Piergiorgio Casella

List of Publications by Year
in descending order

95	5,082	94433 37	91884 69
papers	citations	h-index	g-index

95	95	95	3027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The evolution of the timing properties of the black-hole transient GX 339â€“4 during its 2002/2003 outburst. Astronomy and Astrophysics, 2005, 440, 207-222.	5.1	369
2	An accreting pulsar with extreme properties drives an ultraluminous x-ray source in NGC 5907. Science, 2017, 355, 817-819.	12.6	321
3	The ABC of Lowâ€Frequency Quasiâ€periodic Oscillations in Black Hole Candidates: Analogies with Z Sources. Astrophysical Journal, 2005, 629, 403-407.	4.5	285
4	The Discovery of Rapid X-Ray Oscillations in the Tail of the SGR 1806-20 Hyperflare. Astrophysical Journal, 2005, 628, L53-L56.	4.5	274
5	A study of the low-frequency quasi-periodic oscillations in the X-ray light curves of the black hole candidate XTE J1859+226. Astronomy and Astrophysics, 2004, 426, 587-600.	5.1	169
6	The Large Observatory for X-ray Timing (LOFT). Experimental Astronomy, 2012, 34, 415-444.	3.7	168
7	Low-frequency oscillations in black holes: a spectral-timing approach to the case of GX 339-4. Monthly Notices of the Royal Astronomical Society, 2011, 418, 2292-2307.	4.4	144
8	Geometrical constraints on the origin of timing signals from black holes. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2059-2072.	4.4	133
9	Discovery of Coherent Millisecond X-Ray Pulsations in Aquila X-1. Astrophysical Journal, 2008, 674, L41-L44.	4.5	131
10	A VARIABLE MID-INFRARED SYNCHROTRON BREAK ASSOCIATED WITH THE COMPACT JET IN GX 339-4. Astrophysical Journal Letters, 2011, 740, L13.	8.3	124
11	THE FAINT â€œHEARTBEATSâ€•OF IGR J17091â^'3624: AN EXCEPTIONAL BLACK HOLE CANDIDATE. Astrophysical Journal Letters, 2011, 742, L17.	8.3	123
12	Fast infrared variability from a relativistic jet in GX 339-4. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 404, L21-L25.	3.3	111
13	eXTP: Enhanced X-ray Timing and Polarization mission. Proceedings of SPIE, 2016, , .	0.8	106
14	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
15	XTE J1701â€“462 AND ITS IMPLICATIONS FOR THE NATURE OF SUBCLASSES IN LOW-MAGNETIC-FIELD NEUTRON STAR LOW-MASS X-RAY BINARIES. Astrophysical Journal, 2010, 719, 201-212.	4.5	104
16	XIPE: the X-ray imaging polarimetry explorer. Experimental Astronomy, 2013, 36, 523-567.	3.7	103
17	Jet spectral breaks in black hole X-ray binaries. Monthly Notices of the Royal Astronomical Society, 2013, 429, 815-832.	4.4	99
18	Rapid optical and X-ray timing observations of GXâ€ƒ339â^'4: multicomponent optical variability in the low/hard state. Monthly Notices of the Royal Astronomical Society, 0, 407, 2166-2192.	4.4	95

