

# James Matthews

## List of Publications by Year in descending order

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120  
papers

21,536  
citations

34076

52  
h-index

20943

115  
g-index

120  
all docs

120  
docs citations

120  
times ranked

15730  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Review of Particle Physics. Physical Review D, 2018, 98, .  | 1.6 | 5,390     |
| 2  | Review of Particle Physics. Physical Review D, 2012, 86, .  | 1.6 | 5,054     |
| 3  | Observation of a neutrino burst in coincidence with supernova 1987A in the Large Magellanic Cloud. Physical Review Letters, 1987, 58, 1494-1496.  | 2.9 | 1,459     |
| 4  | Properties and performance of the prototype instrument for the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 50-95. | 0.7 | 647       |
| 5  | Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943.   | 6.0 | 647       |
| 6  | Observation of the Suppression of the Flux of Cosmic Rays above $4 \times 10^{19}$ eV. Physical Review Letters, 2008, 101, 061101.  | 2.9 | 500       |
| 7  | Measurement of the Depth of Maximum of Extensive Air Showers above $10^{18}$ eV. Physical Review Letters, 2010, 104, 091101.  | 2.9 | 429       |
| 8  | Measurement of atmospheric neutrino composition with the IMB-3 detector. Physical Review Letters, 1991, 66, 2561-2564.  | 2.9 | 386       |
| 9  | Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 239-246.                                   | 1.5 | 357       |
| 10 | Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204.  | 1.9 | 305       |
| 11 | Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above $10^0$ eV. Physical Review D, 2014, 90, .  | 1.6 | 266       |
| 12 | Observation of a large-scale anisotropy in the arrival directions of cosmic rays above $8 \times 10^{18}$ eV. Science, 2017, 357, 1266-1270.  | 6.0 | 261       |
| 13 | A Heitler model of extensive air showers. Astroparticle Physics, 2005, 22, 387-397.   | 1.9 | 225       |
| 14 | Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .   | 1.6 | 213       |
| 15 | Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 038-038.   | 1.9 | 191       |
| 16 | Measurement of the Cosmic Ray Energy Spectrum and Composition from 1017to 1018.3eV Using a Hybrid Technique. Astrophysical Journal, 2001, 557, 686-699.   | 1.6 | 173       |
| 17 | Evidence for Changing of Cosmic Ray Composition between 1017and1018eV from Multicomponent Measurements. Physical Review Letters, 2000, 84, 4276-4279.   | 2.9 | 172       |
| 18 | An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources $\ast$ . Astrophysical Journal Letters, 2018, 853, L29.                        | 3.0 | 165       |

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|----|--|-----|-----------|
| 19 | Upper limit on the cosmic-ray photon flux above 1019eV using the surface detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2008, 29, 243-256.   | 1.9 | 161       |
| 20 | Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2016, 117, 192001.   | 2.9 | 154       |
| 21 | Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. <i>Physical Review D</i> , 2015, 91, .  | 1.6 | 152       |
| 22 | Trigger and aperture of the surface detector array of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 613, 29-39.   | 0.7 | 151       |
| 23 | SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 804, 15.  | 1.6 | 146       |
| 24 | Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2008, 100, 211101.   | 2.9 | 141       |
| 25 | Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. <i>Physical Review D</i> , 2015, 91, .   | 1.6 | 125       |
| 26 | Calculation of Atmospheric Neutrino-Induced Backgrounds in a Nucleon-Decay Search. <i>Physical Review Letters</i> , 1986, 57, 1986-1989.   | 2.9 | 123       |
| 27 | Angular distribution of events from SN1987A. <i>Physical Review D</i> , 1988, 37, 3361-3363.   | 1.6 | 121       |
| 28 | Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2009, 31, 399-406.   | 1.9 | 117       |
| 29 | Search for muon neutrino oscillations with the Irvine-Michigan-Brookhaven detector. <i>Physical Review Letters</i> , 1992, 69, 1010-1013.  | 2.9 | 109       |
| 30 | The cosmic ray energy spectrum between 1014 and 1016 eV. <i>Astroparticle Physics</i> , 1999, 10, 291-302.   | 1.9 | 99        |
| 31 | Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. <i>Physical Review D</i> , 2009, 79, .  | 1.6 | 99        |
| 32 | Measurement of the cosmic-ray energy spectrum above $2.5 \times 10^{18}$ eV using the Pierre Auger Observatory. <i>Physical Review D</i> , 2020, 102, .  | 1.6 | 98        |
| 33 | Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. <i>Physical Review Letters</i> , 2016, 116, 241101.  | 2.9 | 91        |
| 34 | An upper limit to the photon fraction in cosmic rays above 1019eV from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 155-168.   | 1.9 | 90        |
| 35 | Probing the radio emission from air showers with polarization measurements. <i>Physical Review D</i> , 2014, 89, .   | 1.6 | 85        |
| 36 | A large air shower array to search for astrophysical sources emitting $\tilde{\nu}$ -rays with energies $\gtrsim 10^{14}$ eV. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994, 346, 329-352. | 0.7 | 84        |

