

Tod E Strohmayer

List of Publications by Year in descending order

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94
papers

7,486
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94433

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docs citations

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3319
citing authors

#	ARTICLE	IF	CITATIONS
1	PSR J0030+0451 Mass and Radius from NICER Data and Implications for the Properties of Neutron Star Matter. <i>Astrophysical Journal Letters</i> , 2019, 887, L24.	8.3	978
2	A NICER View of PSR J0030+0451: Millisecond Pulsar Parameter Estimation. <i>Astrophysical Journal Letters</i> , 2019, 887, L21.	8.3	914
3	Calibration of the Rossi X-ray Timing Explorer Proportional Counter Array. <i>Astrophysical Journal, Supplement Series</i> , 2006, 163, 401-423.	7.7	503
4	<title>In-orbit performance and calibration of the Rossi X-ray Timing Explorer (RXTE) Proportional Counter Array (PCA)</title>. , 1996, , .		495
5	Millisecond X-Ray Variability from an Accreting Neutron Star System. <i>Astrophysical Journal</i> , 1996, 469, L9-L12.	4.5	378
6	New views of thermonuclear bursts. , 2006, , 113-156.		218
7	Discovery of Fast X-Ray Oscillations during the 1998 Giant Flare from SGR 1900+14. <i>Astrophysical Journal</i> , 2005, 632, L111-L114.	4.5	193
8	A Remarkable 3 Hour Thermonuclear Burst from 4U 1820 $\hat{\sim}$ 30. <i>Astrophysical Journal</i> , 2002, 566, 1045-1059.	4.5	191
9	The 2004 Hyperflare from SGR 1806 $\hat{\sim}$ 20: Further Evidence for Global Torsional Vibrations. <i>Astrophysical Journal</i> , 2006, 653, 593-601.	4.5	167
10	A 400-solar-mass black hole in the galaxy M82. <i>Nature</i> , 2014, 513, 74-76.	27.8	156
11	Discovery of a Second Millisecond Accreting Pulsar: XTE J1751 $\hat{\sim}$ 305. <i>Astrophysical Journal</i> , 2002, 575, L21-L24.	4.5	150
12	Flows of X-ray gas reveal the disruption of a star by a massive black hole. <i>Nature</i> , 2015, 526, 542-545.	27.8	144
13	RELATIVISTIC LINES AND REFLECTION FROM THE INNER ACCRETION DISKS AROUND NEUTRON STARS. <i>Astrophysical Journal</i> , 2010, 720, 205-225.	4.5	136
14	Evidence for a Millisecond Pulsar in 4U 1636 $\hat{\sim}$ 53 during a Superburst. <i>Astrophysical Journal</i> , 2002, 577, 337-345.	4.5	130
15	Relativistic Iron Emission Lines in Neutron Star Low-Mass X-ray Binaries as Probes of Neutron Star Radii. <i>Astrophysical Journal</i> , 2008, 674, 415-420.	4.5	122
16	363 H[CLC]z[/CLC] Oscillations during the Rising Phase of Bursts from 4U 1728 $\hat{\sim}$ 34: Evidence for Rotational Modulation. <i>Astrophysical Journal</i> , 1997, 487, L77-L80.	4.5	117
17	Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. I. The Millisecond Pulsar X-Ray Data Set. <i>Astrophysical Journal Letters</i> , 2019, 887, L25.	8.3	110
18	Variable Spin-Down in the Soft Gamma Repeater SGR 1900+14 and Correlations with Burst Activity. <i>Astrophysical Journal</i> , 1999, 524, L55-L58.	4.5	101

