Katsuaki Asano

List of Publications by Year
in descending order

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80 papers	5,606 citations	147801 31 h-index	74163 75 g-index
80 all docs	80 docs citations	80 times ranked	3984 citing authors

#	Article	IF	Citations
1	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. Experimental Astronomy, 2011, 32, 193-316.	3.7	640
2	Fermi Observations of High-Energy Gamma-Ray Emission from GRB 080916C. Science, 2009, 323, 1688-1693.	12.6	523
3	Introducing the CTA concept. Astroparticle Physics, 2013, 43, 3-18.	4.3	504
4	A limit on the variation of the speed of light arising from quantum gravity effects. Nature, 2009, 462, 331-334.	27.8	454
5	FERMI OBSERVATIONS OF GRB 090902B: A DISTINCT SPECTRAL COMPONENT IN THE PROMPT AND DELAYED EMISSION. Astrophysical Journal, 2009, 706, L138-L144.	4.5	364
6	FERMIOBSERVATIONS OF GRB 090510: A SHORT-HARD GAMMA-RAY BURST WITH AN ADDITIONAL, HARD POWER-LAW COMPONENT FROM 10 keV TO GeV ENERGIES. Astrophysical Journal, 2010, 716, 1178-1190.	4.5	306
7	THE FIRST FERMI -LAT GAMMA-RAY BURST CATALOG. Astrophysical Journal, Supplement Series, 2013, 209, 11.	7.7	232
8	Fermi-LAT Observations of the Gamma-Ray Burst GRB 130427A. Science, 2014, 343, 42-47.	12.6	211
9	DETECTION OF A SPECTRAL BREAK IN THE EXTRA HARD COMPONENT OF GRB 090926A. Astrophysical Journal, 2011, 729, 114.	4.5	179
10	MINUTE-TIMESCALE >100 MeV Î³-RAY VARIABILITY DURING THE GIANT OUTBURST OF QUASAR 3C 279 OBSERVED BY FERMI-LAT IN 2015 JUNE. Astrophysical Journal Letters, 2016, 824, L20.	8.3	167
11	Observation of inverse Compton emission from a long Î³-ray burst. Nature, 2019, 575, 459-463.	27.8	146
12	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.	7.8	134
13	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.	7.8	116
14	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.	7.8	108
15	HADRONIC MODELS FOR THE EXTRA SPECTRAL COMPONENT IN THE SHORT GRB 090510. Astrophysical Journal, 2009, 705, L191-L194.	4.5	81
16	THREE-DIMENSIONAL SIMULATIONS OF MAGNETOHYDRODYNAMIC TURBULENCE BEHIND RELATIVISTIC SHOCK WAVES AND THEIR IMPLICATIONS FOR GAMMA-RAY BURSTS. Astrophysical Journal, 2011, 734, 77.	4.5	79
17	THE ROLE OF STOCHASTIC ACCELERATION IN THE PROMPT EMISSION OF GAMMA-RAY BURSTS: APPLICATION TO HADRONIC INJECTION. Astrophysical Journal, 2012, 746, 164.	4.5	77
18	MULTIWAVELENGTH OBSERVATIONS OF GRB 110731A: GeV EMISSION FROM ONSET TO AFTERGLOW. Astrophysical Journal, 2013, 763, 71.	4.5	75

