| 154 | A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. <i>Astrophysical Journal</i> , 2015 , 809, 98 | 4.7 | 280 |
| 153 | High-energy neutrino signatures of newborn pulsars in the local universe. 2015 , 2015, 004-004 | | 10 |
| 152 | Cherenkov water detector NEVOD. 2015 , 58, 486-494 | | 33 |
| 151 | From Atmospheric Neutrinos to the Neutrino Mass Hierarchy. 2015 , 265-266, 268-270 | | |
| 150 | Detecting extra-galactic supernova neutrinos in the Antarctic ice. <i>Astroparticle Physics</i> , 2015 , 62, 54-65 | 2.4 | 18 |
| 149 | Capabilities of IceCube's gamma-ray, optical and X-ray follow-up programs. 2016 , 116, 10002 | | 1 |
| 148 | From DeepCore to PINGU. 2016 , 116, 11009 | | |
| 147 | DETECTING THE SUPERNOVA BREAKOUT BURST IN TERRESTRIAL NEUTRINO DETECTORS. <i>Astrophysical Journal</i> , 2016 , 817, 182 | 4.7 | 21 |
| 146 | IceCube results from point-like source searches using 6 years of through-going muon data. 2016 , 116, 04003 | | |
| 145 | Measuring the optical properties of IceCube drill holes. 2016 , 116, 06011 | | 4 |
| 144 | Correlation between the UHECRs measured by the Pierre Auger Observatory and Telescope Array and neutrino candidate events from IceCube. 2016 , 116, 10004 | | |
| 143 | Measurement of the atmospheric muon neutrino energy spectrum with IceCube in the 79- and 86-String configuration. 2016 , 116, 08004 | | |
| 142 | Low-energy point source searches with IceCube. 2016 , 116, 04004 | | 1 |
| 141 | Correlation between UHECRs measured by the Pierre Auger Observatory and Telescope Array and neutrino candidate events from IceCube. <i>Journal of Physics: Conference Series</i> , 2016 , 718, 052007 | 0.3 | |
| 140 | High energy neutrino detection with KM3NeT. <i>Journal of Physics: Conference Series</i> , 2016 , 718, 052024 | 0.3 | 1 |
| 139 | Cosmic ray spectrum and composition from three years of IceTop and IceCube. <i>Journal of Physics: Conference Series</i> , 2016 , 718, 052033 | 0.3 | 6 |
| 138 | Calculated WIMP signals at the ANDES laboratory: comparison with northern and southern located dark matter detectors. 2016 , 43, 125201 | | 2 |
| 137 | Results and prospects of IceCube's real time alert capabilities. <i>Journal of Physics: Conference Series</i> , 2016 , 718, 062029 | 0.3 | 6 |

| | | | |
|-----|---|-----|-----|
| 136 | Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube. <i>Journal of Instrumentation</i> , 2016 , 11, P11009-P11009 | 1 | 15 |
| 135 | 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 | 4-7 | 249 |
| 134 | SEARCH FOR BLAZAR FLUX-CORRELATED TEV NEUTRINOS IN ICECUBE 40-STRING DATA. <i>Astrophysical Journal</i> , 2016 , 833, 117 | 4-7 | 16 |
| 133 | Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 ¹⁶ PeV with IceCube. 2016 , 117, 241101 | | 87 |
| 132 | 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 | 4-7 | 40 |
| 131 | Diffuse supernova neutrinos at underground laboratories. <i>Astroparticle Physics</i> , 2016 , 79, 49-77 | 2-4 | 36 |
| 130 | FIPSER: Performance study of a readout concept with few digitization levels for fast signals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 837, 143-152 | 1-2 | |
| 129 | Acoustic Detection of Neutrinos: Review and Future Potential. 2016 , 273-275, 406-413 | | 3 |
| 128 | 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 | 4-7 | 51 |
| 127 | Astrophysical interpretation of small-scale neutrino angular correlation searches with IceCube. <i>Astroparticle Physics</i> , 2016 , 83, 21-29 | 2-4 | 1 |
| 126 | MeV-TeV neutrino propagation as a signal of magnetic field amplification in neutron star merger. 2016 , 11-12, 29-43 | | 6 |
| 125 | Search for astrophysical tau neutrinos in three years of IceCube data. <i>Physical Review D</i> , 2016 , 93, | 4-9 | 34 |
