

Yong Chen

List of Publications by Year in descending order

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74
papers

4,562
citations

471509

17
h-index

118850

62
g-index

74
all docs

74
docs citations

74
times ranked

8549
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	8.3	2,805
2	Statistics of X-ray observables for the cooling-core and non-cooling core galaxy clusters. <i>Astronomy and Astrophysics</i> , 2007, 466, 805-812.	5.1	213
3	The enhanced X-ray Timing and Polarimetry mission eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	178
4	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
5	The new emerging model for the structure of cooling cores in clusters of galaxies. <i>Astronomy and Astrophysics</i> , 2002, 382, 804-820.	5.1	153
6	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
7	The Low Energy X-ray telescope (LE) onboard the Insight-HXMT astronomy satellite. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	108
8	eXTP: Enhanced X-ray Timing and Polarization mission. <i>Proceedings of SPIE</i> , 2016, , .	0.8	106
9	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
10	Background model for the Low-Energy Telescope of Insight-HXMT. <i>Journal of High Energy Astrophysics</i> , 2020, 27, 24-32.	6.7	49
11	Einstein Probe: a lobster-eye telescope for monitoring the x-ray sky. , 2018, , .		45
12	X-RAY PHASE-RESOLVED SPECTROSCOPY OF PSRs B0531+21, B1509â€“58, AND B0540â€“69 WITH <i>RXTE</i> . <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 32.	7.7	37
13	X-ray spectroscopy of the cluster of galaxies PKS 0745-191 with XMM-Newton. <i>Astronomy and Astrophysics</i> , 2003, 407, 41-50.	5.1	28
14	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
15	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
16	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
17	Einstein Probe: Exploring the ever-changing X-ray Universe. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018, 48, 039502.	0.4	24
18	The insight-HXMT mission and its recent progresses. , 2018, , .		22

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19	THE SINGLE-DEGENERATE BINARY ORIGIN OF TYCHO'S SUPERNOVA AS TRACED BY THE STRIPPED ENVELOPE OF THE COMPANION. <i>Astrophysical Journal</i> , 2011, 732, 11.	4.5	18
20	The analysis of Abell 1835 using a deprojection technique. <i>Astronomy and Astrophysics</i> , 2004, 423, 65-73.	5.1	15
21	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
22	A gain control and stabilization technique for Silicon Photomultipliers in low-light-level applications around room temperature. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 695, 222-225.	1.6	14
23	Constant cyclotron line energy in Hercules X-1 - Joint Insight-HXMT and NuSTAR observations. <i>Journal of High Energy Astrophysics</i> , 2019, 23, 29-32.	6.7	13
24	A GOOD MASS PROXY FOR GALAXY CLUSTERS WITH XMM-NEWTON. <i>Astrophysical Journal</i> , 2013, 778, 124.	4.5	12
25	Geant4 simulation for the responses to X-rays and charged particles through the eXTP focusing mirrors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 963, 163702.	1.6	12
26	Estimate of the background and sensitivity of the follow-up X-ray telescope onboard Einstein Probe. <i>Astroparticle Physics</i> , 2022, 137, 102668.	4.3	12
27	A Multiwavelength Study of 1WGA J1346.5+6255: A New $\hat{\text{I}}^3$ Cas Analog Unrelated to the Background Supernova Remnant G309.2+00.6. <i>Astrophysical Journal</i> , 2007, 659, 407-418.	4.5	11
28	XMM-Newton studies of a massive cluster of galaxies: RXC J2228.6+2036. <i>Astronomy and Astrophysics</i> , 2008, 489, 1-9.	5.1	11
29	Insight-HXMT Observations of a Possible Fast Transition from the Jet- to Wind-dominated State during a Huge Flare of GRS 1915+105. <i>Astrophysical Journal Letters</i> , 2021, 906, L2.	8.3	11
30	A Variable Ionized Disk Wind in the Black Hole Candidate EXO 1846-031. <i>Astrophysical Journal</i> , 2021, 906, 11.	4.5	11
31	Insight-HXMT observation on 4U 1608-52: Evolving spectral properties of a bright type-I X-ray burst. <i>Journal of High Energy Astrophysics</i> , 2019, 24, 23-29.	6.7	10
32	Studies on the time response distribution of Insight-HXMT/LE. <i>Journal of High Energy Astrophysics</i> , 2019, 23, 23-28.	6.7	10
33	Comparison of simulated backgrounds with in-orbit observations for HE, ME, and LE onboard Insight-HXMT. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	10
34	Discovery of Delayed Spin-up Behavior Following Two Large Glitches in the Crab Pulsar, and the Statistics of Such Processes. <i>Astrophysical Journal</i> , 2020, 896, 55.	4.5	10
35	In-orbit Timing Calibration of the Insight-Hard X-Ray Modulation Telescope. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 14.	7.7	10
36	Low temperature testing and neutron irradiation of a swept charge device on board the HXMT satellite. <i>Chinese Physics C</i> , 2012, 36, 991-995.	3.7	9

