Silvia Zane

List of Publications by Citations

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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	A low-magnetic-field soft gamma repeater. *Science*, **2010**, 330, 944-6	33.3	238
208	Magnetars: the physics behind observations. A review. *Reports on Progress in Physics*, **2015**, 78, 116901	14.4	226
207	The Large Observatory for X-ray Timing (LOFT). *Experimental Astronomy*, **2012**, 34, 415-444	1.3	148
206	Isolated Neutron Stars: Accretors and Coolers. *Publications of the Astronomical Society of the Pacific* , **2000**, 112, 297-314	5	125
205	A variable absorption feature in the X-ray spectrum of a magnetar. *Nature*, **2013**, 500, 312-4	50.4	124
204	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
203	A NEW LOW MAGNETIC FIELD MAGNETAR: THE 2011 OUTBURST OF SWIFT J1822.3−1606. *Astrophysical Journal*, **2012**, 754, 27	4.7	109
202	X-ray spectra from neutron stars accreting at low rates. *Astrophysical Journal*, **1995**, 439, 849	4.7	108
201	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
200	THE OUTBURST DECAY OF THE LOW MAGNETIC FIELD MAGNETAR SGR 0418+5729. *Astrophysical Journal*, **2013**, 770, 65	4.7	100
199	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
198	The enhanced X-ray Timing and Polarimetry mission–eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	95
197	Resonant Cyclotron Scattering in Magnetars' Emission. *Astrophysical Journal*, **2008**, 686, 1245-1260	4.7	94
196	Proton Cyclotron Features in Thermal Spectra of Ultramagnetized Neutron Stars. *Astrophysical Journal*, **2001**, 560, 384-389	4.7	93
195	Bare Quark Stars or Naked Neutron Stars? The Case of RX J1856.5−3754. *Astrophysical Journal*, **2004**, 603, 265-282	4.7	93
194	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
193	A STRONGLY MAGNETIZED PULSAR WITHIN THE GRASP OF THE MILKY WAY'S SUPERMASSIVE BLACK HOLE. *Astrophysical Journal Letters*, **2013**, 775, L34	7.9	89

192	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
191	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
190	Discovery of Cyclotron Resonance Features in the Soft Gamma Repeater SGR 1806−20. *Astrophysical Journal*, **2002**, 574, L51-L55	4.7	87
189	XIPE: the X-ray imaging polarimetry explorer. *Experimental Astronomy*, **2013**, 36, 523-567	1.3	85
188	ASwiftGaze into the 2006 March 29 Burst Forest of SGR 1900+14. *Astrophysical Journal*, **2008**, 685, 1114-1128	4.7	84
187	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
186	eXTP: Enhanced X-ray Timing and Polarization mission **2016**,		73
185	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
184	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
183	Evidence for precession of the isolated neutron star RX J0720.4-3125. *Astronomy and Astrophysics*, **2006**, 451, L17-L21	5.1	69
182	The discovery, monitoring and environment of SGR−1935+2154. *Monthly Notices of the Royal Astronomical Society*, **2016**, 457, 3448-3456	4.3	67
181	IS SGR 0418+5729 INDEED A WANING MAGNETAR?. *Astrophysical Journal*, **2011**, 740, 105	4.7	67
180	Very Early Optical Afterglows of Gamma-Ray Bursts: Evidence for Relative Paucity of Detection. *Astrophysical Journal*, **2006**, 652, 1416-1422	4.7	67
179	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
178	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
177	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
176	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
175	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

174	Dense matter with eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	59
173	From outburst to quiescence: the decay of the transient AXP XTE J1810-197. *Astronomy and Astrophysics*, **2009**, 498, 195-207	5.1	55
172	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
171	NEW LIMITS ON RADIO EMISSION FROM X-RAY DIM ISOLATED NEUTRON STARS. *Astrophysical Journal*, **2009**, 702, 692-706	4.7	50
170	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
169	The 2008 May burst activation of SGR 1627-41. *Monthly Notices of the Royal Astronomical Society: Letters*, **2008**, 390, L34-L38	4.3	49
168	The FirstXMM-NewtonObservations of the Soft Gamma-Ray Repeater SGR 1900+14. *Astrophysical Journal*, **2006**, 653, 1423-1428	4.7	48
167	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
166	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
165	Magnetized Atmospheres around Neutron Stars Accreting at Low Rates. *Astrophysical Journal*, **2000**, 537, 387-395	4.7	45
164	The 2008 October Swift detection of X-ray bursts/outburst from the transient SGR-like AXP 1E 1547.0 408. *Monthly Notices of the Royal Astronomical Society*, **2010**, 408, 1387-1395	4.3	44
163	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
162	XMM-NewtonObservations of PSR B1706 44. *Astrophysical Journal*, **2004**, 600, 343-350	4.7	44
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	Pronounced Long-Term Flux Variability of the Anomalous X-Ray Pulsar 1E 1048.1 5937. *Astrophysical Journal*, **2004**, 608, 427-431	4.7	43
159	The nature of the outflow in gamma-ray bursts. *Monthly Notices of the Royal Astronomical Society: Letters*, **2007**, 376, L57-L61	4.3	42
158	Swift and optical observations of GRB 050401. *Monthly Notices of the Royal Astronomical Society*, **2006**, 365, 1031-1038	4.3	39
157	First XMM-Newton observations of an isolated neutron star: RX J0720.4-3125. *Astronomy and Astrophysics*, **2001**, 365, L298-L301	5.1	39

