

Julian H Krolik

List of Publications by Year in descending order

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104
papers

8,282
citations

44069

48
h-index

45317

90
g-index

104
all docs

104
docs citations

104
times ranked

4323
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular tori in Seyfert galaxies - Feeding the monster and hiding it. <i>Astrophysical Journal</i> , 1988, 329, 702.	4.5	471
2	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
3	Infrared spectra of obscuring dust tori around active galactic nuclei. I - Computational method and basic trends. <i>Astrophysical Journal</i> , 1992, 401, 99.	4.5	400
4	Magnetically Driven Accretion Flows in the Kerr Metric. I. Models and Overall Structure. <i>Astrophysical Journal</i> , 2003, 599, 1238-1253.	4.5	306
5	Magnetically Driven Jets in the Kerr Metric. <i>Astrophysical Journal</i> , 2006, 641, 103-116.	4.5	273
6	Infrared Spectra of Obscuring Dust Tori around Active Galactic Nuclei. II. Comparison with Observations. <i>Astrophysical Journal</i> , 1993, 418, 673.	4.5	263
7	SPACE DENSITY OF OPTICALLY SELECTED TYPE 2 QUASARS. <i>Astronomical Journal</i> , 2008, 136, 2373-2390.	4.7	247
8	GENERAL RELATIVISTIC HYDRODYNAMIC SIMULATION OF ACCRETION FLOW FROM A STELLAR TIDAL DISRUPTION. <i>Astrophysical Journal</i> , 2015, 804, 85.	4.5	232
9	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
10	THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC SIMULATIONS OF CIRCUMBINARY ACCRETION DISKS: DISK STRUCTURES AND ANGULAR MOMENTUM TRANSPORT. <i>Astrophysical Journal</i> , 2012, 749, 118.	4.5	219
11	DISK FORMATION VERSUS DISK ACCRETION—WHAT POWERS TIDAL DISRUPTION EVENTS?. <i>Astrophysical Journal</i> , 2015, 806, 164.	4.5	217
12	Magnetically Driven Accretion in the Kerr Metric. III. Unbound Outflows. <i>Astrophysical Journal</i> , 2005, 620, 878-888.	4.5	214
13	Warm Absorbers in Active Galactic Nuclei: A Multitemperature Wind. <i>Astrophysical Journal</i> , 2001, 561, 684-690.	4.5	205
14	RADIATION-DOMINATED DISKS ARE THERMALLY STABLE. <i>Astrophysical Journal</i> , 2009, 691, 16-31.	4.5	180
15	ASSESSING QUANTITATIVE RESULTS IN ACCRETION SIMULATIONS: FROM LOCAL TO GLOBAL. <i>Astrophysical Journal</i> , 2011, 738, 84.	4.5	178
16	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
17	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
18	DEPENDENCE OF INNER ACCRETION DISK STRESS ON PARAMETERS: THE SCHWARZSCHILD CASE. <i>Astrophysical Journal</i> , 2010, 711, 959-973.	4.5	153

