

En-Wei Liang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	DISCERNING THE PHYSICAL ORIGINS OF COSMOLOGICAL GAMMA-RAY BURSTS BASED ON MULTIPLE OBSERVATIONAL CRITERIA: THE CASES OF $z = 6.7$ GRB 080913, $z = 8.2$ GRB 090423, AND SOME SHORT/HARD GRBs. <i>Astrophysical Journal</i> , 2009, 703, 1696-1724.	4.5	307
2	Ultrahigh-energy photons up to 1.4 petaelectronvolts from 12 γ -ray Galactic sources. <i>Nature</i> , 2021, 594, 33-36.	27.8	262
3	<i>Swift</i> Observations of GRB 070110: An Extraordinary X-ray Afterglow Powered by the Central Engine. <i>Astrophysical Journal</i> , 2007, 665, 599-607.	4.5	237
4	CONSTRAINING GAMMA-RAY BURST INITIAL LORENTZ FACTOR WITH THE AFTERGLOW ONSET FEATURE AND DISCOVERY OF A TIGHT $L_{\text{iso}} - E_{\text{p,z}}$ CORRELATION. <i>Astrophysical Journal</i> , 2010, 725, 2209-2224.	4.5	191
5	No pulsed radio emission during a bursting phase of a Galactic magnetar. <i>Nature</i> , 2020, 587, 63-65.	27.8	101
6	Low-luminosity gamma-ray bursts as a distinct GRB population: a firmer case from multiple criteria constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 91-103.	4.4	94
7	Petaelectron volt gamma-ray emission from the Crab Nebula. <i>Science</i> , 2021, 373, 425-430.	12.6	86
8	COMPREHENSIVE STUDY OF THE X-RAY FLARES FROM GAMMA-RAY BURSTS OBSERVED BY SWIFT. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 20.	7.7	77
9	Observation of the Crab Nebula with LHAASO-KM2A γ a performance study *. <i>Chinese Physics C</i> , 2021, 45, 025002.	3.7	67
10	Gamma-Ray Burst Jet Breaks Revisited. <i>Astrophysical Journal</i> , 2018, 859, 160.	4.5	65
11	Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	50
12	Hyperaccreting Black Hole as Gamma-Ray Burst Central Engine. II. Temporal Evolution of the Central Engine Parameters during the Prompt and Afterglow Phases. <i>Astrophysical Journal</i> , 2017, 849, 47.	4.5	49
13	The α -amplitude parameter of gamma-ray bursts and its implications for GRB classification. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 1922-1929.	4.4	44
14	A TIGHT $L_{\text{iso}} - E_{\text{p,z}}$ CORRELATION OF GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2015, 813, 116.	4.5	44
15	Constraining the Type of Central Engine of GRBs with Swift Data. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 26.	7.7	43
16	The Origin of the Prompt Emission for Short GRB 170817A: Photosphere Emission or Synchrotron Emission?. <i>Astrophysical Journal</i> , 2018, 860, 72.	4.5	41
17	Search for a gamma-ray line feature from a group of nearby galaxy clusters with Fermi LAT Pass 8 data. <i>Physical Review D</i> , 2016, 93, .	4.7	34
18	Influence of accretion flow and magnetic charge on the observed shadows and rings of the Hayward black hole. <i>Physical Review D</i> , 2022, 105, .	4.7	31

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19	Discovery of the Ultrahigh-energy Gamma-Ray Source LHAASO J2108+5157. <i>Astrophysical Journal Letters</i> , 2021, 919, L22.	8.3	28
20	Lorentz Invariance Violation Limits from the Spectral-lag Transition of GRB 190114C. <i>Astrophysical Journal</i> , 2021, 906, 8.	4.5	27
21	Electromagnetic emission from newly born magnetar spin-down by gravitational-wave and magnetic dipole radiations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 4402-4407.	4.4	26
22	Multicolor Blackbody Emission in GRB 081221. <i>Astrophysical Journal</i> , 2018, 866, 13.	4.5	25
