

Piergiorgio Casella

List of Publications by Year in descending order

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docs citations

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3027
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multiwavelength Study of GRS 1716-249 in Outburst: Constraints on Its System Parameters. <i>Astrophysical Journal</i> , 2022, 932, 38.	4.5	9
2	Fast infrared variability from the black hole candidate MAXI J1535-571 and tight constraints on the modelling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 614-624.	4.4	11
3	Optical and ultraviolet pulsed emission from an accreting millisecond pulsar. <i>Nature Astronomy</i> , 2021, 5, 552-559.	10.1	15
4	Measuring fundamental jet properties with multiwavelength fast timing of the black hole X-ray binary MAXI J1820+070. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3862-3883.	4.4	31
5	Time domain astronomy with the THESEUS satellite. <i>Experimental Astronomy</i> , 2021, 52, 309-406.	3.7	7
6	On the nature of the soft Γ -ray emission in the hard state of the black hole transient GRS 1716-249. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 571-583.	4.4	12
7	Discovery of a thermonuclear Type I X-ray burst in infrared: new limits on the orbital period of 4U 1728-34. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 495, L37-L41.	3.3	11
8	The appearance of a compact jet in the soft intermediate state of 4U 1543-47. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 182-191.	4.4	16
9	The Ultraluminous X-Ray Sources Population of the Galaxy NGC 7456. <i>Astrophysical Journal</i> , 2020, 890, 166.	4.5	13
10	Discovery of a 2.8 s Pulsar in a 2 Day Orbit High-mass X-Ray Binary Powering the Ultraluminous X-Ray Source U LX-7 in M51. <i>Astrophysical Journal</i> , 2020, 895, 60.	4.5	106
11	The Lowest-frequency Fast Radio Bursts: Sardinia Radio Telescope Detection of the Periodic FRB 180916 at 328 MHz. <i>Astrophysical Journal Letters</i> , 2020, 896, L40.	8.3	65
12	Pulsating in Unison at Optical and X-Ray Energies: Simultaneous High Time Resolution Observations of the Transitional Millisecond Pulsar PSR J1023+0038. <i>Astrophysical Journal</i> , 2019, 882, 104.	4.5	39
13	Radio frequency timing analysis of the compact jet in the black hole X-ray binary Cygnus X-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 2987-3003.	4.4	35
14	Subsecond variability in black hole X-ray binary jets. <i>Astronomische Nachrichten</i> , 2019, 340, 319-322.	1.2	2
15	Physical Constraints from Near-infrared Fast Photometry of the Black Hole Transient GX 339-4. <i>Astrophysical Journal Letters</i> , 2019, 887, L19.	8.3	14
16	Peering at the outflow mechanisms in the transitional pulsar PSR J1023+0038: simultaneous VLT, XMM-Newton, and Swift high-time resolution observations. <i>Astronomy and Astrophysics</i> , 2019, 631, A104.	5.1	9
17	Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	50
18	Accretion in strong field gravity with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	27

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19	A Wildly Flickering Jet in the Black Hole X-Ray Binary MAXI J1535-571. <i>Astrophysical Journal</i> , 2018, 867, 114.	4.5	20
20	A jet model for the fast IR variability of the black hole X-ray binary GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2054-2071.	4.4	34
21	Characterization of the infrared/X-ray subsecond variability for the black hole transient GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4524-4533.	4.4	23
22	Radio-loudness in black hole transients: evidence for an inclination effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 5159-5173.	4.4	29
23	An accreting pulsar with extreme properties drives an ultraluminous x-ray source in NGC 5907. <i>Science</i> , 2017, 355, 817-819.	12.6	321
24	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
25	Paving the way to simultaneous multi-wavelength astronomy. <i>New Astronomy Reviews</i> , 2017, 79, 26-48.	12.8	11
26	A precise measurement of the magnetic field in the corona of the black hole binary V404 Cygni. <i>Science</i> , 2017, 358, 1299-1302.	12.6	29
27	eXTP: Enhanced X-ray Timing and Polarization mission. <i>Proceedings of SPIE</i> , 2016, , .	0.8	106
28	The LOFT mission concept: a status update. <i>Proceedings of SPIE</i> , 2016, , .	0.8	9
29	Detection of the first infra-red quasi-periodic oscillation in a black hole X-ray binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3284-3291.	4.4	45
30	Spectral and timing evolution of the bright failed outburst of the transient black hole Swift J174510.8-262411. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3585-3595.	4.4	21
31	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
32	A CONNECTION BETWEEN PLASMA CONDITIONS NEAR BLACK HOLE EVENT HORIZONS AND OUTFLOW PROPERTIES. <i>Astrophysical Journal</i> , 2015, 814, 139.	4.5	38
33	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
34	The Large Observatory for x-ray timing. <i>Proceedings of SPIE</i> , 2014, , .	0.8	10
35	Multi-Wavelength Variability. <i>Space Science Reviews</i> , 2014, 183, 453-476.	8.1	23
36	Multi-Wavelength Variability. <i>Space Sciences Series of ISSI</i> , 2014, , 453-476.	0.0	0

