

James F Steiner

List of Publications by Year in descending order

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70
papers

4,077
citations

101543

36
h-index

114465

63
g-index

71
all docs

71
docs citations

71
times ranked

2657
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Hole Spin via Continuum Fitting and the Role of Spin in Powering Transient Jets. <i>Space Science Reviews</i> , 2014, 183, 295-322.	8.1	234
2	THE EXTREME SPIN OF THE BLACK HOLE IN CYGNUS X-1. <i>Astrophysical Journal</i> , 2011, 742, 85.	4.5	224
3	A Simple Comptonization Model. <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 1279-1290.	3.1	197
4	THE CONSTANT INNER-DISK RADIUS OF LMC X-3: A BASIS FOR MEASURING BLACK HOLE SPIN. <i>Astrophysical Journal Letters</i> , 2010, 718, L117-L121.	8.3	187
5	An Embedded X-Ray Source Shines through the Aspherical AT2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. <i>Astrophysical Journal</i> , 2019, 872, 18.	4.5	160
6	The spin of the black hole microquasar XTE J1550-564 via the continuum-fitting and Fe-line methods. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 941-958.	4.4	145
7	AN IMPROVED DYNAMICAL MODEL FOR THE MICROQUASAR XTE J1550-564. <i>Astrophysical Journal</i> , 2011, 730, 75.	4.5	133
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	CONFIRMATION VIA THE CONTINUUM-FITTING METHOD THAT THE SPIN OF THE BLACK HOLE IN CYGNUS X-1 IS EXTREME. <i>Astrophysical Journal</i> , 2014, 790, 29.	4.5	129
10	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
11	A DETERMINATION OF THE SPIN OF THE BLACK HOLE PRIMARY IN LMC X-1. <i>Astrophysical Journal</i> , 2009, 701, 1076-1090.	4.5	123
12	THE DISTANCE, INCLINATION, AND SPIN OF THE BLACK HOLE MICROQUASAR H1743-322. <i>Astrophysical Journal Letters</i> , 2012, 745, L7.	8.3	116
13	Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. I. The Millisecond Pulsar X-Ray Data Set. <i>Astrophysical Journal Letters</i> , 2019, 887, L25.	8.3	110
14	Measuring black hole spin by the continuum-fitting method: effect of deviations from the Novikov-Thorne disc model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 1183-1194.	4.4	106
15	An Empirical Background Model for the NICER X-Ray Timing Instrument. <i>Astronomical Journal</i> , 2022, 163, 130.	4.7	103
16	JET POWER AND BLACK HOLE SPIN: TESTING AN EMPIRICAL RELATIONSHIP AND USING IT TO PREDICT THE SPINS OF SIX BLACK HOLES. <i>Astrophysical Journal</i> , 2013, 762, 104.	4.5	98
17	The Destruction and Recreation of the X-Ray Corona in a Changing-look Active Galactic Nucleus. <i>Astrophysical Journal Letters</i> , 2020, 898, L1.	8.3	86
18	Testing the no-hair theorem with the continuum-fitting and the iron line methods: a short review. <i>Classical and Quantum Gravity</i> , 2016, 33, 064001.	4.0	83

