

Yoshiki Tsunesada

List of Publications by Year in descending order

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137
papers

4,611
citations

136740

32
h-index

106150

65
g-index

139
all docs

139
docs citations

139
times ranked

3313
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of variations in cosmic ray single count rates during thunderstorms and implications for large-scale electric field changes. <i>Physical Review D</i> , 2022, 105, . Direct Measurement of the Nickel Spectrum in Cosmic Rays in the Energy Range from $\int_{8.8}^{\infty} \frac{dN}{dA dt dE} dE$ to $\int_{240}^{\infty} \frac{dN}{dA dt dE} dE$ GeV	1.6	1
2	Deep learning method for identifying mass composition of ultra-high-energy cosmic rays. <i>Journal of Instrumentation</i> , 2022, 17, P05008.	2.9	7
3	CALET Search for Electromagnetic Counterparts of Gravitational Waves during the LIGO/Virgo O3 Run. <i>Astrophysical Journal</i> , 2022, 933, 85.	1.6	3
4	The Cosmic-Ray Composition between 2 PeV and 2 EeV Observed with the TALE Detector in Monocular Mode. <i>Astrophysical Journal</i> , 2021, 909, 178. Measurement of the Iron Spectrum in Cosmic Rays from $\int_{10}^{\infty} \frac{dN}{dA dt dE} dE$ to $\int_{2.0}^{\infty} \frac{dN}{dA dt dE} dE$ GeV	1.6	21
5	Surface detectors of the TAx4 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1019, 165726.	2.9	20
6	Physical Review Letters, 2021, 126, 241101.	0.7	7
7	Using deep learning to enhance event geometry reconstruction for the telescope array surface detector. <i>Machine Learning: Science and Technology</i> , 2021, 2, 015006.	2.4	6
8	Observations of the Origin of Downward Terrestrial Gamma-Ray Flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031940.	1.2	39
9	A new high energy gamma-ray observatory in the southern hemisphere: The ALPACA experiment. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012091.	0.3	3
10	CALET results after three years on the International Space Station. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012074.	0.3	2
11	Measurement of the proton-air cross section with Telescope Array's Black Rock Mesa and Long Ridge fluorescence detectors, and surface array in hybrid mode. <i>Physical Review D</i> , 2020, 102, .	1.6	11
12	NICHE detector and operations. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012097.	0.3	0
13	Search for point sources of ultra-high-energy photons with the Telescope Array surface detector. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3984-3993. Direct Measurement of the Cosmic-Ray Carbon and Oxygen Spectra from $\int_{10}^{\infty} \frac{dN}{dA dt dE} dE$ to $\int_{2.2}^{\infty} \frac{dN}{dA dt dE} dE$ TeV	1.6	6
14	Search for Ultra-High-Energy Neutrinos with the Telescope Array Surface Detector. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 131, 255-264.	2.9	31
15	Search for Ultra-High-Energy Neutrinos with the Telescope Array Surface Detector. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 131, 255-264.	0.2	5
16	Evidence for a Supergalactic Structure of Magnetic Deflection Multiplets of Ultra-high-energy Cosmic Rays. <i>Astrophysical Journal</i> , 2020, 899, 86.	1.6	10
17	CALET on the International Space Station: the first three years of observations. <i>Physica Scripta</i> , 2020, 95, 074012.	1.2	1

