

Juri Poutanen

List of Publications by Year in descending order

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245
papers

11,592
citations

22153

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33894

99
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246
all docs

246
docs citations

246
times ranked

5344
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013, 43, 3-18.	4.3	504
2	Supercritically accreting stellar mass black holes as ultraluminous X-ray sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 377, 1187-1194.	4.4	402
3	Radiation mechanisms and geometry of Cygnus X-1 in the soft state. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 309, 496-512.	4.4	385
4	The Two-Phase Pair Corona Model for Active Galactic Nuclei and X-Ray Binaries: How to Obtain Exact Solutions. <i>Astrophysical Journal</i> , 1996, 470, 249.	4.5	372
5	The major upgrade of the MAGIC telescopes, Part II: A performance study using observations of the Crab Nebula. <i>Astroparticle Physics</i> , 2016, 72, 76-94.	4.3	305
6	<i>Colloquium</i> : Measuring the neutron star equation of state using x-ray timing. <i>Reviews of Modern Physics</i> , 2016, 88, .	45.6	234
7	On the nature of the X-ray emission from the accreting millisecond pulsar SAX J1808.4-3658. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 343, 1301-1311.	4.4	220
8	Limits to dark matter annihilation cross-section from a combined analysis of MAGIC and Fermi-LAT observations of dwarf satellite galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 039-039.	5.4	216
9	The Soft Gamma-Ray Spectral Variability of Cygnus X-1. <i>Astrophysical Journal</i> , 2002, 572, 984-995.	4.5	187
10	Spectral evolution of magnetic flares and time lags in accreting black hole sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 306, L31-L37.	4.4	185
11	Science with e-ASTROGAM. <i>Journal of High Energy Astrophysics</i> , 2018, 19, 1-106.	6.7	177
12	GeV BREAKS IN BLAZARS AS A RESULT OF GAMMA-RAY ABSORPTION WITHIN THE BROAD-LINE REGION. <i>Astrophysical Journal Letters</i> , 2010, 717, L118-L121.	8.3	172
13	Broad-band X-ray/ γ -ray spectra and binary parameters of GX 339-4 and their astrophysical implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 301, 435-450.	4.4	168
14	On the Geometry of the X-Ray-emitting Region in Seyfert Galaxies. <i>Astrophysical Journal</i> , 1995, 449, .	4.5	164
15	On the maximum accretion luminosity of magnetized neutron stars: connecting X-ray pulsars and ultraluminous X-ray sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 2539-2548.	4.4	163
16	Understanding the Long-Term Spectral Variability of Cygnus X-1 with Burst and Transient Source Experiment and All-sky Monitor Observations. <i>Astrophysical Journal</i> , 2002, 578, 357-373.	4.5	155
17	A NEUTRON STAR STIFF EQUATION OF STATE DERIVED FROM COOLING PHASES OF THE X-RAY BURSTER 4U 1724-307. <i>Astrophysical Journal</i> , 2011, 742, 122.	4.5	154
18	The major upgrade of the MAGIC telescopes, Part I: The hardware improvements and the commissioning of the system. <i>Astroparticle Physics</i> , 2016, 72, 61-75.	4.3	150

