

# Ashot Chilingarian

## List of Publications by Year in descending order

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207  
papers

7,620  
citations

50276

46  
h-index

56724

83  
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221  
all docs

221  
docs citations

221  
times ranked

3604  
citing authors

#	ARTICLE	IF	CITATIONS
1	KASCADE measurements of energy spectra for elemental groups of cosmic rays: Results and open problems. <i>Astroparticle Physics</i> , 2005, 24, 1-25.	4.3	465
2	Variable Very High Energy $\gamma$ -Ray Emission from Markarian 501. <i>Astrophysical Journal</i> , 2007, 669, 862-883.	4.5	426
3	Very-High-Energy Gamma Rays from a Distant Quasar: How Transparent Is the Universe?. <i>Science</i> , 2008, 320, 1752-1754.	12.6	355
4	Variable Very-High-Energy Gamma-Ray Emission from the Microquasar LS I +61 303. <i>Science</i> , 2006, 312, 1771-1773.	12.6	334
5	The cosmic-ray experiment KASCADE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 513, 490-510.	1.6	306
6	VHE $\gamma$ -Ray Observation of the Crab Nebula and its Pulsar with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2008, 674, 1037-1055.	4.5	233
7	Very High Energy Gamma-Ray Radiation from the Stellar Mass Black Hole Binary Cygnus X-1. <i>Astrophysical Journal</i> , 2007, 665, L51-L54.	4.5	183
8	Ground-based observations of thunderstorm-correlated fluxes of high-energy electrons, gamma rays, and neutrons. <i>Physical Review D</i> , 2010, 82, .	4.7	182
9	Observation of Pulsed $\gamma$ -Rays Above 25 GeV from the Crab Pulsar with MAGIC. <i>Science</i> , 2008, 322, 1221-1224.	12.6	173
10	Probing quantum gravity using photons from a flare of the active galactic nucleus Markarian 501 observed by the MAGIC telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 668, 253-257.	4.1	168
11	Discovery of Very High Energy Gamma Radiation from IC 443 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 664, L87-L90.	4.5	155
12	Implementation of the Random Forest method for the Imaging Atmospheric Cherenkov Telescope MAGIC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 588, 424-432.	1.6	146
13	Observation of Gamma Rays from the Galactic Center with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2006, 638, L101-L104.	4.5	136
14	Methods for multidimensional event classification: a case study using images from a Cherenkov gamma-ray telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 516, 511-528.	1.6	129
15	Observations of Markarian 421 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 663, 125-138.	4.5	120
16	Particle bursts from thunderclouds: Natural particle accelerators above our heads. <i>Physical Review D</i> , 2011, 83, .	4.7	107
17	Applications and usage of the real-time Neutron Monitor Database. <i>Advances in Space Research</i> , 2011, 47, 2210-2222.	2.6	105
18	Discovery of Very High Energy $\gamma$ -Ray Emission from the Low-Frequency-peaked BL Lacertae Object BL Lacertae. <i>Astrophysical Journal</i> , 2007, 666, L17-L20.	4.5	102