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19	Search for Large-scale Anisotropy on Arrival Directions of Ultra-high-energy Cosmic Rays Observed with the Telescope Array Experiment. <i>Astrophysical Journal Letters</i> , 2020, 898, L28.	3.0	13
20	Depth of maximum of air-shower profiles: testing the compatibility of measurements performed at the Pierre Auger Observatory and the Telescope Array experiment. <i>EPJ Web of Conferences</i> , 2019, 210, 01009.	0.1	12
21	The CALorimetric Electron Telescope (CALET) on the International Space Station: Results from the First Two Years of Operation. <i>EPJ Web of Conferences</i> , 2019, 208, 13001.	0.1	0
22	Mass composition of ultrahigh-energy cosmic rays with the Telescope Array Surface Detector data. <i>Physical Review D</i> , 2019, 99, .	1.6	29
23	Direct Measurement of the Cosmic-Ray Proton Spectrum from 50 GeV to 10 TeV with the Calorimetric Electron Telescope on the International Space Station. <i>Physical Review Letters</i> , 2019, 122, 181102.	2.9	108
24	The CALorimetric Electron Telescope (CALET) on the International Space Station: Results from the First Two Years On Orbit. <i>Journal of Physics: Conference Series</i> , 2019, 1181, 012003.	0.3	6
25	Constraints on the diffuse photon flux with energies above 10 ¹⁸ eV using the surface detector of the Telescope Array experiment. <i>Astroparticle Physics</i> , 2019, 110, 8-14.	1.9	40
26	On-orbit operations and offline data processing of CALET onboard the ISS. <i>Astroparticle Physics</i> , 2018, 100, 29-37.	1.9	26
27	Report of the Working Group on the Mass Composition of Ultrahigh Energy Cosmic Rays. , 2018, , .		8
28	The Energy Spectrum of Cosmic Rays at the Highest Energies. , 2018, , .		3
29	Evidence of Intermediate-scale Energy Spectrum Anisotropy of Cosmic Rays $E \gtrsim 10^{19.2}$ eV with the Telescope Array Surface Detector. <i>Astrophysical Journal</i> , 2018, 862, 91.	1.6	23
30	NICHE: Non-Imaging Cherenkov Light Observation at the TA Site. , 2018, , .		0
31	Testing a Reported Correlation between Arrival Directions of Ultra-high-energy Cosmic Rays and a Flux Pattern from nearby Starburst Galaxies using Telescope Array Data. <i>Astrophysical Journal Letters</i> , 2018, 867, L27.	3.0	34
32	The Cosmic Ray Energy Spectrum between 2 PeV and 2 EeV Observed with the TALE Detector in Monocular Mode. <i>Astrophysical Journal</i> , 2018, 865, 74.	1.6	64
33	Characteristics and Performance of the CALorimetric Electron Telescope (CALET) Calorimeter for Gamma-Ray Observations. <i>Astrophysical Journal, Supplement Series</i> , 2018, 238, 5.	3.0	16
34	Depth of Ultra High Energy Cosmic Ray Induced Air Shower Maxima Measured by the Telescope Array Black Rock and Long Ridge FADC Fluorescence Detectors and Surface Array in Hybrid Mode. <i>Astrophysical Journal</i> , 2018, 858, 76.	1.6	79
35	Gamma Ray Showers Observed at Ground Level in Coincidence With Downward Lightning Leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6864-6879.	1.2	58
36	Extended Measurement of the Cosmic-Ray Electron and Positron Spectrum from 11 GeV to 4.8 TeV with the Calorimetric Electron Telescope on the International Space Station. <i>Physical Review Letters</i> , 2018, 120, 261102.	2.9	134

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37	Study of muons from ultrahigh energy cosmic ray air showers measured with the Telescope Array experiment. <i>Physical Review D</i> , 2018, 98, .	1.6	43
38	Search for GeV Gamma-Ray Counterparts of Gravitational Wave Events by CALET. <i>Astrophysical Journal</i> , 2018, 863, 160.	1.6	10
39	First upper limits on the radar cross section of cosmic-ray induced extensive air showers. <i>Astroparticle Physics</i> , 2017, 87, 1-17.	1.9	9
40	Search for EeV protons of galactic origin. <i>Astroparticle Physics</i> , 2017, 86, 21-26.	1.9	24
41	Energy calibration of CALET onboard the International Space Station. <i>Astroparticle Physics</i> , 2017, 91, 1-10.	1.9	39
42	Energy Spectrum of Cosmic-Ray Electron and Positron from 10 ^Å GeV to 3 ^Å TeV Observed with the Calorimetric Electron Telescope on the International Space Station. <i>Physical Review Letters</i> , 2017, 119, 181101.	2.9	116
43	The status of DECIGO. <i>Journal of Physics: Conference Series</i> , 2017, 840, 012010.	0.3	148
44	The bursts of high energy events observed by the telescope array surface detector. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2565-2572.	0.9	31
45	Measurement of energy spectrum of ultra-high energy cosmic rays. <i>Progress of Theoretical and Experimental Physics</i> , 2017, 2017, .	1.8	18
46	A systematic uncertainty on the energy scale of the Telescope Array fluorescence detectors. , 2017, , .		2
47	Energy Spectrum of Ultra-High-Energy Cosmic Rays Measured by The Telescope Array. , 2017, , .		8
48	The energy spectrum of cosmic rays above 10 ^{17.2} ÅeV measured by the fluorescence detectors of the Telescope Array experiment in seven years. <i>Astroparticle Physics</i> , 2016, 80, 131-140.	1.9	53
49	Simultaneous Observation of Solar Neutrons from the International Space Station and High Mountain Observatories in Association with a Flare on July 8, 2014. <i>Solar Physics</i> , 2016, 291, 1241-1265.	1.0	9
50	CALET UPPER LIMITS ON X-RAY AND GAMMA-RAY COUNTERPARTS OF GW151226. <i>Astrophysical Journal Letters</i> , 2016, 829, L20.	3.0	20
51	Measurement of the proton-air cross section with Telescope Array's Middle Drum detector and surface array in hybrid mode. <i>Physical Review D</i> , 2015, 92, .	1.6	39
52	Publisher's Note: Measurement of the proton-air cross section with Telescope Array's Middle Drum detector and surface array in hybrid mode [Phys. Rev. D92, 032007 (2015)]. <i>Physical Review D</i> , 2015, 92, .	1.6	2
53	Performances of JEM's EUSO: energy and X max reconstruction. <i>Experimental Astronomy</i> , 2015, 40, 183-214.	1.6	7
54	Calibration aspects of the JEM-EUSO mission. <i>Experimental Astronomy</i> , 2015, 40, 91-116.	1.6	5

