

Julian H Krolik

List of Publications by Year in descending order

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104
papers

8,282
citations

44069

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45317

90
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104
all docs

104
docs citations

104
times ranked

4323
citing authors

#	ARTICLE	IF	CITATIONS
1	What powers the radio emission in TDE AT2019dsg: A long-lived jet or the disruption itself?. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5085-5092.	4.4	12
2	Electromagnetic Signatures from Supermassive Binary Black Holes Approaching Merger. Astrophysical Journal, 2022, 928, 137.	4.5	17
3	Minidisk Accretion onto Spinning Black Hole Binaries: Quasi-periodicities and Outflows. Astrophysical Journal, 2022, 928, 187.	4.5	15
4	Nonlinear Evolution of the Magnetorotational Instability in Eccentric Disks. Astrophysical Journal, 2022, 933, 81.	4.5	3
5	Circumbinary Disk Accretion into Spinning Black Hole Binaries. Astrophysical Journal, 2021, 913, 16.	4.5	16
6	High-energy Emission from Tidal Disruption Events in Active Galactic Nuclei. Astrophysical Journal, 2021, 914, 107.	4.5	11
7	HARM3D+NUC: A New Method for Simulating the Post-merger Phase of Binary Neutron Star Mergers with GRMHD, Tabulated EOS, and Neutrino Leakage. Astrophysical Journal, 2021, 919, 95.	4.5	17
8	The Impact of Shocks on the Vertical Structure of Eccentric Disks. Astrophysical Journal, 2021, 920, 130.	4.5	4
9	Mass-ratio and Magnetic Flux Dependence of Modulated Accretion from Circumbinary Disks. Astrophysical Journal, 2021, 922, 175.	4.5	19
10	Spin and Accretion Rate Dependence of Black Hole X-Ray Spectra. Astrophysical Journal, 2021, 922, 270.	4.5	11
11	Radiative Emission Mechanisms. Space Science Reviews, 2020, 216, 1.	8.1	25
12	Future Simulations of Tidal Disruption Events. Space Science Reviews, 2020, 216, 1.	8.1	1
13	Tidal Disruptions of Main-sequence Stars. IV. Relativistic Effects and Dependence on Black Hole Mass. Astrophysical Journal, 2020, 904, 101.	4.5	19
14	Tidal Disruptions of Main-sequence Stars. II. Simulation Methodology and Stellar Mass Dependence of the Character of Full Tidal Disruptions. Astrophysical Journal, 2020, 904, 99.	4.5	40
15	Tidal Disruptions of Main-sequence Stars. III. Stellar Mass Dependence of the Character of Partial Disruptions. Astrophysical Journal, 2020, 904, 100.	4.5	34
16	Tidal Disruptions of Main-sequence Stars. I. Observable Quantities and Their Dependence on Stellar and Black Hole Mass. Astrophysical Journal, 2020, 904, 98.	4.5	48
17	Light Curves of Tidal Disruption Events in Active Galactic Nuclei. Astrophysical Journal, 2020, 903, 17.	4.5	13
18	Measuring Stellar and Black Hole Masses of Tidal Disruption Events. Astrophysical Journal, 2020, 904, 73.	4.5	43

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19	Tidal Disruptions of Main-sequence Stars. V. The Varieties of Disruptions. <i>Astrophysical Journal</i> , 2020, 904, 68.	4.5	14
20	Inverse Compton Cooling in the Coronae of Simulated Black Hole Accretion Flows. <i>Astrophysical Journal</i> , 2020, 904, 117.	4.5	9
21	Population Estimates for Electromagnetically Distinguishable Supermassive Binary Black Holes. <i>Astrophysical Journal</i> , 2019, 879, 110.	4.5	20
22	Quasi-periodicity of Supermassive Binary Black Hole Accretion Approaching Merger. <i>Astrophysical Journal</i> , 2019, 879, 76.	4.5	37
23	Tilt Dependence of Alignment in Accretion Disks Subjected to Lense-Thirring Torques. <i>Astrophysical Journal</i> , 2019, 878, 149.	4.5	8
24	Tidal Disruption Events in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2019, 881, 113.	4.5	45
25	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
26	Predicting the X-Ray Spectra of Stellar-mass Black Holes from Simulations. <i>Astrophysical Journal</i> , 2019, 873, 71.	4.5	15
27	Quasi-periodic Behavior of Mini-disks in Binary Black Holes Approaching Merger. <i>Astrophysical Journal Letters</i> , 2018, 853, L17.	8.3	65
28	Magnetorotational Instability in Eccentric Disks. <i>Astrophysical Journal</i> , 2018, 856, 12.	4.5	21
29	Electromagnetic Emission from Supermassive Binary Black Holes Approaching Merger. <i>Astrophysical Journal</i> , 2018, 865, 140.	4.5	59
30	Spectropolarimetry of high-redshift obscured and red quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4936-4957.	4.4	25
31	PATCHWORK: A Multipatch Infrastructure for Multiphysics/Multiscale/Multiframe Fluid Simulations. <i>Astrophysical Journal</i> , 2018, 861, 15.	4.5	7
32	Sound Speed Dependence of Alignment in Accretion Disks Subjected to Lense-Thirring Torques. <i>Astrophysical Journal</i> , 2018, 866, 5.	4.5	10
33	Relativistic Dynamics and Mass Exchange in Binary Black Hole Mini-disks. <i>Astrophysical Journal</i> , 2017, 838, 42.	4.5	50
34	Radiative interaction between the relativistic jet and optically thick envelope in tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1141-1152.	4.4	8
35	Geometrically Thick Obscuration by Radiation-driven Outflow from Magnetized Tori of Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2017, 843, 58.	4.5	35
36	Fe K α PROFILES FROM SIMULATIONS OF ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2016, 826, 52.	4.5	18

