# Silvia Zane

List of Publications by Year
in descending order

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| 236 | 7,334 | 47006 | 74163 |
| --- | --- | --- | --- |
| papers | citations | 47 | 75 |
| | | h-index | g-index |

| 244 | 244 | 244 | 3746 |
| --- | --- | --- | --- |
| all docs | docs citations | times ranked | citing authors |

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|---|---|---|---|
| 1 | Magnetars: the physics behind observations. A review. Reports on Progress in Physics, 2015, 78, 116901. | 20.1 | 305 |
| 2 | A Low-Magnetic-Field Soft Gamma Repeater. Science, 2010, 330, 944-946. | 12.6 | 258 |
| 3 | The enhanced X-ray Timing and Polarimetry missionâ€"eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1. | 5.1 | 178 |
| 4 | Science with e-ASTROGAM. Journal of High Energy Astrophysics, 2018, 19, 1-106. | 6.7 | 177 |
| 5 | The Large Observatory for X-ray Timing (LOFT). Experimental Astronomy, 2012, 34, 415-444. | 3.7 | 168 |
| 6 | A variable absorption feature in the X-ray spectrum of a magnetar. Nature, 2013, 500, 312-314. | 27.8 | 157 |
| 7 | Isolated Neutron Stars: Accretors and Coolers. Publications of the Astronomical Society of the Pacific, 2000, 112, 297-314. | 3.1 | 134 |
| 8 | SWIFT AND FERMI OBSERVATIONS OF THE EARLY AFTERGLOW OF THE SHORT GAMMA-RAY BURST 090510. Astrophysical Journal Letters, 2010, 709, L146-L151. | 8.3 | 130 |
| 9 | A statistical study of gamma-ray burst afterglows measured by theSwiftUltraviolet Optical Telescope. Monthly Notices of the Royal Astronomical Society, 2009, 395, 490-503. | 4.4 | 118 |
| 10 | A NEW LOW MAGNETIC FIELD MAGNETAR: THE 2011 OUTBURST OF SWIFT J1822.3â€"1606. Astrophysical Journal, 2012, 754, 27. | 4.5 | 116 |
| 11 | Evidence for vacuum birefringence from the first optical-polarimetry measurement of the isolated neutron star RXÂJ1856.5â˜'3754. Monthly Notices of the Royal Astronomical Society, 2017, 465, 492-500. | 4.4 | 115 |
| 12 | X-ray spectra from neutron stars accreting at low rates. Astrophysical Journal, 1995, 439, 849. | 4.5 | 111 |
| 13 | THE OUTBURST DECAY OF THE LOW MAGNETIC FIELD MAGNETAR SGR 0418+5729. Astrophysical Journal, 2013, 770, 65. | 4.5 | 109 |
| 14 | eXTP: Enhanced X-ray Timing and Polarization mission. Proceedings of SPIE, 2016, , . | 0.8 | 106 |
| 15 | XIPE: the X-ray imaging polarimetry explorer. Experimental Astronomy, 2013, 36, 523-567. | 3.7 | 103 |
| 16 | X-ray spectra from magnetar candidates â€" I. Monte Carlo simulations in the non-relativistic regime. Monthly Notices of the Royal Astronomical Society, 2008, 386, 1527-1542. | 4.4 | 101 |
| 17 | Discovery of Cyclotron Resonance Features in the Soft Gamma Repeater SGR 1806â˜'20. Astrophysical Journal, 2002, 574, L51-L55. | 4.5 | 99 |
| 18 | Bare Quark Stars or Naked Neutron Stars? The Case of RX J1856.5â˜'3754. Astrophysical Journal, 2004, 603, 265-282. | 4.5 | 99 |