#	ARTICLE	IF	CITATIONS
19	CIRCUMBINARY MAGNETOHYDRODYNAMIC ACCRETION INTO INSPIRALING BINARY BLACK HOLES. <i>Astrophysical Journal</i> , 2012, 755, 51.	4.5	147
20	X-RAY POLARIZATION FROM ACCRETING BLACK HOLES: THE THERMAL STATE. <i>Astrophysical Journal</i> , 2009, 701, 1175-1187.	4.5	137
21	TRANSPORT OF LARGE-SCALE POLOIDAL FLUX IN BLACK HOLE ACCRETION. <i>Astrophysical Journal</i> , 2009, 707, 428-445.	4.5	135
22	Fe K features as probes of the nuclear reflection region in Seyfert galaxies. <i>Astrophysical Journal</i> , 1987, 320, L5.	4.5	134
23	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
24	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
25	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
26	Where Is the Inner Edge of an Accretion Disk around a Black Hole?. <i>Astrophysical Journal</i> , 2002, 573, 754-763.	4.5	113
27	TESTING CONVERGENCE FOR GLOBAL ACCRETION DISKS. <i>Astrophysical Journal</i> , 2013, 772, 102.	4.5	101
28	Radiation-pressure-supported obscuring tori around active galactic nuclei. <i>Astrophysical Journal</i> , 1992, 399, L23.	4.5	97
29	VLT Optical and Near-Infrared Observations of the [CLC][ITAL]z[/ITAL][/CLC] $z=6.28$ Quasar SDSS J1030+0524. <i>Astronomical Journal</i> , 2002, 123, 2151-2158.	4.7	96
30	AGN Obscuring Tori Supported by Infrared Radiation Pressure. <i>Astrophysical Journal</i> , 2007, 661, 52-59.	4.5	94
31	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
32	High-Resolution Simulations of the Plunging Region in a Pseudo-Newtonian Potential: Dependence on Numerical Resolution and Field Topology. <i>Astrophysical Journal</i> , 2002, 566, 164-180.	4.5	90
33	THREE-DIMENSIONAL MHD SIMULATION OF CIRCUMBINARY ACCRETION DISKS. II. NET ACCRETION RATE. <i>Astrophysical Journal</i> , 2015, 807, 131.	4.5	88
34	OBSERVATIONAL SIGNATURES OF BINARY SUPERMASSIVE BLACK HOLES. <i>Astrophysical Journal</i> , 2014, 785, 115.	4.5	84
35	ASASSN-14li: A MODEL TIDAL DISRUPTION EVENT. <i>Astrophysical Journal</i> , 2016, 827, 127.	4.5	82
36	X-RAY SPECTRA FROM MAGNETOHYDRODYNAMIC SIMULATIONS OF ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2013, 769, 156.	4.5	78

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37	The Infrared Afterglow of Supermassive Black Hole Mergers. <i>Astrophysical Journal</i> , 2008, 684, 835-844.	4.5	75
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	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
40	RADIATIVE EFFICIENCY AND THERMAL SPECTRUM OF ACCRETION ONTO SCHWARZSCHILD BLACK HOLES. <i>Astrophysical Journal</i> , 2011, 743, 115.	4.5	68
41	DISSIPATION AND VERTICAL ENERGY TRANSPORT IN RADIATION-DOMINATED ACCRETION DISKS. <i>Astrophysical Journal</i> , 2011, 733, 110.	4.5	66
42	Quasi-periodic Behavior of Mini-disks in Binary Black Holes Approaching Merger. <i>Astrophysical Journal Letters</i> , 2018, 853, L17.	8.3	65
43	JET LUMINOSITY FROM NEUTRINO-DOMINATED ACCRETION FLOWS IN GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2013, 766, 31.	4.5	64
44	Electromagnetic Emission from Supermassive Binary Black Holes Approaching Merger. <i>Astrophysical Journal</i> , 2018, 865, 140.	4.5	59
45	ALIGNMENT OF SUPERMASSIVE BLACK HOLE BINARY ORBITS AND SPINS. <i>Astrophysical Journal</i> , 2013, 774, 43.	4.5	53
46	A MONTE CARLO CODE FOR RELATIVISTIC RADIATION TRANSPORT AROUND KERR BLACK HOLES. <i>Astrophysical Journal</i> , 2013, 777, 11.	4.5	51
47	Relativistic Dynamics and Mass Exchange in Binary Black Hole Mini-disks. <i>Astrophysical Journal</i> , 2017, 838, 42.	4.5	50
48	Numerical simulation of X-ray-heated winds in Seyfert galaxies. I - The case of zero angular momentum. <i>Astrophysical Journal</i> , 1993, 402, 109.	4.5	50
49	JETS FROM TIDAL DISRUPTIONS OF STARS BY BLACK HOLES. <i>Astrophysical Journal</i> , 2012, 749, 92.	4.5	48
50	Tidal Disruptions of Main-sequence Stars. I. Observable Quantities and Their Dependence on Stellar and Black Hole Mass. <i>Astrophysical Journal</i> , 2020, 904, 98.	4.5	48
51	RADIATION-DRIVEN OUTFLOWS FROM AND RADIATIVE SUPPORT IN DUSTY TORI OF ACTIVE GALACTIC NUCLEI. <i>Astrophysical Journal</i> , 2016, 825, 67.	4.5	47
52	Tidal Disruption Events in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2019, 881, 113.	4.5	45
53	Measuring Stellar and Black Hole Masses of Tidal Disruption Events. <i>Astrophysical Journal</i> , 2020, 904, 73.	4.5	43
54	GRMHD PREDICTION OF CORONAL VARIABILITY IN ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2009, 703, 964-975.	4.5	42

