# Xiang-Yu Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

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| 55<br>papers | 1,390<br>citations | 304743<br>22<br>h-index | 345221<br>36<br>g-index |
| 55<br>all docs | 55<br>docs citations | 55<br>times ranked | 1705<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | High-energy cosmic rays and neutrinos from semirelativistic hypernovae. Physical Review D, 2007, 76, . | 4.7 | 100 |
| 2 | KLEIN-NISHINA EFFECTS ON THE HIGH-ENERGY AFTERGLOW EMISSION OF GAMMA-RAY BURSTS. Astrophysical Journal, 2010, 712, 1232-1240. | 4.5 | 74 |
| 3 | Diffuse PeV neutrinos from EeV cosmic ray sources: Semirelativistic hypernova remnants in star-forming galaxies. Physical Review D, 2014, 89, . | 4.7 | 62 |
| 4 | 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 |
| 5 | Synchrotron Self-Compton Emission from External Shocks as the Origin of the Sub-TeV Emission in GRB 180720B and GRB 190114C. Astrophysical Journal, 2019, 884, 117. | 4.5 | 59 |
| 6 | MODELING THE BROADBAND EMISSION OF GRB 090902B. Astrophysical Journal, 2011, 730, 1. | 4.5 | 58 |
| 7 | A Two-zone Model for Blazar Emission: Implications for TXS 0506+056 and the Neutrino Event IceCube-170922A. Astrophysical Journal, 2019, 886, 23. | 4.5 | 58 |
| 8 | Hadronuclear interpretation of a high-energy neutrino event coincident with a blazar flare. Physical Review D, 2019, 99, . | 4.7 | 56 |
| 9 | INTERPRETATION OF THE UNPRECEDENTEDLY LONG-LIVED HIGH-ENERGY EMISSION OF GRB 130427A. Astrophysical Journal Letters, 2013, 773, L20. | 8.3 | 55 |
| 10 | 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 |
| 11 | On the magnetization of gamma-ray burst blast waves. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3009-3016. | 4.4 | 53 |
| 12 | DISCOVERY OF GeV EMISSION FROM THE DIRECTION OF THE LUMINOUS INFRARED GALAXY NGC 2146. Astrophysical Journal, 2014, 794, 26. | 4.5 | 52 |
| 13 | ON THE ORIGIN OF > 10 GeV PHOTONS IN GAMMA-RAY BURST AFTERGLOWS. Astrophysical Journal Letters, 2013, 771, L33. | 8.3 | 46 |
| 14 | Testing the Equivalence Principle and Lorentz Invariance with PeV Neutrinos from Blazar Flares. Physical Review Letters, 2016, 116, 151101. | 7.8 | 46 |
| 15 | 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 |
| 16 | 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 |
| 17 | GeV Observations of the Extended Pulsar Wind Nebulae Constrain the Pulsar Interpretations of the Cosmic-Ray Positron Excess. Astrophysical Journal, 2019, 878, 104. | 4.5 | 29 |
| 18 | Can Winds Driven by Active Galactic Nuclei Account for the Extragalactic Gamma-Ray and Neutrino Backgrounds?. Astrophysical Journal, 2018, 858, 9. | 4.5 | 28 |

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| 19 | Constraining the Magnetic Field in the TeV Halo of Geminga with X-Ray Observations. Astrophysical Journal, 2019, 875, 149. | 4.5 | 26 |
| 20 | A Two-zone Blazar Radiation Model for â€œOrphanâ€•Neutrino Flares. Astrophysical Journal, 2021, 906, 51. | 4.5 | 26 |
| 21 | Origin of Galactic Sub-PeV Diffuse Gamma-Ray Emission: Constraints from High-energy Neutrino Observations. Astrophysical Journal Letters, 2021, 914, L7. | 8.3 | 25 |
| 22 | Indication of a local fog of subankle ultrahigh energy cosmic rays. Physical Review D, 2016, 94, . | 4.7 | 24 |
| 23 | ENERGY SPECTRUM AND CHEMICAL COMPOSITION OF ULTRAHIGH ENERGY COSMIC RAYS FROM SEMI-RELATIVISTIC HYPERNOVAE. Astrophysical Journal, 2012, 746, 40. | 4.5 | 22 |
| 24 | Neutrino emission from an off-axis jet driven by the tidal disruption event AT2019dsg. Physical Review D, 2020, 102, . | 4.7 | 22 |
| 25 | On the Minimum Jet Power of TeV BL Lac Objects in the pâ€“Î³ Model. Astrophysical Journal, 2019, 871, 81. | 4.5 | 21 |
| 26 | Detection of gamma-ray emission from the Coma cluster with Fermi Large Area Telescope and tentative evidence for an extended spatial structure. Physical Review D, 2018, 98, . | 4.7 | 19 |
| 27 | Evidence of AGN Activity in the Gamma-Ray Emission from Two Starburst Galaxies. Astrophysical Journal, 2019, 884, 91. | 4.5 | 19 |
| 28 | Revealing a peculiar supernova remnant G106.3+2.7 as a petaelectronvolt proton accelerator with X-ray observations. Innovation(China), 2021, 2, 100118. | 9.1 | 17 |
| 29 | GeV Î³-Ray Emission from M33 and Arp 299. Astrophysical Journal, 2020, 901, 158. | 4.5 | 15 |
| 30 | Magnetar Giant Flare Origin for GRB 200415A Inferred from a New Scaling Relation. Astrophysical Journal Letters, 2020, 903, L32. | 8.3 | 15 |
| 31 | Unified model for orphan and multiwavelength blazar flares. Physical Review D, 2022, 105, . | 4.7 | 14 |
| 32 | Exploring the Origin of Multiwavelength Activities of High-redshift Flat-spectrum Radio Quasar PKS 1502+106 during 2014â€“2018. Astrophysical Journal, 2019, 881, 125. | 4.5 | 13 |
| 33 | PeV Emission of the Crab Nebula: Constraints on the Proton Content in Pulsar Wind and Implications. Astrophysical Journal, 2021, 922, 221. | 4.5 | 13 |
| 34 | Fermi-LAT Detection of a GeV Afterglow from a Compact Stellar Merger. Astrophysical Journal Letters, 2022, 933, L22. | 8.3 | 13 |
| 35 | A Serendipitous Discovery of GeV Gamma-Ray Emission from Supernova 2004dj in a Survey of Nearby Star-forming Galaxies with Fermi-LAT. Astrophysical Journal Letters, 2020, 896, L33. | 8.3 | 12 |
| 36 | Discovery of a Spatially Extended GeV Source in the Vicinity of the TeV Halo Candidate 2HWC J1912+099: a TeV Halo or Supernova Remnant?. Astrophysical Journal, 2020, 889, 12. | 4.5 | 12 |