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| 19 | The discovery, monitoring and environment of SGRÂJ1935+2154. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3448-3456. | 4.4 | 98 |
| 20 | Resonant Cyclotron Scattering in Magnetarsâ€™ Emission. Astrophysical Journal, 2008, 686, 1245-1260. | 4.5 | 97 |
| 21 | A STRONGLY MAGNETIZED PULSAR WITHIN THE GRASP OF THE MILKY WAY'S SUPERMASSIVE BLACK HOLE. Astrophysical Journal Letters, 2013, 775, L34. | 8.3 | 96 |
| 22 | Proton Cyclotron Features in Thermal Spectra of Ultramagnetized Neutron Stars. Astrophysical Journal, 2001, 560, 384-389. | 4.5 | 95 |
| 23 | ASwiftGaze into the 2006 March 29 Burst Forest of SGR 1900+14. Astrophysical Journal, 2008, 685, 1114-1128. | 4.5 | 94 |
| 24 | The first outburst of the new magnetar candidate SGRâ€ƒ0501+4516. Monthly Notices of the Royal Astronomical Society, 2009, 396, 2419-2432. | 4.4 | 90 |
| 25 | THE DUST-SCATTERING X-RAY RINGS OF THE ANOMALOUS X-RAY PULSAR 1E 1547.0-5408. Astrophysical Journal, 2010, 710, 227-235. | 4.5 | 87 |
| 26 | AnXMMâ€NewtonView of the Soft Gamma Repeater SGR 1806â^'20: Longâ€Term Variability in the Preâ€“Giant Flare Epoch. Astrophysical Journal, 2005, 628, 938-945. | 4.5 | 82 |
| 27 | Dense matter with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1. | 5.1 | 81 |
| 28 | Very Early Optical Afterglows of Gammaâ€Ray Bursts: Evidence for Relative Paucity of Detection. Astrophysical Journal, 2006, 652, 1416-1422. | 4.5 | 75 |
| 29 | The isolated neutron star X-ray pulsars RX J0420.0â€“5022 and RX J0806.4â€“4123: New X-ray and optical observations. Astronomy and Astrophysics, 2004, 424, 635-645. | 5.1 | 74 |
| 30 | Evidence for precession of the isolated neutron star RX J0720.4-3125. Astronomy and Astrophysics, 2006, 451, L17-L21. | 5.1 | 71 |
| 31 | STRONG BURSTS FROM THE ANOMALOUS X-RAY PULSAR 1E 1547.0â€“5408 OBSERVED WITH THE INTEGRAL /SPI ANTI-COINCIDENCE SHIELD. Astrophysical Journal, 2009, 696, L74-L78. | 4.5 | 69 |
| 32 | IS SGR 0418+5729 INDEED A WANING MAGNETAR?. Astrophysical Journal, 2011, 740, 105. | 4.5 | 69 |
| 33 | 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. | 4.4 | 68 |
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| 35 | Post-glitch variability in the anomalous X-ray pulsar 1RXS J170849.0â€“400910. Monthly Notices of the Royal Astronomical Society, 2005, 361, 710-718. | 4.4 | 64 |
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| 38 | From outburst to quiescence: the decay of the transient AXPÂXTEÂJ1810-197. Astronomy and Astrophysics, 2009, 498, 195-207. | 5.1 | 55 |
| 39 | The FirstXMMâ€NewtonObservations of the Soft Gammaâ€Ray Repeater SGR 1900+14. Astrophysical Journal, 2006, 653, 1423-1428. | 4.5 | 54 |
| 40 | Timing analysis of the isolated neutron star RX J0720.4-3125. Monthly Notices of the Royal Astronomical Society, 2002, 334, 345-354. | 4.4 | 52 |
| 41 | The Gamma-Ray Giant Flare from SGR 1806-20: Evidence of Crustal Cracking via Initial Timescales. Astrophysical Journal, 2005, 627, L129-L132. | 4.5 | 51 |
| 42 | 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. | 4.4 | 51 |
| 43 | Observatory science with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1. | 5.1 | 50 |
| 44 | Extreme properties of GRBâ€ƒ061007: a highly energetic or a highly collimated burst?. Monthly Notices of the Royal Astronomical Society, 0, 380, 1041-1052. | 4.4 | 49 |
| 45 | The 2008 May burst activation of SGR 1627â€“41. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 390, L34-L38. | 3.3 | 49 |
| 46 | Evidence for the magnetar nature of 1EÂ161348â˜’5055 in RCWÂ103. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2394-2404. | 4.4 | 49 |
| 47 | 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. | 4.4 | 48 |
| 48 | Magnetized Atmospheres around Neutron Stars Accreting at Low Rates. Astrophysical Journal, 2000, 537, 387-395. | 4.5 | 48 |
| 49 | The nature of the outflow in gamma-ray bursts. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 376, L57-L61. | 3.3 | 47 |
| 50 | The 2008 Octoberâ€,Swiftâ€,detection of X-ray bursts/outburst from the transient SGR-like AXP 1Eâ€ƒ1547.0â˜’5408. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1387-1395. | 4.4 | 46 |
| 51 | XMMâ€NewtonObservations of PSR B1706â˜’44. Astrophysical Journal, 2004, 600, 343-350. | 4.5 | 45 |
| 52 | The X-ray outburst of the Galactic Centre magnetar SGRÂJ1745â˜’2900 during the first 1.5Âyear. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2685-2699. | 4.4 | 45 |
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| 59 | Polarized thermal emission from X-ray dim isolated neutron stars: the case of RX J1856.5â˜3754. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3585-3595. | 4.4 | 39 |
| 60 | First XMM-Newton observations of an isolated neutron star: RX J0720.4-3125. Astronomy and Astrophysics, 2001, 365, L298-L301. | 5.1 | 39 |
| 61 | Very deep X-ray observations of the anomalous X-ray pulsar 4Uâ€ƒ0142+614. Monthly Notices of the Royal Astronomical Society, 2007, 381, 293-300. | 4.4 | 38 |
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| 64 | A Very Young Radio-loud Magnetar. Astrophysical Journal Letters, 2020, 896, L30. | 8.3 | 36 |
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| 70 | 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 |
| 71 | XMM-Newton observations of the Soft Gamma Ray Repeater SGRÂ1627-41 in a low luminosity state. Astronomy and Astrophysics, 2006, 450, 759-762. | 5.1 | 32 |
| 72 | Highâ€Resolution Xâ€Ray Spectroscopy of Hercules Xâ€1 with theXMMâ€NewtonReflection Grating Spectrometer: CNO Element Abundance Measurements and Density Diagnostics of a Photoionized Plasma. Astrophysical Journal, 2002, 578, 391-404. | 4.5 | 31 |

