

Akira Okumura

List of Publications by Year in descending order

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105
papers

12,763
citations

30551

56
h-index

35168

102
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109
all docs

109
docs citations

109
times ranked

8478
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the Cosmic Rays and Interstellar Medium in Local H I Clouds Using Fermi-LAT Gamma-Ray Observations. <i>Astrophysical Journal</i> , 2020, 890, 120.	1.6	3
2	Using Muon Rings for the Calibration of the Cherenkov Telescope Array: A Systematic Review of the Method and Its Potential Accuracy. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 11.	3.0	17
3	Characterization of SiPM Optical Crosstalk and Its Dependence on the Protection-Window Thickness. , 2019, , .		5
4	Development of a UV-Transparent Lens Array for Enlarging the Effective Area of Multichannel SiPMs. , 2019, , .		0
5	Final characterisation and design of the Gamma-ray Cherenkov Telescope (GCT) for the Cherenkov telescope array. , 2018, , .		0
6	Operating performance of the gamma-ray Cherenkov telescope: An end-to-end Schwarzschild-Couder telescope prototype for the Cherenkov Telescope Array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 845, 355-358.	0.7	8
7	The GCT camera for the Cherenkov Telescope Array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 876, 1-4.	0.7	3
8	Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7-3946. <i>Astrophysical Journal</i> , 2017, 840, 74.	1.6	14
9	Inauguration and first light of the GCT-M prototype for the Cherenkov telescope array. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
10	TARGET5: A new multi-channel digitizer with triggering capabilities for gamma-ray atmospheric Cherenkov telescopes. <i>Astroparticle Physics</i> , 2017, 92, 49-61.	1.9	11
11	The gamma-ray Cherenkov telescope for the Cherenkov telescope array. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
12	TARGET: A digitizing and trigger ASIC for the Cherenkov telescope array. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	9
13	Prototyping hexagonal light concentrators using high-reflectance specular films for the large-sized telescopes of the Cherenkov Telescope Array. <i>Journal of Instrumentation</i> , 2017, 12, P12008-P12008.	0.5	5
14	QUANTIFYING THE INTERSTELLAR MEDIUM AND COSMIC RAYS IN THE MBM 53, 54, AND 55 MOLECULAR CLOUDS AND THE PEGASUS LOOP USING FERMI-LAT GAMMA-RAY OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 833, 278.	1.6	10
15	The Gamma-ray Cherenkov Telescope, an end-to end Schwarzschild-Couder telescope prototype proposed for the Cherenkov Telescope Array. , 2016, , .		0
16	The GCT camera for the Cherenkov Telescope Array. , 2016, , .		0
17	Simulating the optical performance of a small-sized telescope with secondary optics for the Cherenkov Telescope Array. <i>Astroparticle Physics</i> , 2016, 82, 36-48.	1.9	7
18	ROBAST: Development of a ROOT-based ray-tracing library for cosmic-ray telescopes and its applications in the Cherenkov Telescope Array. <i>Astroparticle Physics</i> , 2016, 76, 38-47.	1.9	18