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| 37 | Constraints on the intergalactic magnetic field from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> -ray observations of GRB 190114C. Physical Review D, 2020, 101, . | 4.7 | 11 |
| 38 | Diffuse Î³-ray emission from the vicinity of young massive star cluster RSGC 1. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3405-3412. | 4.4 | 11 |
| 39 | Morphology of Gamma-Ray Halos around Middle-aged Pulsars: Influence of the Pulsar Proper Motion. Astrophysical Journal, 2021, 922, 130. | 4.5 | 9 |
| 40 | Do Afterglow Synchrotron Radiations Follow the L<sub>p,iso</sub>â€“E<sub>p,z</sub>â€“Î“<sub>0</sub> Relation of Gamma-Ray Bursts? The Cases of GRBs 190114C, 130427A, and 180720B. Astrophysical Journal Letters, 2020, 903, L26. | 8.3 | 8 |
| 41 | UV-light and visible-light photochromism of inorganicâ€“organic multilayer films based on polyoxometalate and poly(acrylamide). Colloid and Polymer Science, 2014, 292, 2883-2889. | 2.1 | 7 |
| 42 | Interpreting the Relation between the Gamma-Ray and Infrared Luminosities of Star-forming Galaxies. Astrophysical Journal, 2019, 874, 173. | 4.5 | 7 |
| 43 | Very-high-energy Emission and Cascade Radiation of Gamma-Ray Burst Afterglows: Homogeneous versus Wind External Media. Astrophysical Journal, 2021, 908, 225. | 4.5 | 7 |
| 44 | Comparative study of gamma-ray emission from molecular clouds and star-forming galaxies. Astronomy and Astrophysics, 2019, 621, A70. | 5.1 | 6 |
| 45 | 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. Astrophysical Journal, 2021, 923, 106. | 4.5 | 6 |
| 46 | Gamma-Ray Production in the Extended Halo of the Galaxy and Possible Implications for the Origin of Galactic Cosmic Rays. Astrophysical Journal, 2019, 871, 40. | 4.5 | 4 |
| 47 | Examining the Secondary Product Origin of Cosmic-Ray Positrons with the Latest AMS-02 Data. Astrophysical Journal, 2020, 895, 53. | 4.5 | 4 |
| 48 | Measuring the Mass of Missing Baryons in the Halo of Andromeda Galaxy with Gamma-Ray Observations. Astrophysical Journal, 2021, 911, 58. | 4.5 | 4 |
| 49 | Prospect of detecting X-ray haloes around middle-aged pulsars with eROSITA. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2884-2892. | 4.4 | 3 |
| 50 | Acceleration of ultrahigh-energy cosmic rays in the early afterglows of gamma-ray bursts: Concurrence of jet dynamics and wave-particle interactions. Physical Review D, 2021, 104, . | 4.7 | 2 |
| 51 | Constraining the Baryon Loading Factor of AGN Jets: Implication from the Î³-Ray Emission of the Coma Cluster. Astrophysical Journal, 2022, 927, 33. | 4.5 | 2 |
| 52 | A semi-analytical solution to the forwardâ€“reverse shock hydrodynamics of the gamma-ray burst afterglow. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4887-4898. | 4.4 | 2 |
| 53 | KLEINâ€“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 | Constraining the redshift distribution of ultrahighâ€“energyâ€“cosmicâ€“ray sources by isotropic gamma-ray background. AIP Conference Proceedings, 2017, , . | 0.4 | 1 |

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| 55 | Enhanced Visible-active Performance of Bi2O3 Catalyst by ZnFe2O4 Combination. Journal of Advanced Oxidation Technologies, 2015, 18, . | 0.5 | 0 |