

Matteo Bachetti

List of Publications by Year in descending order

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10626
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#	ARTICLE	IF	CITATIONS
1	The IXPE instrument calibration equipment. <i>Astroparticle Physics</i> , 2022, 136, 102658.	4.3	16
2	An Algorithm to Calibrate and Correct the Response to Unpolarized Radiation of the X-Ray Polarimeter Onboard IXPE. <i>Astronomical Journal</i> , 2022, 163, 39.	4.7	34
3	Evolution of the Spin, Spectrum and Superorbital Period of the Ultraluminous X-Ray Pulsar M51 ULX7. <i>Astrophysical Journal</i> , 2022, 925, 18.	4.5	5
4	Extending the Baseline for SMC X-1's Spin and Orbital Behavior with NuSTAR Stray Light. <i>Astrophysical Journal</i> , 2022, 926, 187.	4.5	4
5	MAXI and NuSTAR Observations of the Faint X-Ray Transient MAXI J1848-015 in the GLIMPSE-C01 Cluster. <i>Astrophysical Journal</i> , 2022, 927, 190.	4.5	5
6	A Weighted Analysis to Improve the X-Ray Polarization Sensitivity of the Imaging X-ray Polarimetry Explorer. <i>Astronomical Journal</i> , 2022, 163, 170.	4.7	38
7	Accurate X-ray timing in the presence of systematic biases with simulation-based inference. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 5689-5708.	4.4	8
8	Solar Observations with Single-Dish INAF Radio Telescopes: Continuum Imaging in the 18–26 GHz Range. <i>Solar Physics</i> , 2022, 297, .	2.5	2
9	Timing Calibration of the NuSTAR X-Ray Telescope. <i>Astrophysical Journal</i> , 2021, 908, 184.	4.5	17
10	A new candidate pulsating ULX in NGC 7793. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 5485-5494.	4.4	16
11	Extending the Z^2 and H Statistics to Generic Pulsed Profiles. <i>Astrophysical Journal</i> , 2021, 909, 33.	4.5	12
12	PINT: A Modern Software Package for Pulsar Timing. <i>Astrophysical Journal</i> , 2021, 911, 45.	4.5	58
13	NuSTAR reveals the hidden nature of SS433. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1045-1058.	4.4	20
14	Long-term pulse period evolution of the ultra-luminous X-ray pulsar NGC 7793 P13. <i>Astronomy and Astrophysics</i> , 2021, 651, A75.	5.1	13
15	Photospheric Radius Expansion and a Double-peaked Type-I X-Ray Burst from GRS 1741.9–2853. <i>Astrophysical Journal</i> , 2021, 918, 9.	4.5	6
16	The Imaging X-Ray Polarimetry Explorer (IXPE): technical overview IV. , 2021, , .		2
17	Design, construction, and test of the Gas Pixel Detectors for the IXPE mission. <i>Astroparticle Physics</i> , 2021, 133, 102628.	4.3	67
18	The Instrument of the Imaging X-Ray Polarimetry Explorer. <i>Astronomical Journal</i> , 2021, 162, 208.	4.7	68

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19	Spectral and Timing Analysis of NuSTAR and Swift/XRT Observations of the X-Ray Transient MAXI J0637â€“430. <i>Astrophysical Journal</i> , 2021, 921, 155.	4.5	15
20	The unusual broad-band X-ray spectral variability of NGCâ€™1313 X-1 seen with <i>XMMâ€™Newton, Chandra</i>, and <i>NuSTAR</i>. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 6012-6029.	4.4	32
21	All at Once: Transient Pulsations, Spin-down, and a Glitch from the Pulsating Ultraluminous X-Ray Source M82 X-2. <i>Astrophysical Journal</i> , 2020, 891, 44.	4.5	31
22	The Ultraluminous X-Ray Sources Population of the Galaxy NGC 7456. <i>Astrophysical Journal</i> , 2020, 890, 166.	4.5	13
23	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
24	Discovery of a soft X-ray lag in the ultraluminous X-ray source NGCâ€™1313â€™X-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5172-5178.	4.4	20
25	The Imaging X-ray Polarimetry Explorer (IXPE): technical overview III. , 2020, , .		9
26	A new transient ultraluminous X-ray source in NGCâ€™7090. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1002-1012.	4.4	9
27	Investigating the high-frequency spectral features of SNRs Tycho, W44, and IC443 with the Sardinia Radio Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3857-3867.	4.4	15
28	A multi-wavelength pipeline for pulsar searches. <i>Rendiconti Lincei</i> , 2019, 30, 251-253.	2.2	0
29	Stingray: A Modern Python Library for Spectral Timing. <i>Astrophysical Journal</i> , 2019, 881, 39.	4.5	131
30	The discovery of weak coherent pulsations in the ultraluminous X-ray source NGC 1313 X-2. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 488, L35-L40.	3.3	107
31	Observing the Transient Pulsations of SMC X-1 with NuSTAR. <i>Astrophysical Journal</i> , 2019, 875, 144.	4.5	13
32	The multi-outburst activity of the magnetar in Westerlundâ€™I. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 2931-2943.	4.4	7
33	A â€™60 day Super-orbital Period Originating from the Ultraluminous X-Ray Pulsar in M82. <i>Astrophysical Journal</i> , 2019, 873, 115.	4.5	39
34	NuSTAR and Chandra Observations of New X-Ray Transients in the Central Parsec of the Galaxy. <i>Astrophysical Journal</i> , 2019, 885, 142.	4.5	8
35	stingray: A modern Python library for spectral timing. <i>Journal of Open Source Software</i> , 2019, 4, 1393.	4.6	27
36	Magnetic field strength of a neutron-star-powered ultraluminous X-ray source. <i>Nature Astronomy</i> , 2018, 2, 312-316.	10.1	99

