Silvia Zane

List of Publications by Year in Descending Order

209 papers	6,236 citations	45 h-index	69 g-index
244 ext. papers	6,723 ext. citations	4.4 avg, IF	5.27 L-index

#	Paper	IF	Citations
209	Thermal and non-thermal X-ray emission from the rotation-powered radio/γ-ray pulsar PSR J1740+1000. *Monthly Notices of the Royal Astronomical Society*, **2022**, 513, 3113-3121	4.3	4
208	Time domain astronomy with the THESEUS satellite. *Experimental Astronomy*, **2021**, 1	1.3	2
207	Super-eddington emission from accreting, highly magnetized neutron stars with a multipolar magnetic field. *Monthly Notices of the Royal Astronomical Society*, **2021**, 504, 701-715	4.3	2
206	PHEMTO: the polarimetric high energy modular telescope observatory. *Experimental Astronomy*, **2021**, 51, 1143	1.3	
205	The X-ray evolution and geometry of the 2018 outburst of XTE J1810−197. *Monthly Notices of the Royal Astronomical Society*, **2021**, 504, 5244-5257	4.3	3
204	X-Ray Emission from Isolated Neutron Stars Revisited: 3D Magnetothermal Simulations. *Astrophysical Journal*, **2021**, 914, 118	4.7	6
203	The New Magnetar SGR J1830−0645 in Outburst. *Astrophysical Journal Letters*, **2021**, 907, L34	7.9	6
202	GrailQuest: hunting for atoms of space and time hidden in the wrinkle of Space-Time. *Experimental Astronomy*, **2021**, 51, 1255	1.3	1
201	NICER Study of Pulsed Thermal X-Rays from Calvera: A Neutron Star Born in the Galactic Halo?. *Astrophysical Journal*, **2021**, 922, 253	4.7	1
200	Gravitational burst radiation from pulsars in the Galactic centre and stellar clusters. *Monthly Notices of the Royal Astronomical Society*, **2020**, 495, 600-613	4.3	3
199	A Very Young Radio-loud Magnetar. *Astrophysical Journal Letters*, **2020**, 896, L30	7.9	24
198	X-ray spectra and polarization from magnetar candidates. *Monthly Notices of the Royal Astronomical Society*, **2020**, 492, 5057-5074	4.3	9
197	The X-Ray Outburst of the Galactic Center Magnetar over Six Years of Chandra Observations. *Astrophysical Journal*, **2020**, 894, 159	4.7	4
196	Three-dimensional Modeling of the Magnetothermal Evolution of Neutron Stars: Method and Test Cases. *Astrophysical Journal*, **2020**, 903, 40	4.7	13
195	Radio timing in a millisecond pulsar–extreme/intermediate mass ratio binary system. *Astronomy and Astrophysics*, **2020**, 644, A167	5.1	1
194	Orbital spin dynamics of a millisecond pulsar around a massive BH with a general mass quadrupole. *Monthly Notices of the Royal Astronomical Society*, **2020**, 497, 5421-5431	4.3	3
193	Physics and astrophysics of strong magnetic field systems with eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	10

192	A deep XMM-Newton look on the thermally emitting isolated neutron star RX J1605.3+3249. *Astronomy and Astrophysics*, **2019**, 623, A73	5.1	12
191	The multi-outburst activity of the magnetar in Westerlund 1. *Monthly Notices of the Royal Astronomical Society*, **2019**, 484, 2931-2943	4.3	4
190	Pulsar timing in extreme mass ratio binaries: a general relativistic approach. *Monthly Notices of the Royal Astronomical Society*, **2019**, 486, 360-377	4.3	8
189	Atmosphere of strongly magnetized neutron stars heated by particle bombardment. *Monthly Notices of the Royal Astronomical Society*, **2019**, 483, 599-613	4.3	12
188	Spatial dispersion of light rays propagating through a plasma in Kerr spacetime. *Monthly Notices of the Royal Astronomical Society*, **2019**, 484, 2411-2419	4.3	12
187	Detailed X-ray spectroscopy of the magnetar 1E 2259+586. *Astronomy and Astrophysics*, **2019**, 626, A39	5.1	4
186	Observatory science with eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	31
185	Dense matter with eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	59