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19	The critical accretion luminosity for magnetized neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1847-1856.	4.4	144
20	Learning about Active Galactic Nucleus Jets from Spectral Properties of Blazars. <i>Astrophysical Journal</i> , 1997, 484, 108-117.	4.5	140
21	X-ray spectra of accretion discs with dynamic coronae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, 417-427.	4.4	140
22	Neutron star mass and radius measurements from atmospheric model fits to X-ray burst cooling tail spectra. <i>Astronomy and Astrophysics</i> , 2017, 608, A31.	5.1	133
23	Imaging X-ray Polarimetry Explorer: prelaunch. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.8	132
24	Black hole lightning due to particle acceleration at subhorizon scales. <i>Science</i> , 2014, 346, 1080-1084.	12.6	128
25	Propeller effect in action in the ultraluminous accreting magnetar M82 X ² . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1101-1106.	4.4	123
26	OSSE and [ITAL]RXTE[/ITAL] Observations of GRS 1915+105: Evidence for Nonthermal Comptonization. <i>Astrophysical Journal</i> , 2001, 554, L45-L48.	4.5	121
27	Observations of Seyfert Galaxies by OSSE and Parameters of Their X ^{Ray} /Gamma ^{Ray} Sources. <i>Astrophysical Journal</i> , 2000, 542, 703-709.	4.5	114
28	A REFLECTION MODEL FOR THE CYCLOTRON LINES IN THE SPECTRA OF X-RAY PULSARS. <i>Astrophysical Journal</i> , 2013, 777, 115.	4.5	113
29	GAMMA-RAY BURSTS FROM MAGNETIZED COLLISIONALLY HEATED JETS. <i>Astrophysical Journal</i> , 2011, 738, 77.	4.5	112
30	X-ray bursting neutron star atmosphere models: spectra and color corrections. <i>Astronomy and Astrophysics</i> , 2011, 527, A139.	5.1	111
31	eXTP: Enhanced X-ray Timing and Polarization mission. <i>Proceedings of SPIE</i> , 2016, , .	0.8	106
32	Pulse profiles of millisecond pulsars and their Fourier amplitudes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 836-844.	4.4	105
33	Spectral variability of ultraluminous X-ray sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 1450-1460.	4.4	105
34	XIPE: the X-ray imaging polarimetry explorer. <i>Experimental Astronomy</i> , 2013, 36, 523-567.	3.7	103
35	Equation of state constraints for the cold dense matter inside neutron stars using the cooling tail method. <i>Astronomy and Astrophysics</i> , 2016, 591, A25.	5.1	100
36	INTEGRAL and RXTE observations of accreting millisecond pulsar IGR J00291+5934 in outburst. <i>Astronomy and Astrophysics</i> , 2005, 444, 15-24.	5.1	95

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37	Unification of Spectral States of Accreting Black Holes. <i>Physica Scripta</i> , 1998, T77, 57-59.	2.5	93
38	MULTIWAVELENGTH STUDY OF QUIESCENT STATES OF Mrk 421 WITH UNPRECEDENTED HARD X-RAY COVERAGE PROVIDED BY NuSTAR IN 2013. <i>Astrophysical Journal</i> , 2016, 819, 156.	4.5	90
39	Accreting millisecond pulsar SAX J1808.4-173658 during its 2002 outburst: evidence for a receding disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 492-508.	4.4	87
40	X-ray bursting neutron star atmosphere models using an exact relativistic kinetic equation for Compton scattering. <i>Astronomy and Astrophysics</i> , 2012, 545, A120.	5.1	87
41	Physics of accretion in the millisecond pulsar XTE J1751-305. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 1261-1276.	4.4	85
42	The effect of accretion on the measurement of neutron star mass and radius in the low-mass X-ray binary 4U 1608-52. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 3777-3790.	4.4	83
43	Hot accretion flow in black hole binaries: a link connecting X-rays to the infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 3196-3212.	4.4	82
44	Teraelectronvolt pulsed emission from the Crab Pulsar detected by MAGIC. <i>Astronomy and Astrophysics</i> , 2016, 585, A133.	5.1	82
45	Broad-band spectra of Cygnus X-1 and correlations between spectral characteristics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 1435-1450.	4.4	81
46	Dense matter with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	81
47	VERY HIGH ENERGY γ -RAYS FROM THE UNIVERSE'S MIDDLE AGE: DETECTION OF THE $z = 0.940$ BLAZAR PKS 1441+25 WITH MAGIC. <i>Astrophysical Journal Letters</i> , 2015, 815, L23.	8.3	78
48	Propeller effect in two brightest transient X-ray pulsars: 4U 0115+63 and V 0332+53. <i>Astronomy and Astrophysics</i> , 2016, 593, A16.	5.1	74
49	ON THE ORIGIN OF SPECTRAL STATES IN ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2009, 690, L97-L100.	4.5	73
50	SMC X-3: the closest ultraluminous X-ray source powered by a neutron star with non-dipole magnetic field. <i>Astronomy and Astrophysics</i> , 2017, 605, A39.	5.1	72
51	Superorbital variability of X-ray and radio emission of Cyg X-1 - II. Dependence of the orbital modulation and spectral hardness on the superorbital phase. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 1427-1438.	4.4	71
52	Light curves and polarization of accretion- and nuclear-powered millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2004, 426, 985-997.	5.1	70
53	Gamma-ray bursts from synchrotron self-Compton emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, L35-L39.	4.4	68
54	Characterizing a new class of variability in GRS 1915+105 with simultaneous INTEGRAL/RXTE observations. <i>Astronomy and Astrophysics</i> , 2005, 435, 995-1004.	5.1	66

