

T Muñoz-Darias

List of Publications by Year in descending order

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101
papers

4,148
citations

101543

36
h-index

128289

60
g-index

101
all docs

101
docs citations

101
times ranked

2945
citing authors

#	ARTICLE	IF	CITATIONS
1	BlackCAT: A catalogue of stellar-mass black holes in X-ray transients. <i>Astronomy and Astrophysics</i> , 2016, 587, A61.	5.1	293
2	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444.	3.7	168
3	Precise mass and spin measurements for a stellar-mass black hole through X-ray timing: the case of GRO J1655-40. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2554-2565.	4.4	165
4	Low-frequency oscillations in black holes: a spectral-timing approach to the case of GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 2292-2307.	4.4	144
5	Geometrical constraints on the origin of timing signals from black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2059-2072.	4.4	133
6	THE FAINT "HEARTBEATS" OF IGR J17091-3624: AN EXCEPTIONAL BLACK HOLE CANDIDATE. <i>Astrophysical Journal Letters</i> , 2011, 742, L17.	8.3	123
7	Fast variability as a tracer of accretion regimes in black hole transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 679-684.	4.4	120
8	Black hole-like hysteresis and accretion states in neutron star low-mass X-ray binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 3270-3283.	4.4	112
9	On the masses and evolutionary status of the black hole binary GX 339-4: a twin system of XTE J1550-564?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 2205-2209.	4.4	108
10	The unusual γ -ray burst GRB 101225A from a helium star/neutron star merger at redshift 0.33. <i>Nature</i> , 2011, 480, 72-74.	27.8	100
11	Regulation of black-hole accretion by a disk wind during a violent outburst of V404 Cygni. <i>Nature</i> , 2016, 534, 75-78.	27.8	99
12	Discovery of two simultaneous non-harmonically related quasi-periodic oscillations in the 2005 outburst of the black hole binary GRO J1655-40. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 595-606.	4.4	88
13	A Black Hole Nova Obscured by an Inner Disk Torus. <i>Science</i> , 2013, 339, 1048-1051.	12.6	86
14	The truncated and evolving inner accretion disc of the black hole GX 339-4. <i>Astronomy and Astrophysics</i> , 2015, 573, A120.	5.1	81
15	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
16	TRACING THE REVERBERATION LAG IN THE HARD STATE OF BLACK HOLE X-RAY BINARIES. <i>Astrophysical Journal</i> , 2015, 814, 50.	4.5	73
17	Dynamical Confirmation of a Black Hole in MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2019, 882, L21.	8.3	73
18	The Binary Mass Ratio in the Black Hole Transient MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2020, 893, L37.	8.3	73

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19	MAXI J1659-152: the shortest orbital period black-hole transient in outburst. <i>Astronomy and Astrophysics</i> , 2013, 552, A32.	5.1	72
20	Fifteen years of XMM-Newton and Chandra monitoring of Sgr A ⁺ : evidence for a recent increase in the bright flaring rate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1525-1544.	4.4	71
21	Inclination and relativistic effects in the outburst evolution of black hole transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1330-1337.	4.4	67
22	Revealing accretion on to black holes: X-ray reflection throughout three outbursts of GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 1767-1785.	4.4	60
23	LOFAR MSSS: detection of a low-frequency radio transient in 400 h of monitoring of the North Celestial Pole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2321-2342.	4.4	60
24	Hard-state Accretion Disk Winds from Black Holes: The Revealing Case of MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2019, 879, L4.	8.3	56
25	Furiously fast and red: sub-second optical flaring in V404 Cyg during the 2015 outburst peak. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 554-572.	4.4	52
26	Engulfing a radio pulsar: the case of PSR J1023+0038. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 1783-1792.	4.4	49
27	VLT/X-shooter spectroscopy of the GRB 120327A afterglow. <i>Astronomy and Astrophysics</i> , 2014, 564, A38.	5.1	49
28	Swift J1357.2-0933: a massive black hole in the Galactic thick disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 2199-2204.	4.4	48
29	The black hole candidate MAXI J1659-152: spectral and timing analysis during its 2010 outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 292-300.	4.4	46
30	A complex state transition from the black hole candidate Swift J1753.5-0127. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1244-1257.	4.4	42
31	The orbital period of V458 Vulpeculae, a post-double common-envelope nova. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 407, L21-L25.	3.3	40
32	On the outburst evolution of H1743-322: a 2008/2009 comparison. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1796-1807.	4.4	40
33	On the Fe K absorption accretion state connection in the Galactic Centre neutron star X-ray binary AX J1745.6-2901. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 1536-1550.	4.4	40
34	Multi-wavelength afterglow observations of the high redshift GRB 050730. <i>Astronomy and Astrophysics</i> , 2006, 460, 415-424.	5.1	38
35	Flares, wind and nebulae: the 2015 December mini-outburst of V404 Cygni. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 0, , .	3.3	37
36	DISCOVERY OF A NEW SOFT GAMMA REPEATER, SGR J1833-0832. <i>Astrophysical Journal</i> , 2010, 718, 331-339.	4.5	36