| 124 | High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016 , 93, | 4-9 | 80 |
| 123 | Analog front-end prototype electronics for the LHAASO WCDA. 2016 , 40, 016101 | | 7 |
| 122 | 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 | 4-7 | 75 |
| 121 | LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. <i>Astrophysical Journal Letters</i> , 2016 , 824, L28 | 7-9 | 27 |
| 120 | MURCHISON WIDEFIELD ARRAY LIMITS ON RADIO EMISSION FROM ANTARES NEUTRINO EVENTS. <i>Astrophysical Journal Letters</i> , 2016 , 820, L24 | 7-9 | 8 |
| 119 | DISCOVERY OF A TRANSIENT GAMMA-RAY COUNTERPART TO FRB 131104. <i>Astrophysical Journal Letters</i> , 2016 , 832, L1 | 7-9 | 51 |

| | | | |
|-----|--|-----|-----|
| 118 | Application of data mining techniques in atmospheric neutrino analyses with IceCube. 2016 , 116, 07006 | | |
| 117 | Das Karlsruhe Tritium Neutrino Experiment. 2016 , 28, 11-16 | | |
| 116 | The 750 GeV diphoton excess, dark matter and constraints from the IceCube experiment. 2016 , 2016, 1 | | 3 |
| 115 | A review of indirect searches for particle dark matter. 2016 , 57, 496-525 | | 142 |
| 114 | Searches for relativistic magnetic monopoles in IceCube. 2016 , 76, 1 | | 20 |
| 113 | THE SEARCH FOR TRANSIENT ASTROPHYSICAL NEUTRINO EMISSION WITH ICECUBE-DEEPCORE. <i>Astrophysical Journal</i> , 2016 , 816, 75 | 4-7 | 4 |
| 112 | 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. 2016 , 2016, 037-037 | | 21 |
| 111 | Long term monitoring of the optical background in the Capo Passero deep-sea site with the NEMO tower prototype. 2016 , 76, 1 | | 7 |
| 110 | Optical and X-ray early follow-up of ANTARES neutrino alerts. 2016 , 2016, 062-062 | | 20 |
| 109 | All-sky Search for Time-integrated Neutrino Emission from Astrophysical Sources with 7 yr of IceCube Data. <i>Astrophysical Journal</i> , 2017 , 835, 151 | 4-7 | 139 |
| 108 | The IceCube realtime alert system. <i>Astroparticle Physics</i> , 2017 , 92, 30-41 | 2-4 | 76 |
| 107 | The IceCube Neutrino Observatory: instrumentation and online systems. <i>Journal of Instrumentation</i> , 2017 , 12, P03012-P03012 | 1 | 203 |
| 106 | Radio detection of cosmic-ray air showers and high-energy neutrinos. 2017 , 93, 1-68 | | 73 |
| 105 | IceCube Constraints on the Fermi Bubbles. <i>Astrophysical Journal</i> , 2017 , 847, 95 | 4-7 | 4 |
| 104 | First search for a dark matter annual modulation signal with NaI(Tl) in the Southern Hemisphere by DM-Ice17. <i>Physical Review D</i> , 2017 , 95, | 4-9 | 34 |
| 103 | Search for Astrophysical Sources of Neutrinos Using Cascade Events in IceCube. <i>Astrophysical Journal</i> , 2017 , 846, 136 | 4-7 | 14 |
| 102 | Study of air-Cherenkov telescopes for harsh environments like the south pole with efficient air-shower detection below 100 TeV. 2017 , | | |
| 101 | IceCube real-time alert system. 2017 , | | |

| | | | |
|-----|--|-----|----|
| 100 | Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 32 |
| 99 | A Search for Neutrinos from Fast Radio Bursts with IceCube. <i>Astrophysical Journal</i> , 2017 , 845, 14 | 4.7 | 9 |
| 98 | Search for annihilating dark matter in the Sun with 3 years of IceCube data. 2017 , 77, 1 | | 76 |
| 97 | CRPropa 3.1's low energy extension based on stochastic differential equations. 2017 , 2017, 046-046 | | 22 |
| 96 | Neutrinos from cosmic ray interactions in the Sun. 2017 , 2017, 033-033 | | 34 |
| 95 | Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , 2017 , 843, 112 | 4.7 | 77 |
| 94 | First search for dark matter annihilations in the Earth with the IceCube detector. 2017 , 77, 1 | | 10 |
| 93 | Lepto-hadronic model of gamma rays from Eta Carinae and prospects for neutrino telescopes. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 3 |