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|----|--|-----|-----------|
| 37 | Evidence for a mixed mass composition at the "ankle" in the cosmic-ray spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 288-295.                             | 1.5 | 84        |
| 38 | Inferences on mass composition and tests of hadronic interactions from 0.3 to 100 EeV using the water-Cherenkov detectors of the Pierre Auger Observatory. Physical Review D, 2017, 96, .                          | 1.6 | 82        |
| 39 | Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. Physical Review D, 2016, 93, .  | 1.6 | 80        |
| 40 | Limits on the Isotropic Diffuse Flux of Ultrahigh Energy $\gamma$ Radiation. Physical Review Letters, 1997, 79, 1805-1808.   | 2.9 | 79        |
| 41 | Features of the Energy Spectrum of Cosmic Rays above $2.5 \times 10^{18}$ eV Using the Pierre Auger Observatory. Physical Review Letters, 2020, 125, 121106.   | 2.9 | 79        |
| 42 | Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. Astrophysical Journal, 2018, 868, 4.   | 1.6 | 77        |
| 43 | Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 627-639.  | 1.9 | 73        |
| 44 | SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF $10^{19}$ eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172. | 1.6 | 72        |
| 45 | Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .  | 1.6 | 69        |
| 46 | The cosmic ray composition between 1014 and 1016 eV. Astroparticle Physics, 1999, 12, 1-17.  | 1.9 | 66        |
| 47 | Probing the origin of ultra-high-energy cosmic rays with neutrinos in the EeV energy range using the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 022-022.                | 1.9 | 64        |
| 48 | Supernova neutrino burst detection with the Deep Underground Neutrino Experiment. European Physical Journal C, 2021, 81, 1.  | 1.4 | 62        |
| 49 | Limits on the flux of energetic neutrinos from the sun. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 188, 388-392.  | 1.5 | 60        |
| 50 | An upper limit on the flux of extraterrestrial neutrinos. Astrophysical Journal, 1987, 315, 420.   | 1.6 | 56        |
| 51 | The composition of cosmic rays at the knee. Astroparticle Physics, 2002, 18, 129-150.  | 1.9 | 55        |
| 52 | The Central Laser Facility at the Pierre Auger Observatory. Journal of Instrumentation, 2006, 1, P11003-P11003.  | 0.5 | 55        |
| 53 | The exposure of the hybrid detector of the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 368-381.   | 1.9 | 54        |
| 54 | Constraints on Gamma-Ray Emission from the Galactic Plane at 300 TeV. Astrophysical Journal, 1998, 493, 175-179.   | 1.6 | 53        |

