

# Jonathan I Katz

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

1,658  
citations

304743

22  
h-index

302126

39  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two kinds of stellar collapse. <i>Nature</i> , 1975, 253, 698-699.	27.8	186
2	HOW SOFT GAMMA REPEATERS MIGHT MAKE FAST RADIO BURSTS. <i>Astrophysical Journal</i> , 2016, 826, 226.	4.5	142
3	Thirty-five-day Periodicity in Her X-1. <i>Nature: Physical Science</i> , 1973, 246, 87-89.	0.8	105
4	Fast radio bursts " A brief review: Some questions, fewer answers. <i>Modern Physics Letters A</i> , 2016, 31, 1630013.	1.2	104
5	Nodding motions of accretion rings and disks - A short-term period in SS 433. <i>Astrophysical Journal</i> , 1982, 260, 780.	4.5	91
6	X-rays from spherical accretion onto degenerate dwarfs. <i>Astrophysical Journal</i> , 1977, 215, 265.	4.5	80
7	Acceleration, radiation and precession in SS 433. <i>Astrophysical Journal</i> , 1980, 236, L127.	4.5	69
8	INFERENCES FROM THE DISTRIBUTIONS OF FAST RADIO BURST PULSE WIDTHS, DISPERSION MEASURES, AND FLUENCES. <i>Astrophysical Journal</i> , 2016, 818, 19.	4.5	68
9	Comment on "Indication, from Pioneer 10/11, Galileo, and Ulysses Data, of an Apparent Anomalous, Weak, Long-Range Acceleration" <i>Physical Review Letters</i> , 1999, 83, 1892-1892.	7.8	56
10	Synchronous rotation in magnetic X-ray binaries. <i>Astrophysical Journal</i> , 1979, 230, 176.	4.5	48
11	Physical processes in gamma-ray bursts. <i>Astrophysical Journal</i> , 1982, 260, 371.	4.5	44
12	A model of propagating brittle failure in heterogeneous media. <i>Journal of Geophysical Research</i> , 1986, 91, 10412-10420.	3.3	39
13	Coherent plasma-curvature radiation in FRB. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2946-2950.	4.4	38
14	Trends in hourly rainfall statistics in the United States under a warming climate. <i>Nature Climate Change</i> , 2013, 3, 577-580.	18.8	36
15	FRB as products of accretion disc funnels. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 471, L92-L95.	3.3	34
16	AR Sco: A Precessing White Dwarf Synchronar?. <i>Astrophysical Journal</i> , 2017, 835, 150.	4.5	31
17	Are fast radio bursts made by neutron stars?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 494, L64-L68.	3.3	31
18	Yet another model of soft gamma repeaters. <i>Astrophysical Journal</i> , 1994, 437, 727.	4.5	30

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19	Do AM Hercules white dwarfs have toroidal internal fields?. Monthly Notices of the Royal Astronomical Society, 1989, 239, 751-758.	4.4	26
20	Universal particle acceleration. Astrophysical Journal, 1991, 367, 407.	4.5	26
21	Fast radio bursts as pulsar lightning. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 469, L39-L42.	3.3	24
22	X-Radiography of Cargo Containers. Science and Global Security, 2007, 15, 49-56.	0.3	23
23	The Eddington Limit and Soft Gamma Repeaters. Astrophysical Journal, 1996, 463, 305.	4.5	22
24	Fast radio burst energetics and sources. Monthly Notices of the Royal Astronomical Society, 2019, 487, 491-501.	4.4	21
25	Are fast radio bursts wandering narrow beams?. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 467, L96-L99.	3.3	19
26	The environment of FRB 121102 and possible relation to SGR/PSR J1745-2900. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 501, L76-L79.	3.3	19
27	Why is interstellar object 1I/2017 U1 (Oumuamua) rocky, tumbling and possibly very prolate?. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 478, L95-L98.	3.3	18
28	Jets from collapsing bubbles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 323-328.	2.1	16
29	Changing world extreme temperature statistics. International Journal of Climatology, 2018, 38, 2613-2617.	3.5	16
30	Testing models of periodically modulated FRB activity. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4664-4668.	4.4	16
31	The FRB-SGR connection. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2319-2326.	4.4	15
32	WHAT PERYTONS ARE NOT, AND MIGHT BE. Astrophysical Journal, 2014, 788, 34.	4.5	14
33	Excess close burst pairs in FRB 121102. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1849-1852.	4.4	14
34	Can dips of Boyajian's star be explained by circumsolar rings?. Monthly Notices of the Royal Astronomical Society, 2017, 471, 3680-3685.	4.4	10
35	Decreasing US aridity in a warming climate. International Journal of Climatology, 2016, 36, 1560-1564.	3.5	9
36	Statistics and microphysics of the fracture of glass. Journal of Applied Physics, 1998, 84, 1928-1931.	2.5	8