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55	Luminosity dependence of the cyclotron line and evidence for the accretion regime transition in V 0332+53. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2143-2150.	4.4	64
56	INTEGRAL spectroscopy of the accreting millisecond pulsar XTE J1807-294 in outburst. <i>Astronomy and Astrophysics</i> , 2005, 436, 647-652.	5.1	63
57	Spectra of the spreading layers on the neutron star surface and constraints on the neutron star equation of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 2036-2048.	4.4	62
58	A SYNCHROTRON SELF-COMPTON-DISK REPROCESSING MODEL FOR OPTICAL/X-RAY CORRELATION IN BLACK HOLE X-RAY BINARIES. <i>Astrophysical Journal Letters</i> , 2011, 737, L17.	8.3	62
59	Modelling Spectral and Timing Properties of Accreting Black Holes: The Hybrid Hot Flow Paradigm. <i>Space Science Reviews</i> , 2014, 183, 61-85.	8.1	61
60	Time Domain Analysis of Variability in Cygnus X-1: Constraints on the Emission Models. <i>Astrophysical Journal</i> , 2000, 537, L107-L110.	4.5	57
61	TIME-DEPENDENT MODELING OF RADIATIVE PROCESSES IN HOT MAGNETIZED PLASMAS. <i>Astrophysical Journal</i> , 2009, 698, 293-316.	4.5	57
62	A UNIFIED LENSE-THIRING PRECESSION MODEL FOR OPTICAL AND X-RAY QUASI-PERIODIC OSCILLATIONS IN BLACK HOLE BINARIES. <i>Astrophysical Journal</i> , 2013, 778, 165.	4.5	57
63	Detection of very high energy gamma-ray emission from the gravitationally lensed blazar QSO B0218+357 with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2016, 595, A98.	5.1	56
64	Spectral and temporal properties of Compton scattering by mildly relativistic thermal electrons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5234-5246.	4.4	56
65	The influence of accretion geometry on the spectral evolution during thermonuclear (type I) X-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 4218-4234.	4.4	54
66	Stable accretion from a cold disc in highly magnetized neutron stars. <i>Astronomy and Astrophysics</i> , 2017, 608, A17.	5.1	51
67	On the association of the ultraluminous X-ray sources in the Antennae galaxies with young stellar clusters... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 506-519.	4.4	50
68	Positive correlation between the cyclotron line energy and luminosity in sub-critical X-ray pulsars: Doppler effect in the accretion channel. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 2714-2721.	4.4	50
69	Preferred sunspot longitudes: non-axisymmetry and differential rotation. <i>Astronomy and Astrophysics</i> , 2005, 441, 347-352.	5.1	49
70	A self-consistent hybrid Comptonization model for broad-band spectra of accreting supermassive black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 3330-3343.	4.4	49
71	FIRST NuSTAR OBSERVATIONS OF MRK 501 WITHIN A RADIO TO TeV MULTH-INSTRUMENT CAMPAIGN. <i>Astrophysical Journal</i> , 2015, 812, 65.	4.5	49
72	Multiband variability studies and novel broadband SED modeling of Mrk 501 in 2009. <i>Astronomy and Astrophysics</i> , 2017, 603, A31.	5.1	49