#	ARTICLE	IF	CITATIONS
19	Toward the construction of a medium size prototype Schwarzschild-Couder telescope for CTA. Proceedings of SPIE, 2015, , .	0.8	2
20	The large size telescope of the Cherenkov Telescope Array. , 2014, , .		3
21	Development of the camera for the large size telescopes of the Cherenkov Telescope Array. Proceedings of SPIE, 2014, , .	0.8	3
22	Inferred Cosmic-Ray Spectrum from Fermi Large Area Telescope $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \hat{I}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Ray Observations of Earth's Limb. Physical Review Letters, 2014, 112, 151103.	2.9	28
23	HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF <i>FERMI</i> LARGE AREA TELESCOPE DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES. Astrophysical Journal, 2014, 787, 15.	1.6	100
24	Fermi-LAT Observations of the Gamma-Ray Burst GRB 130427A. Science, 2014, 343, 42-47.	6.0	211
25	The First Pulse of the Extremely Bright GRB 130427A: A Test Lab for Synchrotron Shocks. Science, 2014, 343, 51-54.	6.0	55
26	Search for gamma-ray spectral lines with the Fermi Large Area Telescope and dark matter implications. Physical Review D, 2013, 88, .	1.6	175
27	CONSTRAINTS ON THE GALACTIC POPULATION OF TeV PULSAR WIND NEBULAE USING <i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS. Astrophysical Journal, 2013, 773, 77.	1.6	94
28	Introducing the CTA concept. Astroparticle Physics, 2013, 43, 3-18.	1.9	504
29	Geometry dependence of the light collection efficiency of BGO crystal scintillators read out by avalanche photo diodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 715, 105-111.	0.7	14
30	ASSOCIATING LONG-TERM \hat{I}^3 -RAY VARIABILITY WITH THE SUPERORBITAL PERIOD OF LS I +61 \hat{A}° 303. Astrophysical Journal Letters, 2013, 773, L35.	3.0	36
31	THE FIRST <i>FERMI</i> -LAT CATALOG OF SOURCES ABOVE 10 GeV. Astrophysical Journal, Supplement Series, 2013, 209, 34.	3.0	184
32	THE <i>FERMI</i> ALL-SKY VARIABILITY ANALYSIS: A LIST OF FLARING GAMMA-RAY SOURCES AND THE SEARCH FOR TRANSIENTS IN OUR GALAXY. Astrophysical Journal, 2013, 771, 57.	1.6	47
33	Schwarzschild-Couder telescope for the Cherenkov Telescope Array: development of the optical system. Proceedings of SPIE, 2013, , .	0.8	5
34	Fermi LAT search for dark matter in gamma-ray lines and the inclusive photon spectrum. Physical Review D, 2012, 86, .	1.6	175
35	Measurement of Separate Cosmic-Ray Electron and Positron Spectra with the Fermi Large Area Telescope. Physical Review Letters, 2012, 108, 011103.	2.9	445
36	Periodic Emission from the Gamma-Ray Binary 1FGL J1018.6 \hat{A}° 5856. Science, 2012, 335, 189-193.	6.0	74

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37	THE <i>FERMI</i> LARGE AREA TELESCOPE ON ORBIT: EVENT CLASSIFICATION, INSTRUMENT RESPONSE FUNCTIONS, AND CALIBRATION. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 4.	3.0	403
38	Limits on large extra dimensions based on observations of neutron stars with the Fermi-LAT. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 012-012.	1.9	3
39	GeV OBSERVATIONS OF STAR-FORMING GALAXIES WITH THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2012, 755, 164.	1.6	297
40	<i>FERMI</i> OBSERVATIONS OF $\hat{\gamma}$ -RAY EMISSION FROM THE MOON. <i>Astrophysical Journal</i> , 2012, 758, 140.	1.6	19
41	GAMMA-RAY OBSERVATIONS OF THE ORION MOLECULAR CLOUDS WITH THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2012, 756, 4.	1.6	37
42	SEARCH FOR GAMMA-RAY EMISSION FROM X-RAY-SELECTED SEYFERT GALAXIES WITH <i>FERMI</i> -LAT. <i>Astrophysical Journal</i> , 2012, 747, 104.	1.6	45
43	<i>FERMI</i> DETECTION OF $\hat{\gamma}$ -RAY EMISSION FROM THE M2 SOFT X-RAY FLARE ON 2010 JUNE 12. <i>Astrophysical Journal</i> , 2012, 745, 144.	1.6	60
44	A STATISTICAL APPROACH TO RECOGNIZING SOURCE CLASSES FOR UNASSOCIATED SOURCES IN THE FIRST <i>FERMI</i> -LAT CATALOG. <i>Astrophysical Journal</i> , 2012, 753, 83.	1.6	100
45	The cosmic-ray and gas content of the Cygnus region as measured in $\hat{\gamma}$ -rays by the <i>Fermi</i> Large Area Telescope. <i>Astronomy and Astrophysics</i> , 2012, 538, A71.	2.1	46
46	<i>FERMI</i> -LAT OBSERVATIONS OF THE DIFFUSE $\hat{\gamma}$ -RAY EMISSION: IMPLICATIONS FOR COSMIC RAYS AND THE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2012, 750, 3.	1.6	535
47	MULTI-WAVELENGTH OBSERVATIONS OF BLAZAR AO 0235+164 IN THE 2008-2009 FLARING STATE. <i>Astrophysical Journal</i> , 2012, 751, 159.	1.6	54
48	SEARCH FOR DARK MATTER SATELLITES USING <i>FERMI</i> -LAT. <i>Astrophysical Journal</i> , 2012, 747, 121.	1.6	130
49	Optimization of the collection efficiency of a hexagonal light collector using quadratic and cubic BÄzier curves. <i>Astroparticle Physics</i> , 2012, 38, 18-24.	1.9	9
50	Publisher's Note: Anisotropies in the diffuse gamma-ray background measured by the Fermi LAT [Phys. Rev. D85, 083007 (2012)]. <i>Physical Review D</i> , 2012, 85, .	1.6	14
51	TARGET: A multi-channel digitizer chip for very-high-energy gamma-ray telescopes. <i>Astroparticle Physics</i> , 2012, 36, 156-165.	1.9	42
52	CONSTRAINING THE HIGH-ENERGY EMISSION FROM GAMMA-RAY BURSTS WITH <i>FERMI</i> . <i>Astrophysical Journal</i> , 2012, 754, 121.	1.6	14
53	Anisotropies in the diffuse gamma-ray background measured by the Fermi LAT. <i>Physical Review D</i> , 2012, 85, .	1.6	87
54	<i>FERMI</i> LARGE AREA TELESCOPE STUDY OF COSMIC RAYS AND THE INTERSTELLAR MEDIUM IN NEARBY MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2012, 755, 22.	1.6	52