23	THE HISTORY OF GRB OUTFLOWS: EJECTION LORENTZ FACTOR AND RADIATION LOCATION OF X-RAY FLARES. <i>Astrophysical Journal</i> , 2016, 831, 111.	4.5	23
24	COSMIC EVOLUTION OF LONG GAMMA-RAY BURST LUMINOSITY. <i>Astrophysical Journal</i> , 2016, 820, 66.	4.5	22
25	Fast radio bursts from primordial black hole binaries coalescence. <i>Physical Review D</i> , 2018, 98, .	4.7	21
26	A Comprehensive Analysis of Fermi Gamma-Ray Burst Data. IV. Spectral Lag and its Relation to E_{p} Evolution. <i>Astrophysical Journal</i> , 2018, 865, 153.	4.5	20
27	A Pulsar Wind Nebula Embedded in the Kilonova AT 2017gfo Associated with GW170817/GRB 170817A. <i>Astrophysical Journal</i> , 2019, 885, 60.	4.5	20
28	GRB 210121A: A Typical Fireball Burst Detected by Two Small Missions. <i>Astrophysical Journal</i> , 2021, 922, 237.	4.5	20
29	GRB 211227A as a Peculiar Long Gamma-Ray Burst from a Compact Star Merger. <i>Astrophysical Journal Letters</i> , 2022, 931, L23.	8.3	20
30	Gamma-Ray Burst/Supernova Associations: Energy Partition and the Case of a Magnetar Central Engine. <i>Astrophysical Journal</i> , 2018, 862, 130.	4.5	19
31	Evidence for Gravitational Lensing of GRB 200716C. <i>Astrophysical Journal Letters</i> , 2021, 921, L29.	8.3	19
32	VERY BRIGHT PROMPT AND REVERSE SHOCK EMISSION OF GRB 140512A. <i>Astrophysical Journal</i> , 2016, 833, 100.	4.5	18
33	Constraining the Braking Index and Energy Partition of Magnetar Spindown with Swift/XRT Data. <i>Astrophysical Journal</i> , 2019, 871, 54.	4.5	17
34	Constraining the Jet Launching Time of GRB 170817A by Utilizing the Baryon Loading. <i>Astrophysical Journal Letters</i> , 2020, 901, L26.	8.3	17
35	A Channel to Form Fast-spinning Black Hole–Neutron Star Binary Mergers as Multimessenger Sources. <i>Astrophysical Journal</i> , 2022, 928, 163.	4.5	17
36	Characteristics of Two-episode Emission Patterns in Fermi Long Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2018, 862, 155.	4.5	15

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37	Revisiting the analysis of axion-like particles with the Fermi-LAT gamma-ray observation of NGC1275. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 821, 136611.	4.1	15
38	Jet Properties of Compact Steep-spectrum Sources and an Eddington-ratio-driven Unification Scheme of Jet Radiation in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2020, 899, 2.	4.5	15
39	GRB Observational Properties. <i>Space Science Reviews</i> , 2016, 202, 3-32.	8.1	14
40	Examining the High-energy Radiation Mechanisms of Knots and Hotspots in Active Galactic Nucleus Jets. <i>Astrophysical Journal</i> , 2018, 858, 27.	4.5	14
41	Nearby SN-associated GRB 190829A: Environment, Jet Structure, and VHE Gamma-Ray Afterglows. <i>Astrophysical Journal</i> , 2021, 917, 95.	4.5	14
42	Search for gamma-ray line features from Milky Way satellites with Fermi LAT Pass 8 data. <i>Physical Review D</i> , 2016, 94, .	4.7	13
43	The radiative efficiency of relativistic jet and wind: a case study of GRB 070110. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 2990-2994.	4.4	13
44	Magnetar as Central Engine of Gamma-Ray Bursts: Central Engineâ€“Jet Connection, Windâ€“Jet Energy Partition, and Origin of Some Ultra-long Bursts. <i>Astrophysical Journal</i> , 2019, 877, 153.	4.5	12
45	Is GRB 110715A the Progenitor of FRB 171209?. <i>Astrophysical Journal Letters</i> , 2020, 894, L22.	8.3	12
46	First Electromagnetic Pulse Associated with a Gravitational-wave Event: Profile, Duration, and Delay. <i>Astrophysical Journal</i> , 2018, 856, 90.	4.5	11
