

# Peter Kretschmar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2317818/publications.pdf>

Version: 2024-02-01

140  
papers

4,941  
citations

109321

35  
h-index

102487

66  
g-index

141  
all docs

141  
docs citations

141  
times ranked

3047  
citing authors

#	ARTICLE	IF	CITATIONS
1	JEMAX: The X-ray monitor aboard INTEGRAL. <i>Astronomy and Astrophysics</i> , 2003, 411, L231-L238.	5.1	349
2	The quiescent intracluster medium in the core of the Perseus cluster. <i>Nature</i> , 2016, 535, 117-121.	27.8	348
3	The INTEGRAL Science Data Centre (ISDC). <i>Astronomy and Astrophysics</i> , 2003, 411, L53-L57.	5.1	283
4	Magnetic Fields of Accreting X-Ray Pulsars with the Rossi X-Ray Timing Explorer. <i>Astrophysical Journal</i> , 2002, 580, 394-412.	4.5	275
5	Spectral formation in accreting X-ray pulsars: bimodal variation of the cyclotron energy with luminosity. <i>Astronomy and Astrophysics</i> , 2012, 544, A123.	5.1	204
6	Cyclotron lines in highly magnetized neutron stars. <i>Astronomy and Astrophysics</i> , 2019, 622, A61.	5.1	150
7	INTEGRAL observations of the cosmic X-ray background in the 50-100 keV range via occultation by the Earth. <i>Astronomy and Astrophysics</i> , 2007, 467, 529-540.	5.1	147
8	OMC: An Optical Monitoring Camera for INTEGRAL. <i>Astronomy and Astrophysics</i> , 2003, 411, L261-L268.	5.1	130
9	A model for cyclotron resonance scattering features. <i>Astronomy and Astrophysics</i> , 2007, 472, 353-365.	5.1	113
10	High variability in Vela X-1: giant flares and off states. <i>Astronomy and Astrophysics</i> , 2008, 492, 511-525.	5.1	99
11	Towards a Unified View of Inhomogeneous Stellar Winds in Isolated Supergiant Stars and Supergiant High Mass X-Ray Binaries. <i>Space Science Reviews</i> , 2017, 212, 59-150.	8.1	86
12	Hitomi Constraints on the 3.5 keV Line in the Perseus Galaxy Cluster. <i>Astrophysical Journal Letters</i> , 2017, 837, L15.	8.3	84
13	Clumped stellar winds in supergiant high-mass X-ray binaries: X-ray variability and photoionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2820-2831.	4.4	75
14	Confirmation of two cyclotron lines in Vela X-1. <i>Astronomy and Astrophysics</i> , 2002, 395, 129-140.	5.1	71
15	The variable cyclotron line in GX 301-2. <i>Astronomy and Astrophysics</i> , 2004, 427, 975-986.	5.1	71
16	The INTEGRAL Galactic bulge monitoring program: the first 1.5 years. <i>Astronomy and Astrophysics</i> , 2007, 466, 595-618.	5.1	70
17	Crab: the standard x-ray candle with all (modern) x-ray satellites. , 2005, , .		67
18	Outburst of GX 304-1 monitored with INTEGRAL: positive correlation between the cyclotron line energy and flux. <i>Astronomy and Astrophysics</i> , 2012, 542, L28.	5.1	64