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19	THE SPIN OF THE BLACK HOLE IN THE SOFT X-RAY TRANSIENT A0620-00. <i>Astrophysical Journal Letters</i> , 2010, 718, L122-L126.	8.3	77
20	MEASURING BLACK HOLE SPIN VIA THE X-RAY CONTINUUM-FITTING METHOD: BEYOND THE THERMAL DOMINANT STATE. <i>Astrophysical Journal</i> , 2009, 701, L83-L86.	4.5	74
21	MODELING THE JET KINEMATICS OF THE BLACK HOLE MICROQUASAR XTE J1550-564: A CONSTRAINT ON SPIN-ORBIT ALIGNMENT. <i>Astrophysical Journal</i> , 2012, 745, 136.	4.5	65
22	A Potential Cyclotron Resonant Scattering Feature in the Ultraluminous X-Ray Source Pulsar NGC 300 ULX1 Seen by NuSTAR and XMM-Newton. <i>Astrophysical Journal Letters</i> , 2018, 857, L3.	8.3	64
23	High-density reflection spectroscopy: I. A case study of GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1972-1982.	4.4	61
24	Towards Precision Measurements of Accreting Black Holes Using X-Ray Reflection Spectroscopy. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	59
25	Implications of the Warm Corona and Relativistic Reflection Models for the Soft Excess in Mrk 509. <i>Astrophysical Journal</i> , 2019, 871, 88.	4.5	58
26	Disk, Corona, Jet Connection in the Intermediate State of MAXI J1820+070 Revealed by NICER Spectral-timing Analysis. <i>Astrophysical Journal Letters</i> , 2021, 910, L3.	8.3	57
27	Using iron line reverberation and spectroscopy to distinguish Kerr and non-Kerr black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 025-025.	5.4	55
28	The Evolution of GX 339-4 in the Low-hard State as Seen by NuSTAR and Swift. <i>Astrophysical Journal</i> , 2018, 855, 61.	4.5	52
29	THE LOW-SPIN BLACK HOLE IN LMC X-3. <i>Astrophysical Journal Letters</i> , 2014, 793, L29.	8.3	51
30	A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. <i>Science</i> , 2019, 363, 531-534.	12.6	51
31	A Rapid Change in X-Ray Variability and a Jet Ejection in the Black Hole Transient MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2020, 891, L29.	8.3	50
32	Self-consistent Black Hole Accretion Spectral Models and the Forgotten Role of Coronal Comptonization of Reflection Emission. <i>Astrophysical Journal</i> , 2017, 836, 119.	4.5	48
33	A broad iron line in LMC X-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 2552-2561.	4.4	46
34	ON ESTIMATING THE HIGH-ENERGY CUTOFF IN THE X-RAY SPECTRA OF BLACK HOLES VIA REFLECTION SPECTROSCOPY. <i>Astrophysical Journal Letters</i> , 2015, 808, L37.	8.3	43
35	TESTING THE KERR NATURE OF BLACK HOLE CANDIDATES USING IRON LINE SPECTRA IN THE CPR FRAMEWORK. <i>Astrophysical Journal</i> , 2015, 811, 130.	4.5	41
36	AN EMPIRICAL METHOD FOR IMPROVING THE QUALITY OF RXTE PCA SPECTRA. <i>Astrophysical Journal</i> , 2014, 794, 73.	4.5	36

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37	Reflection Spectroscopy of the Black Hole Binary XTE J1752âˆ“223 in Its Long-stable Hard State. <i>Astrophysical Journal</i> , 2018, 864, 25.	4.5	36
38	A NICER Discovery of a Low-frequency Quasi-periodic Oscillation in the Soft-intermediate State of MAXI J1535âˆ“571. <i>Astrophysical Journal Letters</i> , 2018, 865, L15.	8.3	36
39	The 2017 Failed Outburst of GX 339âˆ“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
40	The 450 Day X-Ray Monitoring of the Changing-look AGN 1ES 1927+654. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 7.	7.7	32
41	Re-estimating the Spin Parameter of the Black Hole in Cygnus X-1. <i>Astrophysical Journal</i> , 2021, 908, 117.	4.5	29
42	The NICER â€œReverberation Machineâ€ A Systematic Study of Time Lags in Black Hole X-Ray Binaries. <i>Astrophysical Journal</i> , 2022, 930, 18.	4.5	28
43	Evidence for Returning Disk Radiation in the Black Hole X-Ray Binary XTE J1550âˆ“564. <i>Astrophysical Journal</i> , 2020, 892, 47.	4.5	27
44	Reflection Modeling of the Black Hole Binary 4U 1630âˆ“47: The Disk Density and Returning Radiation. <i>Astrophysical Journal</i> , 2021, 909, 146.	4.5	24
45	Relativistic Reflection and Reverberation in GX 339âˆ“4 with NICER and NuSTAR. <i>Astrophysical Journal</i> , 2020, 899, 44.	4.5	24
46	A NICER View of a Highly Absorbed Flare in GRS 1915+105. <i>Astrophysical Journal</i> , 2020, 902, 152.	4.5	24
47	Estimating the Black Hole Spin for the X-Ray Binary MAXI J1820+070. <i>Astrophysical Journal</i> , 2021, 916, 108.	4.5	23
48	Evidence for a compact object in the aftermath of the extragalactic transient AT2018cow. <i>Nature Astronomy</i> , 2022, 6, 249-258.	10.1	23
49	STRONGER REFLECTION FROM BLACK HOLE ACCRETION DISKS IN SOFT X-RAY STATES. <i>Astrophysical Journal Letters</i> , 2016, 829, L22.	8.3	22
50	Evolution of the Accretion Diskâ€Corona during the Bright Hard-to-soft State Transition: A Reflection Spectroscopic Study with GX 339âˆ“4. <i>Astrophysical Journal</i> , 2020, 890, 53.	4.5	22
51	THE SPIN OF THE BLACK HOLE IN THE X-RAY BINARY NOVA MUSCAE 1991. <i>Astrophysical Journal</i> , 2016, 825, 45.	4.5	20
52	Testing the Kerr nature of black hole candidates using iron line reverberation mapping in the Cardoso-Pani-Rico framework. <i>Physical Review D</i> , 2016, 93, .	4.7	19
53	Testing the Performance and Accuracy of the relxill Model for the Relativistic X-Ray Reflection from Accretion Disks. <i>Astrophysical Journal</i> , 2017, 851, 57.	4.5	19
54	ON THE SPIN OF THE BLACK HOLE IN IC 10 Xâˆ“1. <i>Astrophysical Journal</i> , 2016, 817, 154.	4.5	17