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37	Time lags in the ultraluminous X-ray source NGC 5408 X-1: implications for the black hole mass. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 3782-3791.	4.4	36
38	The hard state of black hole candidates: XTEJ1752âˆ²223. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 404, L94-L98.	3.3	35
39	The Balance of Power: Accretion and Feedback in Stellar Mass Black Holes. <i>Lecture Notes in Physics</i> , 2016, , 65-100.	0.7	34
40	Swift J1357.2âˆ²0933: the faintest black hole?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 902-905.	4.4	33
41	The low-luminosity accretion disc wind of the black hole transient V4641 Sagittarii. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3987-3995.	4.4	32
42	Near-infrared emission lines trace the state-independent accretion disc wind of the black hole transient MAXI J1820+070. <i>Astronomy and Astrophysics</i> , 2020, 640, L3.	5.1	32
43	The donor of Aquila X-1 revealed by high-angular resolution near-infrared spectroscopy. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 464, L41-L45.	3.3	31
44	High ionisation absorption in low mass Xâ€ray binaries. <i>Astronomische Nachrichten</i> , 2016, 337, 512-517.	1.2	30
45	HiPERCAM: a quintuple-beam, high-speed optical imager on the 10.4-m Gran Telescopio Canarias. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 350-366.	4.4	30
46	Dynamical constraints on the neutron star mass in EXO 0748-676. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 394, L136-L140.	3.3	28
47	Spectral properties of transitions between soft and hard states in GX 339âˆ²4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 1746-1752.	4.4	28
48	Links between quasi-periodic oscillations and accretion states in neutron star low-mass X-ray binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 2311-2324.	4.4	28
49	A clean sightline to quiescence: multiwavelength observations of the high Galactic latitude black hole X-ray binary Swift J1357.2âˆ²0933. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2707-2716.	4.4	27
50	A NICER look at the state transitions of the black hole candidate MAXI J1535âˆ²571 during its reflares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1001-1012.	4.4	27
51	A late jet rebrightening revealed from multiwavelength monitoring of the black hole candidate XTE J1752âˆ²223âˆ².... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 1740-1751.	4.4	25
52	1RXS J180408.9-342058: An ultra compact X-ray binary candidate with a transient jet. <i>Astronomy and Astrophysics</i> , 2016, 587, A102.	5.1	25
53	A persistent ultraviolet outflow from an accreting neutron star binary transient. <i>Nature</i> , 2022, 603, 52-57.	27.8	24
54	Echoes from the companion star in Sco X-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 379, 1637-1646.	4.4	23

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55	The evolution of the disc variability along the hard state of the black hole transient GX 339-4. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2360-2371.	4.4	23
56	Mass constraints to Sco X-1 from Bowen fluorescence and deep near-infrared spectroscopy. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 449, L1-L5.	3.3	23
57	The 1989 and 2015 outbursts of V404 Cygni: a global study of wind-related optical features. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2646-2665.	4.4	23
58	A 420-day X-ray/optical modulation and extended X-ray dips in the short-period transient Swift J1753.5âˆ’0127. Monthly Notices of the Royal Astronomical Society, 2013, 433, 740-745.	4.4	22
59	The Changing-look Optical Wind of the Flaring X-Ray Transient Swift J1858.6-0814. Astrophysical Journal Letters, 2020, 893, L19.	8.3	22
60	The faint 2011 outburst of the black hole X-ray binary candidate MAXI J1543âˆ’564. Monthly Notices of the Royal Astronomical Society, 2012, 422, 679-685.	4.4	21
61	A â€˜high-hardâ€™ outburst of the black hole X-ray binary GS 1354âˆ’64. Monthly Notices of the Royal Astronomical Society, 2016, 460, 942-955.	4.4	21
62	Spectral and timing evolution of the bright failed outburst of the transient black hole Swift J174510.8âˆ’262411. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3585-3595.	4.4	21
63	The puzzling orbital period evolution of the LMXB AX J1745.6âˆ’2901. Monthly Notices of the Royal Astronomical Society, 2017, 464, 840-849.	4.4	21
64	An equatorial outflow in the black hole optical dipper Swift J1357.2âˆ’0933. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3420-3426.	4.4	21
65	Photoionization instability of the Fe K absorbing plasma in the neutron star transient AX J1745.6-2901. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2454-2461.	4.4	20
66	X-ray binary accretion states in active galactic nuclei? Sensing the accretion disc of supermassive black holes with mid-infrared nebular lines. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5726-5740.	4.4	20
67	Searching for flickering statistics in T CrB. Monthly Notices of the Royal Astronomical Society, 2010, 402, 2567-2574.	4.4	19
68	Accretion and outflow in V404 Cyg. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1356-1365.	4.4	19
69	An evolved donor star in the long-period cataclysmic variable HS 0218+3229. Astronomy and Astrophysics, 2009, 496, 805-812.	5.1	18
70	The optical counterpart of the bright X-ray transient Swift J1745âˆ’26. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1133-1137.	4.4	17
71	System mass constraints for the accreting millisecond pulsar XTE J1814-338 using Bowen fluorescence. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2261-2271.	4.4	17
72	Hard-state Optical Wind during the Discovery Outburst of the Black Hole X-Ray Dipper MAXI J1803â€“298. Astrophysical Journal Letters, 2022, 926, L10.	8.3	16

