

Peter Kretschmar

List of Publications by Year in descending order

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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	HILIGT, upper limit servers – Overview. <i>Astronomy and Computing</i> , 2022, 38, 100531.	1.7	19
2	The RapidXMM upper limit server: X-ray aperture photometry of the <i>XMM-Newton</i> archival observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4265-4284.	4.4	10
3	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
4	Common patterns in pulse profiles of high-mass X-ray binaries. <i>Astronomy and Astrophysics</i> , 2022, 662, A62.	5.1	3
5	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
6	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
7	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
8	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
9	Revisiting the archetypical wind accretor Vela X-1 in depth. <i>Astronomy and Astrophysics</i> , 2021, 652, A95.	5.1	21
10	INTEGRAL reloaded: Spacecraft, instruments and ground system. <i>New Astronomy Reviews</i> , 2021, 93, 101629.	12.8	17
11	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
12	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
13	Dust and gas absorption in the high mass X-ray binary IGR J16318+4848. <i>Astronomy and Astrophysics</i> , 2020, 641, A65.	5.1	0
14	<i>NuSTAR</i> observation of GRO J1744+28 at low mass accretion rate. <i>Astronomy and Astrophysics</i> , 2020, 643, A128.	5.1	1
15	X-Ray Reprocessing: Through the Eclipse Spectra of High-mass X-Ray Binaries with XMM-Newton. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 29.	7.7	19
16	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
17	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
18	Spectral and timing analysis of the bursting pulsar GRO J1744+28 with RXTE observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1110-1120.	4.4	2

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19	Variability in high-mass X-ray binaries. <i>Astronomische Nachrichten</i> , 2019, 340, 323-328.	1.2	1
20	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
21	Cyclotron lines in highly magnetized neutron stars. <i>Astronomy and Astrophysics</i> , 2019, 622, A61.	5.1	150
22	Advances in Understanding High-Mass X-ray Binaries with INTEGRAL and Future Directions. <i>New Astronomy Reviews</i> , 2019, 86, 101546.	12.8	43
23	CIELO-RGS: a catalog of soft X-ray ionized emission lines. <i>Astronomy and Astrophysics</i> , 2019, 625, A122.	5.1	4
24	Accretion Disks and Coronae in the X-Ray Flashlight. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	53
25	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
26	Multiple cyclotron line-forming regions in GX 301+2. <i>Astronomy and Astrophysics</i> , 2018, 620, A153.	5.1	26
27	Detection of polarized gamma-ray emission from the Crab nebula with the Hitomi Soft Gamma-ray Detector. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	21
28	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
29	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
30	Glimpse of the highly obscured HMXB IGR J16318+4848 with Hitomi. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	4
31	Coupling hydrodynamics with comoving frame radiative transfer. <i>Astronomy and Astrophysics</i> , 2018, 610, A60.	5.1	37
32	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
33	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
34	Hitomi observation of radio galaxy NGC 1275: The first X-ray microcalorimeter spectroscopy of Fe-K \pm line emission from an active galactic nucleus. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	27
35	Temperature structure in the Perseus cluster core observed with Hitomi. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	20
36	Hitomi X-ray observation of the pulsar wind nebula G21.5+0.9. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	8

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37	Hitomi Constraints on the 3.5 keV Line in the Perseus Galaxy Cluster. <i>Astrophysical Journal Letters</i> , 2017, 837, L15.	8.3	84
38	GeV Detection of HESS J0632+057. <i>Astrophysical Journal</i> , 2017, 846, 169.	4.5	22
39	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
40	A precessing Be disc as a possible model for occultation events in GX 304 ⁺ 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1553-1564.	4.4	7
41	The clumpy absorber in the high-mass X-ray binary Vela X-1. <i>Astronomy and Astrophysics</i> , 2017, 608, A143.	5.1	34
42	Looking at A0535+26 at low luminosities with <i>NuSTAR</i> . <i>Astronomy and Astrophysics</i> , 2017, 608, A105.	5.1	20
43	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
44	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
45	The quiescent intracluster medium in the core of the Perseus cluster. <i>Nature</i> , 2016, 535, 117-121.	27.8	348
46	Two giant outbursts of V0332+53 observed with INTEGRAL. <i>Astronomy and Astrophysics</i> , 2016, 595, A17.	5.1	7
47	<i>Suzaku</i> observations of the 2013 outburst of KS 1947+300. <i>Astronomy and Astrophysics</i> , 2016, 591, A65.	5.1	9
48	Stellar Winds in Massive X-ray Binaries. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 355-358.	0.0	0
49	The ASTRO-H (Hitomi) x-ray astronomy satellite. <i>Proceedings of SPIE</i> , 2016, , .	0.8	47
50	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
51	THE GOODNESS OF SIMULTANEOUS FITS IN ISIS. <i>Acta Polytechnica</i> , 2016, 56, 41.	0.6	8
52	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
53	Multi-wavelength observations of the binary system PSR B1259 ⁺ 63/LS 2883 around the 2014 periastron passage. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1358-1370.	4.4	51
54	Probing large-scale wind structures in Vela X ⁺ 1 using off-states with INTEGRAL. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1299-1303.	4.4	14