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73	Doughnut strikes sandwich: the geometry of hot medium in accreting black hole X-ray binaries. <i>Astronomy and Astrophysics</i> , 2018, 614, A79.	5.1	48
74	The X-ray properties of Be/X-ray pulsars in quiescence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 126-141.	4.4	47
75	Relativistic jets in blazars: Polarization of radiation. <i>Astrophysical Journal, Supplement Series</i> , 1994, 92, 607.	7.7	47
76	MAGIC observations of the February 2014 flare of 1ES 1011+496 and ensuing constraint of the EBL density. <i>Astronomy and Astrophysics</i> , 2016, 590, A24.	5.1	46
77	An Off- Å Line Scan of the BATSE Daily Records and a Large Uniform Sample of Gamma- Å Ray Bursts. <i>Astrophysical Journal</i> , 2001, 563, 80-94.	4.5	46
78	Super-Eddington accretion discs with advection and outflows around magnetized neutron stars. <i>Astronomy and Astrophysics</i> , 2019, 626, A18.	5.1	45
79	Spectroscopic evidence for a low-mass black hole in SWIFT- Å J1753.5- Å 0127. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2424-2439.	4.4	44
80	Active Galactic Nuclei under the scrutiny of CTA. <i>Astroparticle Physics</i> , 2013, 43, 215-240.	4.3	42
81	Super-Eddington accretion on to a magnetized neutron star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2799-2813.	4.4	41
82	Deep observation of the NGC- Å 1275 region with MAGIC: search of diffuse Å -ray emission from cosmic rays in the Perseus cluster. <i>Astronomy and Astrophysics</i> , 2016, 589, A33.	5.1	40
83	Green's matrix for Compton reflection of polarized radiation from cold matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 283, 892-904.	4.4	39
84	Radiation from relativistic jets in blazars and the efficient dissipation of their bulk energy via photon breeding. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 383, 1695-1712.	4.4	39
85	Variation of the Å opacity by the He II Lyman continuum constrains the location of the Å -ray emission region in the blazar 3C 454.3. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 417, L11-L15.	3.3	38
86	Accretion-powered millisecond pulsars. <i>Advances in Space Research</i> , 2006, 38, 2697-2703.	2.6	37
87	Dramatic spectral transition of X-ray pulsar GX- Å 304- Å 1 in low luminous state. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 483, L144-L148.	3.3	37
88	POLARIZATION MODULATION FROM LENSE- Å THIRRING PRECESSION IN X-RAY BINARIES. <i>Astrophysical Journal</i> , 2015, 807, 53.	4.5	36
89	Long-term multi-wavelength variability and correlation study of Markarian 421 from 2007 to 2009. <i>Astronomy and Astrophysics</i> , 2016, 593, A91.	5.1	36
90	The direct cooling tail method for X-ray burst analysis to constrain neutron star masses and radii. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 906-913.	4.4	36

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91	On the magnetic field of the first Galactic ultraluminous X-ray pulsar Swift J0243.6+6124. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 479, L134-L138.	3.3	35
92	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. Astroparticle Physics, 2019, 111, 35-53.	4.3	35
93	Transient X-ray pulsar VÂ0332+53: pulse-phase-resolved spectroscopy and the reflection model. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2175-2186.	4.4	34
94	Understanding spectral variability and time lags in accreting black holes. Advances in Space Research, 2001, 28, 267-280.	2.6	33
95	Multiwavelength observations of a VHE gamma-ray flare from PKSâ€‰1510â€‰089 in 2015. Astronomy and Astrophysics, 2017, 603, A29.	5.1	33
96	Rosseland and Flux Mean Opacities for Compton Scattering. Astrophysical Journal, 2017, 835, 119.	4.5	33
97	Cyclotron emission, absorption, and the two faces of X-ray pulsar Aâ€‰0535+262. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 487, L30-L34.	3.3	33
98	Spectral and timing properties of the accreting X-ray millisecond pulsar IGRâ€‰17511â€‰3057. Astronomy and Astrophysics, 2011, 529, A68.	5.1	32
99	Pulsating ULXs: large pulsed fraction excludes strong beaming. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2424-2429.	4.4	32
100	Impact of reverberation in flared accretion discs on temporal characteristics of X-ray binaries. Monthly Notices of the Royal Astronomical Society, 2002, 332, 257-270.	4.4	30
101	PROPELLER EFFECT IN THE TRANSIENT X-RAY PULSAR SMC X-2. Astrophysical Journal, 2017, 834, 209.	4.5	30
102	LOFT: the Large Observatory For X-ray Timing. Proceedings of SPIE, 2012, , .	0.8	29
103	A SEARCH FOR SPECTRAL HYSTERESIS AND ENERGY-DEPENDENT TIME LAGS FROM X-RAY AND TeV GAMMA-RAY OBSERVATIONS OF Mrk 421. Astrophysical Journal, 2017, 834, 2.	4.5	29
104	Relativistic rotating vector model for X-ray millisecond pulsars. Astronomy and Astrophysics, 2020, 641, A166.	5.1	29
105	Bayesian parameter constraints for neutron star masses and radii using X-ray timing observations of accretion-powered millisecond pulsars. Astronomy and Astrophysics, 2018, 618, A161.	5.1	28
106	A Complexityâ€‰Brightness Correlation in Gammaâ€‰Ray Bursts. Astrophysical Journal, 1999, 510, 312-324.	4.5	28
107	A photon breeding mechanism for the high-energy emission of relativistic jets. Monthly Notices of the Royal Astronomical Society, 2006, 372, 1217-1226.	4.4	27
108	On the spreading layer emission in luminous accreting neutron stars. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2355-2361.	4.4	27