184	The enhanced X-ray Timing and Polarimetry mission–eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	95
183	Science with e-ASTROGAM: A space mission for MeV–GeV gamma-ray astrophysics. *Journal of High Energy Astrophysics*, **2018**, 19, 1-106	2.5	101
182	STROBE-X: a probe-class mission for x-ray spectroscopy and timing on timescales from microseconds to years **2018**,		10
181	The large area detector onboard the eXTP mission **2018**,		5
180	Evidence for vacuum birefringence from the first optical-polarimetry measurement of the isolated neutron star RX J1856.5−3754. *Monthly Notices of the Royal Astronomical Society*, **2017**, 465, 492-500	4.3	88
179	STROBE-X: X-ray timing and spectroscopy on dynamical timescales from microseconds to years. *Results in Physics*, **2017**, 7, 3704-3705	3.7	11
178	Vacuum birefringence and X-ray polarimetry in transient magnetars. *Journal of Physics: Conference Series*, **2017**, 932, 012024	0.3	2
177	Phase-dependent absorption features in X-ray spectra of X-ray Dim Isolated Neutron Stars. *Journal of Physics: Conference Series*, **2017**, 932, 012007	0.3	
176	Narrow phase-dependent features in X-ray dim isolated neutron stars: a new detection and upper limits. *Monthly Notices of the Royal Astronomical Society*, **2017**, 468, 2975-2983	4.3	21
175	Chandra monitoring of the Galactic Centre magnetar SGR J1745−2900 during the initial 3.5 years of outburst decay. *Monthly Notices of the Royal Astronomical Society*, **2017**, 471, 1819-1829	4.3	23

174	Large Observatory for x-ray Timing (LOFT-P): a Probe-class mission concept study **2016**,		4
173	Evidence for the magnetar nature of 1E 161348−5055 in RCW 103. *Monthly Notices of the Royal Astronomical Society*, **2016**, 463, 2394-2404	4.3	38
172	The LOFT mission concept: a status update **2016**,		7
171	Polarized thermal emission from X-ray dim isolated neutron stars: the case of RX J1856.5−3754. *Monthly Notices of the Royal Astronomical Society*, **2016**, 459, 3585-3595	4.3	27
170	The outburst decay of the low magnetic field magnetar SWIFT J1822.3−1606: phase-resolved analysis and evidence for a variable cyclotron feature. *Monthly Notices of the Royal Astronomical Society*, **2016**, 456, 4145-4155	4.3	28
169	The variable spin-down rate of the transient magnetar XTE J1810−197. *Monthly Notices of the Royal Astronomical Society*, **2016**, 458, 2088-2093	4.3	19
168	The discovery, monitoring and environment of SGR J1935+2154. *Monthly Notices of the Royal Astronomical Society*, **2016**, 457, 3448-3456	4.3	67
167	The central engine of GRB 130831A and the energy breakdown of a relativistic explosion. *Monthly Notices of the Royal Astronomical Society*, **2016**, 455, 1027-1042	4.3	18
166	eXTP: Enhanced X-ray Timing and Polarization mission **2016**,		73
165	XIPE: the x-ray imaging polarimetry explorer **2016**,		5
164	The optical rebrightening of GRB100814A: an interplay of forward and reverse shocks?. *Monthly Notices of the Royal Astronomical Society*, **2015**, 449, 1024-1042	4.3	12
163	Polarization of neutron star surface emission: a systematic analysis. *Monthly Notices of the Royal Astronomical Society*, **2015**, 454, 3254-3266	4.3	28
162	Magnetars: the physics behind observations. A review. *Reports on Progress in Physics*, **2015**, 78, 116901	14.4	226
161	The X-ray outburst of the Galactic Centre magnetar SGR J1745−2900 during the first 1.5 year. *Monthly Notices of the Royal Astronomical Society*, **2015**, 449, 2685-2699	4.3	43
160	Searching for small-scale diffuse emission around SGR 1806-20. *Journal of High Energy Astrophysics*, **2014**, 3-4, 41-46	2.5	6
