

Thomas Dauser

List of Publications by Year in descending order

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113
papers

5,782
citations

87888

38
h-index

82547

72
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113
all docs

113
docs citations

113
times ranked

2951
citing authors

#	ARTICLE	IF	CITATIONS
1	IMPROVED REFLECTION MODELS OF BLACK HOLE ACCRETION DISKS: TREATING THE ANGULAR DISTRIBUTION OF X-RAYS. <i>Astrophysical Journal</i> , 2014, 782, 76.	4.5	501
2	The eROSITA X-ray telescope on SRG. <i>Astronomy and Astrophysics</i> , 2021, 647, A1.	5.1	426
3	X-RAY REFLECTED SPECTRA FROM ACCRETION DISK MODELS. III. A COMPLETE GRID OF IONIZED REFLECTION CALCULATIONS. <i>Astrophysical Journal</i> , 2013, 768, 146.	4.5	370
4	Irradiation of an accretion disc by a jet: general properties and implications for spin measurements of black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1694-1708.	4.4	286
5	Broad emission lines for a negatively spinning black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 1534-1540.	4.4	274
6	The role of the reflection fraction in constraining black hole spin. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 444, L100-L104.	3.3	232
7	The enhanced X-ray Timing and Polarimetry mission "eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	178
8	X-RAY REFLECTION SPECTROSCOPY OF THE BLACK HOLE GX 339-4: EXPLORING THE HARD STATE WITH UNPRECEDENTED SENSITIVITY. <i>Astrophysical Journal</i> , 2015, 813, 84.	4.5	131
9	The effects of high density on the X-ray spectrum reflected from accretion discs around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 751-760.	4.4	129
10	Normalizing a relativistic model of X-ray reflection. <i>Astronomy and Astrophysics</i> , 2016, 590, A76.	5.1	127
11	The ATHENA x-ray integral field unit (X-IFU). , 2018, , .		120
12	The NuSTAR spectrum of Mrk 335: extreme relativistic effects within two gravitational radii of the event horizon?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 1723-1732.	4.4	110
13	The response of relativistic outflowing gas to the inner accretion disk of a black hole. <i>Nature</i> , 2017, 543, 83-86.	27.8	110
14	Testing the Kerr Black Hole Hypothesis Using X-Ray Reflection Spectroscopy. <i>Astrophysical Journal</i> , 2017, 842, 76.	4.5	107
15	The Athena X-ray Integral Field Unit (X-IFU). <i>Proceedings of SPIE</i> , 2016, , .	0.8	88
16	Spectral analysis of 1Hâ€f0707âˆ’495 with XMM-Newton. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 1914-1921.	4.4	83
17	On the determination of the spin and disc truncation of accreting black holes using X-ray reflection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 2307-2313.	4.4	79
18	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

#	ARTICLE	IF	CITATIONS
19	The 1.5 $\times 10^6$ Ms observing campaign on IRAS 13224+3809 I. X-ray spectral analysis. Monthly Notices of the Royal Astronomical Society, 2018, 477, 3711-3726.	4.4	71
20	High Density Reflection Spectroscopy II. The density of the inner black hole accretion disc in AGN. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3436-3455.	4.4	71
21	Testing General Relativity with the Reflection Spectrum of the Supermassive Black Hole in 1H0707-495. Physical Review Letters, 2018, 120, 051101.	7.8	68
22	A public relativistic transfer function model for X-ray reverberation mapping of accreting black holes. Monthly Notices of the Royal Astronomical Society, 2019, 488, 324-347.	4.4	66
23	Towards Precision Measurements of Accreting Black Holes Using X-Ray Reflection Spectroscopy. Space Science Reviews, 2021, 217, 1.	8.1	59
24	SIXTE: a generic X-ray instrument simulation toolkit. Astronomy and Astrophysics, 2019, 630, A66.	5.1	58
25	Implications of the Warm Corona and Relativistic Reflection Models for the Soft Excess in Mrk 509. Astrophysical Journal, 2019, 871, 88.	4.5	58
26	A deep X-ray view of the bare AGN Ark 120. Astronomy and Astrophysics, 2018, 609, A42.	5.1	57
27	Disk, Corona, Jet Connection in the Intermediate State of MAXI J1820+070 Revealed by NICER Spectral-timing Analysis. Astrophysical Journal Letters, 2021, 910, L3.	8.3	57
28	Toward Precision Tests of General Relativity with Black Hole X-Ray Reflection Spectroscopy. Astrophysical Journal, 2019, 875, 56.	4.5	56
29	<i>NUSTAR AND SUZAKU X-RAY SPECTROSCOPY OF NGC 4151: EVIDENCE FOR REFLECTION FROM THE INNER ACCRETION DISK.</i> Astrophysical Journal, 2015, 806, 149.	4.5	54
30	A selection effect boosting the contribution from rapidly spinning black holes to the cosmic X-ray background. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2012-2023.	4.4	54
31	Public Release of RELXILL_NK: A Relativistic Reflection Model for Testing Einstein's Gravity. Astrophysical Journal, 2019, 878, 91.	4.5	54
32	Detection of Reflection Features in the Neutron Star Low-mass X-Ray Binary Serpens X-1 with NICER. Astrophysical Journal Letters, 2018, 858, L5.	8.3	51
33	Self-consistent Black Hole Accretion Spectral Models and the Forgotten Role of Coronal Comptonization of Reflection Emission. Astrophysical Journal, 2017, 836, 119.	4.5	48
34	ON ESTIMATING THE HIGH-ENERGY CUTOFF IN THE X-RAY SPECTRA OF BLACK HOLES VIA REFLECTION SPECTROSCOPY. Astrophysical Journal Letters, 2015, 808, L37.	8.3	43
35	The broad iron $K\alpha$ line of Cygnus X-1 as seen by XMM-Newton in the EPIC-pn modified timing mode. Astronomy and Astrophysics, 2011, 533, L3.	5.1	42
36	Lense-Thirring precession in ULXs as a possible means to constrain the neutron star equation of state. Monthly Notices of the Royal Astronomical Society, 2018, 475, 154-166.	4.4	40

