

Luigi Stella

List of Publications by Year in descending order

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75
papers

10,867
citations

71102

41
h-index

82547

72
g-index

75
all docs

75
docs citations

75
times ranked

6144
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | TheSwiftGammaâ€Ray Burst Mission. <i>Astrophysical Journal</i> , 2004, 611, 1005-1020. | 4.5 | 3,117 |
| 2 | X-ray fluorescence from the inner disc in Cygnus X-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 1989, 238, 729-736. | 4.4 | 1,155 |
| 3 | Lense-Thirring Precession and Quasi-periodic Oscillations in Low-Mass X-Ray Binaries. <i>Astrophysical Journal</i> , 1998, 492, L59-L62. | 4.5 | 504 |
| 4 | Swings between rotation and accretion power in a binary millisecond pulsar. <i>Nature</i> , 2013, 501, 517-520. | 27.8 | 355 |
| 5 | Correlations in the Quasi-periodic Oscillation Frequencies of Low-Mass X-Ray Binaries and the Relativistic Precession Model. <i>Astrophysical Journal</i> , 1999, 524, L63-L66. | 4.5 | 341 |
| 6 | kHz Quasiperiodic Oscillations in Low-Mass X-Ray Binaries as Probes of General Relativity in the Strong-Field Regime. <i>Physical Review Letters</i> , 1999, 82, 17-20. | 7.8 | 321 |
| 7 | An accreting pulsar with extreme properties drives an ultraluminous x-ray source in NGC 5907. <i>Science</i> , 2017, 355, 817-819. | 12.6 | 321 |
| 8 | Intermittent stellar wind accretion and the long-term activity of Population I binary systems containing an X-ray pulsar. <i>Astrophysical Journal</i> , 1986, 308, 669. | 4.5 | 300 |
| 9 | The ABC of Lowâ€Frequency Quasiâ€periodic Oscillations in Black Hole Candidates: Analogies with Z Sources. <i>Astrophysical Journal</i> , 2005, 629, 403-407. | 4.5 | 285 |
| 10 | The Discovery of Rapid X-Ray Oscillations in the Tail of the SGR 1806-20 Hyperflare. <i>Astrophysical Journal</i> , 2005, 628, L53-L56. | 4.5 | 274 |
| 11 | A Low-Magnetic-Field Soft Gamma Repeater. <i>Science</i> , 2010, 330, 944-946. | 12.6 | 258 |
| 12 | Discovery of a 0.42-s pulsar in the ultraluminous X-ray source NGCâˆ7793 P13. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 466, L48-L52. | 3.3 | 257 |
| 13 | <i>Colloquium</i>: Measuring the neutron star equation of state using x-ray timing. <i>Reviews of Modern Physics</i> , 2016, 88, . | 45.6 | 234 |
| 14 | A study of the low-frequency quasi-periodic oscillations in the X-ray light curves of the black hole candidate XTE J1859+226. <i>Astronomy and Astrophysics</i> , 2004, 426, 587-600. | 5.1 | 169 |
| 15 | The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444. | 3.7 | 168 |
| 16 | Precise mass and spin measurements for a stellar-mass black hole through X-ray timing: the case of GRO J1655âˆ40. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2554-2565. | 4.4 | 165 |
| 17 | A variable absorption feature in the X-ray spectrum of a magnetar. <i>Nature</i> , 2013, 500, 312-314. | 27.8 | 157 |
| 18 | A NEW LOW MAGNETIC FIELD MAGNETAR: THE 2011 OUTBURST OF SWIFT J1822.3â€1606. <i>Astrophysical Journal</i> , 2012, 754, 27. | 4.5 | 116 |