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37	Conventional, Bayesian, and Modified Prony's methods for characterizing fast and slow waves in equine cancellous bone. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 594-604.	1.1	8
38	Implications of an anti-glitch in AXP/SGR. <i>Astrophysics and Space Science</i> , 2014, 349, 611-615.	1.4	7
39	FRB strength distribution challenges the cosmological principle. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 472, L85-L88.	3.3	7
40	FRB 190520B – An FRB in a young supernova remnant?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 510, L42-L44.	3.3	7
41	Evidence against non-gravitational acceleration of 11/2017 U1 – Oumuamua. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	6
42	A fast radio burst in a globular cluster: why is this neutron star different from (almost) all other neutron stars?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 508, L12-L16.	3.3	6
43	The absence of periodicity in repeating FRB. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1925-1931.	4.4	6
44	Detection of Neutron Sources in Cargo Containers. <i>Science and Global Security</i> , 2006, 14, 145-149.	0.3	5
45	Comment on Castillo et al. (2015). <i>International Journal of Radiation Biology</i> , 2016, 92, 169-170.	1.8	5
46	Trends in U.S. Hourly Precipitation Variance 1949–2009. <i>Journal of Hydrometeorology</i> , 2018, 19, 599-608.	1.9	5
47	The environment and constraints on the mass of FRB 190520B. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 514, L27-L30.	3.3	5
48	Changing US extreme temperature statistics. <i>International Journal of Climatology</i> , 2017, 37, 4749-4755.	3.5	4
49	Dimensional Bounds on Viracator Emission. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 3268-3270.	1.3	3
50	Searching for Galactic micro-FRB with lunar scattering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3464-3468.	4.4	3
51	V1500 Cygni - A prediction. <i>Astrophysical Journal</i> , 1991, 374, L59.	4.5	3
52	Atmospheric humidity in the nuclear winter. <i>Nature</i> , 1984, 311, 417-417.	27.8	2
53	Pulsar structure. <i>Nature</i> , 1989, 339, 263-264.	27.8	2
54	Mean-field model of layering instability in shearing suspensions. <i>Physical Review E</i> , 2014, 89, 021003.	2.1	2

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55	Arrokothâ€™s necklace. Monthly Notices of the Royal Astronomical Society, 2021, 504, 601-609.	4.4	2
56	When outliers are different. Monthly Notices of the Royal Astronomical Society, 2021, 508, 69-73.	4.4	2
57	Fermi at Trinity. Nuclear Technology, 2021, 207, S326-S334.	1.2	2
58	A von Neumannâ€™Smagorinsky turbulent transport model for stratified shear flows. International Journal of Computational Fluid Dynamics, 2012, 26, 173-179.	1.2	1
59	Effective-medium theory of elastic waves in random networks of rods. Physical Review E, 2012, 85, 061923.	2.1	1
60	Scanning of vehicles for nuclear materials. , 2014, , .		1
61	Sodium and cardiovascular disease. Lancet, The, 2016, 388, 2112-2113.	13.7	1
62	Smallpox Vaccine. Science, 1999, 285, 2067c-2067.	12.6	1
63	Science funding. Science, 1991, 252, 490-490.	12.6	0
64	Comments on â€˜Particle gathering and microstreaming near ultrasonically activated gasâ€™filled microporesâ€™[J. Acoust. Soc. Am. 84, 1378â€™1387 (1988)]. Journal of the Acoustical Society of America, 1992, 91, 505-506.	1.1	0
65	Radio and optical emission, spectra shapes and breaks in GRB. AIP Conference Proceedings, 1994, , .	0.4	0
66	What have we learned from GRB afterglows?. , 1998, , .		0
67	Measuring ( $\langle i \rangle_n$ , $\langle i \rangle_f$ ) Cross Sections of Short-Lived States. Nuclear Science and Engineering, 2011, 168, 164-171.	1.1	0
68	Plasma Temperature Inference from Deuterium-Tritium/Deuterium-Deuterium Neutron Discrimination. Nuclear Science and Engineering, 2015, 180, 117-122.	1.1	0
69	The â€™Breakthroughâ€™ Proposal for Laser-accelerated Spacecraft is not Feasible. Research Notes of the AAS, 2021, 5, 61.	0.7	0
70	Space Science Crunch. Science, 1994, 264, 186-186.	12.6	0
71	Apparatus for measuring strength in biaxial compression. Review of Scientific Instruments, 2022, 93, 043905.	1.3	0
72	Painting Asteroids for Planetary Defense. Journal of the Astronautical Sciences, 0, , .	1.5	0