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55	The spin measurement of the black hole in 4U 1543-47 constrained with the X-ray reflected emission. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4409-4417.	4.4	17
56	Absence of Reflection Features in NuSTAR Spectra of the Luminous Neutron Star X-Ray Binary GX 5â€“1. Astrophysical Journal, 2018, 853, 157.	4.5	14
57	Conflicting Disk Inclination Estimates for the Black Hole X-Ray Binary XTE J1550âˆ“564. Astrophysical Journal, 2019, 882, 179.	4.5	14
58	Analysis of the reflection spectra of MAXI J1535-571 in the hard and intermediate states. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1422-1432.	4.4	12
59	AN EMPIRICAL METHOD FOR IMPROVING THE QUALITY OF RXTE HEXTE SPECTRA. Astrophysical Journal, 2016, 819, 76.	4.5	11
60	A Persistent Disk Wind in GRS 1915+105 with NICER. Astrophysical Journal Letters, 2018, 860, L19.	8.3	11
61	Large optical modulations during 2018 outburst of MAXI J1820âˆ“070 reveal evolution of warped accretion disc through X-ray state change. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1062-1074.	4.4	11
62	X-RAY SPECTRAL ANALYSIS OF THE STEADY STATES OF GRS1915+105. Astrophysical Journal, 2016, 822, 60.	4.5	9
63	Testing the Kerr metric using X-ray reflection spectroscopy: spectral analysis of GX 339â€“4. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 026-026.	5.4	8
64	A Comprehensive X-Ray Report on AT2019wey. Astrophysical Journal, 2021, 920, 121.	4.5	8
65	Synchronous X-ray/optical quasi-periodic oscillations from the black hole LMXB MAXI J1820+070. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 513, L35-L39.	3.3	6
66	Estimating the Spin of the Black Hole Candidate MAXI J1659-152 with the X-Ray Continuum-fitting Method. Astrophysical Journal, 2022, 925, 142.	4.5	5
67	Spectral analysis of new black hole candidate AT2019wey observed by NuSTAR. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	4
68	The awakening beast in the Seyfert 1 Galaxy KUG 1141+371 â€“ I. Monthly Notices of the Royal Astronomical Society, 2020, 501, 916-932.	4.4	3
69	A <i>NuSTAR</i> and <i>Swift</i> view of the hard state of MAXI J1813âˆ“095. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1952-1960.	4.4	2
70	The First High-contrast Images of X-Ray Binaries: Detection of Candidate Companions in the Î³ Cas Analog RX J1744.7-2713. Astronomical Journal, 2022, 164, 7.	4.7	2