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|----|--|------|-----------|
| 19 | THE OUTBURST DECAY OF THE LOW MAGNETIC FIELD MAGNETAR SGR 0418+5729. <i>Astrophysical Journal</i> , 2013, 770, 65. | 4.5 | 109 |
| 20 | eXTP: Enhanced X-ray Timing and Polarization mission. <i>Proceedings of SPIE</i> , 2016, . | 0.8 | 106 |
| 21 | Discovery of a 2.8 s Pulsar in a 2 Day Orbit High-mass X-Ray Binary Powering the Ultraluminous X-Ray Source ULX-7 in M51. <i>Astrophysical Journal</i> , 2020, 895, 60. | 4.5 | 106 |
| 22 | Measuring black hole mass through variable line profiles from accretion disks. <i>Nature</i> , 1990, 344, 747-749. | 27.8 | 100 |
| 23 | A New Technique for the Detection of Periodic Signals in "Colored" Power Spectra. <i>Astrophysical Journal</i> , 1996, 468, 369. | 4.5 | 96 |
| 24 | A STRONGLY MAGNETIZED PULSAR WITHIN THE GRASP OF THE MILKY WAY'S SUPERMASSIVE BLACK HOLE. <i>Astrophysical Journal Letters</i> , 2013, 775, L34. | 8.3 | 96 |
| 25 | Where May Ultrafast Rotating Neutron Stars Be Hidden?. <i>Astrophysical Journal</i> , 2001, 560, L71-L74. | 4.5 | 90 |
| 26 | The Glitches of the Anomalous X-ray Pulsar 1RXS J170849.0-400910. <i>Astrophysical Journal</i> , 2003, 599, 485-497. | 4.5 | 90 |
| 27 | The first outburst of the new magnetar candidate SGR 0501+4516. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 2419-2432. | 4.4 | 90 |
| 28 | THE DUST-SCATTERING X-RAY RINGS OF THE ANOMALOUS X-RAY PULSAR 1E 1547.0-5408. <i>Astrophysical Journal</i> , 2010, 710, 227-235. | 4.5 | 87 |
| 29 | Pulsator-like Spectra from Ultraluminous X-Ray Sources and the Search for More Ultraluminous Pulsars. <i>Astrophysical Journal</i> , 2017, 836, 113. | 4.5 | 82 |
| 30 | Black hole spin measurements through the relativistic precession model: XTE J1550-564. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 439, L65-L69. | 3.3 | 77 |
| 31 | Relativistic Precession around Rotating Neutron Stars: Effects Due to Frame Dragging and Stellar Oblateness. <i>Astrophysical Journal</i> , 1999, 513, 827-844. | 4.5 | 75 |
| 32 | The Quiescent X-ray Emission of Three Transient X-ray Pulsars. <i>Astrophysical Journal</i> , 2002, 580, 389-393. | 4.5 | 72 |
| 33 | On the Bolometric Quiescent Luminosity and Luminosity Swing of Black Hole Candidate and Neutron Star Low-Mass X-ray Transients. <i>Astrophysical Journal</i> , 2000, 541, 849-859. | 4.5 | 70 |
| 34 | Optical pulsations from a transitional millisecond pulsar. <i>Nature Astronomy</i> , 2017, 1, 854-858. | 10.1 | 67 |
| 35 | Fast Variability from Black-Hole Binaries. <i>Space Science Reviews</i> , 2014, 183, 43-60. | 8.1 | 66 |
| 36 | The Transient X-ray Pulsar 4U 0115+63 from Quiescence to Outburst through the Centrifugal Transition. <i>Astrophysical Journal</i> , 2001, 561, 924-929. | 4.5 | 63 |

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|----|---|-----|-----------|
| 37 | TESTING GRAVITY WITH QUASI-PERIODIC OSCILLATIONS FROM ACCRETING BLACK HOLES: THE CASE OF THE EINSTEINâ€“DILATONâ€“GAUSSâ€“BONNET THEORY. <i>Astrophysical Journal</i> , 2015, 801, 115. | 4.5 | 63 |
| 38 | NuSTAR J095551+6940.8: a highly magnetized neutron star with super-Eddington mass accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 2144-2150. | 4.4 | 62 |
| 39 | The 2008 Octoberâ€“Swiftâ€“detection of X-ray bursts/outburst from the transient SGR-like AXP 1Eâ€“f1547.0â€“5408. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1387-1395. | 4.4 | 46 |
| 40 | Hiccup accretion in the swinging pulsar IGRâ€“%J18245â€“2452. <i>Astronomy and Astrophysics</i> , 2014, 567, A77. | 5.1 | 46 |
| 41 | The X-ray outburst of the Galactic Centre magnetar SGRâ€“J1745â€“2900 during the first 1.5â€“year. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 2685-2699. | 4.4 | 45 |
| 42 | Multi-instrument X-ray monitoring of the January 2009 outburst from the recurrent magnetar candidate 1Eâ€“%1547.0-5408. <i>Astronomy and Astrophysics</i> , 2011, 529, A19. | 5.1 | 41 |
| 43 | Can disk-magnetosphere interaction models and beat frequency models for quasi-periodic oscillation in accreting X-ray pulsars beâ€“reconciled?. <i>Astronomy and Astrophysics</i> , 2009, 493, 809-818. | 5.1 | 41 |
| 44 | Geodesic Models of Quasi-periodic-oscillations as Probes of Quadratic Gravity. <i>Astrophysical Journal</i> , 2017, 843, 25. | 4.5 | 40 |
| 45 | Pulsating in Unison at Optical and X-Ray Energies: Simultaneous High Time Resolution Observations of the Transitional Millisecond Pulsar PSR J1023+0038. <i>Astrophysical Journal</i> , 2019, 882, 104. | 4.5 | 39 |
| 46 | A universal relation for the propeller mechanisms in magnetic rotating stars at different scales. <i>Astronomy and Astrophysics</i> , 2018, 610, A46. | 5.1 | 38 |
| 47 | A Very Young Radio-loud Magnetar. <i>Astrophysical Journal Letters</i> , 2020, 896, L30. | 8.3 | 36 |
| 48 | The Discovery of Quiescent X-Ray Emission from SAX J1808.4â€“3658, the Transient 2.5 Millisecond Pulsar. <i>Astrophysical Journal</i> , 2000, 537, L115-L118. | 4.5 | 31 |
| 49 | LOW-FREQUENCY OSCILLATIONS IN XTE J1550â€“564. <i>Astrophysical Journal</i> , 2010, 714, 1065-1071. | 4.5 | 30 |
| 50 | Approximate analytical calculations of photon geodesics in the Schwarzschild metric. <i>Astronomy and Astrophysics</i> , 2016, 595, A38. | 5.1 | 23 |
| 51 | Magnetospheric radius of an inclined rotator in the magnetically threaded disk model. <i>Astronomy and Astrophysics</i> , 2018, 617, A126. | 5.1 | 23 |
| 52 | The accretion regimes of a highly magnetized NS: the unique case of NuSTAR J095551+6940.8. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3076-3083. | 4.4 | 20 |
| 53 | <i>XMM-Newton</i> and <i>Swift</i> observations of XTEâ€“%J1743-363. <i>Astronomy and Astrophysics</i> , 2013, 556, A30. | 5.1 | 18 |
| 54 | The First Continuous Optical Monitoring of the Transitional Millisecond Pulsar PSR J1023+0038 with Kepler. <i>Astrophysical Journal Letters</i> , 2018, 858, L12. | 8.3 | 17 |