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37	Lense-Thirring precession in ULXs as a possible means to constrain the neutron star equation of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 154-166.	4.4	40
38	Discovery of Pulsation Dropout and Turn-on during the High State of the Accreting X-Ray Pulsar LMC X-4. <i>Astrophysical Journal Letters</i> , 2018, 861, L7.	8.3	11
39	Gazing at the ultraslow magnetar in RCW 103 with NuSTAR and Swift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 741-748.	4.4	10
40	Evidence for a variable Ultrafast Outflow in the newly discovered Ultraluminous Pulsar NGC 300 ULX-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3978-3986.	4.4	88
41	The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package. <i>Astronomical Journal</i> , 2018, 156, 123.	4.7	4,142
42	Super-Eddington accretion on to the neutron star NGC 7793 P13: Broad-band X-ray spectroscopy and ultraluminous X-ray sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4360-4376.	4.4	53
43	A Potential Cyclotron Resonant Scattering Feature in the Ultraluminous X-Ray Source Pulsar NGC 300 ULX1 Seen by NuSTAR and XMM-Newton. <i>Astrophysical Journal Letters</i> , 2018, 857, L3.	8.3	64
44	No Time for Dead Time: Use the Fourier Amplitude Differences to Normalize Dead-time-affected Periodograms. <i>Astrophysical Journal Letters</i> , 2018, 853, L21.	8.3	17
45	On the Statistical Properties of Cospectra. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 13.	7.7	10
46	SARDINIA ROACH2-BASED DIGITAL ARCHITECTURE FOR RADIO ASTRONOMY (SARDARA). <i>Journal of Astronomical Instrumentation</i> , 2018, 07, .	1.5	20
47	Evidence for Pulsar-like Emission Components in the Broadband ULX Sample. <i>Astrophysical Journal</i> , 2018, 856, 128.	4.5	112
48	The Imaging X-ray Polarimetry Explorer (IXPE): technical overview. , 2018, , .		13
49	DETECTION OF VERY LOW-FREQUENCY, QUASI-PERIODIC OSCILLATIONS IN THE 2015 OUTBURST OF V404 CYGNI. <i>Astrophysical Journal</i> , 2017, 834, 90.	4.5	18
50	SPECTRAL CHANGES IN THE HYPERLUMINOUS PULSAR IN NGC 5907 AS A FUNCTION OF SUPER-ORBITAL PHASE. <i>Astrophysical Journal</i> , 2017, 834, 77.	4.5	64
51	The Slowest Spinning X-Ray Pulsar in an Extragalactic Globular Cluster. <i>Astrophysical Journal</i> , 2017, 839, 125.	4.5	14
52	An XMM-Newton and NuSTAR Study of IGR J18214-1318: A Non-pulsating High-mass X-Ray Binary with a Neutron Star. <i>Astrophysical Journal</i> , 2017, 841, 35.	4.5	12
53	An elevation of 0.1 light-seconds for the optical jet base in an accreting Galactic black hole system. <i>Nature Astronomy</i> , 2017, 1, 859-864.	10.1	59
54	The Broadband Spectral Variability of Holmberg IX X-1. <i>Astrophysical Journal</i> , 2017, 839, 105.	4.5	24