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109	Compton scattering S matrix and cross section in strong magnetic field. Physical Review D, 2016, 93, .	4.7	27
110	THE MYSTERY OF SPECTRAL BREAKS: LYMAN CONTINUUM ABSORPTION BY PHOTON-PHOTON PAIR PRODUCTION IN THE FERMI GeV SPECTRA OF BRIGHT BLAZARS. Astrophysical Journal, 2014, 794, 8.	4.5	26
111	Measuring the basic parameters of neutron stars using model atmospheres. European Physical Journal A, 2016, 52, 1.	2.5	26
112	Investigating the peculiar emission from the new VHE gamma-ray source H1722+119. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3271-3281.	4.4	26
113	Gamma-ray opacity of the anisotropic stratified broad-line regions in blazars. Monthly Notices of the Royal Astronomical Society, 2017, 464, 152-169.	4.4	26
114	MAGIC detection of short-term variability of the high-peaked BL Lac object 1ES 0806+524. Monthly Notices of the Royal Astronomical Society, 2015, 451, 739-750.	4.4	25
115	Simultaneous INTEGRAL and RXTE observations of the accreting millisecond pulsar HETE 1900.1. Astronomy and Astrophysics, 2007, 464, 1069-1074.	5.1	24
116	Joint spectral-timing modelling of the hard lags in GX 339 ⁴ : constraints on reflection models. Monthly Notices of the Royal Astronomical Society, 2012, 422, 2407-2416.	4.4	24
117	Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube. Journal of Instrumentation, 2016, 11, P11009-P11009.	1.2	24
118	X-ray burst-induced spectral variability in 4U 1728-34. Astronomy and Astrophysics, 2017, 599, A89.	5.1	24
119	First INTEGRAL observations of GRS 1915+105. Astronomy and Astrophysics, 2003, 411, L415-L419.	5.1	23
120	Evolution of the spectral curvature in the ultraluminous X-ray source Holmberg II X-1. Monthly Notices of the Royal Astronomical Society, 2012, 422, 990-996.	4.4	23
121	NuSTAR discovery of a cyclotron absorption line in the transient X-ray pulsar 2S 1553-542. Monthly Notices of the Royal Astronomical Society, 2016, 457, 258-266.	4.4	23
122	ON THE NATURE OF PULSE PROFILE VARIATIONS AND TIMING NOISE IN ACCRETING MILLISECOND PULSARS. Astrophysical Journal, 2009, 706, L129-L132.	4.5	22
123	Spectral and timing properties of the accreting X-ray millisecond pulsar IGR 17498-2921. Astronomy and Astrophysics, 2012, 545, A26.	5.1	22
124	Probing the very high energy γ -ray spectral curvature in the blazar PG 1553+113 with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2015, 450, 4399-4410.	4.4	22
125	The 2015 outburst of the accretion-powered pulsar IGR J00291+5934: INTEGRAL and Swift observations. Astronomy and Astrophysics, 2017, 599, A88.	5.1	22
126	First multi-wavelength campaign on the gamma-ray-loud active galaxy IC 310. Astronomy and Astrophysics, 2017, 603, A25.	5.1	22