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55	DIAGNOSING THE BURST INFLUENCE ON ACCRETION IN THE CLOCKED BURSTER GS 1826-238. <i>Astrophysical Journal</i> , 2015, 806, 89.	4.5	16
56	Pulse-to-pulse variations in accreting X-ray pulsars. <i>EPJ Web of Conferences</i> , 2014, 64, 06012.	0.3	1
57	Accretion geometry in the persistent Be/X-ray binary RXJ0440.9+4431. <i>EPJ Web of Conferences</i> , 2014, 64, 06002.	0.3	0
58	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
59	Formation of phase lags at the cyclotron energies in the pulse profiles of magnetized, accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2014, 564, L8.	5.1	25
60	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
61	THE HARD X-RAY SHORTAGES PROMPTED BY THE CLOCK BURSTS IN GS 1826-238. <i>Astrophysical Journal</i> , 2014, 782, 40.	4.5	35
62	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
63	A multi-model approach to X-ray pulsars. <i>EPJ Web of Conferences</i> , 2014, 64, 02003.	0.3	3
64	THE HARD X-RAY BEHAVIOR OF AQL X-1 DURING TYPE-I BURSTS. <i>Astrophysical Journal Letters</i> , 2013, 777, L9.	8.3	25
65	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
66	X-ray bursts as a probe of the corona: the case of XRB 4U 1636 ⁺ 536. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 2773-2778.	4.4	26
67	RXJ0440.9+4431: a persistent Be/X-ray binary in outburst. <i>Astronomy and Astrophysics</i> , 2013, 553, A103.	5.1	28
68	A Suzaku view of cyclotron line sources and candidates. , 2012, , .		4
69	First INTEGRAL and Swift observations of a giant outburst of A0535+26. , 2012, , .		0
70	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
71	X-RAY AND OPTICAL OBSERVATIONS OF A 0535+26. <i>Astrophysical Journal</i> , 2012, 754, 20.	4.5	38
72	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

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73	Spin period evolution of GX 1+4. <i>Astronomy and Astrophysics</i> , 2012, 537, A66.	5.1	42
74	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
75	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
76	Analyzing X-ray pulsar profiles: geometry and beam pattern of A 0535+26. <i>Astronomy and Astrophysics</i> , 2011, 526, A131.	5.1	29
77	The 2008 outburst of IGR J17473-2721: evidence for a disk corona?. <i>Astronomy and Astrophysics</i> , 2011, 534, A101.	5.1	8
78	LONG-TERM X-RAY MONITORING OF LS I +61°303: ANALYSIS OF SPECTRAL VARIABILITY AND FLARES. <i>Astrophysical Journal</i> , 2011, 733, 89.	4.5	26
79	Quasi-periodic flares in EXO 2030+375 observed with INTEGRAL. <i>Astronomy and Astrophysics</i> , 2011, 536, L8.	5.1	11
80	A 0535+26: an X-ray-Optical Tour. , 2011, , .		0
81	Study of the many fluorescent lines and the absorption variability in GX 301-2 with XMM-Newton. <i>Astronomy and Astrophysics</i> , 2011, 535, A9.	5.1	36
82	X-ray variation statistics and wind clumping in Vela X-1. <i>Astronomy and Astrophysics</i> , 2010, 519, A37.	5.1	63
83	New outburst of A 0535+26 observed with INTEGRAL and RXTE. , 2010, , .		0
84	Clumps in the stellar wind of Vela X-1. , 2010, , .		0
85	Long-term variability of Vela X-1. , 2010, , .		0
86	The Magnetic Field of Neutron Stars: What Can Cyclotron Lines Tell Us?. , 2010, , .		0
87	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
88	The Accretion Powered Spin-up of GRO 1750-27. , 2009, , .		0
89	The accretion powered spin-up of GRO J1750-27. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 419-428.	4.4	20
90	INTEGRAL observations of the SNR IC443 region. <i>Advances in Space Research</i> , 2008, 41, 396-400.	2.6	4

