

# Bo-Bing Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Gamma-ray polarimetry of the Crab pulsar observed by <i>POLAR</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2827-2840.   | 4.4  | 5         |
| 2  | The 2018 failed outburst of H 1743-322: <i>Insight-HXMT</i> , <i>NuSTAR</i> , and <i>NICER</i> views. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4541-4555.   | 4.4  | 8         |
| 3  | Quasi-periodic Oscillations of the X-Ray Burst from the Magnetar SGR J1935+2154 and Associated with the Fast Radio Burst FRB 200428. <i>Astrophysical Journal</i> , 2022, 931, 56.   | 4.5  | 15        |
| 4  | Localization of Gamma-ray Bursts using the Compton polarimeter <i>POLAR</i> . <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 988, 164866.  | 1.6  | 6         |
| 5  | Discovery of oscillations above 200 keV in a black hole X-ray binary with <i>Insight-HXMT</i> . <i>Nature Astronomy</i> , 2021, 5, 94-102.   | 10.1 | 71        |
| 6  | <i>Insight-HXMT</i> 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        |
| 7  | <i>HXMT</i> 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       |
| 8  | A preliminary simulation study of influence of backplash on the plastic scintillator detector design in HERD experiment. <i>Radiation Detection Technology and Methods</i> , 2021, 5, 332-338.   | 0.8  | 3         |
| 9  | 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        |
| 10 | Feasibility study of cosmic-ray components measurement by using a scintillating fiber tracker in space. <i>Radiation Detection Technology and Methods</i> , 2021, 5, 389-403.  | 0.8  | 1         |
| 11 | Calibration study of the Gamma-Ray Monitor onboard the <i>SVOM</i> satellite. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1003, 165301. | 1.6  | 5         |
| 12 | Search for gamma-ray bursts and gravitational wave electromagnetic counterparts with High Energy X-ray Telescope of <i>Insight-HXMT</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3910-3920.                 | 4.4  | 9         |
| 13 | X-ray reprocessing in accreting pulsar GX 301-2 observed with <i>Insight-HXMT</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 2522-2530.   | 4.4  | 4         |
| 14 | A Variable Ionized Disk Wind in the Black Hole Candidate EXO 1846-031. <i>Astrophysical Journal</i> , 2021, 906, 11.   | 4.5  | 11        |
| 15 | In-orbit background simulation study of <i>SVOM/GRM</i> . <i>Astrophysics and Space Science</i> , 2020, 365, 1.  | 1.4  | 2         |
| 16 | <i>Insight-HXMT</i> observations of Swift J0243.6+6124: the evolution of RMS pulse fractions at super-Eddington luminosity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5498-5506.                               | 4.4  | 10        |
| 17 | Overview to the Hard X-ray Modulation Telescope ( <i>Insight-HXMT</i> ) Satellite. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.   | 5.1  | 178       |
| 18 | The mini-GWAC optical follow-up of gravitational wave alerts results from the O2 campaign and prospects for the upcoming O3 run. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 013.  | 1.7  | 11        |