47	Simulation and photoelectron track reconstruction of soft X-ray polarimeter. <i>Nuclear Science and Techniques/Hewuli</i> , 2021, 32, 1.	3.4	11
48	Gamma-Ray Emission Produced by r-process Elements from Neutron Star Mergers. <i>Astrophysical Journal</i> , 2021, 919, 59.	4.5	11
49	GRB 140423A: A Case of Stellar Wind to Interstellar Medium Transition in the Afterglow. <i>Astrophysical Journal</i> , 2020, 900, 176.	4.5	11
50	Evaluating Optical Classification for Fermi Blazar Candidates with a Statistical Method Using Broadband Spectral Indices. <i>Astrophysical Journal</i> , 2017, 838, 34.	4.5	10
51	GRB 120729A: External Shock Origin for Both the Prompt Gamma-Ray Emission and Afterglow. <i>Astrophysical Journal</i> , 2018, 859, 163.	4.5	9
52	The Energy Sources of Double-peaked Superluminous Supernova PS1-12cil and Luminous Supernova SN 2012aa. <i>Astrophysical Journal</i> , 2020, 891, 98.	4.5	9
53	Evidence for Gravitational-wave-dominated Emission in the Central Engine of Short GRB 200219A. <i>Astrophysical Journal Letters</i> , 2020, 898, L6.	8.3	8
54	Diversity of $\hat{\gamma}$ -ray and radio variability of bright blazars and implications for $\hat{\gamma}$ -ray emission location. <i>Publication of the Astronomical Society of Japan</i> , 2020, 72, .	2.5	8

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55	Do Afterglow Synchrotron Radiations Follow the $L_{p,iso} \propto E_{p,z}^{-1} \dot{E}_0$ Relation of Gamma-Ray Bursts? The Cases of GRBs 190114C, 130427A, and 180720B. <i>Astrophysical Journal Letters</i> , 2020, 903, L26.	8.3	8
56	Steep Decay Phase Shaped by the Curvature Effect. I. Flux Evolution. <i>Astrophysical Journal</i> , 2017, 840, 95.	4.5	7
57	Spectral Lag for a Radiating Jet Shell with a High-energy Cutoff Radiation Spectrum. <i>Astrophysical Journal</i> , 2019, 882, 115.	4.5	7
58	The properties of prompt emission in short gamma-ray bursts with extended emission observed by Fermi/GBM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3622-3630.	4.4	7
59	Very-high-energy Emission and Cascade Radiation of Gamma-Ray Burst Afterglows: Homogeneous versus Wind External Media. <i>Astrophysical Journal</i> , 2021, 908, 225.	4.5	7
60	Detectability of "Merger-nova" Emission from a Long-lived Magnetar in Short Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2021, 912, 14.	4.5	7
61	Extended Emission of Short Gamma-Ray Bursts. , 2008, , .		6
62	GRB 110530A: PECULIAR BROAD BUMP AND DELAYED PLATEAU IN EARLY OPTICAL AFTERGLOWS. <i>Astrophysical Journal</i> , 2016, 831, 5.	4.5	6
63	Leptonic or Hadronic Emission: The X-Ray Radiation Mechanism of Large-scale Jet Knots in 3C 273. <i>Astrophysical Journal</i> , 2020, 893, 41.	4.5	6
64	Gamma-Ray Burst Spectrum with a Time-dependent Injection Rate of High-energy Electrons. <i>Astrophysical Journal Letters</i> , 2020, 893, L14.	8.3	6
65	Constraining the Nuclear Equation of State via Gravitational-wave Radiation of Short Gamma-Ray Burst Remnants. <i>Astrophysical Journal</i> , 2020, 890, 99.	4.5	6
66	The Study of Dust Formation of Four Type Icn Supernovae. <i>Astrophysical Journal</i> , 2021, 914, 125.	4.5	6
67	Comparison of the characteristics of magnetars born in death of massive stars and merger of compact objects with <i>swift</i> gamma-ray burst data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2505-2514.	4.4	6