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55	Space experiment TUS on board the Lomonosov satellite as pathfinder of JEM-EUSO. <i>Experimental Astronomy</i> , 2015, 40, 315-326.	1.6	11
56	A NORTHERN SKY SURVEY FOR POINT-LIKE SOURCES OF EeV NEUTRAL PARTICLES WITH THE TELESCOPE ARRAY EXPERIMENT. <i>Astrophysical Journal</i> , 2015, 804, 133.	1.6	11
57	The infrared camera onboard JEM-EUSO. <i>Experimental Astronomy</i> , 2015, 40, 61-89.	1.6	7
58	Ground-based tests of JEM-EUSO components at the Telescope Array site, "EUSO-TA". <i>Experimental Astronomy</i> , 2015, 40, 301-314.	1.6	16
59	The JEM-EUSO mission: An introduction. <i>Experimental Astronomy</i> , 2015, 40, 3-17.	1.6	38
60	The JEM-EUSO observation in cloudy conditions. <i>Experimental Astronomy</i> , 2015, 40, 135-152.	1.6	10
61	The atmospheric monitoring system of the JEM-EUSO instrument. <i>Experimental Astronomy</i> , 2015, 40, 45-60.	1.6	10
62	JEM-EUSO: Meteor and nuclearite observations. <i>Experimental Astronomy</i> , 2015, 40, 253-279.	1.6	27
63	The hybrid energy spectrum of Telescope Array's Middle Drum Detector and surface array. <i>Astroparticle Physics</i> , 2015, 68, 27-44.	1.9	11
64	The JEM-EUSO instrument. <i>Experimental Astronomy</i> , 2015, 40, 19-44.	1.6	45
65	Science of atmospheric phenomena with JEM-EUSO. <i>Experimental Astronomy</i> , 2015, 40, 239-251.	1.6	8
66	The EUSO-Balloon pathfinder. <i>Experimental Astronomy</i> , 2015, 40, 281-299.	1.6	31
67	Study of Ultra-High Energy Cosmic Ray composition using Telescope Array's Middle Drum detector and surface array in hybrid mode. <i>Astroparticle Physics</i> , 2015, 64, 49-62.	1.9	148
68	Performances of JEM-EUSO: angular reconstruction. <i>Experimental Astronomy</i> , 2015, 40, 153-177.	1.6	8
69	Ultra high energy photons and neutrinos with JEM-EUSO. <i>Experimental Astronomy</i> , 2015, 40, 215-233.	1.6	3
70	Energy spectrum of ultra-high energy cosmic rays observed with the Telescope Array using a hybrid technique. <i>Astroparticle Physics</i> , 2015, 61, 93-101.	1.9	39
71	JEM-EUSO observational technique and exposure. <i>Experimental Astronomy</i> , 2015, 40, 117-134.	1.6	16
72	RESULTS FROM THE TELESCOPE ARRAY EXPERIMENT. , 2015, , .		0

