Y Z Fan

List of Publications by Year
in descending order

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113 papers	4,458 citations	147801 31 h-index	110387 64 g-index
116 all docs	116 docs citations	116 times ranked	4498 citing authors

#	Article	IF	Citations
1	Spectroscopic identification of r-process nucleosynthesis in a double neutron-star merger. Nature, 2017, 551, 67-70.	27.8	715
2	Ultrahigh-energy photons up to 1.4 petaelectronvolts from 12 Î³-ray Galactic sources. Nature, 2021, 594, 33-36.	27.8	262
3	A possible macronova in the late afterglow of the longâ€“short burst GRB 060614. Nature Communications, 2015, 6, 7323.	12.8	224
4	Late internal-shock model for bright X-ray flares in gamma-ray burst afterglows and GRB 011121. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 364, L42-L46.	3.3	173
5	The Macronova in GRB 050709 and the GRB-macronova connection. Nature Communications, 2016, 7, 12898.	12.8	157
6	THE LIGHT CURVE OF THE MACRONOVA ASSOCIATED WITH THE LONGâ€“SHORT BURST GRB 060614. Astrophysical Journal Letters, 2015, 811, L22.	8.3	156
7	Possible Dark Matter Annihilation Signal in the AMS-02 Antiproton Data. Physical Review Letters, 2017, 118, 191101.	7.8	130
8	Measurement of the cosmic ray proton spectrum from 40 GeV to 100 TeV with the DAMPE satellite. Science Advances, 2019, 5, eaax3793.	10.3	121
9	Fast radio bursts as a cosmic probe?. Physical Review D, 2014, 89, .	4.7	118
10	GeV excess in the MilkyÂWay: The role of diffuse galactic gamma-ray emission templates. Physical Review D, 2015, 91, .	4.7	112
11	Short-living Supermassive Magnetar Model for the Early X-ray Flares Following Short GRBs. Research in Astronomy and Astrophysics, 2006, 6, 513-516.	1.1	98
12	Short GRBs: Opening Angles, Local Neutron Star Merger Rate, and Off-axis Events for GRB/GW Association. Astrophysical Journal, 2018, 857, 128.	4.5	92
13	Petaâ€“electron volt gamma-ray emission from the Crab Nebula. Science, 2021, 373, 425-430.	12.6	86
14	ELECTRON/POSITRON EXCESSES IN THE COSMIC RAY SPECTRUM AND POSSIBLE INTERPRETATIONS. International Journal of Modern Physics D, 2010, 19, 2011-2058.	2.1	85
15	Linearly Polarized X-Ray Flares following Short Gamma-Ray Bursts. Astrophysical Journal, 2005, 635, L129-L132.	4.5	77
16	The unpolarized macronova associated with the gravitational wave event GW 170817. Nature Astronomy, 2017, 1, 791-794.	10.1	75
17	Signature of gravitational wave radiation in afterglows of short gamma-ray bursts?. Physical Review D, 2013, 88, .	4.7	73
18	Extended Very-High-Energy Gamma-Ray Emission Surrounding PSR <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">J</mml:mi><mml:mn>0622</mml:mn><mml:mo>+</mml:mo><mml:mn>3749</mml:mn></mml:mrow></mml:n Observed by LHAASO-KM2A. Physical Review Letters, 2021, 126, 241103.	7.8	73