| 92 | Neutrinos from Core-Collapse Supernovae and Their Detection. 2017 , 1655-1670 | | 1 |
| 91 | Feasibility of an atmospheric Cherenkov telescope to veto air showers for neutrino astronomy. 2017 , | | 0 |
| 90 | Inferring the core-collapse supernova explosion mechanism with three-dimensional gravitational-wave simulations. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 21 |
| 89 | Astrophysical neutrinos: IceCube highlights. 2017 , 291-293, 167-174 | | 3 |
| 88 | Search for neutrinos from dark matter self-annihilations in the center of the Milky Way with 3 years of IceCube/DeepCore. 2017 , 77, 1 | | 46 |
| 87 | A search for sterile neutrinos with IceCube DeepCore. <i>Journal of Physics: Conference Series</i> , 2017 , 888, 012113 | 0.3 | |
| 86 | High-energy emitting BL Lacs and high-energy neutrinos. <i>Astronomy and Astrophysics</i> , 2017 , 598, A36 | 5.1 | 20 |
| 85 | Development of an acoustic sensor for the future IceCube-Gen2 detector for neutrino detection and position calibration. 2017 , 135, 06003 | | |
| 84 | Minimal renormalizable simplified dark matter model with a pseudoscalar mediator. <i>Physical Review D</i> , 2017 , 95, | 4.9 | 28 |
| 83 | The Latest IceCube Results and the Implications. 2017 , | | |

| | | | |
|----|--|-----|----|
| 82 | Luminescence of water or ice as a new detection method for magnetic monopoles. 2017 , 164, 07019 | | 1 |
| 81 | On the potential of Cherenkov Telescope Arrays and KM3 Neutrino Telescopes for the detection of extended sources. <i>Astroparticle Physics</i> , 2018 , 100, 69-79 | 2.4 | 12 |
| 80 | Search for PeVatrons at the Galactic Center using a radio air-shower array at the South Pole. 2018 , 78, 1 | | 15 |
| 79 | Search for nonstandard neutrino interactions with IceCube DeepCore. <i>Physical Review D</i> , 2018 , 97, | 4.9 | 15 |
| 78 | Astrophysical neutrinos and cosmic rays observed by IceCube. 2018 , 62, 2902-2930 | | 11 |
| 77 | Study of the PeV neutrino, γ-rays, and UHECRs around the lobes of Centaurus A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 4461-4471 | 4.3 | 7 |
| 76 | A Few Selected Topics in Extreme Astrophysical Phenomena: Gamma-ray Burst as a Source of Multi-messenger Astrophysics and Cosmic Particles as a Would-be Messenger. 2018 , 73, 736-746 | | |
| 75 | Decomposing blazar spectra into lepto-hadronic emission components. 2018 , 339, 331-335 | | 3 |
| 74 | Search for PeVatrons in VHE gamma rays and neutrinos. 2018 , | | |
| 73 | Production and propagation of ultra-high energy photons using CRPropa 3. <i>Astroparticle Physics</i> , 2018 , 102, 39-50 | 2.4 | 11 |
| 72 | Exploring a nonminimal sterile neutrino model involving decay at IceCube. <i>Physical Review D</i> , 2018 , 97, | 4.9 | 19 |
| 71 | Topological track reconstruction in unsegmented, large-volume liquid scintillator detectors. <i>Journal of Instrumentation</i> , 2018 , 13, P07005-P07005 | 1 | 9 |
| 70 | Unified atmospheric neutrino passing fractions for large-scale neutrino telescopes. 2018 , 2018, 047-047 | | 15 |
| 69 | Flavor and energy inference for the high-energy IceCube neutrinos. <i>Astroparticle Physics</i> , 2018 , 101, 8-16 | 2.4 | 3 |
| 68 | Highly Integrated Low Power Photomultiplier Readout ASIC comprising fast ADC to be used in the Antarctic Ice. 2019 , | | |
| 67 | Ultrahigh energy cosmic rays and neutrinos from light nuclei composition. <i>Physical Review D</i> , 2019 , 99, | 4.9 | 5 |
| 66 | High-energy neutrino interaction physics with IceCube. 2019 , 208, 09001 | | |
| 65 | A quantitative approach to select PMTs for large detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 947, 162766 | 1.2 | 7 |

| | | | |
|----|---|-----|----|
| 64 | History of acoustic neutrino detection. 2019 , 216, 01001 | | 0 |