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73	New air Cherenkov light detectors to study mass composition of cosmic rays with energies above knee region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 320-328.	0.7	5
74	Gain monitoring of telescope array photomultiplier cameras for the first 4 years of operation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 768, 96-103.	0.7	6
75	INDICATIONS OF INTERMEDIATE-SCALE ANISOTROPY OF COSMIC RAYS WITH ENERGY GREATER THAN 57 EeV IN THE NORTHERN SKY MEASURED WITH THE SURFACE DETECTOR OF THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal Letters, 2014, 790, L21.	3.0	248
76	The energy spectrum of ultra-high-energy cosmic rays measured by the Telescope Array FADC fluorescence detectors in monocular mode. Astroparticle Physics, 2013, 48, 16-24.	1.9	24
77	Upper limit on the flux of photons with energies above 10^{19} eV measured by the Telescope Array surface detector. Physical Review D, 2013, 88, .	1.6	35
78	THE COSMIC-RAY ENERGY SPECTRUM OBSERVED WITH THE SURFACE DETECTOR OF THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal Letters, 2013, 768, L1.	3.0	214
79	CORRELATIONS OF THE ARRIVAL DIRECTIONS OF ULTRA-HIGH ENERGY COSMIC RAYS WITH EXTRAGALACTIC OBJECTS AS OBSERVED BY THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2013, 777, 88.	1.6	43
80	The energy spectrum of cosmic rays at the highest energies. EPJ Web of Conferences, 2013, 53, 01005.	0.1	26
81	Calibration and testing of a prototype of the JEM-EUSO telescope on Telescope Array site. EPJ Web of Conferences, 2013, 53, 09005.	0.1	2
82	Mass composition working group report. EPJ Web of Conferences, 2013, 53, 01006.	0.1	33
83	Nitrogen fluorescence in air for observing extensive air showers. EPJ Web of Conferences, 2013, 53, 01010.	0.1	10
84	Atmospheric monitor for Telescope Array experiment. EPJ Web of Conferences, 2013, 53, 10003.	0.1	6
85	SEARCH FOR ANISOTROPY OF ULTRAHIGH ENERGY COSMIC RAYS WITH THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2012, 757, 26.	1.6	52
86	The energy spectrum of Telescope Array's Middle Drum detector and the direct comparison to the High Resolution Fly's Eye experiment. Astroparticle Physics, 2012, 39-40, 109-119.	1.9	21
87	The surface detector array of the Telescope Array experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 689, 87-97.	0.7	249
88	Calibration of photomultiplier tubes for the fluorescence detector of telescope array experiment using a Rayleigh scattered laser beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 681, 68-77.	0.7	19
89	New air fluorescence detectors employed in the Telescope Array experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 676, 54-65.	0.7	178
90	The Status of the Telescope Array experiment. Journal of Physics: Conference Series, 2011, 293, 012035.	0.3	18

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91	The atmospheric transparency measured with a LIDAR system at the Telescope Array experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 653-660.	0.7	22
92	The Focal Surface of the JEM-EUSO Instrument. AIP Conference Proceedings, 2011, , .	0.3	4
93	Central Laser Facility Analysis at The Telescope Array Experiment. , 2011, , .		10
94	The hybrid trigger system in the Telescope Array experiment. , 2011, , .		0
95	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	1.5	456
96	An Event Reconstruction Method for the Telescope Array Fluorescence Detectors. AIP Conference Proceedings, 2011, , .	0.3	6
97	The effect of the atmospheric condition on the extensive air shower analysis at the Telescope Array experiment. , 2011, , .		0
98	The Extreme Energy Cosmic Rays. , 2010, , .		0
99	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	1.5	39
100	The Telescope Array experiment: Status and Prospects. , 2010, , .		7
101	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	1.5	18
102	The present status of the Telescope Array experiment. Nuclear Physics, Section B, Proceedings Supplements, 2009, 190, 26-31.	0.5	5
103	On site calibration for new fluorescence detectors of the telescope array experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 364-371.	0.7	33
104	Trigger electronics of the new Fluorescence Detectors of the Telescope Array Experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 609, 227-234.	0.7	26
105	Physics of ion acceleration in the solar flare on 2005 September 7 determines $\hat{1}^3$ -ray and neutron production. Advances in Space Research, 2009, 44, 789-793.	1.2	7
106	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.3	30
107	Measurement of Ultra-High Energy Cosmic Rays by Telescope Array (TA). Journal of the Physical Society of Japan, 2009, 78, 108-113.	0.7	9
108	CALET Mission for the Observation of Cosmic Rays on the International Space Station. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Ph_23-Ph_28.	0.2	1