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19	Observation of the Crab Nebula with LHAASO-KM2A â˜ a performance study *. Chinese Physics C, 2021, 45, 025002.	3.7	67
20	PSR J0030+0451, GW170817, and the Nuclear Data: Joint Constraints on Equation of State and Bulk Properties of Neutron Stars. Astrophysical Journal, 2020, 892, 55.	4.5	65
21	Diffuse PeV neutrino emission from ultraluminous infrared galaxies. Physical Review D, 2013, 87, .	4.7	61
22	AMS-02 positron excess: New bounds on dark matter models and hint for primary electron spectrum hardening. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 250-255.	4.1	58
23	A kilonova associated with GRB 070809. Nature Astronomy, 2020, 4, 77-82.	10.1	55
24	Search for gamma-ray emission from eight dwarf spheroidal galaxy candidates discovered in year two of Dark Energy Survey with Fermi-LAT data. Physical Review D, 2016, 93, .	4.7	51
25	The GW170817/GRB 170817A/AT 2017gfo Association: Some Implications for Physics and Astrophysics. Astrophysical Journal Letters, 2017, 851, L18.	8.3	50
26	THE PHOTOSPHERIC RADIATION MODEL FOR THE PROMPT EMISSION OF GAMMA-RAY BURSTS: INTERPRETING FOUR OBSERVED CORRELATIONS. Astrophysical Journal Letters, 2012, 755, L6.	8.3	49
27	Is GW190425 Consistent with Being a Neutron Starâ€“Black Hole Merger?. Astrophysical Journal Letters, 2020, 891, L5.	8.3	43
28	A common origin of muon g-2 anomaly, Galaxy Center GeV excess and AMS-02 anti-proton excess in the NMSSM. Science Bulletin, 2021, 66, 2170-2174.	9.0	42
29	IMPLICATIONS OF THE TENTATIVE ASSOCIATION BETWEEN GW150914 AND A FERMI-GBM TRANSIENT. Astrophysical Journal Letters, 2016, 827, L16.	8.3	39
30	Search for a gamma-ray line feature from a group of nearby galaxy clusters with Fermi LAT Pass 8 data. Physical Review D, 2016, 93, .	4.7	34
31	GRB/GW ASSOCIATION: LONGâ€“SHORT GRB CANDIDATES, TIME LAG, MEASURING GRAVITATIONAL WAVE VELOCITY, AND TESTING EINSTEINâ€™S EQUIVALENCE PRINCIPLE. Astrophysical Journal, 2016, 827, 75.	4.5	32
32	Neutrinos from Choked Jets Accompanied by Type-II Supernovae. Astrophysical Journal, 2018, 856, 119.	4.5	32
33	An X-Ray Periodicity of â^¼1.8 hr in Narrow-line Seyfert 1 Galaxy Mrk 766. Astrophysical Journal, 2017, 849, 9.	4.5	31
34	MonteÂCarlo Bayesian search for the plausible source of the Telescope Array hotspot. Physical Review D, 2016, 93, .	4.7	30
35	Estimating the maximum gravitational mass of nonrotating neutron stars from the GW170817/GRB 170817A/AT2017gfo observation. Physical Review D, 2020, 101, .	4.7	30
36	New bounds on axionlike particles from the Fermi Large Area Telescope observation of PKS <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2155</mml:mn><mml:mo>â˜</mml:mo><mml:mn>304</mml:mn></mml:mrow></mml:math> Physical Review D, 2018, 97, .	4.7	28