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19	Improving the performance of the single-dish Cherenkov telescope MAGIC through the use of signal timing. <i>Astroparticle Physics</i> , 2009, 30, 293-305.	4.3	98
20	Discovery of Very High Energy $\hat{3}$ -Rays from 1ES 1011+496 at $\langle i \rangle z \langle i \rangle = 0.212$ . <i>Astrophysical Journal</i> , 2007, 667, L21-L24.	4.5	94
21	Electron, muon, and hadron lateral distributions measured in air showers by the KASCADE experiment. <i>Astroparticle Physics</i> , 2001, 14, 245-260.	4.3	92
22	Observation of VHE $\hat{3}$ -rays from Cassiopeia A with the MAGIC telescope. <i>Astronomy and Astrophysics</i> , 2007, 474, 937-940.	5.1	90
23	THE JUNE 2008 FLARE OF MARKARIAN 421 FROM OPTICAL TO TeV ENERGIES. <i>Astrophysical Journal</i> , 2009, 691, L13-L19.	4.5	86
24	Discovery of Very High Energy $\hat{3}$ -Rays from Markarian 180 Triggered by an Optical Outburst. <i>Astrophysical Journal</i> , 2006, 648, L105-L108.	4.5	85
25	Very High Energy Gamma-Ray Observations of Strong Flaring Activity in M87 in 2008 February. <i>Astrophysical Journal</i> , 2008, 685, L23-L26.	4.5	84
26	Discovery of Very High Energy Gamma Rays from 1ES 1218+30.4. <i>Astrophysical Journal</i> , 2006, 642, L119-L122.	4.5	83
27	PERIODIC VERY HIGH ENERGY $\hat{3}$ -RAY EMISSION FROM LS I +61 $\hat{A}$ $^{\circ}$ 303 OBSERVED WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2009, 693, 303-310.	4.5	81
28	Unfolding of differential energy spectra in the MAGIC experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 583, 494-506.	1.6	74
29	MAGIC Upper Limits on the Very High Energy Emission from Gamma $\hat{A}$ Ray Bursts. <i>Astrophysical Journal</i> , 2007, 667, 358-366.	4.5	72
30	Simultaneous Multiwavelength Observations of the Blazar 1ES 1959+650 at a Low TeV Flux. <i>Astrophysical Journal</i> , 2008, 679, 1029-1039.	4.5	72
31	A non-parametric approach to infer the energy spectrum and the mass composition of cosmic rays. <i>Astroparticle Physics</i> , 2002, 16, 245-263.	4.3	71
32	A global atmospheric electricity monitoring network for climate and geophysical research. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 184, 18-29.	1.6	71
33	Recovering of the energy spectra of electrons and gamma rays coming from the thunderclouds. <i>Atmospheric Research</i> , 2012, 114-115, 1-16.	4.1	70
34	Commissioning and first tests of the MAGIC telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 188-192.	1.6	68
35	Detection of Very High Energy Radiation from the BL Lacertae Object PG 1553+113 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 654, L119-L122.	4.5	65
36	MAGIC Observations of the Unidentified $\hat{3}$ -Ray Source TeV J2032+4130. <i>Astrophysical Journal</i> , 2008, 675, L25-L28.	4.5	64

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37	Upper Limit for $\gamma$ -Ray Emission above 140 GeV from the Dwarf Spheroidal Galaxy Draco. <i>Astrophysical Journal</i> , 2008, 679, 428-431.	4.5	61
38	Observation of Very High Energy Gamma-Ray Emission from the Active Galactic Nucleus 1ES 1959+650 Using the MAGIC Telescope. <i>Astrophysical Journal</i> , 2006, 639, 761-765.	4.5	60
39	The Cascade experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1997, 52, 92-102.	0.4	59
40	Correlated measurements of secondary cosmic ray fluxes by the Aragats Space-Environmental Center monitors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 543, 483-496.	1.6	56
41	Muon density measurements with the KASCADE central detector. <i>Astroparticle Physics</i> , 2002, 16, 373-386.	4.3	55
42	Observation of Very High Energy $\gamma$ -Rays from the AGN 1ES 2344+514 in a Low Emission State with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 662, 892-899.	4.5	54
43	Neutron bursts associated with thunderstorms. <i>Physical Review D</i> , 2012, 85, .	4.7	54
44	DISCOVERY OF A VERY HIGH ENERGY GAMMA-RAY SIGNAL FROM THE 3C 66A/B REGION. <i>Astrophysical Journal</i> , 2009, 692, L29-L33.	4.5	52
45	Multiwavelength (Radio, X-Ray, and $\gamma$ -Ray) Observations of the $\gamma$ -Ray Binary LS I +61 303. <i>Astrophysical Journal</i> , 2008, 684, 1351-1358.	4.5	51
46	Comparison of measured and simulated lateral distributions for electrons and muons with KASCADE. <i>Astroparticle Physics</i> , 2006, 24, 467-483.	4.3	50
47	Observation of VHE Gamma Radiation from HESS J1834-087/W41 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2006, 643, L53-L56.	4.5	46
48	Role of the Lower Positive Charge Region (LPCR) in initiation of the Thunderstorm Ground Enhancements (TGEs). <i>Physical Review D</i> , 2012, 86, .	4.7	46
49	FADC signal reconstruction for the MAGIC telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 594, 407-419.	1.6	42
50	Kinematics of Interacting ICMs and Related Forbush Decrease: Case Study. <i>Solar Physics</i> , 2014, 289, 351-368.	2.5	42
51	Thunderstorm ground enhancementsâ€™ Model and relation to lightning flashes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 107, 68-76.	1.6	41
52	On the initiation of lightning in thunderclouds. <i>Scientific Reports</i> , 2017, 7, 1371.	3.3	40
53	Types of lightning discharges that abruptly terminate enhanced fluxes of energetic radiation and particles observed at ground level. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7582-7599.	3.3	39
54	MAGIC Observations of the Nearby Short Gamma-Ray Burst GRB 160821B <sup>*</sup> . <i>Astrophysical Journal</i> , 2021, 908, 90.	4.5	38