68	Constraints on Optical Emission of FAST-detected FRB 20181130B with GWAC Synchronized Observations. <i>Astrophysical Journal</i> , 2021, 922, 78.	4.5	6
69	Jet Radiation Properties of 4C +49.22: from the Core to Large-scale Knots. <i>Astrophysical Journal</i> , 2018, 865, 100.	4.5	5
70	Early Optical Observations of GRB 150910A: Bright Jet Optical Afterglow and X-Ray Dipole Radiation from a Magnetar Central Engine. <i>Astrophysical Journal</i> , 2020, 896, 4.	4.5	5
71	Search for gamma-ray line signals around the black hole at the galactic center with DAMPE observation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	5.1	5
72	Radioactively Powered Gamma-Ray Transient Associated with a Kilonova from Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2022, 932, L7.	8.3	5

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73	THE PERIODICITY ANALYSIS OF THE LIGHT CURVE OF PKS 0735+178 AND IMPLICATIONS FOR ITS CENTRAL STRUCTURE. <i>International Journal of Modern Physics D</i> , 2004, 13, 771-782.	2.1	4
74	Spectral Variation of NLS1 Galaxy PMN J0948+0022. <i>Journal of Astrophysics and Astronomy</i> , 2014, 35, 457-461.	1.0	4
75	External Shock in a Multi-bursting Gamma-Ray Burst: Energy Injection Phase Induced by the Later Launched Ejecta. <i>Astrophysical Journal</i> , 2018, 852, 136.	4.5	4
76	On the gamma-ray signals from UCMH/mini-spike accompanying the DAMPE 1.4 TeV e^+e^- excess. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2486-2492.	4.4	4
77	Diffuse GeV emission in the field of HESS J1912+101 revisited. <i>Astronomy and Astrophysics</i> , 2022, 659, A83.	5.1	4
78	Constraints on ultracompact minihalos from the extragalactic gamma-ray background observation. <i>Physical Review D</i> , 2022, 105, .	4.7	4
79	GeV γ -Ray Emission of Compact Steep-spectrum Source 4C +39.23B. <i>Astrophysical Journal</i> , 2022, 927, 221.	4.5	4
80	Radiation Properties of GeV Narrow Line Seyfert 1 Galaxies. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 359-360.	0.0	3
81	Photometric and Spectroscopic Observations of GRB 140629A. <i>Astrophysical Journal</i> , 2018, 860, 8.	4.5	3
82	Photospheric Emission in Gamma-Ray Bursts. I. Variability. <i>Astrophysical Journal</i> , 2020, 899, 111.	4.5	3
83	Using the Optical-NIR Spectral Energy Distributions to Search for the Evidence of Dust Formation of 66 Supernovae. <i>Astrophysical Journal</i> , 2022, 928, 77.	4.5	3
84	GRB 190530A: From Precursor, Prompt Emission to Afterglow all Originated from Synchrotron Radiation. <i>Research in Astronomy and Astrophysics</i> , 2022, 22, 065002.	1.7	3
85	Early evolution of a newborn magnetar with strong precession motion in GRB 180620A. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 513, L89-L93.	3.3	3
86	DISCERNING EMISSION COMPONENTS IN EARLY AFTERGLOW DATA AND CONSTRAINING THE INITIAL LORENTZ FACTOR OF LONG GRB FIREBALL. <i>International Journal of Modern Physics D</i> , 2011, 20, 1955-1959.	2.1	2
87	BLAZAR ANTI-SEQUENCE OF SPECTRAL VARIABILITY FOR INDIVIDUAL TeV BLAZARS. <i>International Journal of Modern Physics Conference Series</i> , 2013, 23, 54-63.	0.7	2
88	CORRELATIONS OF DISK AND JET EMISSION DEVIATING FROM THE FUNDAMENTAL PLANE. <i>Astrophysical Journal</i> , 2015, 807, 94.	4.5	2
89	Lorentz Factor Evolution of an Expanding Jet Shell Observed in a Gamma-Ray Burst: Case Study of GRB 160625B. <i>Astrophysical Journal</i> , 2019, 883, 187.	4.5	2
90	Magnetar as Central Engine of Gamma-Ray Bursts: Quasi-universal Jet, Event Rate, and X-Ray Luminosity Function of Dipole Radiations. <i>Astrophysical Journal</i> , 2020, 894, 52.	4.5	2

