Matteo Bachetti

List of Publications by Year
in descending order

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121	10,834	66343	30922
papers	citations	42	102
		h-index	g-index

122	122	122	10626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package[*]. Astronomical Journal, 2018, 156, 123.	4.7	4,142
2	THENUCLEAR SPECTROSCOPIC TELESCOPE ARRAY(NuSTAR) HIGH-ENERGY X-RAY MISSION. Astrophysical Journal, 2013, 770, 103.	4.5	1,627
3	An ultraluminous X-ray source powered by an accreting neutron star. Nature, 2014, 514, 202-204.	27.8	551
4	CALIBRATION OF THE NuSTAR HIGH-ENERGY FOCUSING X-RAY TELESCOPE. Astrophysical Journal, Supplement Series, 2015, 220, 8.	7.7	244
5	The Large Observatory for X-ray Timing (LOFT). Experimental Astronomy, 2012, 34, 415-444.	3.7	168
6	THE ULTRALUMINOUS X-RAY SOURCES NGC 1313 X-1 AND X-2: A BROADBAND STUDY WITHNuSTARANDXMM-Newton. Astrophysical Journal, 2013, 778, 163.	4.5	145
7	Stingray: A Modern Python Library for Spectral Timing. Astrophysical Journal, 2019, 881, 39.	4.5	131
8	NuSTAR SPECTROSCOPY OF GRS 1915+105: DISK REFLECTION, SPIN, AND CONNECTIONS TO JETS. Astrophysical Journal Letters, 2013, 775, L45.	8.3	114
9	Evidence for Pulsar-like Emission Components in the Broadband ULX Sample. Astrophysical Journal, 2018, 856, 128.	4.5	112
10	THE REFLECTION COMPONENT FROM CYGNUS X-1 IN THE SOFT STATE MEASURED BYNuSTARANDSUZAKU. Astrophysical Journal, 2014, 780, 78.	4.5	109
11	The discovery of weak coherent pulsations in the ultraluminous X-ray source NGC 1313 X-2. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 488, L35-L40.	3.3	107
12	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. Astrophysical Journal, 2020, 895, 60.	4.5	106
13	Magnetic field strength of a neutron-star-powered ultraluminous X-ray source. Nature Astronomy, 2018, 2, 312-316.	10.1	99
14	BROADBAND X-RAY SPECTRA OF THE ULTRALUMINOUS X-RAY SOURCE HOLMBERG IX X-1 OBSERVED WITHNuSTAR,XMM-NEWTON,ANDSUZAKU. Astrophysical Journal, 2014, 793, 21.	4.5	93
15	Evidence for a variable Ultrafast Outflow in the newly discovered Ultraluminous Pulsar NGC 300 ULX-1. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3978-3986.	4.4	88
16	NuSTARDISCOVERY OF A LUMINOSITY DEPENDENT CYCLOTRON LINE ENERGY IN VELA X-1. Astrophysical Journal, 2014, 780, 133.	4.5	86
17	THE COMPLEX ACCRETION GEOMETRY OF GX 339â€“4 AS SEEN BYNuSTARANDSWIFT. Astrophysical Journal, 2015, 808, 122.	4.5	84
18	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