159	LOFT Large Observatory for X-ray Timing. *Journal of Instrumentation*, **2014**, 9, C12003-C12003	1	3
158	The design of the wide field monitor for the LOFT mission **2014**,		1
157	XMM-Newtonreveals a candidate period for the spin of the Magnificent Seven neutron star RX J1605.3+3249. *Astronomy and Astrophysics*, **2014**, 563, A50	5.1	17

156	Baseline design of the filters for the LAD detector on board LOFT **2014**,		1
155	The large area detector of LOFT: the Large Observatory for X-ray Timing **2014**,		4
154	A phase-variable absorption feature in the X-ray spectrum of the magnetar SGR 0418+5729. *Astronomische Nachrichten*, **2014**, 335, 274-279	0.7	2
153	Quiescent state and outburst evolution of SGR 0501+4516. *Monthly Notices of the Royal Astronomical Society*, **2014**, 438, 3291-3298	4.3	23
152	Pulse phase-coherent timing and spectroscopy of CXOU J164710.2 45521 outbursts. *Monthly Notices of the Royal Astronomical Society*, **2014**, 441, 1305-1316	4.3	16
151	The Large Observatory for x-ray timing **2014**,		9
150	A variable absorption feature in the X-ray spectrum of a magnetar. *Nature*, **2013**, 500, 312-4	50.4	124
149	XIPE: the X-ray imaging polarimetry explorer. *Experimental Astronomy*, **2013**, 36, 523-567	1.3	85
148	X-ray and radio observations of the magnetar Swift J1834.9 0846 and its dust-scattering halo. *Monthly Notices of the Royal Astronomical Society*, **2013**, 429, 3123-3132	4.3	27
147	A STRONGLY MAGNETIZED PULSAR WITHIN THE GRASP OF THE MILKY WAY'S SUPERMASSIVE BLACK HOLE. *Astrophysical Journal Letters*, **2013**, 775, L34	7.9	89
146	THE OUTBURST DECAY OF THE LOW MAGNETIC FIELD MAGNETAR SGR 0418+5729. *Astrophysical Journal*, **2013**, 770, 65	4.7	100
145	The birthplace and age of the isolated neutron star RX J1856.5-3754. *Monthly Notices of the Royal Astronomical Society*, **2013**, 429, 3517-3521	4.3	20
144	ORIGIN: metal creation and evolution from the cosmic dawn. *Experimental Astronomy*, **2012**, 34, 519-549	1.3	6
143	The Large Observatory for X-ray Timing (LOFT). *Experimental Astronomy*, **2012**, 34, 415-444	1.3	148
142	The continued spectral and temporal evolution of RX J0720.4 3125. *Monthly Notices of the Royal Astronomical Society*, **2012**, 423, 1194-1199	4.3	15
141	LOFT: the Large Observatory For X-ray Timing **2012**,		21
140	A time-variable, phase-dependent emission line in the X-ray spectrum of the isolated neutron star RX J0822 4300. *Monthly Notices of the Royal Astronomical Society: Letters*, **2012**, 421, L72-L76	4.3	16
139	A large area detector proposed for the Large Observatory for X-ray Timing (LOFT) **2012**,		11

138	The influence of magnetic field geometry on magnetars X-ray spectra. *Journal of Physics: Conference Series*, **2012**, 342, 012013	0.3	3
137	A NEW LOW MAGNETIC FIELD MAGNETAR: THE 2011 OUTBURST OF SWIFT J1822.3−1606. *Astrophysical Journal*, **2012**, 754, 27	4.7	109
136	Magnetar X-ray emission mechanisms. *Proceedings of the International Astronomical Union*, **2012**, 8, 160-160	0.1	
135	A new low-B magnetar: Swift J1822.3−1606. *Proceedings of the International Astronomical Union*, **2012**, 8, 353-355	0.1	
134	LOFT: Large Observatory For X-Ray Timing. *Proceedings of the International Astronomical Union*, **2011**, 7, 372-375	0.1	2
133	IS SGR 0418+5729 INDEED A WANING MAGNETAR?. *Astrophysical Journal*, **2011**, 740, 105	4.7	67
132	Multi-instrument X-ray monitoring of the January 2009 outburst from the recurrent magnetar candidate 1E 1547.0-5408. *Astronomy and Astrophysics*, **2011**, 529, A19	5.1	37
131	VLT/FORS2 observations of the optical counterpart of the isolated neutron star RBS 1774. *Astronomy and Astrophysics*, **2011**, 530, A39	5.1	3