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55	Imaging of SNR IC443 and W44 with the Sardinia Radio Telescope at 1.5 and 7 GHz. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1329-1341.	4.4	20
56	Living on a Flare: Relativistic Reflection in V404 Cyg Observed by NuSTAR during Its Summer 2015 Outburst. Astrophysical Journal, 2017, 839, 110.	4.5	71
57	A precise measurement of the magnetic field in the corona of the black hole binary V404 Cygni. Science, 2017, 358, 1299-1302.	12.6	29
58	High-resolution spectral imaging of SNR W44 and IC443 at 22 GHz with the Sardinia Radio Telescope. Proceedings of the International Astronomical Union, 2017, 12, 190-193.	0.0	0
59	The Sardinia Radio Telescope (SRT): A large modern radio telescope for observations from meter to mm wavelengths. , 2017, , .		0
60	A Hard Look at the Neutron Stars and Accretion Disks in 4U 1636-53, GX 17+2, and 4U 1705-44 with NuStar. Astrophysical Journal, 2017, 836, 140.	4.5	52
61	Single-dish and VLBI observations of Cygnus X-3 during the 2016 giant flare episode. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2703-2714.	4.4	23
62	Spectral and Timing Properties of IGR J17091-3624 in the Rising Hard State During Its 2016 Outburst. Astrophysical Journal, 2017, 851, 103.	4.5	14
63	A multi-wavelength pipeline for pulsar observations. Proceedings of the International Astronomical Union, 2017, 13, 394-395.	0.0	0
64	The Sardinia Radio Telescope. Astronomy and Astrophysics, 2017, 608, A40.	5.1	52
65	ULX spectra revisited: Accreting, highly magnetized neutron stars as the engines of ultraluminous X-ray sources. Astronomy and Astrophysics, 2017, 608, A47.	5.1	77
66	AN IRON K COMPONENT TO THE ULTRAFAST OUTFLOW IN NGC 1313 X-1. Astrophysical Journal Letters, 2016, 826, L26.	8.3	73
67	Ultraluminous X-ray sources: Three exciting years. Astronomische Nachrichten, 2016, 337, 349-355.	1.2	16
68	SPECTRAL AND TEMPORAL PROPERTIES OF THE ULTRA-LUMINOUS X-RAY PULSAR IN M82 FROM 15 YEARS OF CHANDRA OBSERVATIONS AND ANALYSIS OF THE PULSED EMISSION USING NuSTAR. Astrophysical Journal, 2016, 816, 60.	4.5	50
69	A NuSTAR OBSERVATION OF THE REFLECTION SPECTRUM OF THE LOW-MASS X-RAY BINARY 4U 1728-34. Astrophysical Journal, 2016, 827, 134.	4.5	20
70	SPECTRO-TIMING STUDY OF GX 339-4 IN A HARD INTERMEDIATE STATE. Astrophysical Journal, 2016, 828, 34.	4.5	12
71	XIPE: the x-ray imaging polarimetry explorer. , 2016, , .		16
72	A 78 DAY X-RAY PERIOD DETECTED FROM NGC 5907 ULX1 BY SWIFT. Astrophysical Journal Letters, 2016, 827, L13.	8.3	56

