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1. "The AMANDA Neutrino Telescope and the Indirect Search for Dark Matter", R. C. Bay *et al.*, *Phys. Rep.* 307 (1998).
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3. "Search for high-energy neutrino emission from gamma-ray bursts using AMANDA", R. C. Bay, Ph.D. thesis, University of California at Berkeley, (2000).
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5. "Observation of high-energy neutrinos using Cerenkov detectors embedded deep in Antarctic ice", J. Ahrens *et al.*, *Nature* 410, 441-443 (2001).
6. "Climate logging with a new rapid optical technique at Siple Dome", R. Bay *et al.*, *Geophys. Res. Lett.* 28, 4635-4638 (2001).
7. "Temperature profile for glacial ice at the South Pole: Implications for life in a nearby subglacial lake", P. Buford Price, Oleg V. Nagornov, Ryan Bay *et al.*, *Proc. Natl. Acad. Sci. USA* 99, 7844-7847 (2002).
8. "Observation of high energy atmospheric neutrinos with the Antarctic Muon and Neutrino Detector Array", J. Ahrens *et al.*, *Phys. Rev. D* 66, 012005 (2002).
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10. "Limits to the muon flux from WIMP annihilation in the center of the Earth with the AMANDA detector", J. Ahrens *et al.*, *Phys. Rev. D* 66, 032006 (2002).
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13. "Searching for microbes and biogenic compounds in polar ice using fluorescence", R. Bay *et al.*, *Life In Ancient Ice*, S. Rogers, J. Castello, eds. (Princeton Press, 2003).
14. "Limits on diffuse fluxes of high energy extraterrestrial neutrinos with the AMANDA-B10 detector", J. Ahrens *et al.*, *Phys. Rev. Lett.* 90, 251101 (2003).
15. "Search for point sources of high energy neutrinos with AMANDA", J. Ahrens *et al.*, *Astrophys. J.* 583, 1040 (2003).
16. "Search for neutrino-induced cascades with the AMANDA detector", J. Ahrens *et al.*, *Phys. Rev. D* 67, 012003 (2003).
17. "Bipolar correlation of volcanism with millennial climate change", Ryan C. Bay *et al.*, *Proc. Natl. Acad. Sci. USA* 101, 6341-6345 (2004).
18. "Search for neutrino-induced cascades with AMANDA", M. Ackermann *et al.*, *Astropart. Phys.* 22, 127 (2004).
19. "Measurement of the cosmic ray composition at the knee with the SPASE-2/AMANDA-B10 detectors", J. Ahrens *et al.*, *Astropart. Phys.* 21, 565 (2004).
20. "Muon track reconstruction and data selection techniques in AMANDA", J. Ahrens *et al.*, *Nucl. Instrum. Meth.* 524, 169 (2004).

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21. "Search for extraterrestrial point sources of neutrinos with AMANDA-II", J. Ahrens *et al.*, *Phys. Rev. Lett.* 92, 071102 (2004).
22. "Sensitivity of the IceCube detector to astrophysical sources of high energy muon neutrinos", J. Ahrens *et al.*, *Astropart. Phys.* 20, 507 (2004).
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29. "The IceCube prototype string in AMANDA", The AMANDA collaboration, *Nucl. Instrum. Meth. A* 556, 169 (2006).
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36. "Studying Climate Change and Microbial Life with Instruments in Deep Ice", Buford Price, Ryan Bay, and Nathan Bramall, *Findings on Ice*, H. Aardse, A. Baalen, eds. (Pars Foundation, Lars Müller, Switzerland, 2007).
37. "Solar energetic particle spectrum on 13 December 2006 determined by IceTop", R. Abbasi *et al.*, *Astrophys. J.* 689, L65-L68 (2008).
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56. "Measurement of the anisotropy of cosmic-ray arrival directions with IceCube", R. Abbasi *et al.*, *Astrophys. J. Lett.* 718, 194-198 (August 1, 2010).
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61. "Limits on neutrino emission from gamma-ray bursts with the 40 string IceCube detector", R. Abbasi *et al.*, *Phys. Rev. Lett.* 106, 141101 (April 7, 2011).
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63. "Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008-2009 data", R. Abbasi *et al.*, *Phys. Rev. D* 83, 092003 (May 24, 2011).
64. "Search for Dark Matter from the Galactic Halo with the IceCube Neutrino Telescope", R. Abbasi *et al.*, *Physical Review D* 84, 022004 (July 29, 2011).
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82. "Search for Relativistic Magnetic Monopoles with IceCube", R. Abbasi *et al.*, *Physical Review D* 87, 022001 (January 18, 2013).
83. "Searches for High-Energy Neutrino Emission in the Galaxy with the Combined IceCube-AMANDA Detector", R. Abbasi *et al.*, *Astrophysical Journal* 763, 33 (January 20, 2013).
84. "IceTop: The Surface Component of IceCube", R. Abbasi *et al.*, *Nuclear Instruments and Methods A* 700, 188-220 (February 1, 2013).
85. "Cosmic Ray Composition and Energy Spectrum from 1-30 PeV Using the 40-String Configuration of IceTop and IceCube", R. Abbasi *et al.*, *Astroparticle Physics* 42, 15-32 (February 2013).
86. "Observation of Cosmic Ray Anisotropy with the IceTop Air Shower Array", M. G. Aartsen *et al.*, *Astrophysical Journal* 765, 55 (February 15, 2013).
87. "An Improved Method for Measuring Muon Energy Using the Truncated Mean of  $dE/dx$ ", R. Abbasi *et al.*, *Nuclear Instruments and Methods A* 703, 190-198 (March 1, 2013).
88. "Search for Galactic PeV Gamma Rays with the IceCube Neutrino Observatory", M. G. Aartsen *et al.*, *Physical Review D* 87, 062002 (March 20, 2013).
89. "Search for Dark Matter Annihilations in the Sun with the 79-string IceCube Detector", M. G. Aartsen *et al.*, *Physical Review Letters* 110, 131302 (March 28, 2013).
90. "All-Particle Cosmic Ray Energy Spectrum Measured with 26 IceTop Stations", R. Abbasi *et al.*, *Astroparticle Physics* 44, 40-58 (April 1, 2013).
91. "Measurement of the Atmospheric  $\nu_e$  Flux in IceCube", M. G. Aartsen *et al.*, *Physical Review Letters* 110, 151105 (April 10, 2013).
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99. "Probing the origin of cosmic-rays with extremely high energy neutrinos using the IceCube Observatory", M. G. Aartsen *et al.*, *Phys. Rev. D* **88**, 112008 (December 16, 2013).
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- 107 "Observation of high-energy astrophysical neutrinos in three years of IceCube data", M. G. Aartsen *et al.*, *Phys. Rev. Lett.* **113**, 101101 (Sep 2, 2014).**
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- 109. "Searches for extended and point-like neutrino sources with four years of IceCube data", M. G. Aartsen *et al.*, *Astrophys. J.* **796**, 109 (December 2014).**
- 110. "Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube", M. G. Aartsen *et al.*, *Eur. Phys. J. C* **75**, 116 (2015).**
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