Yoshiki Tsunesada

List of Publications by Year
in descending order

137	4,611	136740	106150
papers	citations	32 h-index	65 g-index

139	139	139	3313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	1.5	456
2	The Japanese space gravitational wave antennaâ€”DECIGO. Classical and Quantum Gravity, 2006, 23, S125-S131.	1.5	388
3	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
4	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
5	THE COSMIC-RAY ENERGY SPECTRUM OBSERVED WITH THE SURFACE DETECTOR OF THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal Letters, 2013, 768, L1.	3.0	214
6	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
7	Study of Ultra-High Energy Cosmic Ray composition using Telescope Arrayâ€™s Middle Drum detector and surface array in hybrid mode. Astroparticle Physics, 2015, 64, 49-62.	1.9	148
8	The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010.	0.3	148
9	Extended Measurement of the Cosmic-Ray Electron and Positron Spectrum from 11ÂGeV to 4.8ÂTeV with the Calorimetric Electron Telescope on the International Space Station. Physical Review Letters, 2018, 120, 261102.	2.9	134
10	Energy Spectrum of Cosmic-Ray Electron and Positron from 10ÂGeV to 3ÂTeV Observed with the Calorimetric Electron Telescope on the International Space Station. Physical Review Letters, 2017, 119, 181101.	2.9	116
11	Direct Measurement of the Cosmic-Ray Proton Spectrum from 50ÂGeV to 10ÂTeV with the Calorimetric Electron Telescope on the International Space Station. Physical Review Letters, 2019, 122, 181102.	2.9	108
12	Telescope Array Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 221-226.	0.5	87
13	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. Astrophysical Journal, 2018, 858, 76.	1.6	79
14	The Cosmic Ray Energy Spectrum between 2 PeV and 2 EeV Observed with the TALE Detector in Monocular Mode. Astrophysical Journal, 2018, 865, 74.	1.6	64
15	Gamma Ray Showers Observed at Ground Level in Coincidence With Downward Lightning Leaders. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6864-6879.	1.2	58
16	The energy spectrum of cosmic rays above 1017.2ÂeV measured by the fluorescence detectors of the Telescope Array experiment in seven years. Astroparticle Physics, 2016, 80, 131-140.	1.9	53
17	SEARCH FOR ANISOTROPY OF ULTRAHIGH ENERGY COSMIC RAYS WITH THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2012, 757, 26.	1.6	52
18	The Japanese space gravitational wave antenna - DECIGO. Journal of Physics: Conference Series, 2008, 122, 012006.	0.3	46

#	Article	IF	Citations
19	The JEM-EUSO instrument. Experimental Astronomy, 2015, 40, 19-44.	1.6	45
20	Present status of large-scale cryogenic gravitational wave telescope. Classical and Quantum Gravity, 2004, 21, S1161-S1172.	1.5	43
21	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
22	Study of muons from ultrahigh energy cosmic ray air showers measured with the Telescope Array experiment. Physical Review D, 2018, 98, .	1.6	43
23	Constraints on the diffuse photon flux with energies above 1018ÂeV using the surface detector of the Telescope Array experiment. Astroparticle Physics, 2019, 110, 8-14.	1.9	40
24	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	1.5	39
25	Measurement of the proton-air cross section with Telescope Arrayâ€™s Middle Drum detector and surface array in hybrid mode. Physical Review D, 2015, 92, .	1.6	39
26	Energy spectrum of ultra-high energy cosmic rays observed with the Telescope Array using a hybrid technique. Astroparticle Physics, 2015, 61, 93-101.	1.9	39
27	Energy calibration of CALET onboard the International Space Station. Astroparticle Physics, 2017, 91, 1-10.	1.9	39
28	Observations of the Origin of Downward Terrestrial Gammaâ€Ray Flashes. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031940.	1.2	39
29	The JEM-EUSO mission: An introduction. Experimental Astronomy, 2015, 40, 3-17.	1.6	38
30	Upper limit on the flux of photons with energies above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>10</mml:mn><mml:mn>19</mml:mn></mml:msup><mml:mtext>â€‰</mml:mtext><mml:mt the Telescope Array surface detector. Physical Review D, 2013, 88, .	1.6	35
31	The Japanese space gravitational wave antenna; DECIGO. Journal of Physics: Conference Series, 2008, 120, 032004.	0.3	34
32	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. Astrophysical Journal Letters, 2018, 867, L27.	3.0	34
33	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
34	Mass composition working group report. EPJ Web of Conferences, 2013, 53, 01006.	0.1	33
35	Long-lived Solar Neutron Emission in Comparison with Electron-produced Radiation in the 2005 September 7 Solar Flare. Astrophysical Journal, 2006, 651, L69-L72.	1.6	31
36	The EUSO-Balloon pathfinder. Experimental Astronomy, 2015, 40, 281-299.	1.6	31