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37	Two Transient X-Ray Quasi-periodic Oscillations Separated by an Intermediate State in 1H 0707-495. Astrophysical Journal, 2018, 853, 193.	4.5	28
38	Discovery of the Ultrahigh-energy Gamma-Ray Source LHAASO J2108+5157. Astrophysical Journal Letters, 2021, 919, L22.	8.3	28
39	Maximum mass cutoff in the neutron star mass distribution and the prospect of forming supramassive objects in the double neutron star mergers. Physical Review D, 2020, 102, .	4.7	25
40	GW170817: The Energy Extraction Process of the Off-axis Relativistic Outflow and the Constraint on the Equation of State of Neutron Stars. Astrophysical Journal, 2019, 877, 2.	4.5	22
41	Nearby source interpretation of differences among light and medium composition spectra in cosmic rays. Frontiers of Physics, 2021, 16, 1.	5.0	22
42	Constraints on the phase transition and nuclear symmetry parameters from PSR <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">J</mml:mi><mml:mn>0740</mml:mn><mml:mo>+</mml:mo><mml:mn>6620</mml:mn></mml:mrow></mml:m and multimessenger data of other neutron stars. Physical Review D, 2021, 104, .	4.7	22
43	Statistical interpretation of the spatial distribution of current 130 GeV Î³-ray line signal within the dark matter annihilation scenario. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 285-288.	4.1	21
44	â€˜Excessâ€™ of primary cosmic ray electrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 267-271.	4.1	21
45	Constraint on phase transition with the multimessenger data of neutron stars. Physical Review D, 2021, 103, .	4.7	21
46	Discovery of a New Gamma-Ray Source, LHAASO J0341+5258, with Emission up to 200 TeV. Astrophysical Journal Letters, 2021, 917, L4.	8.3	21
47	GW170817 and the Prospect of Forming Supramassive Remnants in Neutron Star Mergers. Astrophysical Journal, 2018, 858, 74.	4.5	20
48	Bayesian Nonparametric Inference of the Neutron Star Equation of State via a Neural Network. Astrophysical Journal, 2021, 919, 11.	4.5	20
49	Tight constraints on Einstein-dilation-Gauss-Bonnet gravity from GW190412 and GW190814. Physical Review D, 2021, 104, .	4.7	19
50	Exploring Lorentz Invariance Violation from Ultrahigh-Energy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> Rays Observed by LHAASO. Physical Review Letters, 2022, 128, 051102.	7.8	19
51	DISCOVERY OF Î³-RAY EMISSION FROM THE RADIO-INTERMEDIATE QUASAR III ZW 2: VIOLENT JET ACTIVITY WITH INTRADAY Î³-RAY VARIABILITY. Astrophysical Journal, Supplement Series, 2016, 226, 17.	7.7	18
52	Searching for spectral oscillations due to photon-axionlike particle conversion using the Fermi-LAT observations of bright supernova remnants. Physical Review D, 2018, 97, .	4.7	18
53	Fermi Large Area Telescope Detection of Gamma-Ray Emission from the Direction of Supernova iPTF14hls. Astrophysical Journal Letters, 2018, 854, L18.	8.3	18
54	The Equation of State and Some Key Parameters of Neutron Stars: Constraints from GW170817, the Nuclear Data, and the Low-mass X-Ray Binary Data. Astrophysical Journal, 2019, 885, 39.	4.5	18

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55	Construction and on-site performance of the LHAASO WFCTA camera. European Physical Journal C, 2021, 81, 1.	3.9	18
56	Implications on the origin of cosmic rays in light of 10 TV spectral softenings. Frontiers of Physics, 2020, 15, 1.	5.0	17
57	GRB 200716C: Evidence for a Short Burst Being Lensed. Astrophysical Journal Letters, 2021, 918, L34.	8.3	16
58	PAMELA/Fermi-LAT electron cosmic ray spectrum at âˆ¼100 GeV: Implication for dark matter annihilation signal in accordance with the 130 GeV Î³-ray line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 1-5.	4.1	15
59	Neutron Starâ€“Black Hole Coalescence Rate Inferred from Macronova Observations. Astrophysical Journal Letters, 2017, 844, L22.	8.3	15
60	Evaluating the Bulk Lorentz Factors of Outflow Material: Lessons Learned from the Extremely Energetic Outburst GRB 160625B. Astrophysical Journal, 2017, 836, 81.	4.5	15
61	Mirror dark matter and electronic recoil events in XENON1T. Nuclear Physics B, 2021, 965, 115369.	2.5	15
62	MODEL-DEPENDENT ESTIMATE ON THE CONNECTION BETWEEN FAST RADIO BURSTS AND ULTRA HIGH ENERGY COSMIC RAYS. Astrophysical Journal, 2014, 797, 33.	4.5	14
63	A Flexible Gaussian Process Reconstruction Method and the Mass Function of the Coalescing Binary Black Hole Systems. Astrophysical Journal, 2021, 917, 33.	4.5	14
64	Search for gamma-ray line features from MilkyÂWay satellites with Fermi LAT Pass 8 data. Physical Review D, 2016, 94, .	4.7	13
65	The Masses of Isolated Neutron Stars Inferred from the Gravitational Redshift Measurements. Astrophysical Journal, 2020, 888, 45.	4.5	13
66	How Special Is GRB 170817A?. Astrophysical Journal Letters, 2018, 853, L10.	8.3	12
67	Detection of GeV Gamma-Ray Emission in the Direction of HESS J1731-347 with Fermi-LAT. Astrophysical Journal, 2018, 853, 2.	4.5	12
68	Constraints on the box-shaped cosmic ray electron feature from dark matter annihilation with the AMS-02 and DAMPE data. Physical Review D, 2018, 98, .	4.7	12
69	Searching for the possible signal of the photon-axionlike particle oscillation in the combined GeV and TeV spectra of supernova remnants. Physical Review D, 2019, 100, .	4.7	12
70	A method for aligning the plastic scintillator detector on DAMPE. Research in Astronomy and Astrophysics, 2019, 19, 082.	1.7	11
71	Polarization evolution accompanying the very early sharp decline of gamma-ray burst X-ray afterglows. Monthly Notices of the Royal Astronomical Society, 2008, 387, 92-96.	4.4	10
72	3FGL J1924.8-1034: A spatially extended stable unidentified GeV source?. Physical Review D, 2017, 95, .	4.7	10