130	Discovery of 59 ms pulsations from 1RXS J141256.0+792204 (Calvera). *Monthly Notices of the Royal Astronomical Society*, **2011**, 410, 2428-2445	4.3	19
129	A statistical comparison of the optical/UV and X-ray afterglows of gamma-ray bursts using the Swift Ultraviolet Optical and X-ray Telescopes. *Monthly Notices of the Royal Astronomical Society*, **2011**, 412, 561-579	4.3	19
128	Long-term spectral and timing properties of the soft gamma-ray repeater SGR 1833−0832 and detection of extended X-ray emission around the radio pulsar PSR B1830−08. *Monthly Notices of the Royal Astronomical Society*, **2011**, no-no	4.3	22
127	Can a double component outflow explain the X-ray and optical lightcurves of Swift Gamma-Ray Bursts?. *Advances in Space Research*, **2011**, 48, 1411-1414	2.4	2
126	Two magnetars: SGR 1627−41 and 1E 1547.0−5408. *Advances in Space Research*, **2011**, 47, 1312-1316	2.4	1
125	Magnetar spectra and twisted magnetospheres. *Advances in Space Research*, **2011**, 47, 1305-1311	2.4	4
124	Modeling the broadband persistent emission of magnetars. *Advances in Space Research*, **2011**, 47, 1298-1304	2.4	11
123	The magnetar emission in the IR band: the role of magnetospheric currents. *Thirty Years of Astronomical Discovery With UKIRT*, **2011**, 329-335	0.3	7
122	X-ray study of HLX1: intermediate-mass black hole or foreground neutron star?. *Monthly Notices of the Royal Astronomical Society*, **2010**, no-no	4.3	6
121	Early X-ray and optical observations of the soft gamma-ray repeater SGR 0418+5729. *Monthly Notices of the Royal Astronomical Society*, **2010**,	4.3	26

120	The 2008 October Swift detection of X-ray bursts/outburst from the transient SGR-like AXP 1E 1547.0−5408. *Monthly Notices of the Royal Astronomical Society*, **2010**, 408, 1387-1395	4.3	44
119	Updated phase coherent timing solution of the isolated neutron star RX J0720.4−3125 using recent XMM-Newton and Chandra observations. *Astronomy and Astrophysics*, **2010**, 521, A11	5.1	5
118	THE DUST-SCATTERING X-RAY RINGS OF THE ANOMALOUS X-RAY PULSAR 1E 1547.0-5408. *Astrophysical Journal*, **2010**, 710, 227-235	4.7	71
117	A low-magnetic-field soft gamma repeater. *Science*, **2010**, 330, 944-6	33.3	238
116	SWIFT AND FERMI OBSERVATIONS OF THE EARLY AFTERGLOW OF THE SHORT GAMMA-RAY BURST 090510. *Astrophysical Journal Letters*, **2010**, 709, L146-L151	7.9	120
115	A UNIFIED TIMING AND SPECTRAL MODEL FOR THE ANOMALOUS X-RAY PULSARS XTE J1810−197 AND CXOU J164710.2−455216. *Astrophysical Journal*, **2010**, 722, 788-802	4.7	37
114	WIDE-BANDSUZAKUANALYSIS OF THE PERSISTENT EMISSION FROM SGR 0501+4516 DURING THE 2008 OUTBURST. *Astrophysical Journal*, **2010**, 715, 665-670	4.7	23
113	XMM-NEWTON DISCOVERY OF 2.6 s PULSATIONS IN THE SOFT GAMMA-RAY REPEATER SGR 1627−41. *Astrophysical Journal*, **2009**, 690, L105-L109	4.7	28
112	VLT/NACO near-infrared observations of the transient radio magnetar 1E 1547.0-5408. *Astronomy and Astrophysics*, **2009**, 497, 451-455	5.1	4
111	SUZAKU OBSERVATION OF THE NEW SOFT GAMMA REPEATER SGR 0501+4516 IN OUTBURST. *Astrophysical Journal*, **2009**, 693, L122-L126	4.7	33
110	Spectral and temporal variations of the isolated neutron star RX J0720.4-3125: new XMM-Newton observations. *Astronomy and Astrophysics*, **2009**, 498, 811-820	5.1	19
109	NEW LIMITS ON RADIO EMISSION FROM X-RAY DIM ISOLATED NEUTRON STARS. *Astrophysical Journal*, **2009**, 702, 692-706	4.7	50
108	STRONG BURSTS FROM THE ANOMALOUS X-RAY PULSAR 1E 1547.0−5408 OBSERVED WITH THE INTEGRAL /SPI ANTI-COINCIDENCE SHIELD. *Astrophysical Journal*, **2009**, 696, L74-L78	4.7	64
107	Jet breaks at the end of the slow decline phase ofSwiftGRB light curves. *Monthly Notices of the Royal Astronomical Society*, **2009**, 392, 153-169	4.3	28