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55	<i>FERMI</i> LARGE AREA TELESCOPE SECOND SOURCE CATALOG. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 31.	3.0	1,079
56	<i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS OF THE SUPERNOVA REMNANT G8.7â€“0.1. <i>Astrophysical Journal</i> , 2012, 744, 80.	1.6	48
57	In-flight measurement of the absolute energy scale of the Fermi Large Area Telescope. <i>Astroparticle Physics</i> , 2012, 35, 346-353.	1.9	27
58	DETECTION OF HIGH-ENERGY GAMMA-RAY EMISSION DURING THE X-RAY FLARING ACTIVITY IN GRB 100728A. <i>Astrophysical Journal Letters</i> , 2011, 734, L27.	3.0	34
59	RADIO AND Î³-RAY CONSTRAINTS ON THE EMISSION GEOMETRY AND BIRTHPLACE OF PSR J2043+2740. <i>Astrophysical Journal</i> , 2011, 728, 77.	1.6	9
60	OBSERVATIONS OF THE YOUNG SUPERNOVA REMNANT RX J1713.7â€“3946 WITH THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2011, 734, 28.	1.6	209
61	Î³-RAY AND PARSEC-SCALE JET PROPERTIES OF A COMPLETE SAMPLE OF BLAZARS FROM THE MOJAVE PROGRAM. <i>Astrophysical Journal</i> , 2011, 742, 27.	1.6	101
62	DISCOVERY OF HIGH-ENERGY GAMMA-RAY EMISSION FROM THE BINARY SYSTEM PSR B1259â€“63/LS 2883 AROUND PERIASTRON WITH <i>FERMI</i>. <i>Astrophysical Journal Letters</i> , 2011, 736, L11.	3.0	130
63	<i>FERMI</i>-LAT SEARCH FOR PULSAR WIND NEBULAE AROUND GAMMA-RAY PULSARS. <i>Astrophysical Journal</i> , 2011, 726, 35.	1.6	60
64	THE RADIO/GAMMA-RAY CONNECTION IN ACTIVE GALACTIC NUCLEI IN THE ERA OF THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2011, 741, 30.	1.6	113
65	MULTI-WAVELENGTH OBSERVATIONS OF THE FLARING GAMMA-RAY BLAZAR 3C 66A IN 2008 OCTOBER. <i>Astrophysical Journal</i> , 2011, 726, 43.	1.6	70
66	CONSTRAINTS ON THE COSMIC-RAY DENSITY GRADIENT BEYOND THE SOLAR CIRCLE FROM <i>FERMI</i> Î³-RAY OBSERVATIONS OF THE THIRD GALACTIC QUADRANT. <i>Astrophysical Journal</i> , 2011, 726, 81.	1.6	96
67	<i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS OF TWO GAMMA-RAY EMISSION COMPONENTS FROM THE QUIESCENT SUN. <i>Astrophysical Journal</i> , 2011, 734, 116.	1.6	98
68	DETECTION OF A SPECTRAL BREAK IN THE EXTRA HARD COMPONENT OF GRB 090926A. <i>Astrophysical Journal</i> , 2011, 729, 114.	1.6	179
69	Simultaneous multi-wavelength campaign on PKSâˆ2005-489 in a high state. <i>Astronomy and Astrophysics</i> , 2011, 533, A110.	2.1	18
70	THE FIRST <i>FERMI</i> MULTIFREQUENCY CAMPAIGN ON BL LACERTAE: CHARACTERIZING THE LOW-ACTIVITY STATE OF THE EPONYMOUS BLAZAR. <i>Astrophysical Journal</i> , 2011, 730, 101.	1.6	52
71	<i>FERMI</i> <i>GAMMA-RAY SPACE TELESCOPE</i> OBSERVATIONS OF THE GAMMA-RAY OUTBURST FROM 3C454.3 IN NOVEMBER 2010. <i>Astrophysical Journal Letters</i> , 2011, 733, L26.	3.0	170
72	A Cocoon of Freshly Accelerated Cosmic Rays Detected by Fermi in the Cygnus Superbubble. <i>Science</i> , 2011, 334, 1103-1107.	6.0	217