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37	The bursts of high energy events observed by the telescope array surface detector. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2565-2572.	0.9	31
38	Direct Measurement of the Cosmic-Ray Carbon and Oxygen Spectra from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>10</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>GeV< mathvariant="italic"><mml:mi>n</mml:mi></mml:mstyle></mml:mrow></mml:math> to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2.2</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>Te.	2.9	31
39	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.3	30
40	Mass composition of ultrahigh-energy cosmic rays with the Telescope Array Surface Detector data. Physical Review D, 2019, 99, .	1.6	29
41	JEM-EUSO: Meteor and nuclearite observations. Experimental Astronomy, 2015, 40, 253-279.	1.6	27
42	Online calibration and pre-processing of TAMA data. Classical and Quantum Gravity, 2004, 21, S451-S456.	1.5	26
43	The Energy Spectrum and the Chemical Composition of Primary Cosmic Rays with Energies from 1014to 1016eV. Astrophysical Journal, 2004, 612, 268-275.	1.6	26
44	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
45	The energy spectrum of cosmic rays at the highest energies. EPJ Web of Conferences, 2013, 53, 01005.	0.1	26
46	On-orbit operations and offline data processing of CALET onboard the ISS. Astroparticle Physics, 2018, 100, 29-37.	1.9	26
47	Solar Neutron Event in Association with a Large Solar Flare on 2000 November 24. Astrophysical Journal, 2003, 592, 590-596.	1.6	25
48	Observation results by the TAMA300 detector on gravitational wave bursts from stellar-core collapses. Physical Review D, 2005, 71, .	1.6	24
49	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
50	Search for EeV protons of galactic origin. Astroparticle Physics, 2017, 86, 21-26.	1.9	24
51	Evidence of Intermediate-scale Energy Spectrum Anisotropy of Cosmic Rays EÂâ‰¥Â10^{19.2} eV with the Telescope Array Surface Detector. Astrophysical Journal, 2018, 862, 91.	1.6	23
52	Detection of high-energy solar neutrons and protons by ground level detectors on April 15, 2001. Astroparticle Physics, 2008, 29, 229-242.	1.9	22
53	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
54	Current status of large-scale cryogenic gravitational wave telescope. Classical and Quantum Gravity, 2003, 20, S871-S884.	1.5	21

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55	The energy spectrum of Telescope Arrayâ€™s Middle Drum detector and the direct comparison to the High Resolution Flyâ€™s Eye experiment. Astroparticle Physics, 2012, 39-40, 109-119.	1.9	21
56	The Cosmic-Ray Composition between 2 PeV and 2 EeV Observed with the TALE Detector in Monocular Mode. Astrophysical Journal, 2021, 909, 178.	1.6	21
57	Measurement of the Iron Spectrum in Cosmic Rays from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>10</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>Ge</mml:mi> to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2.0</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>Te</mml:mi> Physical Review Letters, 2021, 126, 241101.	2.9	20
58	CALET UPPER LIMITS ON X-RAY AND GAMMA-RAY COUNTERPARTS OF GW151226. Astrophysical Journal Letters, 2016, 829, L20.	3.0	20
59	The cosmic ray primary composition at the knee region from lateral distributions of atmospheric CÊ˜erenkov photons in extensive air showers. Astroparticle Physics, 2008, 29, 453-460.	1.9	19
60	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
61	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	1.5	18
62	The Status of the Telescope Array experiment. Journal of Physics: Conference Series, 2011, 293, 012035.	0.3	18
63	Measurement of energy spectrum of ultra-high energy cosmic rays. Progress of Theoretical and Experimental Physics, 2017, 2017, .	1.8	18
64	Coincidence analysis to search for inspiraling compact binaries using TAMA300 and LISM data. Physical Review D, 2004, 70, .	1.6	16
65	On detection of black hole quasinormal ringdowns: Detection efficiency and waveform parameter determination in matched filtering. Physical Review D, 2005, 71, .	1.6	16
66	Ground-based tests of JEM-EUSO components at the Telescope Array site, â€œEUSO-TAâ€• Experimental Astronomy, 2015, 40, 301-314.	1.6	16
67	JEM-EUSO observational technique and exposure. Experimental Astronomy, 2015, 40, 117-134.	1.6	16
68	Characteristics and Performance of the CALorimetric Electron Telescope (CALET) Calorimeter for Gamma-Ray Observations. Astrophysical Journal, Supplement Series, 2018, 238, 5.	3.0	16
69	Search for Large-scale Anisotropy on Arrival Directions of Ultra-high-energy Cosmic Rays Observed with the Telescope Array Experiment. Astrophysical Journal Letters, 2020, 898, L28.	3.0	13
70	Highly significant detection of solar neutrons on 2005 September 7. Advances in Space Research, 2007, 39, 1462-1466.	1.2	12
71	Depth of maximum of air-shower profiles: testing the compatibility of measurements performed at the Pierre Auger Observatory and the Telescope Array experiment. EPJ Web of Conferences, 2019, 210, 01009.	0.1	12
72	Black-hole ringdown search in TAMA300: matched filtering and event selections. Classical and Quantum Gravity, 2005, 22, S1129-S1138.	1.5	11