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| 75 | XMM-NEWTON DISCOVERY OF 2.6 s PULSATIONS IN THE SOFT GAMMA-RAY REPEATER SGR 1627â€“41. Astrophysical Journal, 2009, 690, L105-L109. | 4.5 | 30 |
| 76 | Three-dimensional Modeling of the Magnetothermal Evolution of Neutron Stars: Method and Test Cases. Astrophysical Journal, 2020, 903, 40. | 4.5 | 30 |
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| 79 | Adaptive optics, near-infrared observations of magnetars. Astronomy and Astrophysics, 2008, 482, 607-615. | 5.1 | 28 |
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| 81 | 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. | 4.4 | 28 |
| 82 | General Relativistic Radiative Transfer in Hot Astrophysical Plasmas: A Characteristic Approach. Astrophysical Journal, 1996, 466, 871. | 4.5 | 28 |
| 83 | Spectral Modeling of the High-Energy Emission of the Magnetar 4U 0142+614. Astrophysical Journal, 2007, 661, L65-L68. | 4.5 | 27 |
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| 85 | Early X-ray and optical observations of the soft gamma-ray repeater SGRâ€ƒ0418+5729. Monthly Notices of the Royal Astronomical Society, 2010, , . | 4.4 | 27 |
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| 89 | Evidence for Surface Cooling Emission in theXMMâ€NewtonSpectrum of the Xâ€Ray Pulsar PSR B2334+61. Astrophysical Journal, 2006, 639, 377-381. | 4.5 | 26 |
| 90 | 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. | 1.4 | 26 |

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| 91 | Spin-down rate and inferred dipole magnetic field of the soft gamma-ray repeater SGR 1627â€“41. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 399, L44-L48. | 3.3 | 26 |
| 92 | Quiescent state and outburst evolution of SGRÂ0501+4516. Monthly Notices of the Royal Astronomical Society, 2014, 438, 3291-3298. | 4.4 | 26 |
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| 96 | WIDE-BANDSUZAKUANALYSIS OF THE PERSISTENT EMISSION FROM SGR 0501+4516 DURING THE 2008 OUTBURST. Astrophysical Journal, 2010, 715, 665-670. | 4.5 | 24 |
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| 98 | The variable spin-down rate of the transient magnetar XTEÂJ1810â^'197. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2088-2093. | 4.4 | 24 |
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| 102 | 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. | 4.4 | 23 |
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| 108 | The birthplace and age of the isolated neutron star RX J1856.5-3754. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3517-3521. | 4.4 | 22 |

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| 109 | Gamma-ray astrophysics in the MeV range. Experimental Astronomy, 2021, 51, 1225-1254. | 3.7 | 22 |
| 110 | XMM-Newtonreveals a candidate period for the spin of the â€œMagnificent Sevenâ€•neutron star RX J1605.3+3249. Astronomy and Astrophysics, 2014, 563, A50. | 5.1 | 21 |
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| 121 | Highly ionized Fe KÎ±emission lines from the LINER galaxy Mâ€‰81. Astronomy and Astrophysics, 2004, 422, 77-84. | 5.1 | 18 |
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| 123 | Physics and astrophysics of strong magnetic field systems with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1. | 5.1 | 17 |
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| 135 | An Optical Counterpart Candidate for the Isolated Neutron Star RBS 1774. Astrophysical Journal, 2008, 682, 487-491. | 4.5 | 13 |
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