#	ARTICLE	IF	CITATIONS
19	Pulse Phase-Resolved Analysis of the High-Mass X-Ray Binary Centaurus X-3 over Two Binary Orbits. <i>Astrophysical Journal</i> , 2008, 675, 1487-1498.	4.5	64
20	X-ray variation statistics and wind clumping in Vela X-1. <i>Astronomy and Astrophysics</i> , 2010, 519, A37.	5.1	63
21	A0535+26 in the August/September 2005 outburst observed by RXTE and INTEGRAL. <i>Astronomy and Astrophysics</i> , 2007, 465, L21-L24.	5.1	62
22	RXTE Discovery of Multiple Cyclotron Lines during the 2004 December Outburst of V0332+53. <i>Astrophysical Journal</i> , 2005, 634, L97-L100.	4.5	61
23	2 Years of INTEGRAL Monitoring of GRS 1915+105. II. X-Ray Spectro-Temporal Analysis. <i>Astrophysical Journal</i> , 2008, 675, 1449-1458.	4.5	58
24	Accretion Disks and Coronae in the X-Ray Flashlight. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	53
25	The soft gamma-ray spectrum of A0535+26: Detection of an absorption feature at 110 keV by OSSE. <i>Astrophysical Journal</i> , 1995, 438, L25.	4.5	52
26	Multi-wavelength observations of the binary system PSR B1259-63/LSA2883 around the 2014 periastron passage. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1358-1370.	4.4	51
27	The ASTRO-H (Hitomi) x-ray astronomy satellite. <i>Proceedings of SPIE</i> , 2016, , .	0.8	47
28	Atomic data and spectral modeling constraints from high-resolution X-ray observations of the Perseus cluster with Hitomi. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	46
29	Simultaneous multi-wavelength observations of GRS 1915+105. <i>Astronomy and Astrophysics</i> , 2003, 409, L35-L39.	5.1	45
30	2 Years of INTEGRAL Monitoring of GRS 1915+105. I. Multiwavelength Coverage with INTEGRAL, RXTE, and the Ryle Radio Telescope. <i>Astrophysical Journal</i> , 2008, 675, 1436-1448.	4.5	44
31	Advances in Understanding High-Mass X-ray Binaries with INTEGRAL and Future Directions. <i>New Astronomy Reviews</i> , 2019, 86, 101546.	12.8	43
32	Spin period evolution of GX 1+4. <i>Astronomy and Astrophysics</i> , 2012, 537, A66.	5.1	42
33	First results from the INTEGRAL galactic plane scans. <i>Astronomy and Astrophysics</i> , 2003, 411, L349-L355.	5.1	41
34	A tale of two periods: determination of the orbital ephemeris of the super-Eddington pulsar NGC 7793 P13. <i>Astronomy and Astrophysics</i> , 2018, 616, A186.	5.1	39
35	X-RAY AND OPTICAL OBSERVATIONS OF A 0535+26. <i>Astrophysical Journal</i> , 2012, 754, 20.	4.5	38
36	Coupling hydrodynamics with comoving frame radiative transfer. <i>Astronomy and Astrophysics</i> , 2018, 610, A60.	5.1	37

#	ARTICLE	IF	CITATIONS
37	The pre-outburst flare of the Aâ€‰0535+26â€‰August/September 2005â€‰outburst. <i>Astronomy and Astrophysics</i> , 2008, 480, L17-L20.	5.1	36
38	Study of the many fluorescent lines and the absorption variability in GXâ€‰301â€‰2 with <i>XMM-Newton</i> . <i>Astronomy and Astrophysics</i> , 2011, 535, A9.	5.1	36
39	THE HARD X-RAY SHORTAGES PROMPTED BY THE CLOCK BURSTS IN GS 1826-238. <i>Astrophysical Journal</i> , 2014, 782, 40.	4.5	35
40	The clumpy absorber in the high-mass X-ray binary Vela X-1. <i>Astronomy and Astrophysics</i> , 2017, 608, A143.	5.1	34
41	JEMâ€‰X science analysis software. <i>Astronomy and Astrophysics</i> , 2003, 411, L257-L260.	5.1	34
42	Study of the cyclotron feature in MXB 0656-072. <i>Astronomy and Astrophysics</i> , 2006, 451, 267-272.	5.1	33
43	Cyclotron features in X-ray spectra of accreting pulsars. <i>Advances in Space Research</i> , 2006, 38, 2747-2751.	2.6	32
44	The accretion environment in Vela X-1 during a flaring period using <i>XMM-Newton</i> . <i>Astronomy and Astrophysics</i> , 2014, 563, A70.	5.1	31
45	A DOUBLE-PEAKED OUTBURST OF A 0535+26 OBSERVED WITH <i>INTEGRAL</i> , <i>RXTE</i> , AND <i>SUZAKU</i> . <i>Astrophysical Journal Letters</i> , 2013, 764, L23.	8.3	30
46	Short-period X-ray oscillations in super-soft novae and persistent super-soft sources. <i>Astronomy and Astrophysics</i> , 2015, 578, A39.	5.1	30
47	An Evolving Broad Iron Line from the First Galactic Ultraluminous X-Ray Pulsar Swift J0243.6+6124. <i>Astrophysical Journal</i> , 2019, 885, 18.	4.5	30
48	Analyzing X-ray pulsar profiles: geometry and beam pattern of Aâ€‰0535+26. <i>Astronomy and Astrophysics</i> , 2011, 526, A131.	5.1	29
49	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	29
50	The appearance of magnetospheric instability in flaring activity at the onset of X-ray outbursts in A0535+26. <i>Astronomy and Astrophysics</i> , 2008, 480, L21-L24.	5.1	28
51	RXâ€‰J0440.9â€‰+â€‰4431: a persistent Be/X-ray binary in outburst. <i>Astronomy and Astrophysics</i> , 2013, 553, A103.	5.1	28
52	INTEGRAL and Swift observations of EXO 2030+375 during a giant outburst. <i>Astronomy and Astrophysics</i> , 2007, 464, L45-L48.	5.1	28
53	<i>INTEGRAL</i> observations of the variability of OAO 1657-415. <i>Astronomy and Astrophysics</i> , 2008, 486, 293-302.	5.1	28
54	3â€‰200 keV Spectral States and Variability of the INTEGRAL Black Hole Binary IGR J17464â€‰3213. <i>Astrophysical Journal</i> , 2005, 622, 503-507.	4.5	27