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73	Very old isolated compact objects as dark matter probes. Physical Review D, 2011, 84, .	4.7	9
74	GRB 131231A: IMPLICATIONS OF THE GeV EMISSION. Astrophysical Journal Letters, 2014, 787, L6.	8.3	9
75	Testing the dark matter subhalo hypothesis of the gamma-ray source 3FGL <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">J</mml:mi><mml:mn>2212.5</mml:mn><mml:mo form="prefix">+</mml:mo><mml:mn>0703</mml:mn></mml:mrow></mml:math>. Physical Review D, 2016, 94.	4.7	9
76	Limits on dark matter annihilation cross sections to gamma-ray lines with subhalo distributions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-body simulations and Fermi LAT data. Physical Review D, 2017, 95, .	4.7	9
77	Are GRB 090423 and Similar Bursts due to Superconducting Cosmic Strings?. Physical Review Letters, 2011, 106, 259001; discussion 259002.	7.8	8
78	Search for gamma-ray emission from the nearby dwarf spheroidal galaxies with 9Âyears of Fermi-LAT data. Physical Review D, 2018, 97, .	4.7	8
79	Constrains on the electric charges of the binary black holes with GWTC-1 events. European Physical Journal C, 2021, 81, 1.	3.9	8
80	DISCOVERY OFÎ³-RAY EMISSION FROM THE STRONGLY LOBE-DOMINATED QUASAR 3C 275.1. Astrophysical Journal, 2015, 808, 74.	4.5	7
81	HESS J1427â^'608: AN UNUSUAL HARD, UNBROKEN Î³-RAY SPECTRUM IN A VERY WIDE ENERGY RANGE. Astrophysical Journal, 2017, 835, 42.	4.5	7
82	GRB 111005A at z = 0.0133 and the Prospect of Establishing Longâ€"Short GRB/GW Association. Astrophysical Journal Letters, 2017, 851, L20.	8.3	7
83	Stringent constraints on the light boson model with supermassive black hole spin measurements. European Physical Journal Plus, 2020, 135, 1.	2.6	7
84	Black Hole Mass Function of Coalescing Neutron Star Black Hole Binary Systems: The Prospect of Reconstruction with the Gravitational Wave Observations. Astrophysical Journal, 2020, 892, 56.	4.5	7
85	Strong Post-merger Gravitational Radiation of GW170817-like Events. Astrophysical Journal, 2020, 904, 119.	4.5	7
86	Search for gamma-ray emission from the 12 nearby dwarf spheroidal galaxies with 12Âyears of Fermi-LAT data. Physical Review D, 2021, 104, .	4.7	7
87	Population Properties of Neutron Stars in the Coalescing Compact Binaries. Astrophysical Journal, 2021, 923, 97.	4.5	7
88	Study of the boxlike dark matter signals from dwarf spheroidal galaxies with Fermi-LAT data. Physical Review D, 2018, 97, .	4.7	6
89	Search for line-like signals in the all-sky Fermi-LAT data. Physical Review D, 2019, 99, .	4.7	6
90	The Circinus Galaxy Revisited with 10 yr Fermi-LAT Data. Astrophysical Journal, 2019, 885, 117.	4.5	6

