

# Xiang-Yu Wang

## List of Publications by Year in descending order

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55  
papers

1,390  
citations

304743

22  
h-index

345221

36  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified model for orphan and multiwavelength blazar flares. <i>Physical Review D</i> , 2022, 105, .	4.7	14
2	Constraining the Baryon Loading Factor of AGN Jets: Implication from the $\hat{\Gamma}^3$ -Ray Emission of the Coma Cluster. <i>Astrophysical Journal</i> , 2022, 927, 33.	4.5	2
3	Prospect of detecting X-ray haloes around middle-aged pulsars with eROSITA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 2884-2892.	4.4	3
4	A semi-analytical solution to the forwardâ€“reverse shock hydrodynamics of the gamma-ray burst afterglow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 4887-4898.	4.4	2
5	Fermi-LAT Detection of a GeV Afterglow from a Compact Stellar Merger. <i>Astrophysical Journal Letters</i> , 2022, 933, L22.	8.3	13
6	A Two-zone Blazar Radiation Model for â€œOrphanâ€“Neutrino Flares. <i>Astrophysical Journal</i> , 2021, 906, 51.	4.5	26
7	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
8	Measuring the Mass of Missing Baryons in the Halo of Andromeda Galaxy with Gamma-Ray Observations. <i>Astrophysical Journal</i> , 2021, 911, 58.	4.5	4
9	Revealing a peculiar supernova remnant G106.3+2.7 as a petaelectronvolt proton accelerator with X-ray observations. <i>Innovation(China)</i> , 2021, 2, 100118.	9.1	17
10	Origin of Galactic Sub-PeV Diffuse Gamma-Ray Emission: Constraints from High-energy Neutrino Observations. <i>Astrophysical Journal Letters</i> , 2021, 914, L7.	8.3	25
11	Acceleration of ultrahigh-energy cosmic rays in the early afterglows of gamma-ray bursts: Concurrence of jet dynamics and wave-particle interactions. <i>Physical Review D</i> , 2021, 104, .	4.7	2
12	Morphology of Gamma-Ray Halos around Middle-aged Pulsars: Influence of the Pulsar Proper Motion. <i>Astrophysical Journal</i> , 2021, 922, 130.	4.5	9
13	PeV Emission of the Crab Nebula: Constraints on the Proton Content in Pulsar Wind and Implications. <i>Astrophysical Journal</i> , 2021, 922, 221.	4.5	13
14	Fermi-LAT Detection of Extended Gamma-Ray Emission in the Vicinity of SNR G045.7-00.4: Evidence of Escaping Cosmic Rays Interacting with the Surrounding Molecular Clouds. <i>Astrophysical Journal</i> , 2021, 923, 106.	4.5	6
15	Neutrino emission from an off-axis jet driven by the tidal disruption event AT2019dsg. <i>Physical Review D</i> , 2020, 102, .	4.7	22
16	Constraints on the intergalactic magnetic field from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \hat{\Gamma}^3 \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -ray observations of GRB 190114C. <i>Physical Review D</i> , 2020, 101, .	4.7	11
17	Examining the Secondary Product Origin of Cosmic-Ray Positrons with the Latest AMS-02 Data. <i>Astrophysical Journal</i> , 2020, 895, 53.	4.5	4
18	Diffuse $\hat{\Gamma}^3$ -ray emission from the vicinity of young massive star cluster RSGC 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3405-3412.	4.4	11

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19	A Serendipitous Discovery of GeV Gamma-Ray Emission from Supernova 2004dj in a Survey of Nearby Star-forming Galaxies with Fermi-LAT. <i>Astrophysical Journal Letters</i> , 2020, 896, L33.	8.3	12
20	Discovery of a Spatially Extended GeV Source in the Vicinity of the TeV Halo Candidate 2HWC J1912+099: a TeV Halo or Supernova Remnant?. <i>Astrophysical Journal</i> , 2020, 889, 12.	4.5	12
21	GeV $\gamma$ -Ray Emission from M33 and Arp 299. <i>Astrophysical Journal</i> , 2020, 901, 158.	4.5	15
22	Magnetar Giant Flare Origin for GRB 200415A Inferred from a New Scaling Relation. <i>Astrophysical Journal Letters</i> , 2020, 903, L32.	8.3	15
23	Do Afterglow Synchrotron Radiations Follow the $L_{p,iso} \propto E_{p,z}^{-1} \Gamma_0^{-2}$ Relation of Gamma-Ray Bursts? The Cases of GRBs 190114C, 130427A, and 180720B. <i>Astrophysical Journal Letters</i> , 2020, 903, L26.	8.3	8
24	Exploring the Origin of Multiwavelength Activities of High-redshift Flat-spectrum Radio Quasar PKS 1502+106 during 2014–2018. <i>Astrophysical Journal</i> , 2019, 881, 125.	4.5	13
25	GeV Observations of the Extended Pulsar Wind Nebulae Constrain the Pulsar Interpretations of the Cosmic-Ray Positron Excess. <i>Astrophysical Journal</i> , 2019, 878, 104.	4.5	29
26	Evidence of AGN Activity in the Gamma-Ray Emission from Two Starburst Galaxies. <i>Astrophysical Journal</i> , 2019, 884, 91.	4.5	19
27	A Two-zone Model for Blazar Emission: Implications for TXS 0506+056 and the Neutrino Event IceCube-170922A. <i>Astrophysical Journal</i> , 2019, 886, 23.	4.5	58
28	On the Minimum Jet Power of TeV BL Lac Objects in the $p\bar{p}$ Model. <i>Astrophysical Journal</i> , 2019, 871, 81.	4.5	21
29	Constraining the Magnetic Field in the TeV Halo of Geminga with X-Ray Observations. <i>Astrophysical Journal</i> , 2019, 875, 149.	4.5	26
30	Comparative study of gamma-ray emission from molecular clouds and star-forming galaxies. <i>Astronomy and Astrophysics</i> , 2019, 621, A70.	5.1	6
31	Hadronuclear interpretation of a high-energy neutrino event coincident with a blazar flare. <i>Physical Review D</i> , 2019, 99, .	4.7	56
32	Gamma-Ray Production in the Extended Halo of the Galaxy and Possible Implications for the Origin of Galactic Cosmic Rays. <i>Astrophysical Journal</i> , 2019, 871, 40.	4.5	4
33	Interpreting the Relation between the Gamma-Ray and Infrared Luminosities of Star-forming Galaxies. <i>Astrophysical Journal</i> , 2019, 874, 173.	4.5	7
34	Synchrotron Self-Compton Emission from External Shocks as the Origin of the Sub-TeV Emission in GRB 180720B and GRB 190114C. <i>Astrophysical Journal</i> , 2019, 884, 117.	4.5	59
35	Detection of gamma-ray emission from the Coma cluster with Fermi Large Area Telescope and tentative evidence for an extended spatial structure. <i>Physical Review D</i> , 2018, 98, .	4.7	19
36	Can Winds Driven by Active Galactic Nuclei Account for the Extragalactic Gamma-Ray and Neutrino Backgrounds?. <i>Astrophysical Journal</i> , 2018, 858, 9.	4.5	28