106	Topology of magnetars external field - I. Axially symmetric fields. *Monthly Notices of the Royal Astronomical Society*, **2009**, 395, 753-763	4.3	31
105	X-ray spectra from magnetar candidates - III. Fitting SGR/AXP soft X-ray emission with non-relativistic Monte Carlo models. *Monthly Notices of the Royal Astronomical Society*, **2009**, 398, 1403-1413	4.3	44
104	A statistical study of gamma-ray burst afterglows measured by theSwiftUltraviolet Optical Telescope. *Monthly Notices of the Royal Astronomical Society*, **2009**, 395, 490-503	4.3	96
103	The first outburst of the new magnetar candidate SGR 0501+4516. *Monthly Notices of the Royal Astronomical Society*, **2009**, 396, 2419-2432	4.3	87

102	Spin-down rate and inferred dipole magnetic field of the soft gamma-ray repeater SGR 1627-41. *Monthly Notices of the Royal Astronomical Society: Letters*, **2009**, 399, L44-L48	4.3	26
101	Quiet but still bright:XMM-Newtonobservations of the soft gamma-ray repeater SGR 0526-66. *Monthly Notices of the Royal Astronomical Society: Letters*, **2009**, 399, L74-L78	4.3	24
100	From outburst to quiescence: the decay of the transient AXP XTE J1810-197. *Astronomy and Astrophysics*, **2009**, 498, 195-207	5.1	55
99	VLT optical observations of the isolated neutron star RX J0420.0-5022. *Astronomy and Astrophysics*, **2009**, 505, 707-713	5.1	3
98	X-ray spectra from magnetar candidates I. Monte Carlo simulations in the non-relativistic regime. *Monthly Notices of the Royal Astronomical Society*, **2008**, 386, 1527-1542	4.3	91
97	X-ray spectra from magnetar candidates - II. Resonant cross-sections for electron-photon scattering in the relativistic regime. *Monthly Notices of the Royal Astronomical Society*, **2008**, 389, 989-1000	4.3	46
96	Extreme Properties of GRB 061007: a highly energetic or a highly collimated burst?. *AIP Conference Proceedings*, **2008**,	0	3
95	Resonant Cyclotron Scattering in Magnetars Emission. *Astrophysical Journal*, **2008**, 686, 1245-1260	4.7	94
94	ASwiftGaze into the 2006 March 29 Burst Forest of SGR 1900+14. *Astrophysical Journal*, **2008**, 685, 1114-1128	4.7	84
93	An Optical Counterpart Candidate for the Isolated Neutron Star RBS 1774. *Astrophysical Journal*, **2008**, 682, 487-491	4.7	13
92	Adaptive optics, near-infrared observations of magnetars. *Astronomy and Astrophysics*, **2008**, 482, 607-615	5.1	23
91	A Search for Pulsed and Bursty Radio Emission from X-ray Dim Isolated Neutron Stars. *AIP Conference Proceedings*, **2008**,	0	3
90	The 2008 May burst activation of SGR 1627-41. *Monthly Notices of the Royal Astronomical Society: Letters*, **2008**, 390, L34-L38	4.3	49
89	Near infrared VLT/MAD observations of the isolated neutron stars RX J0420.0-5022 and RX J1856.5-3754. *Astronomy and Astrophysics*, **2008**, 488, 267-270	5.1	5
88	Linking the X-ray timing and spectral properties of the glitching AXP 1RXS J170849-400910. *Astronomy and Astrophysics*, **2007**, 476, L9-L12	5.1	23
87	Long term hard X-ray variability of the anomalous X-ray pulsar 1RXS J170849.0400910 discovered withINTEGRAL. *Astronomy and Astrophysics*, **2007**, 475, 317-321	5.1	14
86	SGR 1806-20 about two years after the giant flare:Suzaku,XMM-Newton andINTEGRAL observations. *Astronomy and Astrophysics*, **2007**, 476, 321-330	5.1	32
85	The nature of the outflow in gamma-ray bursts. *Monthly Notices of the Royal Astronomical Society: Letters*, **2007**, 376, L57-L61	4.3	42

84	Early afterglow detection in the Swift observations of GRB 050801. *Monthly Notices of the Royal Astronomical Society*, **2007**, 377, 1638-1646	4.3	33
83	Accurate X-ray position and multiwavelength observations of the isolated neutron star RBS 1774. *Monthly Notices of the Royal Astronomical Society*, **2007**, 379, 1484-1490	4.3	9