#	ARTICLE	IF	CITATIONS
55	Hitomi observation of radio galaxy NGC 1275: The first X-ray microcalorimeter spectroscopy of Fe-K $\alpha$ line emission from an active galactic nucleus. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	27
56	LONG-TERM X-RAY MONITORING OF LS I +61 $^{\circ}$ 303: ANALYSIS OF SPECTRAL VARIABILITY AND FLARES. Astrophysical Journal, 2011, 733, 89.	4.5	26
57	X-ray bursts as a probe of the corona: the case of XRB 4U 1636 $^{\circ}$ 536. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2773-2778.	4.4	26
58	Multiple cyclotron line-forming regions in GX 301 $^{\circ}$ 2. Astronomy and Astrophysics, 2018, 620, A153.	5.1	26
59	THE HARD X-RAY BEHAVIOR OF AQL X-1 DURING TYPE-I BURSTS. Astrophysical Journal Letters, 2013, 777, L9.	8.3	25
60	Formation of phase lags at the cyclotron energies in the pulse profiles of magnetized, accreting neutron stars. Astronomy and Astrophysics, 2014, 564, L8.	5.1	25
61	INTEGRAL-RXTE observations of Cygnus X-1. Astronomy and Astrophysics, 2003, 411, L383-L388.	5.1	25
62	First INTEGRAL observations of Cygnus X-3. Astronomy and Astrophysics, 2003, 411, L405-L410.	5.1	23
63	GeV Detection of HESS J0632+057. Astrophysical Journal, 2017, 846, 169.	4.5	22
64	Detection of polarized gamma-ray emission from the Crab nebula with the Hitomi Soft Gamma-ray Detector. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	21
65	Revisiting the archetypical wind accretor Vela X-1 in depth. Astronomy and Astrophysics, 2021, 652, A95.	5.1	21
66	The accretion powered spin-up of GRO J1750 $^{\circ}$ 27. Monthly Notices of the Royal Astronomical Society, 2009, 393, 419-428.	4.4	20
67	Looking at A $^{\circ}$ 0535+26 at low luminosities with <i>NuSTAR</i> . Astronomy and Astrophysics, 2017, 608, A105.	5.1	20
68	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
69	X-Ray Reprocessing: Through the Eclipse Spectra of High-mass X-Ray Binaries with XMM-Newton. Astrophysical Journal, Supplement Series, 2019, 243, 29.	7.7	19
70	On the cyclotron line in Cepheus X-4. Astronomy and Astrophysics, 2007, 470, 1065-1070.	5.1	19
71	The High-Energy Emission of GRO J1655 $^{\circ}$ 40 As Revealed with <i>INTEGRAL</i> Spectroscopy of the 2005 Outburst. Astrophysical Journal, 2007, 669, 534-545.	4.5	19
72	HILIGT, upper limit servers $\hat{=}$ Overview. Astronomy and Computing, 2022, 38, 100531.	1.7	19