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73	Results of the search for inspiraling compact star binaries from TAMA300â€™s observation in 2000â€“2004. Physical Review D, 2006, 74, .	1.6	11
74	Effect of energy deposited by cosmic-ray particles on interferometric gravitational wave detectors. Physical Review D, 2008, 78, .	1.6	11
75	Space experiment TUS on board the Lomonosov satellite as pathfinder of JEM-EUSO. Experimental Astronomy, 2015, 40, 315-326.	1.6	11
76	A NORTHERN SKY SURVEY FOR POINT-LIKE SOURCES OF EeV NEUTRAL PARTICLES WITH THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2015, 804, 133.	1.6	11
77	The hybrid energy spectrum of Telescope Arrayâ€™s Middle Drum Detector and surface array. Astroparticle Physics, 2015, 68, 27-44.	1.9	11
78	Measurement of the proton-air cross section with Telescope Arrayâ€™s Black Rock Mesa and Long Ridge fluorescence detectors, and surface array in hybrid mode. Physical Review D, 2020, 102, .	1.6	11
79	Central Laser Facility Analysis at The Telescope Array Experiment. , 2011, , .		10
80	Nitrogen fluorescence in air for observing extensive air showers. EPJ Web of Conferences, 2013, 53, 01010.	0.1	10
81	The JEM-EUSO observation in cloudy conditions. Experimental Astronomy, 2015, 40, 135-152.	1.6	10
82	The atmospheric monitoring system of the JEM-EUSO instrument. Experimental Astronomy, 2015, 40, 45-60.	1.6	10
83	Search for GeV Gamma-Ray Counterparts of Gravitational Wave Events by CALET. Astrophysical Journal, 2018, 863, 160.	1.6	10
84	Evidence for a Supergalactic Structure of Magnetic Deflection Multiplets of Ultra-high-energy Cosmic Rays. Astrophysical Journal, 2020, 899, 86.	1.6	10
85	Simultaneous Observation of Solar Neutrons from the International Space Station and High Mountain Observatories in Association with a Flare on July 8, 2014. Solar Physics, 2016, 291, 1241-1265.	1.0	9
86	First upper limits on the radar cross section of cosmic-ray induced extensive air showers. Astroparticle Physics, 2017, 87, 1-17.	1.9	9
87	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
88	Upper limits on gravitational-wave bursts radiated from stellar-core collapses in our galaxy. Classical and Quantum Gravity, 2005, 22, S1283-S1291.	1.5	8
89	Science of atmospheric phenomena with JEM-EUSO. Experimental Astronomy, 2015, 40, 239-251.	1.6	8
90	Performances of JEM-EUSO: angular reconstruction. Experimental Astronomy, 2015, 40, 153-177.	1.6	8

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91	Report of the Working Group on the Mass Composition of Ultrahigh Energy Cosmic Rays. , 2018, , .		8
92	Energy Spectrum of Ultra-High-Energy Cosmic Rays Measured by The Telescope Array. , 2017, , .		8
93	Physics of ion acceleration in the solar flare on 2005 September 7 determines Î³-ray and neutron production. Advances in Space Research, 2009, 44, 789-793.	1.2	7
94	The Telescope Array experiment: Status and Prospects. , 2010, , .		7
95	Performances of JEMâ€“EUSO: energy and X max reconstruction. Experimental Astronomy, 2015, 40, 183-214.	1.6	7
96	The infrared camera onboard JEM-EUSO. Experimental Astronomy, 2015, 40, 61-89.	1.6	7
97	Surface detectors of the TAx4 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1019, 165726.	0.7	7
98	Direct Measurement of the Nickel Spectrum in Cosmic Rays in the Energy Range from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>8.8</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>GeV mathvariant="italic">n</mml:mi></mml:mrow></mml:math> to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>240</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>GeV	2.9	7
99	Analysis methods for burst gravitational waves with TAMA data. Classical and Quantum Gravity, 2004, 21, S1679-S1684.	1.5	6
100	An Event Reconstruction Method for the Telescope Array Fluorescence Detectors. AIP Conference Proceedings, 2011, , .	0.3	6
101	Atmospheric monitor for Telescope Array experiment. EPJ Web of Conferences, 2013, 53, 10003.	0.1	6
102	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
103	The CALorimetric Electron Telescope (CALET) on the International Space Station: Results from the First Two Years On Orbit. Journal of Physics: Conference Series, 2019, 1181, 012003.	0.3	6
104	Search for point sources of ultra-high-energy photons with the Telescope Array surface detector. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3984-3993.	1.6	6
105	Using deep learning to enhance event geometry reconstruction for the telescope array surface detector. Machine Learning: Science and Technology, 2021, 2, 015006.	2.4	6
106	Plans for the LIGOâ€“TAMA joint search for gravitational wave bursts. Classical and Quantum Gravity, 2004, 21, S1801-S1807.	1.5	5
107	DECIGO pathfinder. Journal of Physics: Conference Series, 2008, 120, 032005.	0.3	5
108	The present status of the Telescope Array experiment. Nuclear Physics, Section B, Proceedings Supplements, 2009, 190, 26-31.	0.5	5

