

# Henric Krawczynski

## List of Publications by Year in descending order

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46  
papers

933  
citations

516710

16  
h-index

454955

30  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1328  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-Ray Emission from Extragalactic Jets. Annual Review of Astronomy and Astrophysics, 2006, 44, 463-506.	24.3	207
2	TESTS OF GENERAL RELATIVITY IN THE STRONG-GRAVITY REGIME BASED ON X-RAY SPECTROPOLARIMETRIC OBSERVATIONS OF BLACK HOLES IN X-RAY BINARIES. Astrophysical Journal, 2012, 754, 133.	4.5	83
3	Particle Acceleration in Relativistic Outflows. Space Science Reviews, 2012, 173, 309-339.	8.1	74
4	X-ray polarimetry with the Polarization Spectroscopic Telescope Array (PoSTAR). Astroparticle Physics, 2016, 75, 8-28.	4.3	42
5	POLARIZATION MODULATION FROM LENSED THIRRING PRECESSION IN X-RAY BINARIES. Astrophysical Journal, 2015, 807, 53.	4.5	36
6	The X-Ray Polarization of the Accretion Disk Coronae of Active Galactic Nuclei. Astrophysical Journal, 2017, 850, 14.	4.5	35
7	TeV blazars – observations and models. New Astronomy Reviews, 2004, 48, 367-373.	12.8	34
8	Optimization of the design of the hard X-ray polarimeter X-Calibur. Astroparticle Physics, 2013, 41, 63-72.	4.3	34
9	Search for anisotropic Lorentz invariance violation with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\hat{I}^3 \rangle$ -rays. Physical Review D, 2015, 92, .	4.7	31
10	Difficulties of quantitative tests of the Kerr-hypothesis with X-ray observations of mass accreting black holes. General Relativity and Gravitation, 2018, 50, 1.	2.0	31
11	A Gamma-Ray Burst Remnant in Our Galaxy: HESS J1303-631. Astrophysical Journal, 2006, 642, L153-L156.	4.5	29
12	Planck-scale constraints on anisotropic Lorentz and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">C \rangle P \rangle T \rangle$ invariance violations from optical polarization measurements. Physical Review D, 2017, 95, .	4.7	28
13	3-D Spatial Resolution of 350 $\mu\text{m}$ Pitch Pixelated CdZnTe Detectors for Imaging Applications. IEEE Transactions on Nuclear Science, 2013, 60, 9-15.	2.0	24
14	Investigation of the internal electric field in cadmium zinc telluride detectors using the Pockels effect and the analysis of charge transients. Journal of Applied Physics, 2010, 107, 023704.	2.5	22
15	Testing general relativity's no-hair theorem with x-ray observations of black holes. Physical Review D, 2016, 93, .	4.7	21
16	Design of the Telescope Truss and Gondola for the Balloon-Borne X-ray Polarimeter X-Calibur. Journal of Astronomical Instrumentation, 2017, 06, .	1.5	17
17	A SUZAKU X-RAY STUDY OF THE PARTICLE ACCELERATION PROCESSES IN THE RELATIVISTIC JET OF BLAZAR Mrk 421. Astrophysical Journal, 2010, 722, 358-366.	4.5	16
18	Characteristics and Performance of the CALorimetric Electron Telescope (CALET) Calorimeter for Gamma-Ray Observations. Astrophysical Journal, Supplement Series, 2018, 238, 5.	7.7	16