156	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
155	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
154	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
153	SUZAKU OBSERVATION OF THE NEW SOFT GAMMA REPEATER SGR 0501+4516 IN OUTBURST. *Astrophysical Journal*, **2009**, 693, L122-L126	4.7	33
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151	XMM-Newton observations of Markarian 421. *Astronomy and Astrophysics*, **2001**, 365, L162-L167	5.1	33
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149	The two-component afterglow of Swift GRB 050802. *Monthly Notices of the Royal Astronomical Society*, **2007**, 380, 270-280	4.3	32
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147	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
146	Topology of magnetars external field - I. Axially symmetric fields. *Monthly Notices of the Royal Astronomical Society*, **2009**, 395, 753-763	4.3	31
145	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
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143	Observatory science with eXTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	31
142	SwiftandChandraconfirm the intensity-hardness correlation of the AXP 1RXS J170849.0−400910. *Astronomy and Astrophysics*, **2007**, 463, 1047-1051	5.1	30
141	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
140	Polarization of neutron star surface emission: a systematic analysis. *Monthly Notices of the Royal Astronomical Society*, **2015**, 454, 3254-3266	4.3	28
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138	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
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135	X-ray and radio observations of the magnetar SwiftJ1834.9−0846 and its dust-scattering halo. *Monthly Notices of the Royal Astronomical Society*, **2013**, 429, 3123-3132	4.3	27
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133	General Relativistic Radiative Transfer in Hot Astrophysical Plasmas: A Characteristic Approach. *Astrophysical Journal*, **1996**, 466, 871	4.7	27
132	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
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129	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
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126	A Very Young Radio-loud Magnetar. *Astrophysical Journal Letters*, **2020**, 896, L30	7.9	24
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121	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

120	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
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118	WIDE-BANDSUZAKUANALYSIS OF THE PERSISTENT EMISSION FROM SGR 0501+4516 DURING THE 2008 OUTBURST. *Astrophysical Journal*, **2010**, 715, 665-670	4.7	23
117	Adaptive optics, near-infrared observations of magnetars. *Astronomy and Astrophysics*, **2008**, 482, 607-615	5.1	23
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113	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
112	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
111	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
110	LOFT: the Large Observatory For X-ray Timing **2012**,		21
109	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
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95	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
94	Highly ionized Fe K emission lines from the LINER galaxy M 81. *Astronomy and Astrophysics*, **2004**, 422, 77-84	5.1	16
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92	Our distorted view of magnetars: application of the resonant cyclotron scattering model. *Astrophysics and Space Science*, **2007**, 308, 61-65	1.6	15
91	The proper motion of the isolated neutron star RX J1605.3+3249. *Astronomy and Astrophysics*, **2006** , 457, 619-622	5.1	15
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88	Three-dimensional Modeling of the Magnetothermal Evolution of Neutron Stars: Method and Test Cases. *Astrophysical Journal*, **2020**, 903, 40	4.7	13
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81	A large area detector proposed for the Large Observatory for X-ray Timing (LOFT) **2012**,		11
80	Old Isolated Accreting Neutron Stars: the Diffuse X-Ray Emission from the Galactic Center. *Astrophysical Journal*, **1996**, 471, 248-253	4.7	11
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77	STROBE-X: a probe-class mission for x-ray spectroscopy and timing on timescales from microseconds to years **2018**,		10
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75	The Large Observatory for x-ray timing **2014**,		9
74	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
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71	The LOFT mission concept: a status update **2016**,		7
70	XMM-Newton observations of the Vela pulsar. *Advances in Space Research*, **2004**, 33, 503-506	2.4	7
69	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
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67	ORIGIN: metal creation and evolution from the cosmic dawn. *Experimental Astronomy*, **2012**, 34, 519-549	1.3	6

66	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
65	Neutron star surface emission: Beyond the dipole model. *Astrophysics and Space Science*, **2007**, 308, 259-265	2.6	6
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62	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
61	X-Ray Emission from Isolated Neutron Stars Revisited: 3D Magnetothermal Simulations. *Astrophysical Journal*, **2021**, 914, 118	4.7	6
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58	The large area detector onboard the eXTP mission **2018**,		5
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56	XIPE: the x-ray imaging polarimetry explorer **2016**,		5
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52	The large area detector of LOFT: the Large Observatory for X-ray Timing **2014**,		4
51	Magnetar spectra and twisted magnetospheres. *Advances in Space Research*, **2011**, 47, 1305-1311	2.4	4
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