82	The two-component afterglow of Swift GRB 050802. *Monthly Notices of the Royal Astronomical Society*, **2007**, 380, 270-280	4.3	32
81	Extreme properties of GRB 061007: a highly energetic or a highly collimated burst?. *Monthly Notices of the Royal Astronomical Society*, **2007**, 380, 1041-1052	4.3	47
80	Very deep X-ray observations of the anomalous X-ray pulsar 4U 0142+614. *Monthly Notices of the Royal Astronomical Society*, **2007**, 381, 293-300	4.3	31
79	Neutron star surface emission: Beyond the dipole model. *Astrophysics and Space Science*, **2007**, 308, 259-265	1.6	6
78	Long term spectral variability in the soft gamma-ray repeater SGR 1900+14. *Astrophysics and Space Science*, **2007**, 308, 33-37	1.6	3
77	Our distorted view of magnetars: application of the resonant cyclotron scattering model. *Astrophysics and Space Science*, **2007**, 308, 61-65	1.6	15
76	X-ray intensity-hardness correlation and deep IR observations of the anomalous X-ray pulsar 1RXS J170849-400910. *Astrophysics and Space Science*, **2007**, 308, 505-511	1.6	22
75	The continuum and line spectra of SGR 1806-20 bursts. *Astrophysics and Space Science*, **2007**, 308, 43-50	1.6	3
74	Studies of neutron stars at optical/IR wavelengths. *Astrophysics and Space Science*, **2007**, 308, 203-210	1.6	18
73	XMM-Newton observations of the isolated neutron star 1RXS J214303.7+065419/RBS1774. *Astrophysics and Space Science*, **2007**, 308, 161-166	1.6	9
72	Giant flares in soft gamma-ray repeaters and short GRBs. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 1307-13	3	1
71	Spectral Modeling of the High-Energy Emission of the Magnetar 4U 0142+614. *Astrophysical Journal* , **2007**, 661, L65-L68	4.7	25
70	Our distorted view of magnetars: application of the resonant cyclotron scattering model **2007**, 61-65		
69	XMM-Newton observations of the isolated neutron star 1RXS J214303.7+065419/RBS1774 **2007**, 161-166		
68	Long term spectral variability in the soft gamma-ray repeater SGR 1900+14 **2007**, 33-37		
67	X-ray intensity-hardness correlation and deep IR observations of the anomalous X-ray pulsar 1RXS J170849-400910 **2007**, 505-511		

66	Neutron star surface emission: Beyond the dipole model **2007**, 259-265		
65	Studies of neutron stars at optical/IR wavelengths **2007**, 203-210		
64	The continuum and line spectra of SGR 1806-20 bursts **2007**, 43-50		
63	SwiftandChandraconfirm the intensity-hardness correlation of the AXP 1RXS J170849.0−400910. *Astronomy and Astrophysics*, **2007**, 463, 1047-1051	5.1	30
62	Magnetars' Giant Flares: the Case of SGR 1806−20. *Research in Astronomy and Astrophysics*, **2006**, 6, 155-158		1
61	Evidence for precession of the isolated neutron star RX J0720.4-3125. *Astronomy and Astrophysics*, **2006**, 451, L17-L21	5.1	69
60	Evidence for Surface Cooling Emission in theXMM-NewtonSpectrum of the X-Ray Pulsar PSR B2334+61. *Astrophysical Journal*, **2006**, 639, 377-381	4.7	24
59	Very Early Optical Afterglows of Gamma-Ray Bursts: Evidence for Relative Paucity of Detection. *Astrophysical Journal*, **2006**, 652, 1416-1422	4.7	67
58	Probing the Pulsar Wind Nebula of PSR B0355+54. *Astrophysical Journal*, **2006**, 647, 1300-1308	4.7	20
57	The FirstXMM-NewtonObservations of the Soft Gamma-Ray Repeater SGR 1900+14. *Astrophysical Journal*, **2006**, 653, 1423-1428	4.7	48
56	Unveiling the thermal and magnetic map of neutron star surfaces though their X-ray emission: method and light-curve analysis. *Monthly Notices of the Royal Astronomical Society*, **2006**, 366, 727-738	4.3	64
55	Swift and optical observations of GRB 050401. *Monthly Notices of the Royal Astronomical Society*, **2006**, 365, 1031-1038	4.3	39