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37	XIPE: the X-ray imaging polarimetry explorer. <i>Experimental Astronomy</i> , 2013, 36, 523-567.	3.7	103
38	AN EVOLVING COMPACT JET IN THE BLACK HOLE X-RAY BINARY MAXI J1836-194. <i>Astrophysical Journal Letters</i> , 2013, 768, L35.	8.3	65
39	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
40	The complex behaviour of the microquasar GRS 1915+105 in the <i>BeppoSAX</i> class observed with <i>BeppoSAX</i> . <i>Astronomy and Astrophysics</i> , 2013, 556, A84.	5.1	7
41	Jet spectral breaks in black hole X-ray binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 815-832.	4.4	99
42	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444.	3.7	168
43	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
44	LOFT: the Large Observatory For X-ray Timing. <i>Proceedings of SPIE</i> , 2012, , .	0.8	29
45	The near-infrared counterpart of 4U 1636-53. <i>Astronomy and Astrophysics</i> , 2012, 539, A53.	5.1	4
46	A late jet rebrightening revealed from multiwavelength monitoring of the black hole candidate XTE J1752+223. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 1740-1751.	4.4	25
47	The complex behaviour of the microquasar GRS 1915+105 in the <i>BeppoSAX</i> class observed with <i>BeppoSAX</i> . <i>Astronomy and Astrophysics</i> , 2012, 537, A18.	5.1	24
48	DISCOVERY OF AN ACCRETING MILLISECOND PULSAR IN THE ECLIPSING BINARY SYSTEM SWIFT J1749.4-2807. <i>Astrophysical Journal Letters</i> , 2011, 727, L18.	8.3	29
49	THE IDENTIFICATION OF MAXI J1659-152 AS A BLACK HOLE CANDIDATE. <i>Astrophysical Journal Letters</i> , 2011, 731, L2.	8.3	28
50	THE FAINT HEARTBEATS OF IGR J17091-3624: AN EXCEPTIONAL BLACK HOLE CANDIDATE. <i>Astrophysical Journal Letters</i> , 2011, 742, L17.	8.3	123
51	A VARIABLE MID-INFRARED SYNCHROTRON BREAK ASSOCIATED WITH THE COMPACT JET IN GX 339-4. <i>Astrophysical Journal Letters</i> , 2011, 740, L13.	8.3	124
52	Black hole candidate XTE J1752+223: Swift observations of canonical states during outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 541-547.	4.4	16
53	A strong and broad Fe line in the XMM-Newton spectrum of the new X-ray transient and black hole candidate XTE J1652+453. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 137-150.	4.4	56
54	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

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55	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
56	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
57	XTE J1701-462 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
58	THE RETURN OF THE BURSTS: THERMONUCLEAR FLASHES FROM CIRCINUS X-1. Astrophysical Journal Letters, 2010, 719, L84-L89.	8.3	41
59	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
60	The complex behaviour of the microquasar GRS 1915+105 in the \dot{X} class observed with BeppoSAX. Astronomy and Astrophysics, 2010, 513, A21.	5.1	22
61	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
62	DISCOVERY OF BURST OSCILLATIONS IN THE INTERMITTENT ACCRETION-POWERED MILLISECOND PULSAR HETE J1900.1-2455. Astrophysical Journal, 2009, 698, L174-L177.	4.5	22
63	ON THE ROLE OF THE MAGNETIC FIELD ON JET EMISSION IN X-RAY BINARIES. Astrophysical Journal, 2009, 703, L63-L66.	4.5	32
64	PHASE-COHERENT TIMING OF THE ACCRETING MILLISECOND PULSAR SAX J1748.9-2021. Astrophysical Journal, 2009, 690, 1856-1865.	4.5	41
65	Broad-band X-ray spectral evolution of GX 339-4 during a state transition \dot{X} . Monthly Notices of the Royal Astronomical Society, 2009, 392, 992-997.	4.4	16
66	A parsec scale X-ray extended structure from the X-ray binary Circinus X-1. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 397, L1-L5.	3.3	7
67	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
68	Breaking the AMSP mould: the increasingly strange case of HETE J1900.1-2455. , 2008, , .		6
69	Lighthouses with two lights: burst oscillations from the accretion-powered millisecond pulsars. , 2008, , .		1
70	Magnetic Field Evolution in Accreting Millisecond Pulsars. , 2008, , .		7
71	Discovery of Coherent Millisecond X-Ray Pulsations in Aquila X-1. Astrophysical Journal, 2008, 674, L41-L44.	4.5	131
72	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