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19	AN EXTREMELY LUMINOUS AND VARIABLE ULTRALUMINOUS X-RAY SOURCE IN THE OUTSKIRTS OF CIRCINUS OBSERVED WITHNuSTAR. Astrophysical Journal, 2013, 779, 148.	4.5	74
20	MAGNETAR-LIKE ACTIVITY FROM THE CENTRAL COMPACT OBJECT IN THE SNR RCW103. Astrophysical Journal Letters, 2016, 828, L13.	8.3	74
21	NO TIME FOR DEAD TIME: TIMING ANALYSIS OF BRIGHT BLACK HOLE BINARIES WITHNuSTAR. Astrophysical Journal, 2015, 800, 109.	4.5	73
22	AN IRON K COMPONENT TO THE ULTRAFAST OUTFLOW IN NGC 1313 X-1. Astrophysical Journal Letters, 2016, 826, L26.	8.3	73
23	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
24	CONSTRAINTS ON THE NEUTRON STAR AND INNER ACCRETION FLOW IN SERPENS X-1 USING NuSTAR. Astrophysical Journal Letters, 2013, 779, L2.	8.3	69
25	The Instrument of the Imaging X-Ray Polarimetry Explorer. Astronomical Journal, 2021, 162, 208.	4.7	68
26	Design, construction, and test of the Gas Pixel Detectors for the IXPE mission. Astroparticle Physics, 2021, 133, 102628.	4.3	67
27	SPECTRAL CHANGES IN THE HYPERLUMINOUS PULSAR IN NGC 5907 AS A FUNCTION OF SUPER-ORBITAL PHASE. Astrophysical Journal, 2017, 834, 77.	4.5	64
28	A Potential Cyclotron Resonant Scattering Feature in the Ultraluminous X-Ray Source Pulsar NGC 300 ULX1 Seen by NuSTAR and XMM-Newton. Astrophysical Journal Letters, 2018, 857, L3.	8.3	64
29	TIMING AND FLUX EVOLUTION OF THE GALACTIC CENTER MAGNETAR SGR J1745â€“2900. Astrophysical Journal, 2014, 786, 84.	4.5	63
30	NEW CONSTRAINTS ON THE BLACK HOLE LOW/HARD STATE INNER ACCRETION FLOW WITH NuSTAR. Astrophysical Journal Letters, 2015, 799, L6.	8.3	63
31	An elevation of 0.1 light-seconds for the optical jet base in an accreting Galactic black hole system. Nature Astronomy, 2017, 1, 859-864.	10.1	59
32	PINT: A Modern Software Package for Pulsar Timing. Astrophysical Journal, 2021, 911, 45.	4.5	58
33	A 78 DAY X-RAY PERIOD DETECTED FROM NGC 5907 ULX1 BY SWIFT. Astrophysical Journal Letters, 2016, 827, L13.	8.3	56
34	THE SMOOTH CYCLOTRON LINE IN HER X-1 AS SEEN WITH NUCLEAR SPECTROSCOPIC TELESCOPE ARRAY. Astrophysical Journal, 2013, 779, 69.	4.5	54
35	THE BROADBANDXMM-NEWTONANDNuSTARX-RAY SPECTRA OF TWO ULTRALUMINOUS X-RAY SOURCES IN THE GALAXY IC 342. Astrophysical Journal, 2015, 799, 121.	4.5	53
36	NUSTAR,XMM-NEWTON, ANDSUZAKUOBSERVATIONS OF THE ULTRALUMINOUS X-RAY SOURCE HOLMBERG II X-1. Astrophysical Journal, 2015, 806, 65.	4.5	53