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55	Flux Upper Limit on Gamma-Ray Emission by GRB 050713a from MAGIC Telescope Observations. <i>Astrophysical Journal</i> , 2006, 641, L9-L12.	4.5	36
56	Test of hadronic interaction models in the forward region with KASCADE event rates. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2001, 27, 1785-1798.	3.6	35
57	The Primary Proton Spectrum of Cosmic Rays Measured with Single Hadrons at Ground Level. <i>Astrophysical Journal</i> , 2004, 612, 914-920.	4.5	35
58	Aragats space-environmental centre: status and SEP forecasting possibilities. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2003, 29, 939-951.	3.6	34
59	MAGIC Observations of Very High Energy $\gamma$ -Rays from HESS J1813-178. <i>Astrophysical Journal</i> , 2006, 637, L41-L44.	4.5	31
60	Measurements of attenuation and absorption lengths with the KASCADE experiment. <i>Astroparticle Physics</i> , 2003, 19, 703-714.	4.3	30
61	Lightning origination and thunderstorm ground enhancements terminated by the lightning flash. <i>Europhysics Letters</i> , 2015, 110, 49001.	2.0	29
62	Arrival time distributions of muons from extensive air showers as signature of the mass composition of cosmic rays. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1995, 21, 451-472.	3.6	27
63	Remarks on recent results on neutron production during thunderstorms. <i>Physical Review D</i> , 2012, 86, .	4.7	27
64	Study of extensive air showers and primary energy spectra by MAKET-ANI detector on mountain Aragats. <i>Astroparticle Physics</i> , 2007, 28, 58-71.	4.3	26
65	Detection of the Geminga pulsar with MAGIC hints at a power-law tail emission beyond 15 GeV. <i>Astronomy and Astrophysics</i> , 2020, 643, L14.	5.1	26
66	Thunderstorm ground enhancements: Gamma ray differential energy spectra. <i>Physical Review D</i> , 2013, 88, .	4.7	25
67	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April $\langle \sup \rangle^* \langle /sup \rangle$ . <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 29.	7.7	25
68	Structure of thunderstorm ground enhancements. <i>Physical Review D</i> , 2020, 101, .	4.7	25
69	Origin of enhanced gamma radiation in thunderclouds. <i>Physical Review Research</i> , 2019, 1, .	3.6	25
70	Structures of the intracloud electric field supporting origin of long-lasting thunderstorm ground enhancements. <i>Physical Review D</i> , 2018, 98, .	4.7	24
71	Termination of thunderstorm-related bursts of energetic radiation and particles by inverted intracloud and hybrid lightning discharges. <i>Atmospheric Research</i> , 2020, 233, 104713.	4.1	24
72	Investigations of the response of hybrid particle detectors for the Space Environmental Viewing and Analysis Network (SEVAN). <i>Annales Geophysicae</i> , 2008, 26, 249-257.	1.6	24