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73	Rossi X-ray Timing Explorer Observations of the First Transient Z Source XTE J1701-462: Shedding New Light on Mass Accretion in Luminous Neutron Star X-ray Binaries. <i>Astrophysical Journal</i> , 2007, 656, 420-430.	4.5	87
74	A continuous flaring- to normal-branch transition in Scorpius X-1. <i>Astronomy and Astrophysics</i> , 2006, 446, 579-582.	5.1	18
75	Ultraluminous X-ray sources: X-ray timing and new optical observations. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
76	INTEGRAL/RXTE high-energy observation of a state transition of GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 1113-1120.	4.4	88
77	High-frequency quasi-periodic oscillations from GRS 1915+105 in its C state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 305-310.	4.4	41
78	The timing history of the microquasar XTE J1859+226. <i>Advances in Space Research</i> , 2006, 38, 1346-1349.	2.6	0
79	The ABC of Low-Frequency Quasi-Periodic Oscillations in Black Hole Candidates: Analogies with Z Sources. <i>Astrophysical Journal</i> , 2005, 629, 403-407.	4.5	285
80	The Discovery of Rapid X-Ray Oscillations in the Tail of the SGR 1806-20 Hyperflare. <i>Astrophysical Journal</i> , 2005, 628, L53-L56.	4.5	274
81	The evolution of the timing properties of the black-hole transient GX 339-4 during its 2002/2003 outburst. <i>Astronomy and Astrophysics</i> , 2005, 440, 207-222.	5.1	369
82	A variable Quasi-Periodic Oscillation in M82 X-1. Timing and spectral analysis of XMM-Newton and RossiXTE observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 365, 1123-1130.	4.4	53
83	Transient QPOs in the microquasar XTE J1859+226. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
84	Time and spectral changes of GRS 1915+105 in the $\dot{\gamma}$ -class. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
85	The irregular $\dot{\gamma}$ -mode of GRS 1915+105 observed with BeppoSAX. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 132, 408-411.	0.4	0
86	A transient high-coherence oscillation in 4U 1820-30. <i>Astronomy and Astrophysics</i> , 2004, 423, 969-973.	5.1	9
87	A study of the low-frequency quasi-periodic oscillations in the X-ray light curves of the black hole candidate XTE J1859+226. <i>Astronomy and Astrophysics</i> , 2004, 426, 587-600.	5.1	169
88	The far-ultraviolet signature of the $\dot{\gamma}$ -missing $\dot{\gamma}$ -baryons in the Local Group of galaxies. <i>Nature</i> , 2003, 421, 719-721.	27.8	82
89	Study of the Largest Multiwavelength Campaign of the Microquasar GRS 1915+105. <i>Astrophysical Journal</i> , 2002, 571, 918-935.	4.5	36
90	BeppoSAX observations of GRS 1915+105. <i>Astrophysics and Space Science</i> , 2001, 276, 15-18.	1.4	3

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91	The 2000 April multiwavelength campaign of GRS 1915+105. <i>Astrophysics and Space Science</i> , 2001, 276, 25-28.	1.4	0
92	A transient low-frequency quasi-periodic oscillation from the black hole binary GRS 1915+105. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 383, 1089-1102.	4.4	42
93	Rapid optical and X-ray timing observations of GX 339-4: multicomponent optical variability in the low/hard state. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 407, 2166-2192.	4.4	95
94	The kilohertz quasi-periodic oscillations during the Z and atoll phases of the unique transient XTE J1701-462. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 408, 622-630.	4.4	39
95	Investigating the disc-jet coupling in accreting compact objects using the black hole candidate Swift J1753.5-0127. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , no-no.	4.4	24