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19	PROMPT HIGH-ENERGY EMISSION FROM PROTON-DOMINATED GAMMA-RAY BURSTS. Astrophysical Journal, 2009, 699, 953-957.	4.5	69
20	SLOW HEATING MODEL OF GAMMA-RAY BURST: PHOTON SPECTRUM AND DELAYED EMISSION. Astrophysical Journal, 2009, 705, 1714-1720.	4.5	63
21	Gamma-ray burst science in the era of the Cherenkov Telescope Array. Astroparticle Physics, 2013, 43, 252-275.	4.3	58
22	FERMIOBSERVATIONS OF HIGH-ENERGY GAMMA-RAY EMISSION FROM GRB 080825C. Astrophysical Journal, 2009, 707, 580-592.	4.5	56
23	FERMIDETECTION OF DELAYED GeV EMISSION FROM THE SHORT GAMMA-RAY BURST 081024B. Astrophysical Journal, 2010, 712, 558-564.	4.5	54
24	TIME-DEPENDENT MODELS FOR BLAZAR EMISSION WITH THE SECOND-ORDER FERMI ACCELERATION. Astrophysical Journal, 2014, 780, 64.	4.5	51
25	High energy neutrinos from dissipative photospheric models of gamma ray bursts. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 058-058.	5.4	43
26	Energy calibration of CALET onboard the International Space Station. Astroparticle Physics, 2017, 91, 1-10.	4.3	39
27	New Hard-TeV Extreme Blazars Detected with the MAGIC Telescopes*. Astrophysical Journal, Supplement Series, 2020, 247, 16.	7.7	39
28	SPECTRALâ€“TEMPORAL SIMULATIONS OF INTERNAL DISSIPATION MODELS OF GAMMA-RAY BURSTS. Astrophysical Journal, 2011, 739, 103.	4.5	38
29	PROMPT X-RAY AND OPTICAL EXCESS EMISSION DUE TO HADRONIC CASCADES IN GAMMA-RAY BURSTS. Astrophysical Journal Letters, 2010, 725, L121-L125.	8.3	37
30	THE MOST INTENSIVE GAMMA-RAY FLARE OF QUASAR 3C 279 WITH THE SECOND-ORDER FERMI ACCELERATION. Astrophysical Journal Letters, 2015, 808, L18.	8.3	36
31	DELAYED ONSET OF HIGH-ENERGY EMISSIONS IN LEPTONIC AND HADRONIC MODELS OF GAMMA-RAY BURSTS. Astrophysical Journal, 2012, 757, 115.	4.5	33
32	Cooling of Accelerated Nucleons and Neutrino Emission in Gammaâ€Ray Bursts. Astrophysical Journal, 2005, 623, 967-972.	4.5	28
33	Ultrahigh-energy cosmic ray production by turbulence in gamma-ray burst jets and cosmogenic neutrinos. Physical Review D, 2016, 94, .	4.7	26
34	On-orbit operations and offline data processing of CALET onboard the ISS. Astroparticle Physics, 2018, 100, 29-37.	4.3	26
35	Blazar Spectra with Hard-sphere-like Acceleration of Electrons. Astrophysical Journal, 2018, 861, 31.	4.5	24
36	Photon and neutrino spectra of time-dependent photospheric models of gamma-ray bursts. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 008-008.	5.4	23

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37	A UNIFIED MODEL FOR GRB PROMPT EMISSION FROM OPTICAL TO Î³-RAYS; EXPLORING GRBs AS STANDARD CANDLES. Astrophysical Journal Letters, 2016, 831, L8.	8.3	23
38	Testing emission models on the extreme blazar 2WHSPÂJ073326.7+515354 detected at very high energies with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2284-2299.	4.4	22
39	Synchrotron self-Compton emission by relativistic electrons under stochastic acceleration: application to Mrk 421 and Mrk 501. Monthly Notices of the Royal Astronomical Society, 2015, 449, 551-558.	4.4	21
40	On the Radio-emitting Particles of the Crab Nebula: Stochastic Acceleration Model. Astrophysical Journal, 2017, 841, 78.	4.5	21
41	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
42	CALET UPPER LIMITS ON X-RAY AND GAMMA-RAY COUNTERPARTS OF GW151226. Astrophysical Journal Letters, 2016, 829, L20.	8.3	20
43	Stochastic acceleration model of gamma-ray burst with decaying turbulence. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2242-2248.	4.4	19
44	Particle Energy Diffusion in Linear Magnetohydrodynamic Waves. Astrophysical Journal, 2019, 877, 71.	4.5	19
45	TIME-DEPENDENT STOCHASTIC ACCELERATION MODEL FOR FERMI BUBBLES. Astrophysical Journal, 2015, 814, 93.	4.5	18
46	Probing Particle Acceleration through Broadband Early Afterglow Emission of MAGIC Gamma-Ray Burst GRB 190114C. Astrophysical Journal, 2020, 905, 105.	4.5	18
47	Hadronic Origin of Prompt High-energy Emission of Gamma-ray Bursts Revisited: In the Case of a Limited Maximum Proton Energy. Astrophysical Journal, 2018, 857, 24.	4.5	17
48	Characteristics and Performance of the CALorimetric Electron Telescope (CALET) Calorimeter for Gamma-Ray Observations. Astrophysical Journal, Supplement Series, 2018, 238, 5.	7.7	16
49	Closure Relations of Gamma-Ray Bursts in High Energy Emission. Astrophysical Journal, 2019, 883, 134.	4.5	16
50	Temporal Evolution of the Gamma-ray Burst Afterglow Spectrum for an Observer: GeVâ€“TeV Synchrotron Self-Compton Light Curve. Astrophysical Journal, 2017, 844, 92.	4.5	16
51	HIGH-ENERGY NON-THERMAL AND THERMAL EMISSION FROM GRB 141207A DETECTED BY FERMI. Astrophysical Journal, 2016, 833, 139.	4.5	15
52	WIDE-BAND SPECTRA OF GIANT RADIO PULSES FROM THE CRAB PULSAR. Astrophysical Journal, 2016, 832, 212.	4.5	14
53	Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7â^'3946. Astrophysical Journal, 2017, 840, 74.	4.5	14
54	Broadband Photon Spectrum and its Radial Profile of Pulsar Wind Nebulae. Astrophysical Journal, 2017, 838, 142.	4.5	14