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73	The variable radio counterpart of <i>Swift</i> J1858.6-0814. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4127-4140.	4.4	15
74	Dips and eclipses in the X-ray binary Swift J1858.6�0814 observed with <i>NICER</i>. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5600-5610.	4.4	15
75	The long-term evolution of the X-ray pulsar XTE J1814-338: A receding jet contribution to the quiescent optical emission?. Astronomy and Astrophysics, 2013, 559, A42.	5.1	14
76	The complex evolution of the X-ray binary transient MAXI J1807+132 along the decay of its discovery outburst. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2078-2088.	4.4	14
77	Discovery of optical outflows and inflows in the black hole candidate GRS J1716�249. Monthly Notices of the Royal Astronomical Society, 2020, 498, 25-32.	4.4	13
78	First light with HiPERCAM on the GTC. , 2018, , .		13
79	Multiwavelength observations of the black hole transient Swift J1745�26 during the outburst decay. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1288-1298.	4.4	12
80	Phase-resolved spectroscopy of the accreting millisecond X-ray pulsar SAX J1808.4-3658 during the 2008 outburst. Astronomy and Astrophysics, 2009, 495, L1-L4.	5.1	12
81	The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , .	0.8	10
82	Swift and SALT observations of the multiple outbursts of MAXI J1957+032. Monthly Notices of the Royal Astronomical Society, 2017, 468, 564-569.	4.4	10
83	Measuring masses in low mass X-ray binaries via X-ray spectroscopy: the case of MXB 1659-298. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 481, L94-L99.	3.3	9
84	Soft X-ray emission lines in the X-ray binary Swift J1858.6�0814 observed with XMM-Newton Reflection Grating Spectrometer: disc atmosphere or wind?. Monthly Notices of the Royal Astronomical Society, 2020, 498, 68-76.	4.4	9
85	<i>Suzaku</i> spectroscopy of the neutron star transient 4U 1608�52 during its outburst decay.. Monthly Notices of the Royal Astronomical Society, 0, , stx020.	4.4	8
86	The very faint hard state of the persistent neutron star X-ray binary SLX 1737�282 near the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3789-3795.	4.4	8
87	A search for evidence of irradiation in Centaurus X-4 during quiescence. Astronomy and Astrophysics, 2006, 460, 257-260.	5.1	8
88	A search for the near-infrared counterpart of the eclipsing millisecond X-ray pulsar Swift J1749.4�2807. Astronomy and Astrophysics, 2011, 534, A92.	5.1	7
89	The nature of the X-ray transient MAXI J0556�332. Monthly Notices of the Royal Astronomical Society, 2012, 420, 3538-3544.	4.4	7
90	On the optical counterparts of radio transients and variables. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2481-2504.	4.4	7

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91	Bowen emission from Aquila X-1: evidence for multiple components and constraint on the accretion disc vertical structure. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4717-4722.	4.4	6
92	Optical nebular emission following the most luminous outburst of Aquila X-1. Astronomy and Astrophysics, 2021, 650, A135.	5.1	6
93	Multiwavelength observations reveal a faint candidate black hole X-ray binary in IGR J17285+2922. Monthly Notices of the Royal Astronomical Society, 2021, 507, 330-349.	4.4	6
94	A Misfired Outburst in the Neutron Star X-Ray Binary Centaurus X-4. Astrophysical Journal, 2022, 930, 20.	4.5	6
95	Probing Jet Launching in Neutron Star X-Ray Binaries: The Variable and Polarized Jet of SAX J1808.4-3658. Astrophysical Journal, 2020, 905, 87.	4.5	5
96	The near-infrared counterpart of 4U 1636-53. Astronomy and Astrophysics, 2012, 539, A53.	5.1	4
97	The featureless and non-variable optical spectral energy distribution of AXP 4U 0142+61. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 458, L114-L117.	3.3	4
98	Multiwavelength spectroscopy of the black hole candidate MAXI J1813-095 during its discovery outburst. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5235-5243.	4.4	4
99	Multiband echo tomography of Sco X-1. Advances in Space Research, 2006, 38, 2762-2764.	2.6	2
100	The puzzling case of the accreting millisecond X-ray pulsar IGR J00291+5934: flaring optical emission during quiescence. Astronomy and Astrophysics, 2017, 600, A109.	5.1	2
101	A Tentative 114 minute Orbital Period Challenges the Ultracompact Nature of the X-Ray Binary 4U 1812-12. Astrophysical Journal Letters, 2022, 931, L9.	8.3	1