54	Swift observations of GRB 050712. *Monthly Notices of the Royal Astronomical Society*, **2006**, 370, 1859-1866	4.3	6
53	Anatomy of a dark burst - the afterglow of GRB 060108. *Monthly Notices of the Royal Astronomical Society*, **2006**, 372, 327-337	4.3	18
52	A puzzling event during the X-ray emission of the binary system GX 1+4. *Advances in Space Research* , **2006**, 38, 1453-1456	2.4	
51	XMM-Newton observations of the Soft Gamma Ray Repeater SGR 1627-41 in a low luminosity state. *Astronomy and Astrophysics*, **2006**, 450, 759-762	5.1	32
50	The proper motion of the isolated neutron star RX J1605.3+3249. *Astronomy and Astrophysics*, **2006** , 457, 619-622	5.1	15
49	A First Look with Chandra at SGR 1806-20 after the Giant Flare: Significant Spectral Softening and Rapid Flux Decay. *Astrophysical Journal*, **2005**, 627, L133-L136	4.7	31

48	The Gamma-Ray Giant Flare from SGR 1806-20: Evidence of Crustal Cracking via Initial Timescales. *Astrophysical Journal*, **2005**, 627, L129-L132	4.7	50
47	AnXMM-NewtonView of the Soft Gamma Repeater SGR 1806−20: Long-Term Variability in the Pre‐Giant Flare Epoch. *Astrophysical Journal*, **2005**, 628, 938-945	4.7	81
46	Post-glitch variability in the anomalous X-ray pulsar 1RXS J170849.0−400910. *Monthly Notices of the Royal Astronomical Society*, **2005**, 361, 710-718	4.3	63
45	A Compton reflection dominated spectrum in a peculiar accreting neutron star. *Monthly Notices of the Royal Astronomical Society*, **2005**, 364, 1229-1238	4.3	18
44	Thermal emission from isolated neutron stars and their surface magnetic field: Going quadrupolar?. *Advances in Space Research*, **2005**, 35, 1162-1165	2.4	6
43	The calm after the storm:XMM-Newton observation of SGR 1806−20 two months after the Giant Flare of 2004 December 27. *Astronomy and Astrophysics*, **2005**, 440, L63-L66	5.1	24
42	ThreeXMM-Newtonobservations of the anomalous X-ray pulsar 1E 1048.1−5937: Long term variations in spectrum and pulsed fraction. *Astronomy and Astrophysics*, **2005**, 437, 997-1005	5.1	64
41	XMM-NewtonDetection of Pulsations and a Spectral Feature in the X-Ray Emission of the Isolated Neutron Star 1RXS J214303.7+065419/RBS 1774. *Astrophysical Journal*, **2005**, 627, 397-403	4.7	59
40	The isolated neutron star X-ray pulsars RX J0420.0−5022 and RX J0806.4−4123: New X-ray and optical observations. *Astronomy and Astrophysics*, **2004**, 424, 635-645	5.1	70
39	XMM-NewtonEPIC and Optical Monitor observations of Her X-1 over the 35-d beat period. *Monthly Notices of the Royal Astronomical Society*, **2004**, 350, 506-516	4.3	22
38	Timing analysis of the isolated neutron star RX J0720.4-3125 revisited. *Monthly Notices of the Royal Astronomical Society*, **2004**, 351, 1099-1108	4.3	25
37	Is RX J1856.5-3754 a naked neutron star ?. *Advances in Space Research*, **2004**, 33, 531-536	2.4	18
36	XMM-Newton observations of the Vela pulsar. *Advances in Space Research*, **2004**, 33, 503-506	2.4	7
35	XMM-NewtonObservations of PSR B1706−44. *Astrophysical Journal*, **2004**, 600, 343-350	4.7	44
34	Pronounced Long-Term Flux Variability of the Anomalous X-Ray Pulsar 1E 1048.1−5937. *Astrophysical Journal*, **2004**, 608, 427-431	4.7	43
33	Highly ionized Fe K‐emission lines from the LINER galaxy M 81. *Astronomy and Astrophysics*, **2004**, 422, 77-84	5.1	16
32	Bare Quark Stars or Naked Neutron Stars? The Case of RX J1856.5−3754. *Astrophysical Journal*, **2004**, 603, 265-282	4.7	93
31	Strongest magnet in the cosmos. *Physics World*, **2003**, 16, 19-20	0.5	2

30	X-ray emission line gas in the LINER galaxy M 81. *Astronomy and Astrophysics*, **2003**, 400, 145-151	5.1	23