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37	ASASSN-14li: A MODEL TIDAL DISRUPTION EVENT. <i>Astrophysical Journal</i> , 2016, 827, 127.	4.5	82
38	DISCOVERY OF TRANSIENT INFRARED EMISSION FROM DUST HEATED BY STELLAR TIDAL DISRUPTION FLARES. <i>Astrophysical Journal</i> , 2016, 829, 19.	4.5	74
39	RADIATION-DRIVEN OUTFLOWS FROM AND RADIATIVE SUPPORT IN DUSTY TORI OF ACTIVE GALACTIC NUCLEI. <i>Astrophysical Journal</i> , 2016, 825, 67.	4.5	47
40	DISK EMISSION FROM MAGNETOHYDRODYNAMIC SIMULATIONS OF SPINNING BLACK HOLES. <i>Astrophysical Journal</i> , 2016, 819, 48.	4.5	29
41	HOW BRIGHT ARE THE GAPS IN CIRCUMBINARY DISK SYSTEMS?. <i>Astrophysical Journal</i> , 2016, 832, 22.	4.5	15
42	DISK FORMATION VERSUS DISK ACCRETION—WHAT POWERS TIDAL DISRUPTION EVENTS?. <i>Astrophysical Journal</i> , 2015, 806, 164.	4.5	217
43	A STEADY-STATE ALIGNMENT FRONT IN AN ACCRETION DISK SUBJECTED TO LENSE-THIRING TORQUES. <i>Astrophysical Journal</i> , 2015, 806, 141.	4.5	15
44	GENERAL RELATIVISTIC HYDRODYNAMIC SIMULATION OF ACCRETION FLOW FROM A STELLAR TIDAL DISRUPTION. <i>Astrophysical Journal</i> , 2015, 804, 85.	4.5	232
45	STRUCTURE OF RETROGRADE CIRCUMBINARY ACCRETION DISKS. <i>Astrophysical Journal</i> , 2015, 801, 114.	4.5	10
46	THREE-DIMENSIONAL MHD SIMULATION OF CIRCUMBINARY ACCRETION DISKS. II. NET ACCRETION RATE. <i>Astrophysical Journal</i> , 2015, 807, 131.	4.5	88
47	EVOLUTION OF A BINARY BLACK HOLE WITH A RETROGRADE CIRCUMBINARY ACCRETION DISK. <i>Astrophysical Journal</i> , 2015, 806, 88.	4.5	13
48	OBSERVATIONAL SIGNATURES OF BINARY SUPERMASSIVE BLACK HOLES. <i>Astrophysical Journal</i> , 2014, 785, 115.	4.5	84
49	TESTING CONVERGENCE FOR GLOBAL ACCRETION DISKS. <i>Astrophysical Journal</i> , 2013, 772, 102.	4.5	101
50	MAGNETOHYDRODYNAMIC SIMULATION OF A DISK SUBJECTED TO LENSE-THIRING PRECESSION. <i>Astrophysical Journal</i> , 2013, 777, 21.	4.5	42
51	RELAXATION OF WARPED DISKS: THE CASE OF PURE HYDRODYNAMICS. <i>Astrophysical Journal</i> , 2013, 768, 133.	4.5	31
52	ALIGNMENT OF SUPERMASSIVE BLACK HOLE BINARY ORBITS AND SPINS. <i>Astrophysical Journal</i> , 2013, 774, 43.	4.5	53
53	JET LUMINOSITY FROM NEUTRINO-DOMINATED ACCRETION FLOWS IN GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2013, 766, 31.	4.5	64
54	A MONTE CARLO CODE FOR RELATIVISTIC RADIATION TRANSPORT AROUND KERR BLACK HOLES. <i>Astrophysical Journal</i> , 2013, 777, 11.	4.5	51