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37	Super-Eddington accretion on to the neutron star NGCâ€‰7793 P13: Broad-band X-ray spectroscopy and ultraluminous X-ray sources. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4360-4376.	4.4	53
38	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
39	The Sardinia Radio Telescope. Astronomy and Astrophysics, 2017, 608, A40.	5.1	52
40	NUSTARANDXMM-NEWTONOBSERVATIONS OF THE EXTREME ULTRALUMINOUS X-RAY SOURCE NGC 5907 ULX1: A VANISHING ACT. Astrophysical Journal, 2015, 799, 122.	4.5	50
41	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
42	A HARD X-RAY POWER-LAW SPECTRAL CUTOFF IN CENTAURUS X-4. Astrophysical Journal, 2014, 797, 92.	4.5	49
43	A HARD X-RAY STUDY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1 WITHNuSTARANDXMM-NEWTON. Astrophysical Journal, 2015, 808, 64.	4.5	41
44	Lense-Thirring precession in ULXs as a possible means to constrain the neutron star equation of state. Monthly Notices of the Royal Astronomical Society, 2018, 475, 154-166.	4.4	40
45	NuSTAR DISCOVERY OF A CYCLOTRON LINE IN KS 1947+300. Astrophysical Journal Letters, 2014, 784, L40.	8.3	39
46	A âˆ¼60 day Super-orbital Period Originating from the Ultraluminous X-Ray Pulsar in M82. Astrophysical Journal, 2019, 873, 115.	4.5	39
47	A Weighted Analysis to Improve the X-Ray Polarization Sensitivity of the Imaging X-ray Polarimetry Explorer. Astronomical Journal, 2022, 163, 170.	4.7	38
48	An Algorithm to Calibrate and Correct the Response to Unpolarized Radiation of the X-Ray Polarimeter Onboard IXPE. Astronomical Journal, 2022, 163, 39.	4.7	34
49	The unusual broad-band X-ray spectral variability of NGCâ€‰1313 X-1 seen with XMMâ€“Newton, Chandra, and NuSTAR. Monthly Notices of the Royal Astronomical Society, 2020, 494, 6012-6029.	4.4	32
50	NUSTAR AND XMM-NEWTON OBSERVATIONS OF THE NEUTRON STAR X-RAY BINARY 1RXS J180408.9-34205. Astrophysical Journal, 2016, 824, 37.	4.5	32
51	All at Once: Transient Pulsations, Spin-down, and a Glitch from the Pulsating Ultraluminous X-Ray Source M82 X-2. Astrophysical Journal, 2020, 891, 44.	4.5	31
52	QPO emission from moving hot spots on the surface of neutron stars: a model. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1193-1205.	4.4	30
53	A BROADBAND X-RAY STUDY OF THE GEMINGA PULSAR WITHNuSTARANDXMM-NEWTON. Astrophysical Journal, 2014, 793, 88.	4.5	30
54	NuSTAROBSERVATIONS OF MAGNETAR 1E 1841â€“045. Astrophysical Journal, 2013, 779, 163.	4.5	29

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55	NuSTARDISCOVERY OF A CYCLOTRON LINE IN THE BE/X-RAY BINARY RX J0520.5â€“6932 DURING OUTBURST. Astrophysical Journal, 2014, 795, 154.	4.5	29
56	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
57	PHASE-RESOLVEDNuSTARANDSWIFT-XRT OBSERVATIONS OF MAGNETAR 4U 0142+61. Astrophysical Journal, 2015, 808, 32.	4.5	28
58	NuSTAROBSERVATION OF A TYPE I X-RAY BURST FROM GRS 1741.9-2853. Astrophysical Journal, 2015, 799, 123.	4.5	27
59	stingray: A modern Python library for spectral timing. Journal of Open Source Software, 2019, 4, 1393.	4.6	27
60	Timing of the accreting millisecond pulsar IGRÂJ17511-3057. Astronomy and Astrophysics, 2011, 526, A95.	5.1	25
61	DISTORTED CYCLOTRON LINE PROFILE IN CEP X-4 AS OBSERVED BY NuSTAR. Astrophysical Journal Letters, 2015, 806, L24.	8.3	25
62	On the magnetic field in M51 ULX-8. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	25
63	The Broadband Spectral Variability of Holmberg IX X-1. Astrophysical Journal, 2017, 839, 105.	4.5	24
64	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
65	Sardinia Radio Telescope wide-band spectral-polarimetric observations of the galaxy cluster 3CÂ129. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3516-3532.	4.4	22
66	TheNuSTARview of the non-thermal emission from PSR J0437â’4715. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2612-2622.	4.4	21
67	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
68	Imaging of SNR IC443 and W44 with the Sardinia Radio Telescope at 1.5 and 7ÂGHz. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1329-1341.	4.4	20
69	SArdinia Roach2-based Digital Architecture for Radio Astronomy (SARDARA). Journal of Astronomical Instrumentation, 2018, 07, .	1.5	20
70	Discovery of a soft X-ray lag in the ultraluminous X-ray source NGCÂ1313ÂX-1. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5172-5178.	4.4	20
71	NuSTAR reveals the hidden nature of SS433. Monthly Notices of the Royal Astronomical Society, 2021, 506, 1045-1058.	4.4	20
72	NuSTARANDINTEGRALOBSERVATIONS OF A LOW/HARD STATE OF 1E1740.7-2942. Astrophysical Journal, 2014, 780, 63.	4.5	19