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19	Intermittent Millisecond X-Ray Pulsations from the Neutron Star X-Ray Transient SAX J1748.9-2021 in the Globular Cluster NGC 6440. Astrophysical Journal, 2008, 674, L45-L48.	4.5	93
20	INTEGRAL/RXTE high-energy observation of a state transition of GX 339-4. Monthly Notices of the Royal Astronomical Society, 2006, 367, 1113-1120.	4.4	88
21	Discovery of two simultaneous non-harmonically related quasi-periodic oscillations in the 2005 outburst of the black hole binary GROâ€‰J1655â˜40. Monthly Notices of the Royal Astronomical Society, 2012, 427, 595-606.	4.4	88
22	Rossi Xâ€Ray Timing ExplorerObservations of the First Transient Z Source XTE J1701â˜462: Shedding New Light on Mass Accretion in Luminous Neutron Star Xâ€Ray Binaries. Astrophysical Journal, 2007, 656, 420-430.	4.5	87
23	The far-ultraviolet signature of the â€˜missingâ€™ baryons in the Local Group of galaxies. Nature, 2003, 421, 719-721.	27.8	82
24	AN EVOLVING COMPACT JET IN THE BLACK HOLE X-RAY BINARY MAXI J1836â€“194. Astrophysical Journal Letters, 2013, 768, L35.	8.3	65
25	The Lowest-frequency Fast Radio Bursts: Sardinia Radio Telescope Detection of the Periodic FRB 180916 at 328 MHz. Astrophysical Journal Letters, 2020, 896, L40.	8.3	65
26	A MODEL FOR EMISSION FROM JETS IN X-RAY BINARIES: CONSEQUENCES OF A SINGLE ACCELERATION EPISODE. Astrophysical Journal, 2009, 699, 1919-1937.	4.5	61
27	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
28	A strong and broad Fe line in the XMM-Newton spectrum of the new X-ray transient and black hole candidate XTEâ€ƒJ1652â˜453. Monthly Notices of the Royal Astronomical Society, 2011, 411, 137-150.	4.4	56
29	A variable Quasi-Periodic Oscillation in M82 X-1. Timing and spectral analysis of XMM-Newton and RossiXTE observations. Monthly Notices of the Royal Astronomical Society, 2005, 365, 1123-1130.	4.4	53
30	Furiously fast and red: sub-second optical flaring in V404ÂCyg during the 2015 outburst peak. Monthly Notices of the Royal Astronomical Society, 2016, 459, 554-572.	4.4	52
31	Observatory science with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	50
32	Detection of the first infra-red quasi-periodic oscillation in a black hole X-ray binary. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3284-3291.	4.4	45
33	A transient low-frequency quasi-periodic oscillation from the black hole binary GRS 1915+105. Monthly Notices of the Royal Astronomical Society, 0, 383, 1089-1102.	4.4	42
34	A complex state transition from the black hole candidate Swift J1753.5â˜0127. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1244-1257.	4.4	42
35	High-frequency quasi-periodic oscillations from GRS 1915+105 in its C state. Monthly Notices of the Royal Astronomical Society, 2006, 369, 305-310.	4.4	41
36	PHASE-COHERENT TIMING OF THE ACCRETING MILLISECOND PULSAR SAX J1748.9â€“2021. Astrophysical Journal, 2009, 690, 1856-1865.	4.5	41