#	ARTICLE	IF	CITATIONS
19	NICER and Fermi GBM Observations of the First Galactic Ultraluminous X-Ray Pulsar Swift J0243.6+6124. <i>Astrophysical Journal</i> , 2018, 863, 9.	4.5	95
20	Constraining the Neutron Star Mass–Radius Relation and Dense Matter Equation of State with NICER. II. Emission from Hot Spots on a Rapidly Rotating Neutron Star. <i>Astrophysical Journal Letters</i> , 2019, 887, L26.	8.3	95
21	On the Amplitude of Burst Oscillations in 4U 1636–54: Evidence for Nuclear-powered Pulsars. <i>Astrophysical Journal</i> , 1998, 498, L135-L139.	4.5	95
22	Discovery of 800 Hz Quasi-periodic Oscillations in 4U 1608–52. <i>Astrophysical Journal</i> , 1996, 469, L13-L16.	4.5	94
23	Dense matter with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	81
24	Constraints on Neutron Star Parameters from Burst Oscillation Light Curves of the Accreting Millisecond Pulsar XTE J1814–338. <i>Astrophysical Journal</i> , 2005, 619, 483-491.	4.5	73
25	Discovery of the Neutron Star Spin Frequency in EXO 0748-676. <i>Astrophysical Journal</i> , 2004, 614, L121-L124.	4.5	71
26	DISCOVERY OF A SECOND TRANSIENT LOW-MASS X-RAY BINARY IN THE GLOBULAR CLUSTER NGC 6440. <i>Astrophysical Journal</i> , 2010, 714, 894-903.	4.5	69
27	The Evolution of the Accretion Disk around 4U 1820-30 during a Superburst. <i>Astrophysical Journal</i> , 2004, 602, L105-L108.	4.5	68
28	What ignites on the neutron star of 4U 0614+091?. <i>Astronomy and Astrophysics</i> , 2010, 514, A65.	5.1	65
29	Detection of the irradiated donor in the LMXBs 4U 1636-536 (=V801 Ara) and 4U 1735-444 (=V926 Sco). <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 1235-1244.	4.4	64
30	DISCOVERY OF A 205.89 Hz ACCRETING MILLISECOND X-RAY PULSAR IN THE GLOBULAR CLUSTER NGC 6440. <i>Astrophysical Journal Letters</i> , 2010, 712, L58-L62.	8.3	62
31	UPPER BOUNDS ON r -MODE AMPLITUDES FROM OBSERVATIONS OF LOW-MASS X-RAY BINARY NEUTRON STARS. <i>Astrophysical Journal</i> , 2013, 773, 140.	4.5	57
32	Detection of Reflection Features in the Neutron Star Low-mass X-Ray Binary Serpens X-1 with NICER. <i>Astrophysical Journal Letters</i> , 2018, 858, L5.	8.3	51
33	Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	50
34	Bounds on Compactness for Low-Mass X-Ray Binary Neutron Stars from X-Ray Burst Oscillations. <i>Astrophysical Journal</i> , 2002, 564, 353-360.	4.5	48
35	A Non-PRE Double-peaked Burst from 4U 1636-536: Evidence of Burning Front Propagation. <i>Astrophysical Journal</i> , 2006, 636, L121-L124.	4.5	45
36	NICER X-Ray Observations of Seven Nearby Rotation-powered Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2019, 887, L27.	8.3	45

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37	Precision X-ray Timing of RX J0806.3+1527 with Chandra: Evidence for Gravitational Radiation from an Ultracompact Binary. <i>Astrophysical Journal</i> , 2005, 627, 920-925.	4.5	42
38	A NICER Thermonuclear Burst from the Millisecond X-Ray Pulsar SAX J1808.4-3658. <i>Astrophysical Journal Letters</i> , 2019, 885, L1.	8.3	39
39	Analysis of Variability in the Burst Oscillations of the Accreting Millisecond Pulsar XTE J1814-338. <i>Astrophysical Journal</i> , 2005, 634, 547-564.	4.5	38
40	NICER observations reveal that the X-ray transient MAXI J1348-630 is a black hole X-ray binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 851-861.	4.4	38
41	The 2019 super-Eddington outburst of RX J0209.6-7427: detection of pulsations and constraints on the magnetic field strength. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5350-5359.	4.4	38
42	Light curves of rotating, oscillating neutron stars. <i>Astrophysical Journal</i> , 1992, 388, 138.	4.5	35
43	Discovery of the Spin Frequency of 4U 0614+09 with the Swift Burst Alert Telescope. <i>Astrophysical Journal</i> , 2008, 672, L37-L40.	4.5	33
44	X-RAYING AN ACCRETION DISK IN REALTIME: THE EVOLUTION OF IONIZED REFLECTION DURING A SUPERBURST FROM 4U 1636-536. <i>Astrophysical Journal Letters</i> , 2014, 797, L23.	8.3	33
45	CHARACTERIZING THE EVOLVING X-RAY SPECTRAL FEATURES DURING A SUPERBURST FROM 4U 1636-536. <i>Astrophysical Journal</i> , 2014, 789, 121.	4.5	33
46	X-Ray Reflection and an Exceptionally Long Thermonuclear Helium Burst from IGR J17062-6143. <i>Astrophysical Journal</i> , 2017, 836, 111.	4.5	32
47	NICER Observes the Effects of an X-Ray Burst on the Accretion Environment in Aql X-1. <i>Astrophysical Journal Letters</i> , 2018, 855, L4.	8.3	32
48	NICER Discovers the Ultracompact Orbit of the Accreting Millisecond Pulsar IGR J17062-6143. <i>Astrophysical Journal Letters</i> , 2018, 858, L13.	8.3	31
49	Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. III. Model Description and Verification of Parameter Estimation Codes. <i>Astrophysical Journal Letters</i> , 2021, 914, L15.	8.3	27
50	Signature of Temporary Burning Front Stalling from a Non-Photospheric Radius Expansion Double-peaked Burst. <i>Astrophysical Journal</i> , 2006, 641, L53-L56.	4.5	26
51	Chandra Observations of V407 Vulpeculae: Confirmation of the Spin-up. <i>Astrophysical Journal</i> , 2004, 610, 416-421.	4.5	26
52	X-RAY BURST OSCILLATIONS: FROM FLAME SPREADING TO THE COOLING WAKE. <i>Astrophysical Journal</i> , 2016, 818, 93.	4.5	25
53	Anti-glitches in the Ultraluminous Accreting Pulsar NGC 300 ULX-1 Observed with NICER. <i>Astrophysical Journal</i> , 2019, 879, 130.	4.5	25
54	NICER Detection of Strong Photospheric Expansion during a Thermonuclear X-Ray Burst from 4U 1820-30. <i>Astrophysical Journal Letters</i> , 2018, 856, L37.	8.3	22