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73	PATCHY ACCRETION DISKS IN ULTRA-LUMINOUS X-RAY SOURCES. Astrophysical Journal Letters, 2014, 785, L7.	8.3	19
74	DETECTION OF VERY LOW-FREQUENCY, QUASI-PERIODIC OSCILLATIONS IN THE 2015 OUTBURST OF V404 CYGNI. Astrophysical Journal, 2017, 834, 90.	4.5	18
75	No Time for Dead Time: Use the Fourier Amplitude Differences to Normalize Dead-time-affected Periodograms. Astrophysical Journal Letters, 2018, 853, L21.	8.3	17
76	Timing Calibration of the NuSTAR X-Ray Telescope. Astrophysical Journal, 2021, 908, 184.	4.5	17
77	THE DROP OF THE COHERENCE OF THE LOWER KILOHERTZ QUASI-PERIODIC BRIGHTNESS VARIATIONS IS ALSO OBSERVED IN XTE J1701â€“462. Astrophysical Journal, 2011, 728, 9.	4.5	16
78	NuSTARDISCOVERY OF AN UNUSUALLY STEADY LONG-TERM SPIN-UP OF THE Be BINARY 2RXP J130159.6â€“635806. Astrophysical Journal, 2015, 809, 140.	4.5	16
79	Ultraluminous Xâ€ray sources: Three exciting years. Astronomische Nachrichten, 2016, 337, 349-355.	1.2	16
80	XIPE: the x-ray imaging polarimetry explorer. , 2016, , .		16
81	A SEARCH FOR HYPERLUMINOUS X-RAY SOURCES IN THE XMM-NEWTON SOURCE CATALOG. Astrophysical Journal, 2016, 817, 88.	4.5	16
82	A new candidate pulsating ULX in NGC 7793. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5485-5494.	4.4	16
83	The IXPE instrument calibration equipment. Astroparticle Physics, 2022, 136, 102658.	4.3	16
84	Investigating the high-frequency spectral features of SNRs Tycho, W44, and IC443 with the Sardinia Radio Telescope. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3857-3867.	4.4	15
85	Spectral and Timing Analysis of NuSTAR and Swift/XRT Observations of the X-Ray Transient MAXI J0637â€“430. Astrophysical Journal, 2021, 921, 155.	4.5	15
86	The Slowest Spinning X-Ray Pulsar in an Extragalactic Globular Cluster. Astrophysical Journal, 2017, 839, 125.	4.5	14
87	Spectral and Timing Properties of IGR J17091â€“3624 in the Rising Hard State During Its 2016 Outburst. Astrophysical Journal, 2017, 851, 103.	4.5	14
88	Observing the Transient Pulsations of SMC X-1 with NuSTAR. Astrophysical Journal, 2019, 875, 144.	4.5	13
89	The Ultraluminous X-Ray Sources Population of the Galaxy NGC 7456. Astrophysical Journal, 2020, 890, 166.	4.5	13
90	Long-term pulse period evolution of the ultra-luminous X-ray pulsar NGC 7793 P13. Astronomy and Astrophysics, 2021, 651, A75.	5.1	13

