

Lorenzo Natalucci

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,308
citations

361413

20
h-index

197818

49
g-index

61
all docs

61
docs citations

61
times ranked

4382
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Coded aperture imaging in X- and gamma-ray astronomy. <i>Space Science Reviews</i> , 1987, 45, 349-403.	8.1	334
3	INTEGRAL Discovery of a Burst with Associated Radio Emission from the Magnetar SGR 1935+2154. <i>Astrophysical Journal Letters</i> , 2020, 898, L29.	8.3	227
4	WHEN A STANDARD CANDLE FLICKERS. <i>Astrophysical Journal Letters</i> , 2011, 727, L40.	8.3	117
5	THE REFLECTION COMPONENT FROM CYGNUS X-1 IN THE SOFT STATE MEASURED BY <i>NuSTAR</i> AND <i>SUZAKU</i>. <i>Astrophysical Journal</i> , 2014, 780, 78.	4.5	109
6	INTEGRAL UPPER LIMITS ON GAMMA-RAY EMISSION ASSOCIATED WITH THE GRAVITATIONAL WAVE EVENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 820, L36.	8.3	94
7	Living on a Flare: Relativistic Reflection in V404 Cyg Observed by NuSTAR during Its Summer 2015 Outburst. <i>Astrophysical Journal</i> , 2017, 839, 110.	4.5	71
8	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
9	THE DISK WIND IN THE RAPIDLY SPINNING STELLAR-MASS BLACK HOLE 4U 1630â€“472 OBSERVED WITH <i>NuSTAR</i>. <i>Astrophysical Journal Letters</i> , 2014, 784, L2.	8.3	65
10	A Hard Look at the Neutron Stars and Accretion Disks in 4U 1636-53, GX 17+2, and 4U 1705-44 with NuStar. <i>Astrophysical Journal</i> , 2017, 836, 140.	4.5	52
11	X-ray polarimetry with the Polarization Spectroscopic Telescope Array (PoSTAR). <i>Astroparticle Physics</i> , 2016, 75, 8-28.	4.3	42
12	NuSTAR detection of a cyclotron line in the supergiant fast X-ray transient IGR J17544âˆ“2619. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2274-2281.	4.4	38
13	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
14	BeppoSAX-WFC monitoring of the Galactic Center region. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 132, 486-495.	0.4	31
15	Experimental and theoretical study of the diffraction properties of various crystals for the realization of a soft gamma-ray Laue lens. <i>Journal of Applied Crystallography</i> , 2009, 42, 834-845.	4.5	31
16	High diffraction efficiency at hard X-ray energy in a silicon crystal bent by indentation. <i>Journal of Applied Crystallography</i> , 2010, 43, 1519-1521.	4.5	29
17	FIRST <i>INTEGRAL</i> OBSERVATIONS OF V404 CYGNI DURING THE 2015 OUTBURST: SPECTRAL BEHAVIOR IN THE 20â€“650 KeV ENERGY RANGE. <i>Astrophysical Journal Letters</i> , 2015, 813, L22.	8.3	29
18	3â€“200 keV Spectral States and Variability of the INTEGRAL Black Hole Binary IGR J17464âˆ“3213. <i>Astrophysical Journal</i> , 2005, 622, 503-507.	4.5	27

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19	HIGH ENERGY SPECTRAL EVOLUTION OF V404 CYGNI DURING THE 2015 JUNE OUTBURST AS OBSERVED BY <i><i>INTEGRAL</i></i> . <i>Astrophysical Journal Letters</i> , 2015, 813, L21.	8.3	26
20	BROADBAND X-RAY PROPERTIES OF THE GAMMA-RAY BINARY 1FGL J1018.6â€“5856. <i>Astrophysical Journal</i> , 2015, 806, 166.	4.5	26
21	EDGE: Explorer of diffuse emission and gamma-ray burst explosions. <i>Experimental Astronomy</i> , 2009, 23, 67-89.	3.7	19
22	<i><i>NuSTAR</i></i> AND <i><i>INTEGRAL</i></i> OBSERVATIONS OF A LOW/HARD STATE OF 1E1740.7-2942. <i>Astrophysical Journal</i> , 2014, 780, 63.	4.5	19
23	INTEGRAL reloaded: Spacecraft, instruments and ground system. <i>New Astronomy Reviews</i> , 2021, 93, 101629.	12.8	17
24	IGR J16328â€“4726: A NEW CANDIDATE SUPERGIANT FAST X-RAY TRANSIENT. <i>Astrophysical Journal Letters</i> , 2010, 725, L68-L72.	8.3	14
25	The nova-like nebular optical spectrum of V404 Cygni at the beginning of the 2015 outburst decay. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4468-4481.	4.4	14
26	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
27	XMM-Newton and NuSTAR Simultaneous X-Ray Observations of IGR J11215-5952. <i>Astrophysical Journal</i> , 2017, 838, 133.	4.5	12
28	<i><i>NuSTAR</i></i> DETECTION OF HARD X-RAY PHASE LAGS FROM THE ACCRETING PULSAR GS 0834â€“430. <i>Astrophysical Journal</i> , 2013, 775, 65.	4.5	11
29	NUSTAR AND XMM-NEWTON OBSERVATIONS OF 1E1743.1-2843: INDICATIONS OF A NEUTRON STAR LMXB NATURE OF THE COMPACT OBJECT. <i>Astrophysical Journal</i> , 2016, 822, 57.	4.5	10
30	Beppo-SAX observation of the burster GS 1826-238. <i>Advances in Space Research</i> , 2001, 28, 375-379.	2.6	9
31	INTEGRAL/IBIS search for e^+e^- annihilation radiation from the galactic center region. <i>Advances in Space Research</i> , 2006, 38, 1457-1460.	2.6	8
32	The Cryogenic Anticoincidence Detector for ATHENA-XMS. <i>Journal of Low Temperature Physics</i> , 2012, 167, 783-794.	1.4	8
33	The Cryogenic AntiCoincidence Detector Project for ATHENA+: An Overview Up to the Present Status. <i>Journal of Low Temperature Physics</i> , 2014, 176, 1022-1032.	1.4	8
34	RENEWED ACTIVITY FROM THE X-RAY TRANSIENT SAX J 1810.8-2609 WITH <i><i>INTEGRAL</i></i> . <i>Astrophysical Journal</i> , 2009, 693, 333-339.	4.5	7
35	Development of a 3D CZT detector prototype for Laue Lens telescope. , 2010, , .		7
36	ORIGIN: metal creation and evolution from the cosmic dawn. <i>Experimental Astronomy</i> , 2012, 34, 519-549.	3.7	6