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73	MAGNETAR-LIKE ACTIVITY FROM THE CENTRAL COMPACT OBJECT IN THE SNR RCW103. <i>Astrophysical Journal Letters</i> , 2016, 828, L13.	8.3	74
74	The <i>NuSTAR</i> view of the non-thermal emission from PSR J0437+4715. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2612-2622.	4.4	21
75	Sardinia Radio Telescope wide-band spectral-polarimetric observations of the galaxy cluster 3C129. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3516-3532.	4.4	22
76	A SEARCH FOR HYPERLUMINOUS X-RAY SOURCES IN THE XMM-NEWTON SOURCE CATALOG. <i>Astrophysical Journal</i> , 2016, 817, 88.	4.5	16
77	NUSTAR AND XMM-NEWTON OBSERVATIONS OF THE NEUTRON STAR X-RAY BINARY 1RXS J180408.9-34205. <i>Astrophysical Journal</i> , 2016, 824, 37.	4.5	32
78	<i>NuSTAR</i> DISCOVERY OF AN UNUSUALLY STEADY LONG-TERM SPIN-UP OF THE Be BINARY 2RXP J130159.6+635806. <i>Astrophysical Journal</i> , 2015, 809, 140.	4.5	16
79	DISTORTED CYCLOTRON LINE PROFILE IN CEP X-4 AS OBSERVED BY <i>NuSTAR</i> . <i>Astrophysical Journal Letters</i> , 2015, 806, L24.	8.3	25
80	CALIBRATION OF THE <i>NuSTAR</i> HIGH-ENERGY FOCUSING X-RAY TELESCOPE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 8.	7.7	244
81	NO TIME FOR DEAD TIME: TIMING ANALYSIS OF BRIGHT BLACK HOLE BINARIES WITH <i>NuSTAR</i> . <i>Astrophysical Journal</i> , 2015, 800, 109.	4.5	73
82	<i>NuSTAR</i> OBSERVATION OF A TYPE I X-RAY BURST FROM GRS 1741.9-2853. <i>Astrophysical Journal</i> , 2015, 799, 123.	4.5	27
83	THE BROADBAND <i>XMM-NEWTON</i> AND <i>NuSTAR</i> X-RAY SPECTRA OF TWO ULTRALUMINOUS X-RAY SOURCES IN THE GALAXY IC 342. <i>Astrophysical Journal</i> , 2015, 799, 121.	4.5	53
84	NEW CONSTRAINTS ON THE BLACK HOLE LOW/HARD STATE INNER ACCRETION FLOW WITH <i>NuSTAR</i> . <i>Astrophysical Journal Letters</i> , 2015, 799, L6.	8.3	63
85	<i>NUSTAR</i> AND <i>XMM-NEWTON</i> OBSERVATIONS OF THE EXTREME ULTRALUMINOUS X-RAY SOURCE NGC 5907 ULX1: A VANISHING ACT. <i>Astrophysical Journal</i> , 2015, 799, 122.	4.5	50
86	THE COMPLEX ACCRETION GEOMETRY OF GX 339+4 AS SEEN BY <i>NuSTAR</i> AND <i>SWIFT</i> . <i>Astrophysical Journal</i> , 2015, 808, 122.	4.5	84
87	<i>NUSTAR</i> , <i>XMM-NEWTON</i> , AND <i>SUZAKU</i> OBSERVATIONS OF THE ULTRALUMINOUS X-RAY SOURCE HOLMBERG II X-1. <i>Astrophysical Journal</i> , 2015, 806, 65.	4.5	53
88	PHASE-RESOLVED <i>NuSTAR</i> AND <i>SWIFT</i> -XRT OBSERVATIONS OF MAGNETAR 4U 0142+61. <i>Astrophysical Journal</i> , 2015, 808, 32.	4.5	28
89	A HARD X-RAY STUDY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1 WITH <i>NuSTAR</i> AND <i>XMM-NEWTON</i> . <i>Astrophysical Journal</i> , 2015, 808, 64.	4.5	41
90	The <i>NuSTAR</i> ULX program. <i>EPJ Web of Conferences</i> , 2014, 64, 06010.	0.3	1