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109	The cosmic ray primary composition at the knee region from lateral distributions of atmospheric Čerenkov photons in extensive air showers. <i>Astroparticle Physics</i> , 2008, 29, 453-460.	1.9	19
110	Detection of high-energy solar neutrons and protons by ground level detectors on April 15, 2001. <i>Astroparticle Physics</i> , 2008, 29, 229-242.	1.9	22
111	Telescope Array Experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2008, 175-176, 221-226.	0.5	87
112	Effect of energy deposited by cosmic-ray particles on interferometric gravitational wave detectors. <i>Physical Review D</i> , 2008, 78, .	1.6	11
113	The Telescope Array experiment: status and prospects. <i>Journal of Physics: Conference Series</i> , 2008, 120, 062027.	0.3	2
114	The Japanese space gravitational wave antenna; DECIGO. <i>Journal of Physics: Conference Series</i> , 2008, 120, 032004.	0.3	34
115	DECIGO pathfinder. <i>Journal of Physics: Conference Series</i> , 2008, 120, 032005.	0.3	5
116	Search for gravitational waves on short duration in TAMA300 data: stellar core collapse and black hole. <i>Journal of Physics: Conference Series</i> , 2008, 120, 032013.	0.3	0
117	The Japanese space gravitational wave antenna - DECIGO. <i>Journal of Physics: Conference Series</i> , 2008, 122, 012006.	0.3	46
118	THE CALET SPACE OBSERVATORY FOR JEM-EF ON THE INTERNATIONAL SPACE STATION. , 2008, , .		0
119	DECIGO: THE JAPANESE SPACE GRAVITATIONAL WAVE ANTENNA. , 2008, , .		0
120	Trigger system for the TA fluorescence detector. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 430-433.	1.3	2
121	Highly significant detection of solar neutrons on 2005 September 7. <i>Advances in Space Research</i> , 2007, 39, 1462-1466.	1.2	12
122	Results of the search for inspiraling compact star binaries from TAMA300's observation in 2000-2004. <i>Physical Review D</i> , 2006, 74, .	1.6	11
123	Long-lived Solar Neutron Emission in Comparison with Electron-produced Radiation in the 2005 September 7 Solar Flare. <i>Astrophysical Journal</i> , 2006, 651, L69-L72.	1.6	31
124	The Japanese space gravitational wave antenna-DECIGO. <i>Classical and Quantum Gravity</i> , 2006, 23, S125-S131.	1.5	388
125	Upper limits on gravitational-wave bursts radiated from stellar-core collapses in our galaxy. <i>Classical and Quantum Gravity</i> , 2005, 22, S1283-S1291.	1.5	8
126	Black-hole ringdown search in TAMA300: matched filtering and event selections. <i>Classical and Quantum Gravity</i> , 2005, 22, S1129-S1138.	1.5	11

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127	On detection of black hole quasinormal ringdowns: Detection efficiency and waveform parameter determination in matched filtering. <i>Physical Review D</i> , 2005, 71, .	1.6	16
128	Observation results by the TAMA300 detector on gravitational wave bursts from stellar-core collapses. <i>Physical Review D</i> , 2005, 71, .	1.6	24
129	Analysis methods for burst gravitational waves with TAMA data. <i>Classical and Quantum Gravity</i> , 2004, 21, S1679-S1684.	1.5	6
130	Search for gravitational waves from black-hole ringdowns using TAMA300 data. <i>Classical and Quantum Gravity</i> , 2004, 21, S703-S708.	1.5	2
131	Present status of large-scale cryogenic gravitational wave telescope. <i>Classical and Quantum Gravity</i> , 2004, 21, S1161-S1172.	1.5	43
132	Plans for the LIGOâ€“TAMA joint search for gravitational wave bursts. <i>Classical and Quantum Gravity</i> , 2004, 21, S1801-S1807.	1.5	5
133	Online calibration and pre-processing of TAMA data. <i>Classical and Quantum Gravity</i> , 2004, 21, S451-S456.	1.5	26
134	Coincidence analysis to search for inspiraling compact binaries using TAMA300 and LISM data. <i>Physical Review D</i> , 2004, 70, .	1.6	16
135	The Energy Spectrum and the Chemical Composition of Primary Cosmic Rays with Energies from 1014to 1016eV. <i>Astrophysical Journal</i> , 2004, 612, 268-275.	1.6	26
136	Current status of large-scale cryogenic gravitational wave telescope. <i>Classical and Quantum Gravity</i> , 2003, 20, S871-S884.	1.5	21
137	Solar Neutron Event in Association with a Large Solar Flare on 2000 November 24. <i>Astrophysical Journal</i> , 2003, 592, 590-596.	1.6	25