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55	IGR J17062-6143 Is an Accreting Millisecond X-Ray Pulsar. <i>Astrophysical Journal Letters</i> , 2017, 836, L23.	8.3	21
56	Discovery of thermonuclear (Type I) X-ray bursts in the X-ray binary Swift J1858.6-0814 observed with <i>NICER</i> and <i>NuSTAR</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 793-803.	4.4	21
57	NICER Observation of the Temporal and Spectral Evolution of Swift J1818.0+1607: A Missing Link between Magnetars and Rotation-powered Pulsars. <i>Astrophysical Journal</i> , 2020, 902, 1.	4.5	21
58	On the Persistence of QPOs during the SGR 1806+20 Giant Flare. <i>Astrophysical Journal</i> , 2019, 871, 95.	4.5	20
59	Searching for Hypermassive Neutron Stars with Short Gamma-Ray Bursts. <i>Astrophysical Journal Letters</i> , 2019, 884, L16.	8.3	20
60	<i>NICER</i> uncovers the transient nature of the type-B quasi-periodic oscillation in the black hole candidate MAXI J1348+630. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 3823-3843.	4.4	20
61	Timing the Pulsations of the Accreting Millisecond Pulsar SAX J1808.4-3658 during Its 2019 Outburst. <i>Astrophysical Journal</i> , 2020, 898, 38.	4.5	20
62	A peculiar type-I X-ray burst from GRS 1747-312. <i>Astronomy and Astrophysics</i> , 2003, 409, 659-663.	5.1	19
63	Detection of Nitrogen and Neon in the X-Ray Spectrum of GP Comae Berenices with XMM/Newton. <i>Astrophysical Journal</i> , 2004, 608, L53-L56.	4.5	17
64	NICER-NuSTAR Observations of the Neutron Star Low-mass X-Ray Binary 4U 1735-44. <i>Astrophysical Journal</i> , 2020, 895, 45.	4.5	17
65	NICER Discovers mHz Oscillations in the Clocked Burster GS 1826+238. <i>Astrophysical Journal</i> , 2018, 865, 63.	4.5	16
66	Thermonuclear Flame Spreading on Rapidly Spinning Neutron Stars: Indications of the Coriolis Force?. <i>Astrophysical Journal</i> , 2007, 666, L85-L88.	4.5	15
67	High-Resolution X-Ray Spectroscopy of RX J0806.3+1527 with <i>Chandra</i> . <i>Astrophysical Journal</i> , 2008, 679, L109-L112.	4.5	15
68	NICER Observes a Secondary Peak in the Decay of a Thermonuclear Burst from 4U 1608-52. <i>Astrophysical Journal</i> , 2019, 883, 61.	4.5	15
69	Dips and eclipses in the X-ray binary Swift J1858.6-0814 observed with <i>NICER</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 5600-5610.	4.4	15
70	X-ray spectral and timing evolution of MAXI J1727-203 with <i>NICER</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 3896-3910.	4.4	14
71	NICER Discovery of Millisecond X-Ray Pulsations and an Ultracompact Orbit in IGR J17494-3030. <i>Astrophysical Journal Letters</i> , 2021, 908, L15.	8.3	14
72	A NICER Look at the Aql X-1 Hard State. <i>Astrophysical Journal Letters</i> , 2018, 859, L1.	8.3	13