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91	A Gamma-Ray Periodic Modulation in Globular Cluster 47 Tucanae. Astrophysical Journal Letters, 2020, 904, L29.	8.3	6
92	Quasinormal modes of the Kerr-Newman black hole: GW150914 and fundamental physics implications. Physical Review D, 2021, 104, .	4.7	6
93	Cosmic ray protons in the energy range 1016-1018.5eV: stochastic gyroresonant acceleration in hypernova shocks?. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1306-1310.	4.4	5
94	Possible Correlations between the Emission Properties of SGRBs and Their Offsets from the Host Galaxies. Astrophysical Journal, 2017, 844, 55.	4.5	5
95	Late Afterglow Emission Statistics: A Clear Link between GW170817 and Bright Short Gamma-Ray Bursts. Astrophysical Journal Letters, 2019, 876, L28.	8.3	5
96	Black Hole Gravitational Potential Enhanced Fallback Accretion onto the Nascent Lighter Compact Object: Tentative Evidence in the O3 Run Data of LIGO/Virgo. Astrophysical Journal, 2021, 922, 3.	4.5	5
97	A GeV-TeV particle component and the barrier of cosmic-ray sea in the Central Molecular Zone. Nature Communications, 2021, 12, 6169.	12.8	5
98	Prospects of calibrating afterglow modeling of short GRBs with gravitational wave inclination angle measurements and resolving the Hubble tension with a GW-GRB association event. Physical Review D, 2022, 106, .	4.7	5
99	Interpretations of the possible 42.7ÂGeVÎ³-ray line. Physical Review D, 2016, 94, .	4.7	4
100	Search for Line-like and Box-shaped Spectral Features from Nearby Galaxy Clusters with 11.4 Years of Fermi Large Area Telescope Data. Astrophysical Journal, 2021, 920, 1.	4.5	4
101	The redshift dependence of long gamma-ray burst intrinsic properties. Astrophysics and Space Science, 2014, 350, 691-699.	1.4	3
102	Revealing Physical Activity of GRB Central Engine with Macronova/Kilonova Data. Astrophysical Journal Letters, 2017, 835, L22.	8.3	3
103	Optimal gamma-ray selections for monochromatic line searches with DAMPE. Frontiers of Physics, 2022, 17, 1.	5.0	3
104	Explanation of nearby SNRs for primary electron excess and proton spectral bump. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136884.	4.1	3
105	Probing local cosmic rays using Fermi-LAT observations of a mid-latitude region in the third Galactic quadrant. Physical Review D, 2019, 99, .	4.7	2
106	PROJECTILE FRAGMENTATION OF ^{36,40}Ar INDUCED REACTIONS. International Journal of Modern Physics E, 2010, 19, 1076-1083.	1.0	1
107	Î³-Ray emission signals in the massive graviton mediated dark matter model. Nuclear Physics B, 2017, 916, 208-218.	2.5	1
108	A dynamic range extension system for LHAASO WCDA-1. Radiation Detection Technology and Methods, 2021, 5, 520-530.	0.8	1

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109	Line-of-shower trigger method to lower energy threshold for GRB detection using LHAASO-WCDA. Radiation Detection Technology and Methods, 2021, 5, 531.	0.8	1
110	Nuclear Physics Programs at HIRFL-CSRm: A Status Report. AIP Conference Proceedings, 2006, , .	0.4	0
111	PROJECTILE FRAGMENTATION OF ^{36,40}Ar INDUCED REACTIONS. International Journal of Modern Physics E, 2010, 19, 1815-1822.	1.0	0
112	Design and Testing of the Front-End Electronics of WCDA in LHAASO. IEEE Transactions on Nuclear Science, 2021, 68, 2257-2267.	2.0	0
113	Probing chromatic onsets of gravitational wave overtones. Physical Review D, 2022, 105, .	4.7	0