| 63 | The southern stellar stream spectroscopic survey (S5): Overview, target selection, data reduction, validation, and early science. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 3508-3531 | 4.3 | 44 |
| 62 | ANTARES-IceCube combined search for neutrino pointsources in the Southern Hemisphere. 2019 , 207, 02008 | | |
| 61 | Assessing the sensitivity of PINGU to effective dark matter-nucleon interactions. 2019 , 2019, 023-023 | | 2 |
| 60 | Combined search for dark matter from the Galactic Centre with the ANTARES and IceCube neutrino telescopes. 2019 , 207, 04007 | | 2 |
| 59 | Search for a correlation between the UHECRs measured by the Pierre Auger Observatory and the Telescope Array and the neutrino candidate events from IceCube and ANTARES. 2019 , 210, 03003 | | 0 |
| 58 | Latest Cosmic Ray Results from IceTop and IceCube. 2019 , 210, 03005 | | 2 |
| 57 | Multi-messenger astrophysics. 2019 , 1, 585-599 | | 38 |
| 56 | Stringy dyonic solutions and clifford structures. 2019 , 16, 1950138 | | 2 |
| 55 | Monitoring and Multi-Messenger Astronomy with IceCube. 2019 , 7, 40 | | 1 |
| 54 | Towards A Next Generation of CORSIKA: A Framework for the Simulation of Particle Cascades in Astroparticle Physics. 2019 , 3, 1 | | 15 |
| 53 | Measurements using the inelasticity distribution of multi-TeV neutrino interactions in IceCube. <i>Physical Review D</i> , 2019 , 99, | 4.9 | 25 |
| 52 | Multimessenger asteroseismology of core-collapse supernovae. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 12 |
| 51 | Magnetic monopoles from a hidden magnetic symmetry. <i>Chinese Journal of Physics</i> , 2020 , 63, 78-83 | 3.5 | |
| 50 | Atmospheric Cherenkov Telescopes as a potential veto array for neutrino astronomy. <i>Astroparticle Physics</i> , 2020 , 117, 102417 | 2.4 | 1 |
| 49 | In-situ calibration of the single-photoelectron charge response of the IceCube photomultiplier tubes. <i>Journal of Instrumentation</i> , 2020 , 15, P06032-P06032 | 1 | 5 |
| 48 | Measurements of Cosmic Ray Muon Distributions with IceTop and IceCube. <i>Physics of Atomic Nuclei</i> , 2020 , 83, 285-289 | 0.4 | 1 |
| 47 | Bayesian constraints on the astrophysical neutrino source population from IceCube data. <i>Physical Review D</i> , 2020 , 101, | 4.9 | 2 |

| | | | |
|----|--|-----|----|
| 46 | A Search for IceCube Events in the Direction of ANITA Neutrino Candidates. <i>Astrophysical Journal</i> , 2020 , 892, 53 | 4.7 | 14 |
| 45 | PeVatron Search Using Radio Measurements of Extensive Air Showers at the South Pole. <i>Journal of Physics: Conference Series</i> , 2020 , 1342, 012006 | 0.3 | 1 |
| 44 | Neutrino Telescopes and High-Energy Cosmic Neutrinos. <i>Universe</i> , 2020 , 6, 30 | 2.5 | 8 |
| 43 | Cherenkov counting. 2020 , 393-530 | | |
| 42 | The atomic nucleus, nuclear radiation, and the interaction of radiation with matter. 2020 , 1-243 | | 1 |
| 41 | Follow-up of Astrophysical Transients in Real Time with the IceCube Neutrino Observatory. <i>Astrophysical Journal</i> , 2021 , 910, 4 | 4.7 | 2 |
| 40 | Search for high-energy neutrino emission from radio-bright AGN. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 5 |
| 39 | Dark Energy from Cosmic Antineutrinos in Large Extradimensions. <i>Arabian Journal for Science and Engineering</i> , 1 | 2.5 | |
| 38 | IceCube high-energy starting event sample: Description and flux characterization with 7.5 years of data. <i>Physical Review D</i> , 2021 , 104, | 4.9 | 30 |
| 37 | EcoMug: An Efficient COsmic MUon Generator for cosmic-ray muon applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 1014, 165732 | 1.2 | 3 |
| 36 | Discovering Neutrinos Through Data Analytics. <i>Lecture Notes in Computer Science</i> , 2015 , 208-212 | 0.9 | 1 |