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91	GRB 101225A as Orphan Dipole Radiation of a Newborn Magnetar with Precession Rotation in an Off-axis Gamma-ray Burst. <i>Astrophysical Journal Letters</i> , 2021, 921, L1.	8.3	2
92	Gravitational-wave evolution of newborn magnetars with different deformed structures. <i>Physical Review D</i> , 2022, 105, .	4.7	2
93	Statistical Properties of Gamma-Ray Burst Host Galaxies. <i>Journal of Astrophysics and Astronomy</i> , 2014, 35, 267-270.	1.0	1
94	Joint Spectral Analysis for Early Bright X-ray Flares of $\hat{\Gamma}^3$ -Ray Bursts with Swift BAT and XRT Data. <i>Journal of Astrophysics and Astronomy</i> , 2014, 35, 423-427.	1.0	1
95	A lower occurrence rate of bright X-ray flares in SN-GRBs than z $\hat{\Gamma}$ GRBs: evidence of energy partitions?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3605-3613.	4.4	1
96	Electron Spectrum for the Prompt Emission of Gamma-Ray Bursts in the Synchrotron Radiation Scenario. <i>Astrophysical Journal</i> , 2021, 911, 13.	4.5	1
97	Radiation properties of gamma-ray compact steep-spectrum sources. , 2019, , .		1
98	Late Afterglow Bump/Plateau around the Jet Break: Signature of a Free-to-shocked Wind Environment in Gamma-Ray Burst. <i>Astrophysical Journal</i> , 2021, 922, 22.	4.5	1
99	TeV and keV $\hat{\Gamma}$ MeV Excesses as Probes for Hadronic Process in BL Lacertae. <i>Astrophysical Journal Letters</i> , 2022, 925, L19.	8.3	1
100	Modeling the Multiband Light Curves of the Afterglows of Three Gamma-Ray Bursts and their Associated Supernovae. <i>Astrophysical Journal</i> , 2022, 931, 90.	4.5	1
101	Distinct Thermal Emission from GRB 190109A. <i>Astrophysical Journal</i> , 2022, 932, 69.	4.5	1
102	Is GRB 100418A a Cosmic Twin of GRB 060614?. <i>Journal of Astrophysics and Astronomy</i> , 2011, 32, 309-311.	1.0	0
103	Instrumental Selection Effect on the Bimodal $\langle T \rangle_{90}$ Distribution of Gamma-Ray Bursts. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 70-73.	0.0	0
104	Luminosity Distribution of Gamma-ray Burst Optical Afterglows. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 335-336.	0.0	0
105	Optical Afterglows as Probes for the Central Engine and Fireball of Gamma-Ray Bursts. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 263-264.	0.0	0
106	Statistical Properties of Gamma-Ray Burst Host Galaxies. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 190-190.	0.0	0
107	Spectral Lag Evolution among $\hat{\Gamma}^3$ -Ray Burst Pulses. <i>Journal of Astrophysics and Astronomy</i> , 2014, 35, 513-515.	1.0	0
108	Variability in the light curve of tidal disruption events. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 137-137.	0.0	0

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109	Doppler Boosting Effect on the Jet Radiation of Gamma-Ray Bursts and Active Galactic Nuclei. Proceedings of the International Astronomical Union, 2016, 12, 82-84.	0.0	0
110	Lorentz Factor Evolution Patterns within Relativistic Jets of GRBs and AGNs. Proceedings of the International Astronomical Union, 2016, 12, 78-81.	0.0	0
111	Extremely Bright GRB160625B with Short-Soft Precursor and long-hard extended emission: Hints for long-term evolution of the GRB Ejecta. Proceedings of the International Astronomical Union, 2016, 12, 74-77.	0.0	0
112	Gamma-ray Burst Optical Afterglow. , 2019, , .		0