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37	Constraints on the Spacetime Metric around Seven AGNs Using X-Ray Reflection Spectroscopy. <i>Astrophysical Journal</i> , 2019, 874, 135.	4.5	40
38	Testing the Kerr Black Hole Hypothesis Using X-Ray Reflection Spectroscopy and a Thin Disk Model with Finite Thickness. <i>Astrophysical Journal</i> , 2020, 899, 80.	4.5	40
39	NuSTAR AND XMM-NEWTON OBSERVATIONS OF THE HARD X-RAY SPECTRUM OF CENTAURUS A. <i>Astrophysical Journal</i> , 2016, 819, 150.	4.5	39
40	A Study of the Strong Gravity Region of the Black Hole in GS 1354-645. <i>Astrophysical Journal</i> , 2018, 865, 134.	4.5	38
41	Reflection Spectroscopy of the Black Hole Binary XTE J1752-223 in Its Long-stable Hard State. <i>Astrophysical Journal</i> , 2018, 864, 25.	4.5	36
42	NuSTAR Observations of the Accreting Atolls GX 3+1, 4U 1702-429, 4U 0614+091, and 4U 1746-371. <i>Astrophysical Journal</i> , 2019, 873, 99.	4.5	35
43	The 2017 Failed Outburst of GX 339-4: Relativistic X-Ray Reflection near the Black Hole Revealed by NuSTAR and Swift Spectroscopy. <i>Astrophysical Journal</i> , 2019, 885, 48.	4.5	33
44	Synthetic simulations of the extragalactic sky seen by eROSITA. <i>Astronomy and Astrophysics</i> , 2018, 617, A92.	5.1	31
45	The unusual multiwavelength properties of the gamma-ray source PMN J1603-4904. <i>Astronomy and Astrophysics</i> , 2014, 562, A4.	5.1	29
46	Cyclotron resonant scattering feature simulations. <i>Astronomy and Astrophysics</i> , 2017, 601, A99.	5.1	29
47	X-ray spectroscopy of MXB 1728-34 with XMM-Newton. <i>Astronomy and Astrophysics</i> , 2011, 530, A99.	5.1	28
48	Measuring color differences in automotive samples with lightness flop: A test of the AUDI2000 color-difference formula. <i>Optics Express</i> , 2014, 22, 3458.	3.4	28
49	Revealing the broad iron $K\alpha$ line in Cygnus X-1 through simultaneous XMM-Newton, RXTE, and INTEGRAL observations. <i>Astronomy and Astrophysics</i> , 2016, 589, A14.	5.1	28
50	Modelling the light curves of ultraluminous X-ray sources as precession. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2236-2241.	4.4	28
51	Athena X-IFU synthetic observations of galaxy clusters to probe the chemical enrichment of the Universe. <i>Astronomy and Astrophysics</i> , 2018, 620, A173.	5.1	28
52	The NICER Reverberation Machine: A Systematic Study of Time Lags in Black Hole X-Ray Binaries. <i>Astrophysical Journal</i> , 2022, 930, 18.	4.5	28
53	Cyclotron resonant scattering feature simulations. <i>Astronomy and Astrophysics</i> , 2017, 597, A3.	5.1	27
54	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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55	Evidence for Returning Disk Radiation in the Black Hole X-Ray Binary XTE J1550â€“564. <i>Astrophysical Journal</i> , 2020, 892, 47.	4.5	27
56	GRO J1744âˆ“28: an intermediate B-field pulsar in a low-mass X-ray binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 4288-4303.	4.4	26
57	A <i>Suzaku</i> , <i>NuSTAR</i> , and <i>XMM-Newton</i> view on variable absorption and relativistic reflection in NGC 4151. <i>Astronomy and Astrophysics</i> , 2017, 603, A50.	5.1	26
58	Formation of phase lags at the cyclotron energies in the pulse profiles of magnetized, accreting neutron stars. <i>Astronomy and Astrophysics</i> , 2014, 564, L8.	5.1	25
59	Mock catalogs for the extragalactic X-ray sky: Simulating AGN surveys with ATHENA and with the AXIS probe. <i>Astronomy and Astrophysics</i> , 2020, 642, A184.	5.1	25
60	About the Kerr Nature of the Stellar-mass Black Hole in GRS 1915+105. <i>Astrophysical Journal</i> , 2019, 875, 41.	4.5	24
61	Reflection Modeling of the Black Hole Binary 4U 1630â€“47: The Disk Density and Returning Radiation. <i>Astrophysical Journal</i> , 2021, 909, 146.	4.5	24
62	A low-flux state in IRAS 00521âˆ“7054 seen with <i>NuSTAR</i> and <i>XMM-Newton</i> : relativistic reflection and an ultrafast outflow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 2544-2555.	4.4	23
63	Extreme ultra-soft X-ray variability in an eROSITA observation of the narrow-line Seyfert 1 galaxy 1H 0707âˆ“495. <i>Astronomy and Astrophysics</i> , 2021, 647, A6.	5.1	23
64	<i>Chandra</i> X-ray spectroscopy of the focused wind in the Cygnus X-1 system. <i>Astronomy and Astrophysics</i> , 2019, 626, A64.	5.1	21
65	X-ray detection of a nova in the fireball phase. <i>Nature</i> , 2022, 605, 248-250.	27.8	21
66	Testing the Kerr hypothesis using x-ray reflection spectroscopy with <i>NuSTAR</i> data of Cygnus X-1 in the soft state. <i>Physical Review D</i> , 2019, 99, .	4.7	20
67	Returning radiation in strong gravity around black holes: reverberation from the accretion disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3302-3319.	4.4	20
68	<i>NuSTAR</i> reveals the hidden nature of SS433. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1045-1058.	4.4	20
69	Is there a UV/X-ray connection in IRAS 13224âˆ“3809?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2306-2313.	4.4	19
70	Redshifted Fe K \pm line from the unusual Γ^3 -ray source PMN J1603â€“4904. <i>Astronomy and Astrophysics</i> , 2015, 574, A117.	5.1	19
71	Relativistic X-Ray Reflection Models for Accreting Neutron Stars. <i>Astrophysical Journal</i> , 2022, 926, 13.	4.5	19
72	The effect of returning radiation on relativistic reflection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 3965-3983.	4.4	19