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73	Space Environmental Viewing and Analysis Network (SEVAN). Earth, Moon and Planets, 2009, 104, 195-210.	0.6	23
74	Electrical structure of the thundercloud and operation of the electron accelerator inside it. Astroparticle Physics, 2021, 132, 102615.	4.3	23
75	Detection of high-energy solar neutrons and protons by ground level detectors on April 15, 2001. Astroparticle Physics, 2008, 29, 229-242.	4.3	22
76	On the production of highest energy solar protons at 20 January 2005. Advances in Space Research, 2007, 39, 1454-1457.	2.6	21
77	Stopping muon effect and estimation of intracloud electric field. Astroparticle Physics, 2021, 124, 102505.	4.3	21
78	Combined searches for dark matter in dwarf spheroidal galaxies observed with the MAGIC telescopes, including new data from Coma Berenices and Draco. Physics of the Dark Universe, 2022, 35, 100912.	4.9	21
79	The SEVAN Worldwide network of particle detectors: 10 years of operation. Advances in Space Research, 2018, 61, 2680-2696.	2.6	20
80	Catalog of 2017 Thunderstorm Ground Enhancement (TGE) events observed on Aragats. Scientific Reports, 2019, 9, 6253.	3.3	20
81	Testing two-component models on very high-energy gamma-ray-emitting BL Lac objects. Astronomy and Astrophysics, 2020, 640, A132.	5.1	20
82	On the origin of the particle fluxes from the thunderclouds: Energy spectra analysis. Europhysics Letters, 2014, 106, 59001.	2.0	19
83	In situ measurements of the Runaway Breakdown (RB) on Aragats mountain. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 874, 19-27.	1.6	19
84	Long lasting low energy thunderstorm ground enhancements and possible Rn-222 daughter isotopes contamination. Physical Review D, 2018, 98, .	4.7	19
85	Systematic Search for VHE Gamma-Ray Emission from X-ray-bright High-Frequency BL Lac Objects. Astrophysical Journal, 2008, 681, 944-953.	4.5	18
86	Atmospheric discharges and particle fluxes. Journal of Geophysical Research: Space Physics, 2015, 120, 5845-5853.	2.4	18
87	Mount Aragats as a stable electron accelerator for atmospheric high-energy physics research. Physical Review D, 2016, 93, .	4.7	18
88	Maximum strength of the atmospheric electric field. Physical Review D, 2021, 103, .	4.7	18
89	Investigation of diurnal variations of cosmic ray fluxes measured with using ASEC and NMDB monitors. Advances in Space Research, 2010, 45, 1380-1387.	2.6	17
90	Time structure of the extensive air shower muon component measured by the KASCADE experiment. Astroparticle Physics, 2001, 15, 149-165.	4.3	16

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91	Detection of the High-Energy Cosmic Rays from the Monogem Ring. <i>Astrophysical Journal</i> , 2003, 597, L129-L131.	4.5	16
92	MAGIC observations of PG $\hat{e}$ %1553+113 during a multiwavelength campaign in July 2006. <i>Astronomy and Astrophysics</i> , 2009, 493, 467-469.	5.1	16
93	Observation of Thunderstorm Ground Enhancements with intense fluxes of high-energy electrons. <i>Astroparticle Physics</i> , 2013, 48, 1-7.	4.3	16
94	The Aragats data acquisition system for highly distributed particle detecting networks. <i>Journal of Physics: Conference Series</i> , 2008, 119, 082001.	0.4	15
95	Statistical analysis of the Thunderstorm Ground Enhancements (TGEs) detected on Mt. Aragats. <i>Advances in Space Research</i> , 2013, 52, 1178-1192.	2.6	15
96	Calibration of particle detectors for secondary cosmic rays using gamma-ray beams from thunderclouds. <i>Astroparticle Physics</i> , 2015, 69, 37-43.	4.3	15
97	On the possibility of investigation of the mass composition and energy spectra of primary cosmic ray (PCR) in the energy range from 1015 to 1017 eV using EAS data. <i>Il Nuovo Cimento Della Societ� Italiana Di Fisica C</i> , 1991, 14, 555-568.	0.2	14
98	Geometric structures in hadronic cores of extensive air showers observed by KASCADE. <i>Physical Review D</i> , 2005, 71, .	4.7	14
99	The response function of the Aragats Solar Neutron Telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 574, 255-263.	1.6	14
100	Extensive air showers, lightning, and thunderstorm ground enhancements. <i>Astroparticle Physics</i> , 2016, 82, 21-35.	4.3	14
101	On the origin of particle fluxes from thunderclouds. <i>Astroparticle Physics</i> , 2019, 105, 54-62.	4.3	14
102	Measurements of energy spectra of relativistic electrons and gamma-rays from avalanches developed in the thunderous atmosphere with Aragats Solar Neutron Telescope. <i>Journal of Instrumentation</i> , 2022, 17, P03002.	1.2	14
103	The system of imaging atmospheric Cherenkov telescopes: The new prospects for VHE gamma ray astronomy. <i>Experimental Astronomy</i> , 1992, 2, 331-344.	3.7	13
104	Light and Heavy Cosmic-Ray Mass Group Energy Spectra as Measured by the MAKET-ANI Detector. <i>Astrophysical Journal</i> , 2004, 603, L29-L32.	4.5	13
105	Cosmic Ray Energy Spectra and Mass Composition at the Knee â€“ Recent Results from KASCADE â€“. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 136, 273-281.	0.4	13
106	KASCADE: Astrophysical results and tests of hadronic interaction models. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 151, 167-174.	0.4	13
107	Constraints on the Steady and Pulsed Very High Energy Gamma-ray Emission from Observations of PSR B1951 documentclass{aastex} usepackage{amsbsy} usepackage{amsmath} usepackage{amsfonts} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra} usepackage[OT2,OT1]{fontenc} ewcommandcyr{ enewcommandmdefault{wncyr} enewcommandsfdefault{wncyss} enewcommandencodingdefault{OT2} ormalfont sele.	4.5	13
108	Multiwavelength variability and correlation studies of Mrk421 during historically low X-ray and $\hat{3}$ -ray activity in 2015â€“2016. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	13