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55	X-RAY SPECTRA FROM MAGNETOHYDRODYNAMIC SIMULATIONS OF ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2013, 769, 156.	4.5	78
56	CIRCUMBINARY MAGNETOHYDRODYNAMIC ACCRETION INTO INSPIRALING BINARY BLACK HOLES. <i>Astrophysical Journal</i> , 2012, 755, 51.	4.5	147
57	THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC SIMULATIONS OF CIRCUMBINARY ACCRETION DISKS: DISK STRUCTURES AND ANGULAR MOMENTUM TRANSPORT. <i>Astrophysical Journal</i> , 2012, 749, 118.	4.5	219
58	JETS FROM TIDAL DISRUPTIONS OF STARS BY BLACK HOLES. <i>Astrophysical Journal</i> , 2012, 749, 92.	4.5	48
59	SWIFT J1644+57: A WHITE DWARF TIDALLY DISRUPTED BY A $10^{4} M_{\odot}$ BLACK HOLE?. <i>Astrophysical Journal</i> , 2011, 743, 134.	4.5	91
60	RADIATIVE EFFICIENCY AND THERMAL SPECTRUM OF ACCRETION ONTO SCHWARZSCHILD BLACK HOLES. <i>Astrophysical Journal</i> , 2011, 743, 115.	4.5	68
61	ASSESSING QUANTITATIVE RESULTS IN ACCRETION SIMULATIONS: FROM LOCAL TO GLOBAL. <i>Astrophysical Journal</i> , 2011, 738, 84.	4.5	178
62	DISSIPATION AND VERTICAL ENERGY TRANSPORT IN RADIATION-DOMINATED ACCRETION DISKS. <i>Astrophysical Journal</i> , 2011, 733, 110.	4.5	66
63	DEPENDENCE OF INNER ACCRETION DISK STRESS ON PARAMETERS: THE SCHWARZSCHILD CASE. <i>Astrophysical Journal</i> , 2010, 711, 959-973.	4.5	153
64	ESTIMATING THE PROMPT ELECTROMAGNETIC LUMINOSITY OF A BLACK HOLE MERGER. <i>Astrophysical Journal</i> , 2010, 709, 774-779.	4.5	25
65	X-RAY POLARIZATION FROM ACCRETING BLACK HOLES: THE THERMAL STATE. <i>Astrophysical Journal</i> , 2009, 701, 1175-1187.	4.5	137
66	RADIATION-DOMINATED DISKS ARE THERMALLY STABLE. <i>Astrophysical Journal</i> , 2009, 691, 16-31.	4.5	180
67	GRMHD PREDICTION OF CORONAL VARIABILITY IN ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2009, 703, 964-975.	4.5	42
68	DIRECT CALCULATION OF THE RADIATIVE EFFICIENCY OF AN ACCRETION DISK AROUND A BLACK HOLE. <i>Astrophysical Journal</i> , 2009, 692, 411-421.	4.5	157
69	Host Galaxies of Obscured Quasars: Infant Starbursts Caught in Action. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 118-118.	0.0	0
70	Self-Consistent Thermodynamics in Accretion: Radiation-Dominated Disks Are Thermally Stable. , 2009, , .		0
71	TRANSPORT OF LARGE-SCALE POLOIDAL FLUX IN BLACK HOLE ACCRETION. <i>Astrophysical Journal</i> , 2009, 707, 428-445.	4.5	135
72	Where is the radiation edge in magnetized black hole accretion discs?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 390, 21-38.	4.4	68