#	ARTICLE	IF	CITATIONS
73	A STATE-DEPENDENT INFLUENCE OF TYPE I BURSTS ON THE ACCRETION IN 4U 1608-52?. <i>Astrophysical Journal Letters</i> , 2014, 791, L39.	8.3	18
74	Possible hard X-ray shortages in bursts from KS 1731-260 and 4U 1705-44. <i>Astronomy and Astrophysics</i> , 2014, 564, A20.	5.1	17
75	INTEGRAL reloaded: Spacecraft, instruments and ground system. <i>New Astronomy Reviews</i> , 2021, 93, 101629.	12.8	17
76	INTEGRAL observations of the PSR B1259-63/SS2883 system after the 2004 periastron passage. <i>Astronomy and Astrophysics</i> , 2004, 426, L33-L36.	5.1	17
77	DIAGNOSING THE BURST INFLUENCE ON ACCRETION IN THE CLOCKED BURSTER GS 1826-238. <i>Astrophysical Journal</i> , 2015, 806, 89.	4.5	16
78	INTEGRAL long-term monitoring of the supergiant fast X-ray transient XTE J1739-302. <i>Astronomy and Astrophysics</i> , 2008, 489, 669-676.	5.1	16
79	Probing large-scale wind structures in Vela X using off-states with INTEGRAL. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1299-1303.	4.4	14
80	Evidence for an evolving cyclotron line energy in 4U 1538+522. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2745-2761.	4.4	14
81	The First NuSTAR Observation of 4U 1538+522: Updated Orbital Ephemeris and a Strengthened Case for an Evolving Cyclotron Line Energy. <i>Astrophysical Journal</i> , 2019, 873, 62.	4.5	14
82	Studying the accretion geometry of EXO 2030+375 at luminosities close to the propeller regime. <i>Astronomy and Astrophysics</i> , 2017, 606, A89.	5.1	13
83	Long-term pulse period evolution of the ultra-luminous X-ray pulsar NGC 7793 P13. <i>Astronomy and Astrophysics</i> , 2021, 651, A75.	5.1	13
84	High-resolution X-ray spectroscopy of the stellar wind in Vela X-1 during a flare. <i>Astronomy and Astrophysics</i> , 2020, 641, A144.	5.1	13
85	A large spin-up rate measured with INTEGRAL in the high mass X-ray binary pulsar SAX J2103.5+4545. <i>Astronomy and Astrophysics</i> , 2005, 440, 1033-1039.	5.1	13
86	Timing and Spectroscopy of Accreting X-ray Pulsars: the State of Cyclotron Line Studies. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	12
87	JEM-X inflight performance. <i>Astronomy and Astrophysics</i> , 2003, 411, L243-L251.	5.1	12
88	Quasi-periodic flares in EXO 2030+375 observed with INTEGRAL. <i>Astronomy and Astrophysics</i> , 2011, 536, L8.	5.1	11
89	X-Ray Pulsar XTE J1858+034: Discovery of the Cyclotron Line and the Revised Optical Identification. <i>Astrophysical Journal</i> , 2021, 909, 154.	4.5	11
90	The RapidXMM upper limit server: X-ray aperture photometry of the XMM-Newton archival observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4265-4284.	4.4	10

#	ARTICLE	IF	CITATIONS
91	<i>Suzaku</i> observations of the 2013 outburst of KS 1947+300. <i>Astronomy and Astrophysics</i> , 2016, 591, A65.	5.1	9
92	Accreting on the Edge: A Luminosity-dependent Cyclotron Line in the Be/X-Ray Binary 2S 1553-542 Accompanied by Accretion Regimes Transition. <i>Astrophysical Journal</i> , 2022, 927, 194.	4.5	9
93	The 2008 outburst of IGR J17473-2721: evidence for a disk corona?. <i>Astronomy and Astrophysics</i> , 2011, 534, A101.	5.1	8
94	Long-term optical and X-ray variability of the Be/X-ray binary H 1145-619: Discovery of an ongoing retrograde density wave. <i>Astronomy and Astrophysics</i> , 2017, 607, A52.	5.1	8
95	Search for thermal X-ray features from the Crab nebula with the Hitomi soft X-ray spectrometer. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	8
96	Hitomi X-ray observation of the pulsar wind nebula G21.5 <sup>+</sup> 0.9. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	8
97	THE GOODNESS OF SIMULTANEOUS FITS IN ISIS. <i>Acta Polytechnica</i> , 2016, 56, 41.	0.6	8
98	Continuum, cyclotron line, and absorption variability in the high-mass X-ray binary Vela X-1. <i>Astronomy and Astrophysics</i> , 2022, 660, A19.	5.1	8
99	Two giant outbursts of V0332+53 observed with INTEGRAL. <i>Astronomy and Astrophysics</i> , 2016, 595, A17.	5.1	7
100	A precessing Be disc as a possible model for occultation events in GX 304 <sup>+</sup> 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1553-1564.	4.4	7
101	The giant outburst of 4U 0115+634 in 2011 with <i>Suzaku</i> and RXTE. <i>Astronomy and Astrophysics</i> , 2020, 634, A99.	5.1	7
102	The X-Ray Pulsar XTE J1858+034 Observed with NuSTAR and Fermi/GBM: Spectral and Timing Characterization plus a Cyclotron Line. <i>Astrophysical Journal</i> , 2021, 909, 153.	4.5	7
103	Variable soft X-ray absorption and excess of VELA X-1. <i>Astrophysical Journal, Supplement Series</i> , 1994, 92, 448.	7.7	7
104	Data-driven modelling of the Van Allen Belts: The 5DRBM model for trapped electrons. <i>Advances in Space Research</i> , 2019, 64, 1701-1711.	2.6	6
105	Hitomi observations of the LMC SNR N132D: Highly redshifted X-ray emission from iron ejecta. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	5
106	INTEGRAL observations of the SNR IC443 region. <i>Advances in Space Research</i> , 2008, 41, 396-400.	2.6	4
107	A <i>Suzaku</i> view of cyclotron line sources and candidates. , 2012, , .		4
108	Glimpse of the highly obscured HMXB IGR J16318 <sup>+</sup> 4848 with Hitomi. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	4