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127	High-precision optical polarimetry of the accreting black hole V404 Cyg during the 2015 June outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 4362-4373.	4.4	22
128	Very high-energy γ -ray observations of novae and dwarf novae with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2015, 582, A67.	5.1	21
129	Super-orbital variability of LS I +61 $^{\circ}$ 303 at TeV energies. <i>Astronomy and Astrophysics</i> , 2016, 591, A76.	5.1	21
130	Detection of burning ashes from thermonuclear X-ray bursts. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 464, L6-L10.	3.3	21
131	Accretion heated atmospheres of X-ray bursting neutron stars. <i>Astronomy and Astrophysics</i> , 2018, 619, A114.	5.1	21
132	Evolving optical polarisation of the black hole X-ray binary MAXI J1820+070. <i>Astronomy and Astrophysics</i> , 2019, 623, A75.	5.1	21
133	Varying disc-magnetosphere coupling as the origin of pulse profile variability in SAX J1808.4 $^{\circ}$ 3658. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 1454-1465.	4.4	20
134	Colours of black holes: infrared flares from the hot accretion disc in XTE J1550 $^{\circ}$ 564. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 3987-3998.	4.4	20
135	Search for VHE gamma-ray emission from Geminga pulsar and nebula with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2016, 591, A138.	5.1	20
136	Expanding hot flow in the black hole binary SWIFT J1753.5 $^{\circ}$ 0127: evidence from optical timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 48-59.	4.4	20
137	Evidence for the radiation-pressure dominated accretion disk in bursting pulsar GRO J1744 $^{\circ}$ 28 using timing analysis. <i>Astronomy and Astrophysics</i> , 2019, 626, A106.	5.1	20
138	Accurate analytic formula for light bending in Schwarzschild metric. <i>Astronomy and Astrophysics</i> , 2020, 640, A24.	5.1	20
139	Discovery of correlated optical/X-ray quasi-periodic oscillations in black hole binary SWIFT J1753.5 $^{\circ}$ 0127. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 2855-2862.	4.4	19
140	Black hole spin $^{\circ}$ orbit misalignment in the x-ray binary MAXI J1820+070. <i>Science</i> , 2022, 375, 874-876.	12.6	19
141	Hybrid Comptonization and Electron $^{\circ}$ Positron Pair Production in the Black-hole X-Ray Binary MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2021, 914, L5.	8.3	18
142	Observational appearance of rapidly rotating neutron stars. <i>Astronomy and Astrophysics</i> , 2020, 639, A33.	5.1	18
143	Observations of Sagittarius A* during the pericenter passage of the G2 object with MAGIC. <i>Astronomy and Astrophysics</i> , 2017, 601, A33.	5.1	17
144	The transitional millisecond pulsar IGR J18245-2452 during its 2013 outburst at X-rays and soft gamma-rays. <i>Astronomy and Astrophysics</i> , 2017, 603, A16.	5.1	17

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145	<i>i>NuSTAR</i> observations of wind-fed X-ray pulsar GX 301â€“2 during unusual spin-up event. <i>Astronomy and Astrophysics</i>, 2019, 629, A101.</i>	5.1	17
146	XIPE: the x-ray imaging polarimetry explorer. , 2016, , .		16
147	Insights into the emission of the blazar 1ES 1011+496 through unprecedented broadband observations during 2011 and 2012. <i>Astronomy and Astrophysics</i> , 2016, 591, A10.	5.1	15
148	MAGIC detection of very high energy $\hat{3}$ -ray emission from the low-luminosity blazar 1ESâ1741+196. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 1534-1541.	4.4	15
149	Oxygen-rich disk in the V778 Cygni system resolved. <i>Astronomy and Astrophysics</i> , 2006, 452, 561-565.	5.1	15
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