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91	The Imaging X-ray Polarimetry Explorer (IXPE): technical overview. , 2018, , .		13
92	SPECTRO-TIMING STUDY OF GX 339-4 IN A HARD INTERMEDIATE STATE. Astrophysical Journal, 2016, 828, 34.	4.5	12
93	An XMM-Newton and NuSTAR Study of IGR J18214-1318: A Non-pulsating High-mass X-Ray Binary with a Neutron Star. Astrophysical Journal, 2017, 841, 35.	4.5	12
94	Extending the Z ² _n and H Statistics to Generic Pulsed Profiles. Astrophysical Journal, 2021, 909, 33.	4.5	12
95	NuSTARDETECTION OF HARD X-RAY PHASE LAGS FROM THE ACCRETING PULSAR GS 0834â€“430. Astrophysical Journal, 2013, 775, 65.	4.5	11
96	Discovery of Pulsation Dropout and Turn-on during the High State of the Accreting X-Ray Pulsar LMC X-4. Astrophysical Journal Letters, 2018, 861, L7.	8.3	11
97	Gazing at the ultraslow magnetar in RCWÂ103 with NuSTAR and Swift. Monthly Notices of the Royal Astronomical Society, 2018, 478, 741-748.	4.4	10
98	On the Statistical Properties of Cospectra. Astrophysical Journal, Supplement Series, 2018, 236, 13.	7.7	10
99	The Imaging X-ray Polarimetry Explorer (IXPE): technical overview III. , 2020, , .		9
100	A new transient ultraluminous X-ray source in NGCâ€‰7090. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1002-1012.	4.4	9
101	MHD Simulations of Magnetospheric Accretion, Ejection and Plasma-field Interaction. EPJ Web of Conferences, 2014, 64, 05001.	0.3	8
102	NuSTAR and Chandra Observations of New X-Ray Transients in the Central Parsec of the Galaxy. Astrophysical Journal, 2019, 885, 142.	4.5	8
103	Accurate X-ray timing in the presence of systematic biases with simulation-based inference. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5689-5708.	4.4	8
104	The multi-outburst activity of the magnetar in WesterlundÂI. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2931-2943.	4.4	7
105	Photospheric Radius Expansion and a Double-peaked Type-I X-Ray Burst from GRS 1741.9â€“2853. Astrophysical Journal, 2021, 918, 9.	4.5	6
106	Evolution of the Spin, Spectrum and Superorbital Period of the Ultraluminous X-Ray Pulsar M51 ULX7. Astrophysical Journal, 2022, 925, 18.	4.5	5
107	MAXI and NuSTAR Observations of the Faint X-Ray Transient MAXI J1848-015 in the GLIMPSE-C01 Cluster. Astrophysical Journal, 2022, 927, 190.	4.5	5
108	NuSTAR results and future plans for magnetar and rotationâ€powered pulsar observations. Astronomische Nachrichten, 2014, 335, 280-284.	1.2	4

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109	Extending the Baseline for SMC X-1's Spin and Orbital Behavior with NuSTAR Stray Light. Astrophysical Journal, 2022, 926, 187.	4.5	4
110	The Imaging X-Ray Polarimetry Explorer (IXPE): technical overview IV. , 2021, , .		2
111	Solar Observations with Single-Dish INAF Radio Telescopes: Continuum Imaging in the 18â€‰â€“â€‰26 GHz Range. Solar Physics, 2022, 297, .	2.5	2
112	The NuSTAR ULX program. EPJ Web of Conferences, 2014, 64, 06010.	0.3	1
113	Oscillations of the Boundary Layer and High-frequency QPOs. EPJ Web of Conferences, 2014, 64, 05009.	0.3	1
114	3D MHD Simulations of accreting neutron stars: evidence of QPO emission from the surface. , 2010, , .		0
115	The moving hotspot model for kHz QPOs in accreting neutron stars. , 2011, , .		0
116	NuSTAR observations of rotation-powered pulsars and magnetars. Proceedings of the International Astronomical Union, 2012, 8, 331-336.	0.0	0
117	NuSTARdetection of 4s Hard X-ray Lags from the Accreting Pulsar GS 0834-430. EPJ Web of Conferences, 2014, 64, 06011.	0.3	0
118	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
119	The Sardinia Radio Telescope (SRT): A large modern radio telescope for observations from meter to mm wavelengths. , 2017, , .		0
120	A multi-wavelength pipeline for pulsar observations. Proceedings of the International Astronomical Union, 2017, 13, 394-395.	0.0	0
121	A multi-wavelength pipeline for pulsar searches. Rendiconti Lincei, 2019, 30, 251-253.	2.2	0