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37	ESTREMO/WFXRT: Extreme physics in the Transient and Evolving Cosmos. , 2006, , .		5
38	NuSTAR J163433-4738.7: A FAST X-RAY TRANSIENT IN THE GALACTIC PLANE. Astrophysical Journal, 2014, 785, 4.	4.5	5
39	Quasi-simultaneous INTEGRAL, SWIFT, and NuSTAR Observations of the New X-Ray Clocked Burster 1RXS J180408.9-342058. Astrophysical Journal, 2019, 887, 30.	4.5	5
40	Soft gamma-ray optics: new Laue lens design and performance estimates. Proceedings of SPIE, 2009, , .	0.8	4
41	The x-ray mirrors for the EXIST/SXI telescope. Proceedings of SPIE, 2010, , .	0.8	3
42	The cryogenic anticoincidence detector for ATHENA-XMS: preliminary results from the new prototype. Proceedings of SPIE, 2012, , .	0.8	3
43	The Cryogenic AntiCoincidence detector for ATHENA: the progress towards the final pixel design. , 2014, , .		3
44	On the in-flight calibration plans of modern x-ray observatories. Journal of Astronomical Telescopes, Instruments, and Systems, 2015, 1, 047001.	1.8	3
45	Spectroscopic CZT detectors development for x- and gamma-ray imaging instruments. Proceedings of SPIE, 2007, , .	0.8	3
46	Spectral properties of a sample of low luminosity type I X-ray bursters. Advances in Space Research, 2001, 28, 381-388.	2.6	2
47	CZT detectors for a new generation \hat{I}^3 -ray telescopes. , 2005, , .		2
48	High Performance, Low-Dose Radiography Systems for Space and Remote Site Applications. Wireless Personal Communications, 2009, 51, 725-737.	2.7	2
49	Kapton Polymeric Films to Shield X-Ray Detectors in Orbit. Journal of Low Temperature Physics, 2012, 167, 232-235.	1.4	2
50	INTEGRAL View of TeV Sources: A Legacy for the CTA Project. Universe, 2021, 7, 135.	2.5	2
51	Estimate of the background for the x-ray microcalorimeter Spectrometer onboard of IXO. , 2010, , .		1
52	The TES-based cryogenic anticoincidence detector for IXO: first results from large area prototypes. , 2010, , .		1
53	The x-ray camera of the EXIST/SXI telescope. Proceedings of SPIE, 2010, , .	0.8	1
54	Polarization studies with NuSTAR. Proceedings of SPIE, 2012, , .	0.8	1

#	ARTICLE	IF	CITATIONS
55	Background simulations for the ATHENA X-IFU instrument: impact on the instrumental design. , 2014, , .		1
56	Editorial to the special issue on Particle background for space instrumentation in the context of the Athena mission. Experimental Astronomy, 2017, 44, 261-261.	3.7	1
57	THE XMM-NEWTON AND INTEGRAL OBSERVATIONS OF THE SUPERGIANT FAST X-RAY TRANSIENT IGR J16328-4726 ⁺ â€. Astrophysical Journal, 2016, 829, 125.	4.5	1
58	Spectral behaviour of an INTEGRAL sample of black hole candidates: Initial results. Advances in Space Research, 2006, 38, 1369-1373.	2.6	0
59	INTEGRAL observation of the Crab pulsar. Advances in Space Research, 2006, 38, 1461-1465.	2.6	0
60	Design and scientific performance of the soft x-ray imager on board EXIST. Proceedings of SPIE, 2010, , .	0.8	0
61	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