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109	Particle detectors in solar physics and space weather research. <i>Astroparticle Physics</i> , 2007, 27, 465-472.	4.3	12
110	Detection of weak signals against background (noise) using neural network classifiers. <i>Pattern Recognition Letters</i> , 1995, 16, 333-338.	4.2	11
111	First Bounds on the Very High Energy $\gamma$ -Ray Emission from Arp 220. <i>Astrophysical Journal</i> , 2007, 658, 245-248.	4.5	11
112	First Bounds on the High-Energy Emission from Isolated Wolf-Rayet Binary Systems. <i>Astrophysical Journal</i> , 2008, 685, L71-L74.	4.5	11
113	Statistical study of the detection of solar protons of highest energies at 20 January 2005. <i>Advances in Space Research</i> , 2009, 43, 702-707.	2.6	11
114	Calculation of the barometric coefficients at the start of the 24th solar activity cycle for particle detectors of Aragats Space Environmental Center. <i>Advances in Space Research</i> , 2011, 47, 1140-1146.	2.6	11
115	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017-2019. <i>Astrophysical Journal</i> , 2022, 927, 197.	4.5	11
116	Particle energy determination device for the International Space Station using a new approach to cosmic ray spectral measurements (TUS-M Mission). <i>AIP Conference Proceedings</i> , 2000, , .	0.4	10
117	An instrument to measure elemental energy spectra of cosmic-ray nuclei up to 1016 eV. <i>Advances in Space Research</i> , 2001, 27, 829-833.	2.6	10
118	Energy spectrum and elemental composition of cosmic rays in the PeV region. <i>European Physical Journal C</i> , 2004, 33, s944-s946.	3.9	10
119	Physics and astrophysics with a ground-based gamma-ray telescope of low energy threshold. <i>Astroparticle Physics</i> , 2005, 23, 493-509.	4.3	10
120	Median filtering algorithms for multichannel detectors. <i>Advances in Space Research</i> , 2011, 47, 1544-1557.	2.6	10
121	A search for dark matter in Triangulum with the MAGIC telescopes. <i>Physics of the Dark Universe</i> , 2020, 28, 100529.	4.9	10
122	Circulation of Radon Progeny in the Terrestrial Atmosphere During Thunderstorms. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	10
123	Observation of the Gamma-Ray Binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS Telescopes. <i>Astrophysical Journal</i> , 2021, 923, 241.	4.5	10
124	Investigation of the pseudorapidity and momentum of muons in EAS with the KASCADE muon tracking detector. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 151, 291-294.	0.4	9
125	On the relation of the Forbush decreases detected by ASEC monitors during the 23rd solar activity cycle with ICME parameters. <i>Advances in Space Research</i> , 2010, 45, 614-621.	2.6	9
126	Glossary on atmospheric electricity and its effects on biology. <i>International Journal of Biometeorology</i> , 2021, 65, 5-29.	3.0	9



