

Bo-Bing Wu

List of Publications by Year in descending order

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57
papers

1,170
citations

430874

18
h-index

395702

33
g-index

57
all docs

57
docs citations

57
times ranked

1389
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview to the Hard X-ray Modulation Telescope (Insight-HXMT) Satellite. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	178
2	HXMT identification of a non-thermal X-ray burst from SGR J1935+2154 and with FRB 200428. <i>Nature Astronomy</i> , 2021, 5, 378-384.	10.1	152
3	The High Energy X-ray telescope (HE) onboard the Insight-HXMT astronomy satellite. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	110
4	Discovery of oscillations above 200 keV in a black hole X-ray binary with Insight-HXMT. <i>Nature Astronomy</i> , 2021, 5, 94-102.	10.1	71
5	Detailed polarization measurements of the prompt emission of five gamma-ray bursts. <i>Nature Astronomy</i> , 2019, 3, 258-264.	10.1	62
6	Insight-HXMT observations of the first binary neutron star merger GW170817. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	52
7	Insight-HXMT observations of jet-like corona in a black hole X-ray binary MAXI J1820+070. <i>Nature Communications</i> , 2021, 12, 1025.	12.8	48
8	Spectral Lags of Gamma-Ray Bursts From [ITAL]Ginga[/ITAL] and BATSE. <i>Astrophysical Journal</i> , 2000, 535, L29-L32.	4.5	43
9	GRB 990123: Evidence that the Gamma Rays Come from a Central Engine. <i>Astrophysical Journal</i> , 1999, 518, L73-L76.	4.5	37
10	Perspective of monochromatic gamma-ray line detection with the High Energy cosmic-Radiation Detection (HERD) facility onboard China's space station. <i>Astroparticle Physics</i> , 2016, 78, 35-42.	4.3	35
11	The POLAR gamma-ray burst polarization catalog. <i>Astronomy and Astrophysics</i> , 2020, 644, A124.	5.1	34
12	In-orbit Demonstration of X-Ray Pulsar Navigation with the <i>Insight-HXMT Satellite</i> . <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 1.	7.7	28
13	The Evolution of the Broadband Temporal Features Observed in the Black-hole Transient MAXI J1820+070 with Insight-HXMT. <i>Astrophysical Journal</i> , 2020, 896, 33.	4.5	27
14	Insight-HXMT Observations of 4U 1636-536: Corona Cooling Revealed with Single Short Type-I X-Ray Burst. <i>Astrophysical Journal Letters</i> , 2018, 864, L30.	8.3	26
15	A search for prompt γ -ray counterparts to fast radio bursts in the Insight-HXMT data. <i>Astronomy and Astrophysics</i> , 2020, 637, A69.	5.1	20
16	SVOM gamma ray monitor. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 40-42.	5.1	19
17	Expected performance of a hard X-ray polarimeter (POLAR) by Monte Carlo simulation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 552-559.	1.6	18
18	Physical origin of the non-physical spin evolution of MAXI J1820+070. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2168-2180.	4.4	18