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73	SPACE DENSITY OF OPTICALLY SELECTED TYPE 2 QUASARS. <i>Astronomical Journal</i> , 2008, 136, 2373-2390.	4.7	247
74	Radiation Pressureâ€‘Supported Active Galactic Nucleus Tori with Hard Xâ€‘Ray and Stellar Heating. <i>Astrophysical Journal</i> , 2008, 679, 1018-1028.	4.5	22
75	The Infrared Afterglow of Supermassive Black Hole Mergers. <i>Astrophysical Journal</i> , 2008, 684, 835-844.	4.5	75
76	AGN Obscuring Tori Supported by Infrared Radiation Pressure. <i>Astrophysical Journal</i> , 2007, 661, 52-59.	4.5	94
77	General relativistic MHD simulations of black hole accretion disks and jets. <i>Astrophysics and Space Science</i> , 2007, 311, 117-125.	1.4	16
78	Magnetically Driven Jets in the Kerr Metric. <i>Astrophysical Journal</i> , 2006, 641, 103-116.	4.5	273
79	Type II Quasars from the Sloan Digital Sky Survey. V. Imaging Host Galaxies with the Hubble Space Telescope. <i>Astronomical Journal</i> , 2006, 132, 1496-1516.	4.7	124
80	Magnetically Driven Accretion in the Kerr Metric. III. Unbound Outflows. <i>Astrophysical Journal</i> , 2005, 620, 878-888.	4.5	214
81	Candidate Type II Quasars from the Sloan Digital Sky Survey. III. Spectropolarimetry Reveals Hidden Type I Nuclei. <i>Astronomical Journal</i> , 2005, 129, 1212-1224.	4.7	118
82	Magnetically Driven Accretion Flows in the Kerr Metric. IV. Dynamical Properties of the Inner Disk. <i>Astrophysical Journal</i> , 2005, 622, 1008-1023.	4.5	130
83	Magnetically Driven Accretion Flows in the Kerr Metric. II. Structure of the Magnetic Field. <i>Astrophysical Journal</i> , 2004, 606, 1083-1097.	4.5	156
84	Magnetically Driven Accretion Flows in the Kerr Metric. I. Models and Overall Structure. <i>Astrophysical Journal</i> , 2003, 599, 1238-1253.	4.5	306
85	Where Is the Inner Edge of an Accretion Disk around a Black Hole?. <i>Astrophysical Journal</i> , 2002, 573, 754-763.	4.5	113
86	VLT Optical and Near-Infrared Observations of the [CLC][ITAL]z[/ITAL]/[CLC]â€‘=â€‘6.28 Quasar SDSS J1030+0524. <i>Astronomical Journal</i> , 2002, 123, 2151-2158.	4.7	96
87	Highâ€‘Resolution Simulations of the Plunging Region in a Pseudoâ€‘Newtonian Potential: Dependence on Numerical Resolution and Field Topology. <i>Astrophysical Journal</i> , 2002, 566, 164-180.	4.5	90
88	Warm Absorbers in Active Galactic Nuclei: A Multitemperature Wind. <i>Astrophysical Journal</i> , 2001, 561, 684-690.	4.5	205
89	Magnetic Stress at the Marginally Stable Orbit: Altered Disk Structure, Radiation, and Black Hole Spin Evolution. <i>Astrophysical Journal</i> , 2000, 528, 161-170.	4.5	230
90	Future Directions in AGN Research. Symposium - International Astronomical Union, 1999, 194, 453-462.	0.1	0

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91	A Unified View of How the Study of Emission Lines Furthers Our Knowledge of AGN. International Astronomical Union Colloquium, 1997, 159, 459-474.	0.1	0
92	X-ray binaries: What progress have we made?. AIP Conference Proceedings, 1994, , .	0.4	0
93	Numerical simulation of X-ray-heated winds in Seyfert galaxies. I - The case of zero angular momentum. Astrophysical Journal, 1993, 402, 109.	4.5	50
94	X-ray light curves of active galactic nuclei are phase incoherent. Astrophysical Journal, 1993, 402, 432.	4.5	11
95	Infrared Spectra of Obscuring Dust Tori around Active Galactic Nuclei. II. Comparison with Observations. Astrophysical Journal, 1993, 418, 673.	4.5	263
96	Infrared spectra of obscuring dust tori around active galactic nuclei. I - Calculational method and basic trends. Astrophysical Journal, 1992, 401, 99.	4.5	400
97	Radiation-pressure-supported obscuring tori around active galactic nuclei. Astrophysical Journal, 1992, 399, L23.	4.5	97
98	Creation by stellar ablation of the low-mass companion to pulsar 1829â€“10. Nature, 1991, 353, 829-831.	27.8	8
99	A long, deep look at the shape of Seyfert galaxies. Nature, 1990, 346, 319-320.	27.8	1
100	Theory of the Intermediate Zone. Symposium - International Astronomical Union, 1989, 134, 285-292.	0.1	0
101	Molecular tori in Seyfert galaxies - Feeding the monster and hiding it. Astrophysical Journal, 1988, 329, 702.	4.5	471
102	Fe K features as probes of the nuclear reflection region in Seyfert galaxies. Astrophysical Journal, 1987, 320, L5.	4.5	134
103	Rayleighâ€“Taylor modes in constant-density incompressible fluids accelerated by radiation pressure. Physics of Fluids, 1977, 20, 364.	1.4	19
104	Elliptical Accretion and Low Luminosity from High Accretion Rate Stellar Tidal Disruption Events. Monthly Notices of the Royal Astronomical Society, 0, , stx117.	4.4	34