#	ARTICLE	IF	CITATIONS
19	Optimization of the design of X-Calibur for a long-duration balloon flight and results from a one-day test flight. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2018, 4, 1.	1.8	16
20	Active galactic nuclei – the physics of individual sources and the cosmic history of formation and evolution. <i>Frontiers of Physics</i> , 2013, 8, 609-629.	5.0	12
21	Evaluation of PET Imaging Resolution Using 350 $\mu\text{m}$ Pixelated CZT as a VP-PET Insert Detector. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 154-161.	2.0	12
22	Investigation of the limitations of the highly pixelated CdZnTe detector for PET applications. <i>Physics in Medicine and Biology</i> , 2012, 57, 7355-7380.	3.0	11
23	STUDIES OF THE ORIGIN OF HIGH-FREQUENCY QUASI-PERIODIC OSCILLATIONS OF MASS-ACCRETING BLACK HOLES IN X-RAY BINARIES WITH NEXT-GENERATION X-RAY TELESCOPES. <i>Astrophysical Journal</i> , 2016, 826, 203.	4.5	11
24	Search for GeV Gamma-Ray Counterparts of Gravitational Wave Events by CALET. <i>Astrophysical Journal</i> , 2018, 863, 160.	4.5	10
25	The Polarization of X-Rays from Warped Black Hole Accretion Disks. <i>Astrophysical Journal</i> , 2020, 889, 111.	4.5	9
26	Radiation Processes. , 0, , 39-80.		7
27	The Effect of Microlensing on the Observed X-Ray Energy Spectra of Gravitationally Lensed Quasars. <i>Astrophysical Journal</i> , 2019, 870, 125.	4.5	6
28	A polarized view of the hot and violent universe. <i>Experimental Astronomy</i> , 0, , 1.	3.7	6
29	Test of CZT detectors with different pixel pitches and thicknesses. , 2007, , .		4
30	The Iron Line Profile from Warped Black Hole Accretion Disks. <i>Astrophysical Journal</i> , 2021, 906, 28.	4.5	4
31	Generally Applicable Formalism for Modeling the Observable Signatures of Inflows, Outflows, and Moving Coronal Plasma Close to Kerr Black Holes. <i>Astrophysical Journal</i> , 2021, 906, 34.	4.5	4
32	Characterization of highly pixelated CZT detectors for sub-millimeter PET imaging. , 2009, , .		3
33	Compton imaging with thick Si and CZT detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 682, 79-84.	1.6	3
34	The Relative Importance of Faraday Rotation and QED Birefringence for the Linear Polarization of X-Rays from Mass-accreting Black Holes. <i>Astrophysical Journal</i> , 2021, 914, 51.	4.5	3
35	Fitting <i>XMM-Newton</i> observations of the AXP 1RXS J170849.0 $\hat{~}$ 400910 with four magnetar surface emission models, and predictions for X-ray polarization observations with IXPE. <i>Astronomy and Astrophysics</i> , 2022, 658, A161.	5.1	3
36	Fabrication and test of pixelated CZT detectors with different pixel pitches and thicknesses. , 2008, , .		2

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37	Study of Highly Pixelated CdZnTe Detector for PET Applications. Physics Procedia, 2012, 37, 1537-1545.	1.2	2
38	Coincidence measurement of 350&#x03BC;m pitch pixelated CdZnTe detector with LSO PET module. , 2010, , .		1
39	Prospect on intergalactic magnetic field measurements with gamma-ray instruments. Proceedings of the International Astronomical Union, 2012, 8, 459-470.	0.0	1
40	On the Calculation of the Fe K-alpha Line Emissivity of Black Hole Accretion Disks. Astrophysical Journal, 2017, 849, 66.	4.5	1
41	HEXID2: A Low-Power, Low-Noise Pixel Readout ASIC for Hyperspectral Energy-Resolving X-Ray Imaging Detectors. , 2017, , .		1
42	Particle Acceleration in Relativistic Outflows. Space Sciences Series of ISSI, 2012, , 309-339.	0.0	1
43	Design of a hard X-ray polarimeter: X-Calibur. , 2010, , .		0
44	Resolution improvement by interpolation of charge sharing event position in 350&#x00B5;m pitch pixelated CdZnTe detectors. , 2011, , .		0
45	The hard x-ray polarimeter X-Calibur. , 2013, , .		0
46	The X-ray scattering polarimeter X-Calibur. , 2014, , .		0