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73	The X-Ray Bursts of XTE J1739â€“285: A NICER Sample. <i>Astrophysical Journal</i> , 2021, 907, 79.	4.5	13
74	Long-term Coherent Timing of the Accreting Millisecond Pulsar IGR J17062â€“6143. <i>Astrophysical Journal</i> , 2021, 912, 120.	4.5	13
75	An Unusual Precursor Burst with Oscillations from SAX J1808.4â€“3658. <i>Astrophysical Journal</i> , 2007, 656, 414-419.	4.5	12
76	Pulse Peak Migration during the Outburst Decay of the Magnetar SGR 1830-0645: Crustal Motion and Magnetospheric Untwisting. <i>Astrophysical Journal Letters</i> , 2022, 924, L27.	8.3	12
77	NICER Detects a Soft X-Ray Kilohertz Quasi-periodic Oscillation in 4U 0614+09. <i>Astrophysical Journal Letters</i> , 2018, 860, L9.	8.3	11
78	On the Impact of an Intermediate Duration X-Ray Burst on the Accretion Environment in IGR J17062â€“6143. <i>Astrophysical Journal</i> , 2021, 920, 59.	4.5	11
79	NICER Discovers Spectral Lines during Photospheric Radius Expansion Bursts from 4U 1820â€“30: Evidence for Burst-driven Winds. <i>Astrophysical Journal Letters</i> , 2019, 878, L27.	8.3	10
80	Observations of the Ultra-compact X-Ray Binary 4U 1543-624 in Outburst with NICER, INTEGRAL, Swift, and ATCA. <i>Astrophysical Journal</i> , 2019, 883, 39.	4.5	10
81	On the Curious Pulsation Properties of the Accreting Millisecond Pulsar IGR J17379â€“3747. <i>Astrophysical Journal</i> , 2019, 877, 70.	4.5	9
82	A Comprehensive X-Ray Report on AT2019wey. <i>Astrophysical Journal</i> , 2021, 920, 121.	4.5	8
83	NICER Observation of Unusual Burst Oscillations in 4U 1728-34. <i>Astrophysical Journal</i> , 2019, 878, 145.	4.5	7
84	NICER Monitoring of Supersoft X-Ray Sources. <i>Astrophysical Journal</i> , 2022, 932, 45.	4.5	7
85	RXTE observations of GX 3+1. , 1998, , .		6
86	On the 2018 Outburst of the Accreting Millisecond X-Ray Pulsar Swift J1756.9â€“2508 As Seen with NICER. <i>Astrophysical Journal</i> , 2018, 864, 14.	4.5	6
87	Thermonuclear X-Ray Bursts with Late Secondary Peaks Observed from 4U 1608â€“52. <i>Astrophysical Journal</i> , 2021, 910, 37.	4.5	6
88	A Real-time View of Orbital Evolution in HM Cancri. <i>Astrophysical Journal Letters</i> , 2021, 912, L8.	8.3	6
89	On the peculiar long-term orbital evolution of the eclipsing accreting millisecond X-ray pulsar <i>SWIFT</i> J1749.4â€“2807. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 4385-4397.	4.4	6
90	The Advanced X-ray Timing Array (AXTAR). , 2008, , .		5

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91	Discovery of thermonuclear Type-I X-ray bursts from the X-ray binary MAXI J1807+132. Monthly Notices of the Royal Astronomical Society, 2020, 501, 261-268.	4.4	4
92	A Month of Monitoring the New Magnetar Swift J1555.2-5402 during an X-Ray Outburst. Astrophysical Journal Letters, 2021, 920, L4.	8.3	3
93	Fast X-ray Oscillations During Magnetar Flares. AIP Conference Proceedings, 2008, , .	0.4	2
94	A Smoking Gun in the Carina Nebula. , 2010, , .		0