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37	THE RETURN OF THE BURSTS: THERMONUCLEAR FLASHES FROM CIRCINUS X-1. Astrophysical Journal Letters, 2010, 719, L84-L89.	8.3	41
38	The kilohertz quasi-periodic oscillations during the Z and atoll phases of the unique transient XTE J1701â˜462. Monthly Notices of the Royal Astronomical Society, 0, 408, 622-630.	4.4	39
39	Pulsating in Unison at Optical and X-Ray Energies: Simultaneous High Time Resolution Observations of the Transitional Millisecond Pulsar PSR J1023+0038. Astrophysical Journal, 2019, 882, 104.	4.5	39
40	Weighing the black holes in ultraluminous X-ray sources through timing. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1707-1711.	4.4	38
41	A CONNECTION BETWEEN PLASMA CONDITIONS NEAR BLACK HOLE EVENT HORIZONS AND OUTFLOW PROPERTIES. Astrophysical Journal, 2015, 814, 139.	4.5	38
42	Study of the Largest Multiwavelength Campaign of the Microquasar GRS 1915+105. Astrophysical Journal, 2002, 571, 918-935.	4.5	36
43	Radio frequency timing analysis of the compact jet in the black hole X-ray binary Cygnus X-1. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2987-3003.	4.4	35
44	A jet model for the fast IR variability of the black hole X-ray binary GX 339-4. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2054-2071.	4.4	34
45	ON THE ROLE OF THE MAGNETIC FIELD ON JET EMISSION IN X-RAY BINARIES. Astrophysical Journal, 2009, 703, L63-L66.	4.5	32
46	Measuring fundamental jet properties with multiwavelength fast timing of the black hole X-ray binary MAXI J1820+070. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3862-3883.	4.4	31
47	DISCOVERY OF AN ACCRETING MILLISECOND PULSAR IN THE ECLIPSING BINARY SYSTEM SWIFT J1749.4â€“2807. Astrophysical Journal Letters, 2011, 727, L18.	8.3	29
48	LOFT: the Large Observatory For X-ray Timing. Proceedings of SPIE, 2012, , .	0.8	29
49	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
50	Radio-loudness in black hole transients: evidence for an inclination effect. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5159-5173.	4.4	29
51	THE IDENTIFICATION OF MAXI J1659-152 AS A BLACK HOLE CANDIDATE. Astrophysical Journal Letters, 2011, 731, L2.	8.3	28
52	Accretion in strong field gravity with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	27
53	PARSEC-SCALE BIPOLAR X-RAY SHOCKS PRODUCED BY POWERFUL JETS FROM THE NEUTRON STAR CIRCINUS X-1. Astrophysical Journal Letters, 2010, 719, L194-L198.	8.3	25
54	A late jet rebrightening revealed from multiwavelength monitoring of the black hole candidate XTE J1752â˜223â˜.... Monthly Notices of the Royal Astronomical Society, 2012, 419, 1740-1751.	4.4	25

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55	Investigating the disc-jet coupling in accreting compact objects using the black hole candidate Swift J1753.5â^'0127. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	24
56	The complex behaviour of the microquasar GRSÂ1915+105 in theÏclass observed withBeppoSAX. Astronomy and Astrophysics, 2012, 537, A18.	5.1	24
57	Multi-Wavelength Variability. Space Science Reviews, 2014, 183, 453-476.	8.1	23
58	Characterization of the infrared/X-ray subsecond variability for the black hole transient GX 339-4. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4524-4533.	4.4	23
59	DISCOVERY OF BURST OSCILLATIONS IN THE INTERMITTENT ACCRETION-POWERED MILLISECOND PULSAR HETE J1900.1-2455. Astrophysical Journal, 2009, 698, L174-L177.	4.5	22
60	The complex behaviour of the microquasar GRSÂ1915+105 in theÏclass observed with BeppoSAX. Astronomy and Astrophysics, 2010, 513, A21.	5.1	22
61	Spectral and timing evolution of the bright failed outburst of the transient black hole Swift J174510.8â^'262411. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3585-3595.	4.4	21
62	A Wildly Flickering Jet in the Black Hole X-Ray Binary MAXI J1535â€"571. Astrophysical Journal, 2018, 867, 114.	4.5	20
63	A continuous flaring- to normal-branch transition in Scorpius X-1. Astronomy and Astrophysics, 2006, 446, 579-582.	5.1	18
64	Broad-band X-ray spectral evolution of GX 339â^'4 during a state transition^{â^…}. Monthly Notices of the Royal Astronomical Society, 2009, 392, 992-997.	4.4	16
65	Black hole candidate XTEâ€ƒJ1752â^'223: Swift observations of canonical states during outburst. Monthly Notices of the Royal Astronomical Society, 2011, 410, 541-547.	4.4	16
66	The appearance of a compact jet in the softâ€"intermediate state of 4U 1543â^'47. Monthly Notices of the Royal Astronomical Society, 2020, 495, 182-191.	4.4	16
67	Optical and ultraviolet pulsed emission from an accreting millisecond pulsar. Nature Astronomy, 2021, 5, 552-559.	10.1	15
68	Physical Constraints from Near-infrared Fast Photometry of the Black Hole Transient GX 339â€"4. Astrophysical Journal Letters, 2019, 887, L19.	8.3	14
69	The Ultraluminous X-Ray Sources Population of the Galaxy NGC 7456. Astrophysical Journal, 2020, 890, 166.	4.5	13
70	On the nature of the soft Î³-ray emission in the hard state of the black hole transient GRS 1716â^'249. Monthly Notices of the Royal Astronomical Society, 2020, 494, 571-583.	4.4	12
71	Paving the way to simultaneous multi-wavelength astronomy. New Astronomy Reviews, 2017, 79, 26-48.	12.8	11
72	Discovery of a thermonuclear Type I X-ray burst in infrared: new limits on the orbital period of 4U 1728-34. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 495, L37-L41.	3.3	11