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73	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011, 32, 193-316.	1.6	640
74	INSIGHTS INTO THE HIGH-ENERGY $\hat{\gamma}$ -RAY EMISSION OF MARKARIAN 501 FROM EXTENSIVE MULTIFREQUENCY OBSERVATIONS IN THE <i>FERMI</i> ERA. <i>Astrophysical Journal</i> , 2011, 727, 129.	1.6	185
75	<i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS OF MARKARIAN 421: THE MISSING PIECE OF ITS SPECTRAL ENERGY DISTRIBUTION. <i>Astrophysical Journal</i> , 2011, 736, 131.	1.6	261
76	Constraining Dark Matter Models from a Combined Analysis of Milky Way Satellites with the Fermi Large Area Telescope. <i>Physical Review Letters</i> , 2011, 107, 241302.	2.9	465
77	Gamma-Ray Flares from the Crab Nebula. <i>Science</i> , 2011, 331, 739-742.	6.0	297
78	Fermi Detection of a Luminous $\hat{\gamma}$ -Ray Pulsar in a Globular Cluster. <i>Science</i> , 2011, 334, 1107-1110.	6.0	65
79	THE SECOND CATALOG OF ACTIVE GALACTIC NUCLEI DETECTED BY THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal</i> , 2011, 743, 171.	1.6	525
80	<i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS OF GAMMA-RAY PULSARS PSR J1057â€“5226, J1709â€“4429, AND J1952+3252. <i>Astrophysical Journal</i> , 2010, 720, 26-40.	1.6	24
81	SEARCH FOR GAMMA-RAY EMISSION FROM MAGNETARS WITH THE <i>FERMI</i> LARGE AREA TELESCOPE. <i>Astrophysical Journal Letters</i> , 2010, 725, L73-L78.	3.0	42
82	<i>Fermi</i> Large Area Telescope observations of Local Group galaxies: detection of Mâ€™31 and search for Mâ€™33. <i>Astronomy and Astrophysics</i> , 2010, 523, L2.	2.1	94
83	<i>FERMI</i> LARGE AREA TELESCOPE VIEW OF THE CORE OF THE RADIO GALAXY CENTAURUS A. <i>Astrophysical Journal</i> , 2010, 719, 1433-1444.	1.6	141
84	<i>FERMI</i> -LAT DISCOVERY OF GeV GAMMA-RAY EMISSION FROM THE YOUNG SUPERNOVA REMNANT CASSIOPEIA A. <i>Astrophysical Journal Letters</i> , 2010, 710, L92-L97.	3.0	149
85	<i>SUZAKU</i> OBSERVATIONS OF LUMINOUS QUASARS: REVEALING THE NATURE OF HIGH-ENERGY BLAZAR EMISSION IN LOW-LEVEL ACTIVITY STATES. <i>Astrophysical Journal</i> , 2010, 716, 835-849.	1.6	23
86	<i>FERMI</i> -LAT STUDY OF GAMMA-RAY EMISSION IN THE DIRECTION OF SUPERNOVA REMNANT W49B. <i>Astrophysical Journal</i> , 2010, 722, 1303-1311.	1.6	89
87	<i>FERMI</i> LARGE AREA TELESCOPE OBSERVATION OF A GAMMA-RAY SOURCE AT THE POSITION OF ETA CARINAE. <i>Astrophysical Journal</i> , 2010, 723, 649-657.	1.6	67
88	<i>FERMI</i> OBSERVATIONS OF CASSIOPEIA AND CEPHEUS: DIFFUSE GAMMA-RAY EMISSION IN THE OUTER GALAXY. <i>Astrophysical Journal</i> , 2010, 710, 133-149.	1.6	172
89	<i>FERMI</i> OBSERVATIONS OF HIGH-ENERGY GAMMA-RAY EMISSION FROM GRB 090217A. <i>Astrophysical Journal Letters</i> , 2010, 717, L127-L132.	3.0	26
90	<i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS OF MISALIGNED ACTIVE GALACTIC NUCLEI. <i>Astrophysical Journal</i> , 2010, 720, 912-922.	1.6	148