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|----|--|-----|-----------|
| 55 | Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, 92-102. | 0.7 | 52        |
| 56 | Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. Astroparticle Physics, 2007, 27, 244-253.  | 1.9 | 51        |
| 57 | Search for nucleon decay using the IMB-3 detector. Physical Review D, 1999, 59, .  | 1.6 | 49        |
| 58 | LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80°. Astrophysical Journal, 2015, 802, 111.  | 1.6 | 49        |
| 59 | Search for photons with energies above $10^{18}$ eV using the hybrid detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 009-009.  | 1.9 | 49        |
| 60 | VHE gamma rays from Hercules X-1. Astrophysical Journal, 1988, 328, L9.  | 1.6 | 47        |
| 61 | IMB-3: a large water Cherenkov detector for nucleon decay and neutrino interactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 324, 363-382.                        | 0.7 | 44        |
| 62 | A measurement of the average longitudinal development profile of cosmic ray air showers between 1017 and 1018 eV. Astroparticle Physics, 2001, 16, 1-11.   | 1.9 | 43        |
| 63 | Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory. Astroparticle Physics, 2009, 32, 89-99.   | 1.9 | 43        |
| 64 | Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. Astrophysical Journal, 2020, 891, 142.  | 1.6 | 39        |
| 65 | Search for proton decay into $e^+e^+$ in the IMB-3 detector. Physical Review D, 1990, 42, 2974-2976.   | 1.6 | 38        |
| 66 | Ultrahigh-energy neutrino follow-up of gravitational wave events GW150914 and GW151226 with the Pierre Auger Observatory. Physical Review D, 2016, 94, .   | 1.6 | 38        |
| 67 | Direct measurement of the muonic content of extensive air showers between $2 \times 10^{17}$ and $2 \times 10^{18}$ eV at the Pierre Auger Observatory. European Physical Journal C, 2020, 80, 1.  | 1.4 | 36        |
| 68 | Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. Physical Review Letters, 2021, 126, 152002.   | 2.9 | 34        |
| 69 | Search for diffuse cosmic gamma rays above 200 TeV. Astrophysical Journal, 1991, 375, 202.   | 1.6 | 33        |
| 70 | Search for first-generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1993, 48, R3939-R3944.  | 1.6 | 31        |
| 71 | High statistics search for ultrahigh energy $\hat{\nu}_3$ -ray emission from Cygnus X-3 and Hercules X-1. Physical Review D, 1997, 55, 1714-1731.  | 1.6 | 31        |
| 72 | Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026.  | 1.9 | 30        |

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|----|--|-----|-----------|
| 73 | Search for Multitrack Nucleon Decay. <i>Physical Review Letters</i> , 1988, 61, 2522-2525.   | 2.9 | 29        |
| 74 | A SEARCH FOR POINT SOURCES OF EeV PHOTONS. <i>Astrophysical Journal</i> , 2014, 789, 160.  | 1.6 | 29        |
| 75 | A Northern Sky Survey for Astrophysical Point Sources of 100 TeV Gamma Radiation. <i>Astrophysical Journal</i> , 1993, 417, 742.   | 1.6 | 26        |
| 76 | A Search for Ultra-High-Energy Gamma-Ray Emission from the Crab Nebula and Pulsar. <i>Astrophysical Journal</i> , 1997, 481, 313-326.  | 1.6 | 25        |
| 77 | Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. <i>Physical Review D</i> , 2016, 93, .  | 1.6 | 21        |
| 78 | A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 837, L25.   | 3.0 | 21        |
| 79 | Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. <i>Journal of Instrumentation</i> , 2017, 12, T10005-T10005.                             | 0.5 | 21        |
| 80 | A Search for Photons with Energies Above $2 \times 10^{17}$ eV Using Hybrid Data from the Low-Energy Extensions of the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2022, 933, 125.                            | 1.6 | 21        |
| 81 | Search for discrete sources of 100 TeV gamma radiation. <i>Physical Review D</i> , 1992, 45, 4385-4391.  | 1.6 | 20        |
| 82 | Data-driven estimation of the invisible energy of cosmic ray showers with the Pierre Auger Observatory. <i>Physical Review D</i> , 2019, 100, .  | 1.6 | 20        |
| 83 | Reconstruction of events recorded with the surface detector of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2020, 15, P10021-P10021.  | 0.5 | 20        |
| 84 | A waveshifter light collector for a water Cherenkov detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987, 261, 540-542. | 0.7 | 19        |
| 85 | Neutrinos from SN1987a in the IMB detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 264, 28-31.                     | 0.7 | 19        |
| 86 | Underground search for muons correlated with Cygnus X-3. <i>Physical Review D</i> , 1987, 36, 30-36.   | 1.6 | 18        |
| 87 | Limits on point-like sources of ultra-high-energy neutrinos with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 004-004.  | 1.9 | 18        |
| 88 | Observation of the shadows of the Moon and Sun using 100 TeV cosmic rays. <i>Physical Review D</i> , 1994, 49, 1171-1177.  | 1.6 | 16        |
| 89 | Absolute photometric calibration of large aperture optical systems. <i>Astroparticle Physics</i> , 2004, 20, 653-659.  | 1.9 | 16        |
| 90 | Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. <i>Journal of Instrumentation</i> , 2017, 12, P03002-P03002.   | 0.5 | 16        |