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37	Constraining the redshift distribution of ultrahigh-energy cosmic-ray sources by isotropic gamma-ray background. AIP Conference Proceedings, 2017, , .	0.4	1
38	THE FIRST DETECTION OF GeV EMISSION FROM AN ULTRALUMINOUS INFRARED GALAXY: Arp 220 AS SEEN WITH THE FERMI LARGE AREA TELESCOPE. Astrophysical Journal Letters, 2016, 821, L20.	8.3	61
39	Indication of a local fog of subankle ultrahigh energy cosmic rays. Physical Review D, 2016, 94, .	4.7	24
40	Tidal disruption jets of supermassive black holes as hidden sources of cosmic rays: Explaining the IceCube TeV-PeV neutrinos. Physical Review D, 2016, 93, .	4.7	54
41	Testing the Equivalence Principle and Lorentz Invariance with PeV Neutrinos from Blazar Flares. Physical Review Letters, 2016, 116, 151101.	7.8	46
42	Enhanced Visible-active Performance of Bi2O3 Catalyst by ZnFe2O4 Combination. Journal of Advanced Oxidation Technologies, 2015, 18, .	0.5	0
43	Diffuse PeV neutrinos from EeV cosmic ray sources: Semirelativistic hypernova remnants in star-forming galaxies. Physical Review D, 2014, 89, .	4.7	62
44	DISCOVERY OF GeV EMISSION FROM THE DIRECTION OF THE LUMINOUS INFRARED GALAXY NGC 2146. Astrophysical Journal, 2014, 794, 26.	4.5	52
45	UV-light and visible-light photochromism of inorganic-organic multilayer films based on polyoxometalate and poly(acrylamide). Colloid and Polymer Science, 2014, 292, 2883-2889.	2.1	7
46	On the magnetization of gamma-ray burst blast waves. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3009-3016.	4.4	53
47	INTERPRETATION OF THE UNPRECEDENTEDLY LONG-LIVED HIGH-ENERGY EMISSION OF GRB 130427A. Astrophysical Journal Letters, 2013, 773, L20.	8.3	55
48	ON THE ORIGIN OF $> 10$ GeV PHOTONS IN GAMMA-RAY BURST AFTERGLOWS. Astrophysical Journal Letters, 2013, 771, L33.	8.3	46
49	DISCOVERY OF AN EXTRA HARD SPECTRAL COMPONENT IN THE HIGH-ENERGY AFTERGLOW EMISSION OF GRB 130427A. Astrophysical Journal Letters, 2013, 771, L13.	8.3	45
50	ENERGY SPECTRUM AND CHEMICAL COMPOSITION OF ULTRAHIGH ENERGY COSMIC RAYS FROM SEMI-RELATIVISTIC HYPERNOVAE. Astrophysical Journal, 2012, 746, 40.	4.5	22
51	MODELING THE BROADBAND EMISSION OF GRB 090902B. Astrophysical Journal, 2011, 730, 1.	4.5	58
52	Nearby low-luminosity gamma-ray bursts as the sources of ultra-high-energy cosmic rays revisited. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1382-1391.	4.4	31
53	KLEIN-NISHINA EFFECTS IN THE PROMPT AND EXTENDED HIGH-ENERGY GAMMA-RAY EMISSION OF GAMMA-RAY BURSTS. International Journal of Modern Physics D, 2011, 20, 2023-2027.	2.1	1
54	KLEIN-NISHINA EFFECTS ON THE HIGH-ENERGY AFTERGLOW EMISSION OF GAMMA-RAY BURSTS. Astrophysical Journal, 2010, 712, 1232-1240.	4.5	74

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55	High-energy cosmic rays and neutrinos from semirelativistic hypernovae. <i>Physical Review D</i> , 2007, 76, .	4.7	100