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55	Enhanced x-ray emission coinciding with giant radio pulses from the Crab Pulsar. Science, 2021, 372, 187-190.	12.6	13
56	Outflow and Emission Model of Pulsar Wind Nebulae with the Back Reaction of Particle Diffusion. Astrophysical Journal, 2018, 867, 141.	4.5	12
57	Long Gamma-Ray Burst Rate at Very High Redshift. Astrophysical Journal, 2019, 878, 128.	4.5	12
58	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017â€“2019. Astrophysical Journal, 2022, 927, 197.	4.5	11
59	Search for GeV Gamma-Ray Counterparts of Gravitational Wave Events by CALET. Astrophysical Journal, 2018, 863, 160.	4.5	10
60	Observation of the Gamma-Ray Binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS Telescopes. Astrophysical Journal, 2021, 923, 241.	4.5	10
61	COSMIC RAYS ABOVE THE 2ND KNEE FROM CLUSTERS OF GALAXIES. International Journal of Modern Physics D, 2009, 18, 1609-1614.	2.1	6
62	Long Gamma-Ray Burst Rate in the Binary Merger Progenitor Model. Astrophysical Journal Letters, 2017, 849, L29.	8.3	6
63	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.	0.4	6
64	Bright Gamma-Ray Flares Observed in GRB 131108A. Astrophysical Journal Letters, 2019, 886, L33.	8.3	6
65	Physical Origin of GeV Emission in the Early Phase of GRB 170405A: Clues from Emission Onsets with Multiwavelength Observations. Astrophysical Journal, 2020, 891, 106.	4.5	6
66	Particle Reacceleration by Turbulence and Radio Constraints on Multimessenger High-energy Emission from the Coma Cluster. Astrophysical Journal, 2021, 922, 190.	4.5	6
67	Late engine activity of GRBâ€‰161017A revealed by early optical observations. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	5
68	Synchrotron Gamma-Ray Emission Model of the Giant Outburst of Quasar 3C 279 in 2015 June: Fast Reconnection or Stochastic Acceleration with Electromagnetic Cascade?. Astrophysical Journal, 2020, 890, 56.	4.5	5
69	ELECTRIC FIELD SCREENING WITH BACKFLOW AT PULSAR POLAR CAP. Astrophysical Journal, 2016, 829, 12.	4.5	5
70	Avalanche photon cooling by induced Compton scattering: Higher-order Kompaneets equation. Progress of Theoretical and Experimental Physics, 2015, 2015, 073E01.	6.6	4
71	Subsequent Nonthermal Emission Due to the Kilonova Ejecta in GW170817. Astrophysical Journal, 2018, 852, 105.	4.5	4
72	Monte Carlo Study of Electron and Positron Cosmic-Ray Propagation with the CALET Spectrum. Astrophysical Journal, 2022, 926, 5.	4.5	4

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73	Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. Astrophysical Journal, 2022, 932, 129.	4.5	4
74	CALET Search for Electromagnetic Counterparts of Gravitational Waves during the LIGO/Virgo O3 Run. Astrophysical Journal, 2022, 933, 85.	4.5	3
75	CALET results after three years on the International Space Station. Journal of Physics: Conference Series, 2020, 1468, 012074.	0.4	2
76	First minute-scale variability in Fermi-LAT blazar observations during the giant outburst of 3C279 in 2015 June. AIP Conference Proceedings, 2017, , .	0.4	1
77	CALET on the International Space Station: the first three years of observations. Physica Scripta, 2020, 95, 074012.	2.5	1
78	GRB Prompt Emission with Anisotropic Electron Distribution. Astrophysical Journal, 2022, 933, 18.	4.5	1
79	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.	0.3	0
80	Turbulence Particle Acceleration and UHECR. Journal of Physics: Conference Series, 2020, 1468, 012090.	0.4	0