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| 91  | Deep-learning based reconstruction of the shower maximum $X_{\text{max}}$ using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07019.                         | 0.5 | 16        |
| 92  | A search for nucleon decay with multiple muon decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 224, 348-352.  | 1.5 | 15        |
| 93  | Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. <i>Physical Review D</i> , 2016, 94, .  | 1.6 | 15        |
| 94  | A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L34.  | 3.0 | 14        |
| 95  | Multi-resolution anisotropy studies of ultrahigh-energy cosmic rays detected at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 026-026.                                   | 1.9 | 14        |
| 96  | A Search for Ultra-high-energy Neutrinos from TXS 0506+056 Using the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2020, 902, 105.  | 1.6 | 13        |
| 97  | Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2015, 75, 269.   | 1.4 | 12        |
| 98  | The Haleakala gamma ray observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 269, 297-304.                            | 0.7 | 11        |
| 99  | Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks. <i>Journal of Instrumentation</i> , 2021, 16, P07016.                                     | 0.5 | 11        |
| 100 | Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 018-018.                            | 1.9 | 10        |
| 101 | Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 017-017. | 1.9 | 10        |
| 102 | Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2017, 12, P02006-P02006.                    | 0.5 | 8         |
| 103 | Transport of High-energy Charged Particles through Spatially Intermittent Turbulent Magnetic Fields. <i>Astrophysical Journal</i> , 2020, 892, 114.  | 1.6 | 8         |
| 104 | A Search for Ultrahigh-Energy Gamma Rays from EGRET-detected Active Galactic Nuclei Using CASA-MIA. <i>Astrophysical Journal</i> , 1996, 469, 572.   | 1.6 | 8         |
| 105 | Experimental upper limit to the galactic stellar-collapse rate. <i>Physical Review Letters</i> , 1989, 62, 2069-2072.  | 2.9 | 7         |
| 106 | Search for $\gamma$ rays above 10 <sup>14</sup> eV from Cygnus X-3 during the June and July 1989 radio outbursts. <i>Physical Review Letters</i> , 1989, 63, 2329-2332.  | 2.9 | 7         |
| 107 | Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2017, 95, 44-56.   | 1.9 | 7         |
| 108 | Calibration of the IMB detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 352, 629-639.                                | 0.7 | 6         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. Atmospheric Research, 2014, 149, 120-135.                        | 1.8 | 6         |
| 110 | Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope. Journal of Instrumentation, 2020, 15, P09002-P09002.  | 0.5 | 5         |
| 111 | Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 023. | 1.9 | 5         |
| 112 | Search for compact sources of cosmic photons above 200 TeV. Physical Review D, 1992, 46, 3248-3255.  | 1.6 | 4         |
| 113 | Search for > 200 TeV photons from Cygnus X-3 in 1988 and 1989. Physical Review D, 1990, 42, 281-288.   | 1.6 | 3         |
| 114 | Recent results from the CASA-MIA experiment. , 1995, , .   |     | 1         |
| 115 | Search for Ultra High Energy (UHE) $\hat{\Gamma}^3$ -ray counterparts of BATSE 3B catalog events. AIP Conference Proceedings, 1996, , .  | 0.3 | 1         |
| 116 | Energy spectra and composition near the knee. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 241-243.  | 0.5 | 1         |
| 117 | Neutrino astrophysics with IMB: past, present, and future. Nuclear Physics, Section B, Proceedings Supplements, 1988, 3, 463-470.  | 0.5 | 0         |
| 118 | The UMC extensive air shower array: Results and prospects. AIP Conference Proceedings, 1990, , .   | 0.3 | 0         |
| 119 | A search for astrophysical point sources of 100 TeV gamma rays by the UMC collaboration. AIP Conference Proceedings, 1992, , .   | 0.3 | 0         |
| 120 | A search for diffuse sources of ultra high energy gamma-rays. Nuclear Physics, Section B, Proceedings Supplements, 1996, 48, 483-484.  | 0.5 | 0         |