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55	MAGNETOHYDRODYNAMIC SIMULATION OF A DISK SUBJECTED TO LENSE-THIRING PRECESSION. <i>Astrophysical Journal</i> , 2013, 777, 21.	4.5	42
56	Tidal Disruptions of Main-sequence Stars. II. Simulation Methodology and Stellar Mass Dependence of the Character of Full Tidal Disruptions. <i>Astrophysical Journal</i> , 2020, 904, 99.	4.5	40
57	Quasi-periodicity of Supermassive Binary Black Hole Accretion Approaching Merger. <i>Astrophysical Journal</i> , 2019, 879, 76.	4.5	37
58	Geometrically Thick Obscuration by Radiation-driven Outflow from Magnetized Tori of Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2017, 843, 58.	4.5	35
59	Elliptical Accretion and Low Luminosity from High Accretion Rate Stellar Tidal Disruption Events. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx117.	4.4	34
60	Tidal Disruptions of Main-sequence Stars. III. Stellar Mass Dependence of the Character of Partial Disruptions. <i>Astrophysical Journal</i> , 2020, 904, 100.	4.5	34
61	RELAXATION OF WARPED DISKS: THE CASE OF PURE HYDRODYNAMICS. <i>Astrophysical Journal</i> , 2013, 768, 133.	4.5	31
62	DISK EMISSION FROM MAGNETOHYDRODYNAMIC SIMULATIONS OF SPINNING BLACK HOLES. <i>Astrophysical Journal</i> , 2016, 819, 48.	4.5	29
63	ESTIMATING THE PROMPT ELECTROMAGNETIC LUMINOSITY OF A BLACK HOLE MERGER. <i>Astrophysical Journal</i> , 2010, 709, 774-779.	4.5	25
64	Spectropolarimetry of high-redshift obscured and red quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4936-4957.	4.4	25
65	Radiative Emission Mechanisms. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	25
66	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
67	Magnetorotational Instability in Eccentric Disks. <i>Astrophysical Journal</i> , 2018, 856, 12.	4.5	21
68	Population Estimates for Electromagnetically Distinguishable Supermassive Binary Black Holes. <i>Astrophysical Journal</i> , 2019, 879, 110.	4.5	20
69	Rayleighâ€‘Taylor modes in constant-density incompressible fluids accelerated by radiation pressure. <i>Physics of Fluids</i> , 1977, 20, 364.	1.4	19
70	Tidal Disruptions of Main-sequence Stars. IV. Relativistic Effects and Dependence on Black Hole Mass. <i>Astrophysical Journal</i> , 2020, 904, 101.	4.5	19
71	Mass-ratio and Magnetic Flux Dependence of Modulated Accretion from Circumbinary Disks. <i>Astrophysical Journal</i> , 2021, 922, 175.	4.5	19
72	Fe K \pm PROFILES FROM SIMULATIONS OF ACCRETING BLACK HOLES. <i>Astrophysical Journal</i> , 2016, 826, 52.	4.5	18