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73	Modelling correlated variability in accreting black holes: the effect of high density and variable ionization on reverberation lags. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 55-73.	4.4	18
74	Establishing the X-ray source detection strategy for eROSITA with simulations. <i>Astronomy and Astrophysics</i> , 2022, 661, A27.	5.1	18
75	A variable-density absorption event in NGC 3227 mapped with <i>Suzaku</i> and <i>Swift</i> . <i>Astronomy and Astrophysics</i> , 2015, 584, A82.	5.1	17
76	The TANAMI Multiwavelength Program: Dynamic spectral energy distributions of southern blazars. <i>Astronomy and Astrophysics</i> , 2016, 591, A130.	5.1	16
77	Relativistic reflection: Review and recent developments in modeling. <i>Astronomische Nachrichten</i> , 2016, 337, 362-367.	1.2	16
78	Testing general relativity with x-ray reflection spectroscopy: The Konoplya-Rezzolla-Zhidenko parametrization. <i>Physical Review D</i> , 2020, 102, .	4.7	16
79	Optical-NIR spectroscopy of the puzzling $\hat{1}^3$ -ray source 3FGL 1603.9-4903/PMN J1603-4904 with X-Shooter. <i>Astronomy and Astrophysics</i> , 2016, 586, L2.	5.1	15
80	Performance assessment of different pulse reconstruction algorithms for the ATHENA X-ray Integral Field Unit. <i>Proceedings of SPIE</i> , 2016, , .	0.8	14
81	A full characterization of the supermassive black hole in IRAS 09149-6206. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1480-1498.	4.4	14
82	The high energy Universe at ultra-high resolution: the power and promise of X-ray interferometry. <i>Experimental Astronomy</i> , 2021, 51, 1081-1107.	3.7	14
83	Conflicting Disk Inclination Estimates for the Black Hole X-Ray Binary XTE J1550-564. <i>Astrophysical Journal</i> , 2019, 882, 179.	4.5	14
84	GRS 1739-278 OBSERVED AT VERY LOW LUMINOSITY WITH XMM-NEWTON AND NuSTAR. <i>Astrophysical Journal</i> , 2016, 832, 115.	4.5	13
85	The Performance of the Athena X-ray Integral Field Unit at Very High Count Rates. <i>Journal of Low Temperature Physics</i> , 2018, 193, 940-948.	1.4	13
86	Constraining the origin and models of chemical enrichment in galaxy clusters using the <i>Athena</i> X-IFU. <i>Astronomy and Astrophysics</i> , 2020, 642, A90.	5.1	13
87	TESSIM: a simulator for the Athena-X-IFU. <i>Proceedings of SPIE</i> , 2016, , .	0.8	12
88	The next-generation X-ray galaxy survey with <i>eROSITA</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1651-1667.	4.4	11
89	A Variable Ionized Disk Wind in the Black Hole Candidate EXO 1846-031. <i>Astrophysical Journal</i> , 2021, 906, 11.	4.5	11
90	The X-ray disc/wind degeneracy in AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 551-572.	4.4	11