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73	Fast infrared variability from the black hole candidate MAXIÂJ1535â˜571 and tight constraints on the modelling. Monthly Notices of the Royal Astronomical Society, 2021, 503, 614-624.	4.4	11
74	The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , .	0.8	10
75	The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , .	0.8	9
76	Peering at the outflow mechanisms in the transitional pulsar PSR J1023+0038: simultaneous VLT, XMM-Newton, and Swift high-time resolution observations. Astronomy and Astrophysics, 2019, 631, A104.	5.1	9
77	A transient high-coherence oscillation in 4U 1820â€“30. Astronomy and Astrophysics, 2004, 423, 969-973.	5.1	9
78	A Multiwavelength Study of GRS 1716-249 in Outburst: Constraints on Its System Parameters. Astrophysical Journal, 2022, 932, 38.	4.5	9
79	Magnetic Field Evolution in Accreting Millisecond Pulsars. , 2008, , .		7
80	A parsec scale X-ray extended structure from the X-ray binary Circinus Xâ€“1. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 397, L1-L5.	3.3	7
81	The complex behaviour of the microquasar GRS 1915+105 in theÏclass observed withBeppoSAX. Astronomy and Astrophysics, 2013, 556, A84.	5.1	7
82	Time domain astronomy with the THESEUS satellite. Experimental Astronomy, 2021, 52, 309-406.	3.7	7
83	Breaking the AMSP mould: the increasingly strange case of HETE J1900.1â”2455. , 2008, , .		6
84	The near-infrared counterpart of 4U 1636â€“53. Astronomy and Astrophysics, 2012, 539, A53.	5.1	4
85	BeppoSAX observations of GRS 1915+105. Astrophysics and Space Science, 2001, 276, 15-18.	1.4	3
86	Subâ€second variability in blackâ€hole Xâ€ray binary jets. Astronomische Nachrichten, 2019, 340, 319-322.	1.2	2
87	Transient QPOs in the microquasar XTE J1859+226. AIP Conference Proceedings, 2005, , .	0.4	1
88	Lighthouses with two lights: burst oscillations from the accretion-powered millisecond pulsars. , 2008, , .		1
89	The 2000 April multiwavelength campaign of GRS 1915+105. Astrophysics and Space Science, 2001, 276, 25-28.	1.4	0
90	The irregular Ï•mode of GRSÂ1915+105 observed with BeppoSAX. Nuclear Physics, Section B, Proceedings Supplements, 2004, 132, 408-411.	0.4	0

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91	Time and spectral changes of GRS 1915+105 in the Ï•class. AIP Conference Proceedings, 2005, , .	0.4	0
92	Ultraluminous X-ray sources: X-ray timing and new optical observations. AIP Conference Proceedings, 2006, , .	0.4	0
93	The timing history of the microquasar XTE J1859+226. Advances in Space Research, 2006, 38, 1346-1349.	2.6	0
94	A new model of emission from microquasar jets, and possible explanation to the outliers of the fundamental plane. Proceedings of the International Astronomical Union, 2010, 6, 303-304.	0.0	0
95	Multi-Wavelength Variability. Space Sciences Series of ISSI, 2014, , 453-476.	0.0	0