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|----|--|------|-----------|
| 55 | A New Method to Constrain Neutron Star Structure from Quasi-periodic Oscillations. <i>Astrophysical Journal</i> , 2020, 899, 139. | 4.5 | 17 |
| 56 | The radius of a magnetosphere in the radiation pressure dominated region of an accretion disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 1988, 231, 325-331. | 4.4 | 16 |
| 57 | The pulse profile and spin evolution of the accreting pulsar in Terzanâ€f5, IGRâ€f117480âˆ2446, during its 2010 outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1178-1193. | 4.4 | 16 |
| 58 | Diffuse X-ray emission around an ultraluminous X-ray pulsar. <i>Nature Astronomy</i> , 2020, 4, 147-152. | 10.1 | 16 |
| 59 | Optical and ultraviolet pulsed emission from an accreting millisecond pulsar. <i>Nature Astronomy</i> , 2021, 5, 552-559. | 10.1 | 15 |
| 60 | The Ultraluminous X-Ray Sources Population of the Galaxy NGC 7456. <i>Astrophysical Journal</i> , 2020, 890, 166. | 4.5 | 13 |
| 61 | The Large Observatory for x-ray timing. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 10 |
| 62 | LOFT: a large observatory for x-ray timing. <i>Proceedings of SPIE</i> , 2010, , . | 0.8 | 9 |
| 63 | The LOFT mission concept: a status update. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 9 |
| 64 | X-Ray and Radio Bursts from the Magnetar 1E 1547.0â€5408. <i>Astrophysical Journal</i> , 2021, 907, 7. | 4.5 | 9 |
| 65 | The X-Ray Outburst of the Galactic Center Magnetar over Six Years of Chandra Observations. <i>Astrophysical Journal</i> , 2020, 894, 159. | 4.5 | 8 |
| 66 | A New Approximation of Photon Geodesics in Schwarzschild Spacetime. <i>Research Notes of the AAS</i> , 2019, 3, 99. | 0.7 | 7 |
| 67 | Exploring higher order images with Fe K_{\pm} -lines from relativistic discs: black hole spin determination and bias. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3424-3434. | 4.4 | 5 |
| 68 | Millisecond Magnetars. <i>Astrophysics and Space Science Library</i> , 2022, , 245-280. | 2.7 | 5 |
| 69 | Large Observatory for x-ray Timing (LOFT-P): a Probe-class mission concept study. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 4 |
| 70 | Discovery of a 3 s Spinning Neutron Star in a 4.15 hr Orbit in the Brightest Hard X-Ray Source in M31. <i>Astrophysical Journal Letters</i> , 2018, 861, L26. | 8.3 | 4 |
| 71 | A phaseâ€variable absorption feature in the Xâ€ray spectrum of the magnetar SGR 0418+5729. <i>Astronomische Nachrichten</i> , 2014, 335, 274-279. | 1.2 | 2 |
| 72 | Neutron Star Radius-to-mass Ratio from Partial Accretion Disk Occultation as Measured through Fe K_{\pm} Line Profiles. <i>Astrophysical Journal</i> , 2020, 893, 129. | 4.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | UV and X-ray pulse amplitude variability in the transitional millisecond pulsar PSR J1023+0038. <i>Astronomy and Astrophysics</i> , 0, , . | 5.1 | 2 |
| 74 | Observing GRBs with the <i>LOFT</i> Wide Field Monitor. <i>EAS Publications Series</i> , 2013, 61, 617-623. | 0.3 | 0 |
| 75 | Probing the Strong (Stationary) Gravitational Field of Accreting Black Holes with X-ray Observations. <i>Foundations of Physics</i> , 2018, 48, 1500-1516. | 1.3 | 0 |