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91	<i>FERMI</i> GAMMA-RAY SPACE TELESCOPE</i> OBSERVATIONS OF GAMMA-RAY OUTBURSTS FROM 3C 454.3 IN 2009 DECEMBER AND 2010 APRIL. <i>Astrophysical Journal</i> , 2010, 721, 1383-1396.	1.6	134
92	<i>FERMI</i> LARGE AREA TELESCOPE AND MULTI-WAVELENGTH OBSERVATIONS OF THE FLARING ACTIVITY OF PKS 1510-089 BETWEEN 2008 SEPTEMBER AND 2009 JUNE. <i>Astrophysical Journal</i> , 2010, 721, 1425-1447.	1.6	99
93	A change in the optical polarization associated with a $\hat{\Gamma}^3$ -ray flare in the blazar 3C 454.3. <i>Nature</i> , 2010, 463, 919-923.	13.7	269
94	Gamma-Ray Emission Concurrent with the Nova in the Symbiotic Binary V407 Cygni. <i>Science</i> , 2010, 329, 817-821.	6.0	165
95	<i>FERMI</i> LARGE AREA TELESCOPE CONSTRAINTS ON THE GAMMA-RAY OPACITY OF THE UNIVERSE. <i>Astrophysical Journal</i> , 2010, 723, 1082-1096.	1.6	106
96	Detection of the Small Magellanic Cloud in gamma-rays with $\hat{\Gamma}$ -ray LAT. <i>Astronomy and Astrophysics</i> , 2010, 523, A46.	2.1	70
97	Searches for cosmic-ray electron anisotropies with the Fermi Large Area Telescope. <i>Physical Review D</i> , 2010, 82, .	1.6	64
98	Fermi LAT observations of cosmic-ray electrons from 7 $\hat{\Gamma}$ GeV to 1 $\hat{\Gamma}$ TeV. <i>Physical Review D</i> , 2010, 82, .	1.6	276
99	Fermi Large Area Telescope Measurements of the Diffuse Gamma-Ray Emission at Intermediate Galactic Latitudes. <i>Physical Review Letters</i> , 2009, 103, 251101.	2.9	133
100	<i>FERMI</i> LAT OBSERVATION OF DIFFUSE GAMMA RAYS PRODUCED THROUGH INTERACTIONS BETWEEN LOCAL INTERSTELLAR MATTER AND HIGH-ENERGY COSMIC RAYS. <i>Astrophysical Journal</i> , 2009, 703, 1249-1256.	1.6	99
101	Fermi Observations of High-Energy Gamma-Ray Emission from GRB 080916C. <i>Science</i> , 2009, 323, 1688-1693.	6.0	523
102	Fermi large area telescope observations of the cosmic-ray induced $\hat{\Gamma}^3$ -ray emission of the Earth's atmosphere. <i>Physical Review D</i> , 2009, 80, .	1.6	57
103	<i>FERMI</i> LAT OBSERVATIONS OF LS I +61 $\hat{\Gamma}$ 303: FIRST DETECTION OF AN ORBITAL MODULATION IN GeV GAMMA RAYS. <i>Astrophysical Journal</i> , 2009, 701, L123-L128.	1.6	119
104	<i>FERMI</i> LAT DISCOVERY OF EXTENDED GAMMA-RAY EMISSION IN THE DIRECTION OF SUPERNOVA REMNANT W51C. <i>Astrophysical Journal</i> , 2009, 706, L1-L6.	1.6	216
105	The Fermi Gamma-Ray Space Telescope Discovers the Pulsar in the Young Galactic Supernova Remnant CTA 1. <i>Science</i> , 2008, 322, 1218-1221.	6.0	87