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|----|--|------|-----------|
| 19 | The High Energy X-ray telescope (HE) onboard the Insight-HXMT astronomy satellite. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.   | 5.1  | 110       |
| 20 | Switches between accretion structures during flares in 4U 1901+03. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5680-5692.  | 4.4  | 8         |
| 21 | A search for prompt $\gamma$ -ray counterparts to fast radio bursts in the Insight-HXMT data. Astronomy and Astrophysics, 2020, 637, A69.  | 5.1  | 20        |
| 22 | The POLAR gamma-ray burst polarization catalog. Astronomy and Astrophysics, 2020, 644, A124.   | 5.1  | 34        |
| 23 | The Evolution of the Broadband Temporal Features Observed in the Black-hole Transient MAXI J1820+070 with Insight-HXMT. Astrophysical Journal, 2020, 896, 33.  | 4.5  | 27        |
| 24 | Observation data pre-processing and scientific data products generation of POLAR. Research in Astronomy and Astrophysics, 2019, 19, 091.   | 1.7  | 0         |
| 25 | In-orbit Demonstration of X-Ray Pulsar Navigation with the Insight-HXMT Satellite. Astrophysical Journal, Supplement Series, 2019, 244, 1.   | 7.7  | 28        |
| 26 | Phase-resolved gamma-ray spectroscopy of the Crab pulsar observed by POLAR. Journal of High Energy Astrophysics, 2019, 24, 15-22.  | 6.7  | 4         |
| 27 | Detailed polarization measurements of the prompt emission of five gamma-ray bursts. Nature Astronomy, 2019, 3, 258-264.  | 10.1 | 62        |
| 28 | Insight-HXMT observations of the first binary neutron star merger GW170817. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.  | 5.1  | 52        |
| 29 | Insight-HXMT Observations of 4U 1636-536: Corona Cooling Revealed with Single Short Type-I X-Ray Burst. Astrophysical Journal Letters, 2018, 864, L30.   | 8.3  | 26        |
| 30 | 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        |
| 31 | In-flight energy calibration of the space-borne Compton polarimeter POLAR. Astroparticle Physics, 2018, 103, 74-86.  | 4.3  | 10        |
| 32 | 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         |
| 33 | 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         |
| 34 | Performance study of the gamma-ray bursts polarimeter POLAR. Proceedings of SPIE, 2016, , .  | 0.8  | 3         |
| 35 | A crosstalk and non-uniformity correction method for the space-borne Compton polarimeter POLAR. Astroparticle Physics, 2016, 83, 6-12.   | 4.3  | 9         |
| 36 | Perspective of monochromatic gamma-ray line detection with the High Energy cosmic-Radiation Detection (HERD) facility onboard China's space station. Astroparticle Physics, 2016, 78, 35-42.   | 4.3  | 35        |

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|----|--|-----|-----------|
| 37 | Experimental verification of the HERD prototype at CERN SPS. Proceedings of SPIE, 2016, , .  | 0.8 | 1         |
| 38 | POLAR trigger " Experimental verification. , 2015, , .   |     | 0         |
| 39 | Calibration of gamma-ray burst polarimeter POLAR. , 2015, , .  |     | 1         |
| 40 | 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         |
| 41 | Onboard GRB trigger algorithms of SVOM-GRM. Research in Astronomy and Astrophysics, 2013, 13, 1381-1396.   | 1.7 | 5         |
| 42 | Development of the Central Task Processing Unit for space-borne Gamma-Ray Burst polarimeter, POLAR. , 2013, , .  |     | 0         |
| 43 | POLAR Front-End Electronics: Concept, performance and qualification tests. , 2013, , .   |     | 3         |
| 44 | Performance of a 3 mm $\times$ 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         |
| 45 | 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         |
| 46 | 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         |
| 47 | 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         |
| 48 | Light collection of the POLAR detector. Science China: Physics, Mechanics and Astronomy, 2010, 53, 43-46.  | 5.1 | 2         |
| 49 | SVOM gamma ray monitor. Science China: Physics, Mechanics and Astronomy, 2010, 53, 40-42.  | 5.1 | 19        |
| 50 | 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         |
| 51 | Expected performance of a hard X-ray polarimeter (POLAR) by Monte Carlo simulation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 552-559.                 | 1.6 | 18        |
| 52 | 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         |
| 53 | Fermi-type acceleration of electron in $\hat{\gamma}$ -ray burst fireball model. Science in China Series A: Mathematics, 2001, 44, 1608-1614.  | 0.5 | 3         |
| 54 | Spectral Lags of Gamma-Ray Bursts From [ITAL]Ginga[/ITAL] and BATSE. Astrophysical Journal, 2000, 535, L29-L32.  | 4.5 | 43        |

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|----|---|-----|-----------|
| 55 | GRB 990123: Evidence that the Gamma Rays Come from a Central Engine. <i>Astrophysical Journal</i> , 1999, 518, L73-L76.   | 4.5 | 37        |
| 56 | Timing analysis of 2S 1417-624 observed with NICER and Insight-HXMT. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .  | 4.4 | 9         |
| 57 | QPOs and Orbital elements of X-ray binary 4U 0115+63 during the 2017 outburst observed by <i>Insight</i> -HXMT. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , . | 4.4 | 3         |