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109	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
110	Calibration aspects of the JEM-EUSO mission. Experimental Astronomy, 2015, 40, 91-116.	1.6	5
111	Search for Ultra-High-Energy Neutrinos with the Telescope Array Surface Detector. Journal of Experimental and Theoretical Physics, 2020, 131, 255-264.	0.2	5
112	The Focal Surface of the JEM-EUSO Instrument. AIP Conference Proceedings, 2011, , .	0.3	4
113	Ultra high energy photons and neutrinos with JEM-EUSO. Experimental Astronomy, 2015, 40, 215-233.	1.6	3
114	The Energy Spectrum of Cosmic Rays at the Highest Energies. , 2018, , .		3
115	A new high energy gamma-ray observatory in the southern hemisphere: The ALPACA experiment. Journal of Physics: Conference Series, 2020, 1468, 012091.	0.3	3
116	CALET Search for Electromagnetic Counterparts of Gravitational Waves during the LIGO/Virgo O3 Run. Astrophysical Journal, 2022, 933, 85.	1.6	3
117	Search for gravitational waves from black-hole ringdowns using TAMA300 data. Classical and Quantum Gravity, 2004, 21, S703-S708.	1.5	2
118	Trigger system for the TA fluorescence detector. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 430-433.	1.3	2
119	The Telescope Array experiment: status and prospects. Journal of Physics: Conference Series, 2008, 120, 062027.	0.3	2
120	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
121	Publisherâ€™s Note: Measurement of the proton-air cross section with Telescope Arrayâ€™s Middle Drum detector and surface array in hybrid mode [Phys. Rev. D92, 032007 (2015)]. Physical Review D, 2015, 92, .	1.6	2
122	CALET results after three years on the International Space Station. Journal of Physics: Conference Series, 2020, 1468, 012074.	0.3	2
123	A systematic uncertainty on the energy scale of the Telescope Array fluorescence detectors. , 2017, , .		2
124	Deep learning method for identifying mass composition of ultra-high-energy cosmic rays. Journal of Instrumentation, 2022, 17, P05008.	0.5	2
125	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
126	CALET on the International Space Station: the first three years of observations. Physica Scripta, 2020, 95, 074012.	1.2	1

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127	Observation of variations in cosmic ray single count rates during thunderstorms and implications for large-scale electric field changes. Physical Review D, 2022, 105, .	1.6	1
128	Search for gravitational waves on short duration in TAMA300 data: stellar core collapse and black hole. Journal of Physics: Conference Series, 2008, 120, 032013.	0.3	0
129	The Extreme Energy Cosmic Rays. , 2010, , .		0
130	The hybrid trigger system in the Telescope Array experiment. , 2011, , .		0
131	The effect of the atmospheric condition on the extensive air shower analysis at the Telescope Array experiment. , 2011, , .		0
132	NICHE: Non-Imaging Cherenkov Light Observation at the TA Site. , 2018, , .		0
133	The CALorimetric Electron Telescope (CALET) on the International Space Station: Results from the First Two Years of Operation. EPJ Web of Conferences, 2019, 208, 13001.	0.1	0
134	NICHE detector and operations. Journal of Physics: Conference Series, 2020, 1468, 012097.	0.3	0
135	THE CALET SPACE OBSERVATORY FOR JEM-EF ON THE INTERNATIONAL SPACE STATION. , 2008, , .		0
136	DECIGO: THE JAPANESE SPACE GRAVITATIONAL WAVE ANTENNA. , 2008, , .		0
137	RESULTS FROM THE TELESCOPE ARRAY EXPERIMENT. , 2015, , .		0