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91	NuSTAR detection of 4s Hard X-ray Lags from the Accreting Pulsar GS 0834-430. EPJ Web of Conferences, 2014, 64, 06011.	0.3	0
92	Oscillations of the Boundary Layer and High-frequency QPOs. EPJ Web of Conferences, 2014, 64, 05009.	0.3	1
93	<i>NuSTAR</i> DISCOVERY OF A CYCLOTRON LINE IN THE BE/X-RAY BINARY RX J0520.5â€“6932 DURING OUTBURST. Astrophysical Journal, 2014, 795, 154.	4.5	29
94	NuSTAR results and future plans for magnetar and rotationâ€“powered pulsar observations. Astronomische Nachrichten, 2014, 335, 280-284.	1.2	4
95	A BROADBAND X-RAY STUDY OF THE GEMINGA PULSAR WITH <i>NuSTAR</i> AND <i>XMM-NEWTON</i>. Astrophysical Journal, 2014, 793, 88.	4.5	30
96	BROADBAND X-RAY SPECTRA OF THE ULTRALUMINOUS X-RAY SOURCE HOLMBERG IX X-1 OBSERVED WITH <i>NuSTAR</i>, <i>XMM-NEWTON</i>, AND <i>SUZAKU</i>. Astrophysical Journal, 2014, 793, 21.	4.5	93
97	<i>NuSTAR</i> AND <i>INTEGRAL</i> OBSERVATIONS OF A LOW/HARD STATE OF 1E1740.7-2942. Astrophysical Journal, 2014, 780, 63.	4.5	19
98	A HARD X-RAY POWER-LAW SPECTRAL CUTOFF IN CENTAURUS X-4. Astrophysical Journal, 2014, 797, 92.	4.5	49
99	<i>NuSTAR</i> DISCOVERY OF A CYCLOTRON LINE IN KS 1947+300. Astrophysical Journal Letters, 2014, 784, L40.	8.3	39
100	<i>NuSTAR</i> DISCOVERY OF A LUMINOSITY DEPENDENT CYCLOTRON LINE ENERGY IN VELA X-1. Astrophysical Journal, 2014, 780, 133.	4.5	86
101	TIMING AND FLUX EVOLUTION OF THE GALACTIC CENTER MAGNETAR SGR J1745â€“2900. Astrophysical Journal, 2014, 786, 84.	4.5	63
102	PATCHY ACCRETION DISKS IN ULTRA-LUMINOUS X-RAY SOURCES. Astrophysical Journal Letters, 2014, 785, L7.	8.3	19
103	THE REFLECTION COMPONENT FROM CYGNUS X-1 IN THE SOFT STATE MEASURED BY <i>NuSTAR</i> AND <i>SUZAKU</i>. Astrophysical Journal, 2014, 780, 78.	4.5	109
104	An ultraluminous X-ray source powered by an accreting neutron star. Nature, 2014, 514, 202-204.	27.8	551
105	MHD Simulations of Magnetospheric Accretion, Ejection and Plasma-field Interaction. EPJ Web of Conferences, 2014, 64, 05001.	0.3	8
106	AN EXTREMELY LUMINOUS AND VARIABLE ULTRALUMINOUS X-RAY SOURCE IN THE OUTSKIRTS OF CIRCINUS OBSERVED WITH <i>NuSTAR</i>. Astrophysical Journal, 2013, 779, 148.	4.5	74
107	<i>NuSTAR</i> DETECTION OF HARD X-RAY PHASE LAGS FROM THE ACCRETING PULSAR GS 0834â€“430. Astrophysical Journal, 2013, 775, 65.	4.5	11
108	<i>NuSTAR</i> OBSERVATIONS OF MAGNETAR 1E 1841â€“045. Astrophysical Journal, 2013, 779, 163.	4.5	29

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109	<i>NuSTAR</i> SPECTROSCOPY OF GRS 1915+105: DISK REFLECTION, SPIN, AND CONNECTIONS TO JETS. <i>Astrophysical Journal Letters</i> , 2013, 775, L45.	8.3	114
110	THE ULTRALUMINOUS X-RAY SOURCES NGC 1313 X-1 AND X-2: A BROADBAND STUDY WITH<i>NuSTAR</i>AND<i>XMM-Newton</i>. <i>Astrophysical Journal</i> , 2013, 778, 163.	4.5	145
111	THE SMOOTH CYCLOTRON LINE IN HER X-1 AS SEEN WITH NUCLEAR SPECTROSCOPIC TELESCOPE ARRAY. <i>Astrophysical Journal</i> , 2013, 779, 69.	4.5	54
112	CONSTRAINTS ON THE NEUTRON STAR AND INNER ACCRETION FLOW IN SERPENS X-1 USING <i>NuSTAR</i>. <i>Astrophysical Journal Letters</i> , 2013, 779, L2.	8.3	69
113	THE<i>NUCLEAR SPECTROSCOPIC TELESCOPE ARRAY</i> (<i>NuSTAR</i>) HIGH-ENERGY X-RAY MISSION. <i>Astrophysical Journal</i> , 2013, 770, 103.	4.5	1,627
114	<i>NuSTAR</i> observations of rotation-powered pulsars and magnetars. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 331-336.	0.0	0
115	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444.	3.7	168
116	Timing of the accreting millisecond pulsar IGR J17511-3057. <i>Astronomy and Astrophysics</i> , 2011, 526, A95.	5.1	25
117	THE DROP OF THE COHERENCE OF THE LOWER KILOHERTZ QUASI-PERIODIC BRIGHTNESS VARIATIONS IS ALSO OBSERVED IN XTE J1701â€“462. <i>Astrophysical Journal</i> , 2011, 728, 9.	4.5	16
118	The moving hotspot model for kHz QPOs in accreting neutron stars. , 2011, , .		0
119	QPO emission from moving hot spots on the surface of neutron stars: a model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 403, 1193-1205.	4.4	30
120	3D MHD Simulations of accreting neutron stars: evidence of QPO emission from the surface. , 2010, , .		0
121	On the magnetic field in M51 ULX-8. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	25