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91	XMM-Newton observations of the narrow-line Seyfert 1 galaxy IRAS 13224-3809: X-ray spectral analysis II. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1107-1121.	4.4	10
92	Testing the Kerr Metric with X-Ray Reflection Spectroscopy of Mrk 335 Suzaku Data. Astrophysical Journal, 2019, 879, 80.	4.5	9
93	GPU Supported Simulation of Transition-Edge Sensor Arrays. Journal of Low Temperature Physics, 2020, 200, 277-285.	1.4	9
94	Quantifying the Effect of Cosmic Ray Showers on the X-IFU Energy Resolution. Journal of Low Temperature Physics, 2020, 199, 240-249.	1.4	9
95	Time-Domain Modeling of TES Microcalorimeters Under AC Bias. Journal of Low Temperature Physics, 2020, 199, 569-576.	1.4	8
96	Testing the Kerr metric using X-ray reflection spectroscopy: spectral analysis of GX 339-4. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 026-026.	5.4	8
97	THE GOODNESS OF SIMULTANEOUS FITS IN ISIS. Acta Polytechnica, 2016, 56, 41.	0.6	8
98	Detection capabilities of the Athena X-IFU for the warm-hot intergalactic medium using gamma-ray burst X-ray afterglows. Astronomy and Astrophysics, 2020, 642, A24.	5.1	7
99	High-density disc reflection spectroscopy of low-mass active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4361-4379.	4.4	7
100	New evaluation concept of the Athena WFI camera system by emulation of X-ray DEPFET detectors. Journal of Instrumentation, 2016, 11, C01028-C01028.	1.2	6
101	Accurate Treatment of Comptonization in X-Ray Illuminated Accretion Disks. Astrophysical Journal, 2020, 897, 67.	4.5	6
102	The impact of precession on the observed population of ULXs. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6
103	Crosstalk in an FDM Laboratory Setup and the Athena X-IFU End-to-End Simulator. Journal of Low Temperature Physics, 2018, 193, 533-538.	1.4	5
104	Extreme relativistic reflection in the active galaxy ESO 033-G002. Monthly Notices of the Royal Astronomical Society, 2021, 506, 1557-1572.	4.4	5
105	Investigating source confusion in PMN J1603-4904. Astronomy and Astrophysics, 2018, 610, L8.	5.1	4
106	The Athena X-IFU Instrument Simulator xifusim. Journal of Low Temperature Physics, 2022, 209, 988-997.	1.4	4
107	The impact of crosstalk in the X-IFU instrument on Athena science cases. Proceedings of SPIE, 2016, , .	0.8	3
108	On measuring the Hubble constant with X-ray reverberation mapping of active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2021, 509, 619-633.	4.4	3

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109	The performance of the ATHENA X-ray Integral Field Unit. , 2018, , .		3
110	A <i>NuSTAR</i> and <i>Swift</i> view of the hard state of MAXI J1813-095. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1952-1960.	4.4	2
111	Measuring color differences in gonioapparent materials used in the automotive industry. Journal of Physics: Conference Series, 2015, 605, 012006.	0.4	1
112	<i>NuSTAR</i> observation of GRO J1744-28 at low mass accretion rate. Astronomy and Astrophysics, 2020, 643, A128.	5.1	1
113	Simulation of Radiative Transfer Within X-ray Microcalorimeter Absorbers. Journal of Low Temperature Physics, 0, , .	1.4	0