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37	Design and optimization of the readout system for X-ray CCDs. Chinese Physics C, 2012, 36, 846-850.	3.7	9
38	The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , .	0.8	9
39	CDS circuit with BLA function for X-ray CCD applications. Electronics Letters, 2017, 53, 770-772.	1.0	8
40	A Fully Integrated 0.055% INL X-ray CCD Readout ASIC with Incremental $\Delta \Sigma$ ADC. IEEE Transactions on Nuclear Science, 2016, 63, 1733-1739.	2.0	7
41	Design of a CDS ASIC for Multireadout X-Ray CCDs With a 0.032% INL. IEEE Transactions on Nuclear Science, 2018, 65, 1307-1314.	2.0	7
42	Time Lags of Z Source GX 5-1. Astrophysics and Space Science, 2004, 293, 441-451.	1.4	6
43	Direct demodulation technique for rotating modulation collimator imaging. Astronomy and Astrophysics, 1998, 128, 363-368.	2.1	6
44	Improving the spatial resolution of XMM-Newton EPIC images by direct demodulation technique. Astronomy and Astrophysics, 2003, 402, 1151-1155.	5.1	5
45	A Deprojection Analysis of Abell 1650 with XMM-Newton. Research in Astronomy and Astrophysics, 2006, 6, 181-196.	1.1	5
46	Deprojected analysis of Abell 1835 observed with Chandra and compared with XMM-Newton. Astronomy and Astrophysics, 2012, 545, A100.	5.1	5
47	Thermal analysis and expected performance of the low energy instrument on board the HXMT satellite. Chinese Physics C, 2010, 34, 1812-1817.	3.7	4
48	Measurements of charge transfer efficiency in a proton-irradiated swept charge device. Chinese Physics C, 2014, 38, 066001.	3.7	4
49	UNBIASED CORRECTION RELATIONS FOR GALAXY CLUSTER PROPERTIES DERIVED FROM CHANDRA AND XMM-NEWTON. Astrophysical Journal, 2015, 799, 47.	4.5	4
50	A modified direct demodulation method applied to Insight-HXMT Galactic plane scanning survey. Journal of High Energy Astrophysics, 2020, 26, 11-20.	6.7	4
51	Performance of a focal plane detector for soft X-ray imaging spectroscopy based on back-illuminated sCMOS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1030, 166465.	1.6	4
52	A digital CDS technique and its performance testing. Chinese Physics C, 2015, 39, 076101.	3.7	3
53	Detector random time delay compensation method for X-ray pulsar observation. Optik, 2017, 149, 430-438.	2.9	3
54	XCR4C: A rad-hard full-function CDS ASIC for X-ray CCD Applications. , 2018, , .		3

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55	The influence of the Insight-HXMT/LE time response on timing analysis. Research in Astronomy and Astrophysics, 2021, 21, 005.	1.7	3
56	A preliminary design of the magnetic diverter on-board the eXTP observatory. Experimental Astronomy, 2021, 51, 475-492.	3.7	3
57	Proton irradiation effect on SCDs. Chinese Physics C, 2014, 38, 086004.	3.7	2
58	Stacking of micro-aperture arrays: A new strategy to construct smaller collimator for x rays. Review of Scientific Instruments, 2020, 91, 073109.	1.3	2
59	Simulation of the Silicon Drift Detector for the Spectroscopy Focusing Array onboard the eXTP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1025, 166105.	1.6	2
60	Deprojection technique for galaxy cluster considering the point spread function. Science China: Physics, Mechanics and Astronomy, 2010, 53, 183-186.	5.1	1
61	Preparation of highly uniform self-standing submicrometer polyimide films and an investigation of their antibulging capabilities. Journal of Applied Polymer Science, 2014, 131, .	2.6	1
62	An energy spectrum smoothing algorithm based on TCC-DEE. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	1
63	ULN1C: An Ultra-Low Noise Readout ASIC for X-Ray CCD Adopting $\hat{\Gamma}^{\hat{\Gamma}}$ -CDS Technique. , 2017, , .		1
64	A Study of $\Delta\sigma$ -CDS Algorithm for X-Ray CCD Applications. IEEE Transactions on Nuclear Science, 2019, 66, 597-608.	2.0	1
65	The observation of the South Atlantic Anomaly with the particle monitors onboard Insight-HXMT. Journal of High Energy Astrophysics, 2020, 26, 95-101.	6.7	1
66	Design and Characterizations of the Radiation-Hardened XCR4C ASIC for X-Ray CCDs for Space Astronomical Applications. IEEE Transactions on Nuclear Science, 2020, 67, 1175-1184.	2.0	1
67	Study on the Energy Limits of kHz QPOs in Sco X-1 with RXTE and Insight-HXMT Observations. Astrophysical Journal, 2021, 913, 119.	4.5	1
68	The Diffuse X-Ray Background of the Insight-HXMT/LE Telescope in the Galactic Plane. Astrophysical Journal, Supplement Series, 2022, 260, 42.	7.7	1
69	The effects of shock wave and quasi-traveling wave in the mechanical impact test. Science China Technological Sciences, 2010, 53, 2535-2541.	4.0	0
70	The $Y_{SZ,Planck}$ vs $Y_{SZ,XMM}$ scaling relation and its difference between cool-core and non-cool-core clusters. Research in Astronomy and Astrophysics, 2019, 19, 104.	1.7	0
71	SEL-Oriented Rad-Hard Strategy and Characterization of the XCR4C ASIC for X-ray CCD Applications. , 2019, , .		0
72	The readout design of Si-PIN detector in HXMT. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Corrections to "Design and Characterizations of the Radiation-Hardened XCR4C ASIC for X-Ray CCDs for Space Astronomical Applications" [Jun 20 1175-1184]. IEEE Transactions on Nuclear Science, 2022, 69, 192-192.	2.0	0
74	Towards a Characterization of Vulnerability of XCR4C ASIC on Heavy-Ion Induced Transient Events. , 2019, , .		0