| 35 | Neutrino Astronomy. 2018 , 195-355 | | 1 |
| 34 | Multiwavelength follow-up of a rare IceCube neutrino multiplet. <i>Astronomy and Astrophysics</i> , 2017 , 607, A115 | 5.1 | 23 |
| 33 | Constraints on stupendously large black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 2029-2043 | 4.3 | 23 |
| 32 | The search for dark matter particles. <i>Uspekhi Fizicheskikh Nauk</i> , 2008 , 178, 1129 | 0.5 | 20 |
| 31 | Cherenkov water detector NEVOD. <i>Uspekhi Fizicheskikh Nauk</i> , 2015 , 185, 521-530 | 0.5 | 9 |
| 30 | A Search for Neutrino Point-source Populations in 7 yr of IceCube Data with Neutrino-count Statistics. <i>Astrophysical Journal</i> , 2020 , 893, 102 | 4.7 | 3 |
| 29 | ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky. <i>Astrophysical Journal</i> , 2020 , 892, 92 | 4.7 | 13 |

| | | | |
|----|--|-----|----|
| 28 | Constraints on the Physical Properties of GW190814 through Simulations Based on DECAM Follow-up Observations by the Dark Energy Survey. <i>Astrophysical Journal</i> , 2020 , 901, 83 | 4.7 | 16 |
| 27 | 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 | 7.9 | 3 |
| 26 | Cosmic neutrinos from the sources of galactic and extragalactic cosmic rays. 2007 , 407-414 | | |
| 25 | Perspectives in gamma-ray burst science. 2009 , 477-565 | | |
| 24 | 1.7 Neutrino astronomy. <i>Landolt-Börnstein - Group VI Astronomy and Astrophysics</i> , 2010 , 198-202 | | |
| 23 | Cherenkov Counters. 2012 , 453-471 | | 2 |
| 22 | Muon Spectrometers. 2012 , 473-496 | | 2 |
| 21 | References. 2016 , 829-878 | | |
| 20 | Neutrinos from Core-Collapse Supernovae and Their Detection. 2016 , 1-16 | | |
| 19 | Observation of Anisotropy in Cosmic-Ray Arrival Directions with the IceCube Observatory. 2016 , | | |
| 18 | Towards a Joint Analysis of Data from the IceCube Neutrino Telescope, the Pierre Auger Observatory and Telescope Array. 2016 , | | |
| 17 | Gravitational Physics: From Quantum to Waves. 2018 , 357-488 | | |
| 16 | Cosmic Ray Spectrum and Composition from Three Years of IceTop and IceCube. <i>Physics of Atomic Nuclei</i> , 2020 , 83, 280-284 | 0.4 | 1 |
| 15 | Muon Spectrometers. 2020 , 1-26 | | |
| 14 | Muon Spectrometers. 2021 , 609-634 | | |
| 13 | Expediting DECAM Multimessenger Counterpart Searches with Convolutional Neural Networks. <i>Astrophysical Journal</i> , 2022 , 925, 44 | 4.7 | |
| 12 | Ground-based gamma-ray astronomy: history and development of techniques. <i>European Physical Journal: Special Topics</i> , 2022 , 231, 3-26 | 2.3 | 0 |
| 11 | Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017-2019. <i>Astrophysical Journal</i> , 2022 , 927, 197 | 4.7 | 0 |

| | | | |
|----|---|-----|---|
| 10 | Lorentz Symmetry Violation of Cosmic Photons. <i>Universe</i> , 2022 , 8, 323 | 2.5 | 0 |
| 9 | Shedding light on low-mass subhalo survival and annihilation luminosity with numerical simulations. | 1 | 0 |
| 8 | Investigating the correlations between IceCube high-energy neutrinos and Fermi-LAT γ observations. 2022 , 106, | 0 | 0 |
| 7 | Tau neutrinos in the next decade: from GeV to EeV. 2022 , 49, 110501 | 0 | 0 |
| 6 | X- and Gamma-Ray Astrophysics in the Era of Multi-messenger Astronomy. 2022 , 1-31 | 0 | 0 |
| 5 | The Solar Disk at High Energies. 2022 , 941, 86 | 0 | 0 |
| 4 | A flexible event reconstruction based on machine learning and likelihood principles. 2023 , 1048, 168011 | 0 | 0 |
| 3 | Using the μ -east-deflected subsamples of ultra-high energy cosmic rays to constrain source population(s). 2023 , 672, A75 | 0 | 0 |
| 2 | Revealing ultra-high-energy cosmic ray acceleration with multi-messenger observations of the nearby GRB 980425/SN 1998bw. 2023 , 2023, 060 | 0 | 0 |
| 1 | Nova neutrinos in the multi-messenger era. 2023 , 2023, 015 | 1 | 0 |