29	Detection of Pulsed X-Ray Emission fromXMM-NewtonObservations of PSR J0538+2817. *Astrophysical Journal*, **2003**, 591, 380-387	4.7	25
28	Timing analysis of the isolated neutron star RX J0720.4-3125. *Monthly Notices of the Royal Astronomical Society*, **2002**, 334, 345-354	4.3	52
27	XMM□Newton EPIC observations of Her X-1. *Monthly Notices of the Royal Astronomical Society*, **2002**, 337, 1185-1192	4.3	25
26	High-Resolution X-Ray Spectroscopy of Hercules X-1 with theXMM-NewtonReflection Grating Spectrometer: CNO Element Abundance Measurements and Density Diagnostics of a Photoionized Plasma. *Astrophysical Journal*, **2002**, 578, 391-404	4.7	27
25	Discovery of Cyclotron Resonance Features in the Soft Gamma Repeater SGR 1806□20. *Astrophysical Journal*, **2002**, 574, L51-L55	4.7	87
24	Power-Law Tails from Dynamical Comptonization in Converging Flows. *Astrophysical Journal*, **2002**, 576, 349-356	4.7	17
23	Proton Cyclotron Features in Thermal Spectra of Ultramagnetized Neutron Stars. *Astrophysical Journal*, **2001**, 560, 384-389	4.7	93
22	First XMM-Newton observations of an isolated neutron star: RX J0720.4-3125. *Astronomy and Astrophysics*, **2001**, 365, L298-L301	5.1	39
21	XMM-Newton observations of Markarian 421. *Astronomy and Astrophysics*, **2001**, 365, L162-L167	5.1	33
20	Modelling the spin pulse profile of the isolated neutron star RX J0720.4-3125 observed with XMM-Newton. *Astronomy and Astrophysics*, **2001**, 365, L302-L307	5.1	32
19	Isolated Neutron Stars: Accretors and Coolers. *Publications of the Astronomical Society of the Pacific* , **2000**, 112, 297-314	5	125
18	Bar Mode Instability in Relativistic Rotating Stars **2000**, 271-282		
17	Magnetized Atmospheres around Neutron Stars Accreting at Low Rates. *Astrophysical Journal*, **2000**, 537, 387-395	4.7	45
16	Neutron stars accreting the ISM: Are they fast or slow objects?. *Nuclear Physics, Section B, Proceedings Supplements*, **1999**, 69, 249-252		1
15	The Elusiveness of Old Neutron Stars. *Astrophysical Journal*, **1998**, 501, 252-257	4.7	28
14	Bar Mode Instability in Relativistic Rotating Stars: A Post-Newtonian Treatment. *Astrophysical Journal, Supplement Series*, **1998**, 117, 531-561	8	24
13	Hot Atmospheres around Accreting Neutron Stars: A Possible Source for Hard X-Ray Emission. *Astrophysical Journal*, **1998**, 501, 258-262	4.7	10

12	High-Energy Emission from Accreting Neutron Stars **1998**, 467-472		
11	On Electrostatic Positron Acceleration in the Accretion Flow onto Neutron Stars. *Astrophysical Journal*, **1997**, 482, 377-382	4.7	4
10	Dynamical Comptonization in spherical flows: black hole accretion and stellar winds. *Monthly Notices of the Royal Astronomical Society*, **1996**, 283, 881-891	4.3	6
9	General Relativistic Radiative Transfer in Hot Astrophysical Plasmas: A Characteristic Approach. *Astrophysical Journal*, **1996**, 466, 871	4.7	27
8	Old Isolated Accreting Neutron Stars: the Diffuse X-Ray Emission from the Galactic Center. *Astrophysical Journal*, **1996**, 471, 248-253	4.7	11
7	X-ray spectra from neutron stars accreting at low rates. *Astrophysical Journal*, **1995**, 439, 849	4.7	108
6	Old Isolated Accreting Neutron Stars: Contribution to the Soft X-Ray Background in the 0.5--2 keV Band. *Astrophysical Journal*, **1995**, 451, 739	4.7	24
5	Multi-messenger astrophysics with THESEUS in the 2030s. *Experimental Astronomy*,1	1.3	2
4	A polarized view of the hot and violent universe. *Experimental Astronomy*,1	1.3	2
3	Gamma ray burst studies with THESEUS. *Experimental Astronomy*,1	1.3	2
2	Gamma-ray astrophysics in the MeV range. *Experimental Astronomy*,1	1.3	4
1	Exploration of the high-redshift universe enabled by THESEUS. *Experimental Astronomy*,1	1.3	5