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127	Characteristic Features of the Clouds Producing Thunderstorm Ground Enhancements. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2019JD030895.	3.3	9
128	Preparation of enriched cosmic ray mass groups with KASCADE. Astroparticle Physics, 2003, 19, 715-728.	4.3	8
129	Statistical methods for signal estimation of point sources of cosmic rays. Astroparticle Physics, 2006, 25, 269-276.	4.3	8
130	Neural classification technique for background rejection in high energy physics experiments. Neurocomputing, 1994, 6, 497-512.	5.9	7
131	Energy spectra of cosmic rays in the knee region. Nuclear Physics, Section B, Proceedings Supplements, 2003, 122, 218-221.	0.4	7
132	On the possibility of location of radiation-emitting region in thundercloud. Journal of Physics: Conference Series, 2013, 409, 012217.	0.4	7
133	Thunderstorm Ground Enhancements (TGEs) – New High-Energy Phenomenon Originated in the Terrestrial Atmosphere. Journal of Physics: Conference Series, 2013, 409, 012019.	0.4	7
134	On the scent of the knee – air shower measurements with KASCADE. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 453-456.	0.4	6
135	Calculations of the sensitivity of the particle detectors of ASEC and SEVAN networks to galactic and solar cosmic rays. Astroparticle Physics, 2009, 32, 185-192.	4.3	6
136	Cosmic ray intensity increases detected by Aragats Space Environmental Center monitors during the 23rd solar activity cycle in correlation with geomagnetic storms. Journal of Geophysical Research, 2009, 114, .	3.3	6
137	Origin of the low-energy gamma ray flux of the long-lasting thunderstorm ground enhancements. Physical Review D, 2019, 99, .	4.7	6
138	The synergy of the cosmic ray and high energy atmospheric physics: Particle bursts observed by arrays of particle detectors. New Astronomy, 2022, 97, 101871.	1.8	6
139	Multi-messenger observations of thunderstorm-related bursts of cosmic rays. Journal of Instrumentation, 2022, 17, P07022.	1.2	6
140	SOLAR NEUTRON EVENTS THAT HAVE BEEN FOUND IN SOLAR CYCLE 23. International Journal of Modern Physics A, 2005, 20, 6646-6649.	1.5	5
141	Muon Tomography of Charged Structures in the Atmospheric Electric Field. Geophysical Research Letters, 2021, 48, e2021GL094594.	4.0	5
142	On the nonparametric classification and regression methods for multivariate EAS data analysis. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 237-239.	0.4	4
143	On the accuracy of the primary energy and nuclei determination at mountain altitudes and sea level. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 240-242.	0.4	4
144	Test alert service against very large SEP Events. Advances in Space Research, 2005, 36, 2351-2356.	2.6	4

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145	Advanced data acquisition system for SEVAN. <i>Advances in Space Research</i> , 2009, 43, 717-720.	2.6	4
146	Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. <i>Astrophysical Journal</i> , 2022, 932, 129.	4.5	4
147	Muon density spectra as a probe of the muon component predicted by air shower simulations. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 122, 384-387.	0.4	3
148	Muon production heights determined in the KASCADE experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 122, 289-292.	0.4	3
149	The MAGIC Telescope for Gamma-Ray Astronomy above 30 GeV. <i>Research in Astronomy and Astrophysics</i> , 2003, 3, 531-538.	1.1	3
150	Investigation of hadronic interaction models with the KASCADE experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 151, 469-472.	0.4	3
151	Cosmic Ray research in Armenia. <i>Advances in Space Research</i> , 2009, 44, 1183-1193.	2.6	3
152	New low threshold detectors for measuring electron and gamma ray fluxes from thunderclouds. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012223.	0.4	3
153	The KASCADE Experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1998, 60, 151-160.	0.4	2
154	Estimation of the chemical composition in the $\sim 10^{16}$ eV region from the muon/electron ratio in EAS. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 75, 234-237.	0.4	2
155	Neural Chip SAND in online data processing of extensive air showers. <i>Computer Physics Communications</i> , 2000, 126, 63-66.	7.5	2
156	First results of the air shower experiment KASCADE. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2000, 87, 414-416.	0.4	2
157	On the hadronic component of extensive air showers. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 122, 309-312.	0.4	2
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