#	ARTICLE	IF	CITATIONS
109	CIELO-RGS: a catalog of soft X-ray ionized emission lines. <i>Astronomy and Astrophysics</i> , 2019, 625, A122.	5.1	4
110	JEM-X observations of the Be/X-ray binary EXO 2030+375. <i>Astronomy and Astrophysics</i> , 2003, 411, L411-L414.	5.1	4
111	Three hard X-ray transients: GRO J0422+32, GRS 1716-24, GRS 1009-45. Broad band observations by roentgen-MIR-KVANT observatory. <i>Advances in Space Research</i> , 1997, 19, 29-34.	2.6	3
112	RXTE studies of cyclotron lines in accreting pulsars. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
113	Disappearing pulses in Vela X-1. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
114	A multi-model approach to X-ray pulsars. <i>EPJ Web of Conferences</i> , 2014, 64, 02003.	0.3	3
115	JEM-X background models. <i>Astronomy and Astrophysics</i> , 2003, 411, L253-L256.	5.1	3
116	Common patterns in pulse profiles of high-mass X-ray binaries. <i>Astronomy and Astrophysics</i> , 2022, 662, A62.	5.1	3
117	Spectral and timing analysis of the bursting pulsar GRO J1744âˆ“28 withRXTEobservations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1110-1120.	4.4	2
118	SEARCH FOR A REDSHIFTED 2.2 MeV NEUTRON CAPTURE LINE FROM A0535+262 IN OUTBURST. <i>Astrophysical Journal</i> , 2009, 694, 593-598.	4.5	1
119	Clumped stellar winds in supergiant high-mass X-ray binaries. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 287-288.	0.0	1
120	Pulse-to-pulse variations in accreting X-ray pulsars. <i>EPJ Web of Conferences</i> , 2014, 64, 06012.	0.3	1
121	Variability in highâ€‘mass Xâ€‘ray binaries. <i>Astronomische Nachrichten</i> , 2019, 340, 323-328.	1.2	1
122	<i>NuSTAR</i> observation of GRO J1744â€‘28 at low mass accretion rate. <i>Astronomy and Astrophysics</i> , 2020, 643, A128.	5.1	1
123	Monitoring of persistent accreting pulsating neutron stars observed during the INTEGRAL Core Program. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 132, 648-651.	0.4	0
124	The variable cyclotron line of GX 301â€‘2. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 132, 612-615.	0.4	0
125	The INTEGRAL mission â€‘ an overview. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 59-65.	0.0	0
126	JEM-X: three years in space. , 2006, 6266, 866.		0



#	ARTICLE	IF	CITATIONS
127	Spectral behaviour of an INTEGRAL sample of black hole candidates: Initial results. <i>Advances in Space Research</i> , 2006, 38, 1369-1373.	2.6	0
128	Search for cyclotron lines in INTEGRAL/SPI spectra of Vela X-1. <i>Advances in Space Research</i> , 2006, 38, 1448-1452.	2.6	0
129	Phase resolved study of the CRSF in MX 0656-072. <i>Advances in Space Research</i> , 2006, 38, 2768-2770.	2.6	0
130	The INTEGRAL Galactic Bulge monitoring program. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
131	The Accretion Powered Spin-up of GRO 1750â€“27. , 2009, , .		0
132	New outburst of Aâ€“0535+26 observed with INTEGRAL and RXTE. , 2010, , .		0
133	Clumps in the stellar wind of Vela X-1. , 2010, , .		0
134	Long-term variability of Vela X-1. , 2010, , .		0
135	The Magnetic Field of Neutron Stars: What Can Cyclotron Lines Tell Us?. , 2010, , .		0
136	A 0535+26: an X-rayâ••Optical Tour. , 2011, , .		0
137	First INTEGRAL and Swift observations of a giant outburst of A0535+26. , 2012, , .		0
138	Accretion geometry in the persistent Be/X-ray binary RXJ0440.9+4431. <i>EPJ Web of Conferences</i> , 2014, 64, 06002.	0.3	0
139	Stellar Winds in Massive X-ray Binaries. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 355-358.	0.0	0
140	Dust and gas absorption in the high mass X-ray binary IGR J16318âˆ“4848. <i>Astronomy and Astrophysics</i> , 2020, 641, A65.	5.1	0