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19	In-orbit instrument performance study and calibration for POLAR polarization measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 900, 8-24.	1.6	17
20	Quasi-periodic Oscillations of the X-Ray Burst from the Magnetar SGR J1935+2154 and Associated with the Fast Radio Burst FRB 200428. Astrophysical Journal, 2022, 931, 56.	4.5	15
21	The mini-GWAC optical follow-up of gravitational wave alerts – results from the O2 campaign and prospects for the upcoming O3 run. Research in Astronomy and Astrophysics, 2020, 20, 013.	1.7	11
22	A Variable Ionized Disk Wind in the Black Hole Candidate EXO 1846+031. Astrophysical Journal, 2021, 906, 11.	4.5	11
23	In-flight energy calibration of the space-borne Compton polarimeter POLAR. Astroparticle Physics, 2018, 103, 74-86.	4.3	10
24	Insight-HXMT observations of Swift J0243.6+6124: the evolution of RMS pulse fractions at super-Eddington luminosity. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5498-5506.	4.4	10
25	A crosstalk and non-uniformity correction method for the space-borne Compton polarimeter POLAR. Astroparticle Physics, 2016, 83, 6-12.	4.3	9
26	Timing analysis of 2S 1417-624 observed with NICER and Insight-HXMT. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	9
27	Search for gamma-ray bursts and gravitational wave electromagnetic counterparts with High Energy X-ray Telescope of <i>Insight</i>-HXMT. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3910-3920.	4.4	9
28	Switches between accretion structures during flares in 4U 1901+03. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5680-5692.	4.4	8
29	The 2018 failed outburst of H 1743 – 322: <i>Insight-HXMT</i>, NuSTAR</i>, and <i>NICER</i> views. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4541-4555.	4.4	8
30	Study of non-linear energy response of POLAR plastic scintillators to electrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 797, 94-100.	1.6	7
31	Influence of the Earth on the background and the sensitivity of the GRM and ECLAIRs instruments aboard the Chinese-French mission SVOM. Experimental Astronomy, 2012, 34, 705.	3.7	6
32	Localization of Gamma-ray Bursts using the Compton polarimeter POLAR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 988, 164866.	1.6	6
33	Onboard GRB trigger algorithms of SVOM-GRM. Research in Astronomy and Astrophysics, 2013, 13, 1381-1396.	1.7	5
34	Calibration study of the Gamma-Ray Monitor onboard the SVOM satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1003, 165301.	1.6	5
35	Gamma-ray polarimetry of the Crab pulsar observed by <i>POLAR</i>. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2827-2840.	4.4	5
36	Phase-resolved gamma-ray spectroscopy of the Crab pulsar observed by POLAR. Journal of High Energy Astrophysics, 2019, 24, 15-22.	6.7	4

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37	X-ray reprocessing in accreting pulsar GX 301-2 observed with Insight-HXMT. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2522-2530.	4.4	4
38	Femi-type acceleration of electron in $\hat{\Gamma}^3$ -ray burst fireball model. Science in China Series A: Mathematics, 2001, 44, 1608-1614.	0.5	3
39	A prototype study of the POLAR front-end electronics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 322-327.	1.6	3
40	Performance of a 3 mm $\hat{\text{A}}$ –3 mm silicon photomultiplier for use on the X-ray calibration system of the SVOM gamma ray monitor. Chinese Physics C, 2012, 36, 334-338.	3.7	3
41	POLAR Front-End Electronics: Concept, performance and qualification tests. , 2013, , .		3
42	Performance study of the gamma-ray bursts polarimeter POLAR. Proceedings of SPIE, 2016, , .	0.8	3
43	A low-latency pipeline for GRB light curve and spectrum using Fermi/GBM near real-time data. Research in Astronomy and Astrophysics, 2018, 18, 057.	1.7	3
44	QPOs and Orbital elements of X-ray binary 4U 0115+63 during the 2017 outburst observed by <i>Insight</i> -HXMT. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	3
45	A preliminary simulation study of influence of backplash on the plastic scintillator detector design in HERD experiment. Radiation Detection Technology and Methods, 2021, 5, 332-338.	0.8	3
46	Light collection of the POLAR detector. Science China: Physics, Mechanics and Astronomy, 2010, 53, 43-46.	5.1	2
47	In-orbit background simulation study of SVOM/GRM. Astrophysics and Space Science, 2020, 365, 1.	1.4	2
48	Interior temperature monitoring of NaI(Tl) crystal in space environment by pulse width measurement. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 272-276.	1.6	1
49	Calibration of gamma-ray burst polarimeter POLAR. , 2015, , .		1
50	Study of linearity of LYSO crystal for the high energy cosmic radiation detection (HERD) facility. Radiation Detection Technology and Methods, 2017, 1, 1.	0.8	1
51	Feasibility study of cosmic-ray components measurement by using a scintillating fiber tracker in space. Radiation Detection Technology and Methods, 2021, 5, 389-403.	0.8	1
52	Experimental verification of the HERD prototype at CERN SPS. Proceedings of SPIE, 2016, , .	0.8	1
53	Velocity variation of internal shock waves in gamma ray bursts: Observational properties. Science in China Series G: Physics, Mechanics and Astronomy, 2006, 49, 505-512.	0.2	0
54	A study of the active thermal control for the high energy detector on the HXMT. Chinese Physics C, 2011, 35, 638-641.	3.7	0

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55	Development of the Central Task Processing Unit for space-borne Gamma-Ray Burst polarimeter, POLAR. , 2013, , .		0
56	POLAR trigger “ Experimental verification. , 2015, , .		0
57	Observation data pre-processing and scientific data products generation of POLAR. Research in Astronomy and Astrophysics, 2019, 19, 091.	1.7	0