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73	HARM3D+NUC: A New Method for Simulating the Post-merger Phase of Binary Neutron Star Mergers with GRMHD, Tabulated EOS, and Neutrino Leakage. <i>Astrophysical Journal</i> , 2021, 919, 95.	4.5	17
74	Electromagnetic Signatures from Supermassive Binary Black Holes Approaching Merger. <i>Astrophysical Journal</i> , 2022, 928, 137.	4.5	17
75	General relativistic MHD simulations of black hole accretion disks and jets. <i>Astrophysics and Space Science</i> , 2007, 311, 117-125.	1.4	16
76	Circumbinary Disk Accretion into Spinning Black Hole Binaries. <i>Astrophysical Journal</i> , 2021, 913, 16.	4.5	16
77	A STEADY-STATE ALIGNMENT FRONT IN AN ACCRETION DISK SUBJECTED TO LENSEâ€™S THIRRING TORQUES. <i>Astrophysical Journal</i> , 2015, 806, 141.	4.5	15
78	Predicting the X-Ray Spectra of Stellar-mass Black Holes from Simulations. <i>Astrophysical Journal</i> , 2019, 873, 71.	4.5	15
79	HOW BRIGHT ARE THE GAPS IN CIRCUMBINARY DISK SYSTEMS?. <i>Astrophysical Journal</i> , 2016, 832, 22.	4.5	15
80	Minidisk Accretion onto Spinning Black Hole Binaries: Quasi-periodicities and Outflows. <i>Astrophysical Journal</i> , 2022, 928, 187.	4.5	15
81	Tidal Disruptions of Main-sequence Stars. V. The Varieties of Disruptions. <i>Astrophysical Journal</i> , 2020, 904, 68.	4.5	14
82	EVOLUTION OF A BINARY BLACK HOLE WITH A RETROGRADE CIRCUMBINARY ACCRETION DISK. <i>Astrophysical Journal</i> , 2015, 806, 88.	4.5	13
83	Light Curves of Tidal Disruption Events in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2020, 903, 17.	4.5	13
84	What powers the radio emission in TDE AT2019dsg: A long-lived jet or the disruption itself?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 5085-5092.	4.4	12
85	High-energy Emission from Tidal Disruption Events in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2021, 914, 107.	4.5	11
86	X-ray light curves of active galactic nuclei are phase incoherent. <i>Astrophysical Journal</i> , 1993, 402, 432.	4.5	11
87	Spin and Accretion Rate Dependence of Black Hole X-Ray Spectra. <i>Astrophysical Journal</i> , 2021, 922, 270.	4.5	11
88	STRUCTURE OF RETROGRADE CIRCUMBINARY ACCRETION DISKS. <i>Astrophysical Journal</i> , 2015, 801, 114.	4.5	10
89	Sound Speed Dependence of Alignment in Accretion Disks Subjected to Lenseâ€™s Thirring Torques. <i>Astrophysical Journal</i> , 2018, 866, 5.	4.5	10
90	Inverse Compton Cooling in the Coronae of Simulated Black Hole Accretion Flows. <i>Astrophysical Journal</i> , 2020, 904, 117.	4.5	9

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91	Creation by stellar ablation of the low-mass companion to pulsar 1829â€“10. <i>Nature</i> , 1991, 353, 829-831.	27.8	8
92	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
93	Tilt Dependence of Alignment in Accretion Disks Subjected to Lenseâ€“Thirring Torques. <i>Astrophysical Journal</i> , 2019, 878, 149.	4.5	8
94	PATCHWORK: A Multipatch Infrastructure for Multiphysics/Multiscale/Multiframe Fluid Simulations. <i>Astrophysical Journal</i> , 2018, 861, 15.	4.5	7
95	The Impact of Shocks on the Vertical Structure of Eccentric Disks. <i>Astrophysical Journal</i> , 2021, 920, 130.	4.5	4
96	Nonlinear Evolution of the Magnetorotational Instability in Eccentric Disks. <i>Astrophysical Journal</i> , 2022, 933, 81.	4.5	3
97	A long, deep look at the shape of Seyfert galaxies. <i>Nature</i> , 1990, 346, 319-320.	27.8	1
98	Future Simulations of Tidal Disruption Events. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	1
99	Theory of the Intermediate Zone. <i>Symposium - International Astronomical Union</i> , 1989, 134, 285-292.	0.1	0
100	X-ray binaries: What progress have we made?. <i>AIP Conference Proceedings</i> , 1994, , .	0.4	0
101	A Unified View of How the Study of Emission Lines Furthers Our Knowledge of AGN. <i>International Astronomical Union Colloquium</i> , 1997, 159, 459-474.	0.1	0
102	Future Directions in AGN Research. <i>Symposium - International Astronomical Union</i> , 1999, 194, 453-462.	0.1	0
103	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
104	Self-Consistent Thermodynamics in Accretion: Radiation-Dominated Disks Are Thermally Stable. , 2009, , .		0