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91	2 Years of <i>INTEGRAL</i> Monitoring of GRS 1915+105. II. X-Ray Spectro-temporal Analysis. <i>Astrophysical Journal</i> , 2008, 675, 1449-1458.	4.5	58
92	2 Years of <i>INTEGRAL</i> Monitoring of GRS 1915+105. I. Multiwavelength Coverage with <i>INTEGRAL</i> , <i>RXTE</i> , and the Ryle Radio Telescope. <i>Astrophysical Journal</i> , 2008, 675, 1436-1448.	4.5	44
93	High variability in Vela X-1: giant flares and off states. <i>Astronomy and Astrophysics</i> , 2008, 492, 511-525.	5.1	99
94	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
95	The pre-outburst flare of the A0535+26 August/September 2005 outburst. <i>Astronomy and Astrophysics</i> , 2008, 480, L17-L20.	5.1	36
96	<i>INTEGRAL</i> observations of the variability of OAO 1657-415. <i>Astronomy and Astrophysics</i> , 2008, 486, 293-302.	5.1	28
97	<i>INTEGRAL</i> 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
98	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
99	A model for cyclotron resonance scattering features. <i>Astronomy and Astrophysics</i> , 2007, 472, 353-365.	5.1	113
100	<i>INTEGRAL</i> 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
101	A0535+26 in the August/September 2005 outburst observed by <i>RXTE</i> and <i>INTEGRAL</i> . <i>Astronomy and Astrophysics</i> , 2007, 465, L21-L24.	5.1	62
102	The <i>INTEGRAL</i> Galactic bulge monitoring program: the first 1.5 years. <i>Astronomy and Astrophysics</i> , 2007, 466, 595-618.	5.1	70
103	<i>INTEGRAL</i> and <i>Swift</i> observations of EXO 2030+375 during a giant outburst. <i>Astronomy and Astrophysics</i> , 2007, 464, L45-L48.	5.1	28
104	On the cyclotron line in Cepheus X-4. <i>Astronomy and Astrophysics</i> , 2007, 470, 1065-1070.	5.1	19
105	The High-Energy Emission of GRO J1655-40 As Revealed with <i>INTEGRAL</i> Spectroscopy of the 2005 Outburst. <i>Astrophysical Journal</i> , 2007, 669, 534-545.	4.5	19
106	Study of the cyclotron feature in MXB 0656-072. <i>Astronomy and Astrophysics</i> , 2006, 451, 267-272.	5.1	33
107	JEM-X: three years in space. , 2006, 6266, 866.		0
108	Spectral behaviour of an <i>INTEGRAL</i> sample of black hole candidates: Initial results. <i>Advances in Space Research</i> , 2006, 38, 1369-1373.	2.6	0

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109	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
110	Cyclotron features in X-ray spectra of accreting pulsars. <i>Advances in Space Research</i> , 2006, 38, 2747-2751.	2.6	32
111	Phase resolved study of the CRSF in MX 0656-072. <i>Advances in Space Research</i> , 2006, 38, 2768-2770.	2.6	0
112	The INTEGRAL Galactic Bulge monitoring program. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
113	Crab: the standard x-ray candle with all (modern) x-ray satellites. , 2005, , .		67
114	3â€“200 keV Spectral States and Variability of the INTEGRAL Black Hole Binary IGR J17464âˆ“3213. <i>Astrophysical Journal</i> , 2005, 622, 503-507.	4.5	27
115	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
116	The INTEGRAL mission â€“ an overview. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 59-65.	0.0	0
117	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
118	Timing and Spectroscopy of Accreting X-ray Pulsars: the State of Cyclotron Line Studies. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	12
119	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
120	The variable cyclotron line of GX 301â€“2. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 132, 612-615.	0.4	0
121	The variable cyclotron line in GXâ€“301-2. <i>Astronomy and Astrophysics</i> , 2004, 427, 975-986.	5.1	71
122	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
123	Simultaneous multi-wavelength observations of GRSâ€“1915+105. <i>Astronomy and Astrophysics</i> , 2003, 409, L35-L39.	5.1	45
124	JEMâ€“X: The X-ray monitor aboard INTEGRAL. <i>Astronomy and Astrophysics</i> , 2003, 411, L231-L238.	5.1	349
125	OMC: An Optical Monitoring Camera for INTEGRAL. <i>Astronomy and Astrophysics</i> , 2003, 411, L261-L268.	5.1	130
126	The INTEGRAL Science Data Centre (ISDC). <i>Astronomy and Astrophysics</i> , 2003, 411, L53-L57.	5.1	283

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127	JEM-X observations of the Be/X-ray binary EXO 2030+375. <i>Astronomy and Astrophysics</i> , 2003, 411, L411-L414.	5.1	4
128	JEM-X science analysis software. <i>Astronomy and Astrophysics</i> , 2003, 411, L257-L260.	5.1	34
129	First INTEGRAL observations of Cygnus X-3. <i>Astronomy and Astrophysics</i> , 2003, 411, L405-L410.	5.1	23
130	INTEGRAL-RXTE observations of Cygnus X-1. <i>Astronomy and Astrophysics</i> , 2003, 411, L383-L388.	5.1	25
131	First results from the INTEGRAL galactic plane scans. <i>Astronomy and Astrophysics</i> , 2003, 411, L349-L355.	5.1	41
132	JEM-X inflight performance. <i>Astronomy and Astrophysics</i> , 2003, 411, L243-L251.	5.1	12
133	JEM-X background models. <i>Astronomy and Astrophysics</i> , 2003, 411, L253-L256.	5.1	3
134	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
135	Confirmation of two cyclotron lines in Vela X-1. <i>Astronomy and Astrophysics</i> , 2002, 395, 129-140.	5.1	71
136	RXTE studies of cyclotron lines in accreting pulsars. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
137	Disappearing pulses in Vela X-1. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
138	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
139	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
140	Variable soft X-ray absorption and excess of VELA X-1. <i>Astrophysical Journal, Supplement Series</i> , 1994, 92, 448.	7.7	7