Jonathan I Katz

List of Publications by Year
in descending order

72	1,658	304743	302126
papers	citations	22 h-index	39 g-index

73	73	73	1658
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FRB 190520B â€“ An FRB in a young supernova remnant?. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 510, L42-L44.	3.3	7
2	The absence of periodicity in repeating FRB. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1925-1931.	4.4	6
3	Apparatus for measuring strength in biaxial compression. Review of Scientific Instruments, 2022, 93, 043905.	1.3	0
4	The environment and constraints on the mass of FRB 190520B. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 514, L27-L30.	3.3	5
5	Testing models of periodically modulated FRB activity. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4664-4668.	4.4	16
6	Arrokothâ€™s necklace. Monthly Notices of the Royal Astronomical Society, 2021, 504, 601-609.	4.4	2
7	The â€œBreakthroughâ€•Proposal for Laser-accelerated Spacecraft is not Feasible. Research Notes of the AAS, 2021, 5, 61.	0.7	0
8	A fast radio burst in a globular cluster: why is this neutron star different from (almost) all other neutron stars?. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 508, L12-L16.	3.3	6
9	When outliers are different. Monthly Notices of the Royal Astronomical Society, 2021, 508, 69-73.	4.4	2
10	The environment of FRB 121102 and possible relation to SGR/PSR J1745â˜’2900. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 501, L76-L79.	3.3	19
11	Fermi at Trinity. Nuclear Technology, 2021, 207, S326-S334.	1.2	2
12	The FRBâ€“SGR connection. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2319-2326.	4.4	15
13	Searching for Galactic micro-FRB with lunar scattering. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3464-3468.	4.4	3
14	Are fast radio bursts made by neutron stars?. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 494, L64-L68.	3.3	31
15	Fast radio burst energetics and sources. Monthly Notices of the Royal Astronomical Society, 2019, 487, 491-501.	4.4	21
16	Evidence against non-gravitational acceleration of 1I/2017 U1 â€˜Oumuamua. Astrophysics and Space Science, 2019, 364, 1.	1.4	6
17	Trends in U.S. Hourly Precipitation Variance 1949â€“2009. Journal of Hydrometeorology, 2018, 19, 599-608.	1.9	5
18	Excess close burst pairs in FRB 121102. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1849-1852.	4.4	14

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19	Changing world extreme temperature statistics. International Journal of Climatology, 2018, 38, 2613-2617.	3.5	16
20	Coherent plasma-curvature radiation in FRB. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2946-2950.	4.4	38
21	Why is interstellar object 1I/2017 U1 (â€˜Oumuamua) rocky, tumbling and possibly very prolate?. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 478, L95-L98.	3.3	18
22	Changing US extreme temperature statistics. International Journal of Climatology, 2017, 37, 4749-4755.	3.5	4
23	AR Sco: A Precessing White Dwarf Synchronar?. Astrophysical Journal, 2017, 835, 150.	4.5	31
24	FRB strength distribution challenges the cosmological principle. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 472, L85-L88.	3.3	7
25	FRB as products of accretion disc funnels. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L92-L95.	3.3	34
26	Are fast radio bursts wandering narrow beams?. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 467, L96-L99.	3.3	19
27	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
28	Fast radio bursts as pulsar lightning. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 469, L39-L42.	3.3	24
29	Fast radio bursts â€” A brief review: Some questions, fewer answers. Modern Physics Letters A, 2016, 31, 1630013.	1.2	104
30	Dimensional Bounds on Vircator Emission. IEEE Transactions on Plasma Science, 2016, 44, 3268-3270.	1.3	3
31	Sodium and cardiovascular disease. Lancet, The, 2016, 388, 2112-2113.	13.7	1
32	INFERENCES FROM THE DISTRIBUTIONS OF FAST RADIO BURST PULSE WIDTHS, DISPERSION MEASURES, AND FLUENCES. Astrophysical Journal, 2016, 818, 19.	4.5	68
33	HOW SOFT GAMMA REPEATERS MIGHT MAKE FAST RADIO BURSTS. Astrophysical Journal, 2016, 826, 226.	4.5	142
34	Decreasing US aridity in a warming climate. International Journal of Climatology, 2016, 36, 1560-1564.	3.5	9
35	Comment on Castillo etÂal. (2015). International Journal of Radiation Biology, 2016, 92, 169-170.	1.8	5
36	Conventional, Bayesian, and Modified Prony's methods for characterizing fast and slow waves in equine cancellous bone. Journal of the Acoustical Society of America, 2015, 138, 594-604.	1.1	8

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37	Plasma Temperature Inference from Deuterium-Tritium/Deuterium-Deuterium Neutron Discrimination. Nuclear Science and Engineering, 2015, 180, 117-122.	1.1	0
38	Scanning of vehicles for nuclear materials. , 2014, , .		1
39	WHAT PERYTONS ARE NOT, AND MIGHT BE. Astrophysical Journal, 2014, 788, 34.	4.5	14
40	Implications of an anti-glitch in AXP/SGR. Astrophysics and Space Science, 2014, 349, 611-615.	1.4	7
41	Mean-field model of layering instability in shearing suspensions. Physical Review E, 2014, 89, 021003.	2.1	2
42	Trends in hourly rainfall statistics in the United States under a warming climate. Nature Climate Change, 2013, 3, 577-580.	18.8	36
43	A von Neumannâ€“Smagorinsky turbulent transport model for stratified shear flows. International Journal of Computational Fluid Dynamics, 2012, 26, 173-179.	1.2	1
44	Effective-medium theory of elastic waves in random networks of rods. Physical Review E, 2012, 85, 061923.	2.1	1
45	Measuring (n,f) Cross Sections of Short-Lived States. Nuclear Science and Engineering, 2011, 168, 164-171.	1.1	0
46	X-Radiography of Cargo Containers. Science and Global Security, 2007, 15, 49-56.	0.3	23
47	Detection of Neutron Sources in Cargo Containers. Science and Global Security, 2006, 14, 145-149.	0.3	5
48	Comment on â€œIndication, from Pioneer 10/11, Galileo, and Ulysses Data, of an Apparent Anomalous, Weak, Long-Range Accelerationâ€• Physical Review Letters, 1999, 83, 1892-1892.	7.8	56
49	Jets from collapsing bubbles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 323-328.	2.1	16
50	Smallpox Vaccine. Science, 1999, 285, 2067c-2067.	12.6	1
51	Statistics and microphysics of the fracture of glass. Journal of Applied Physics, 1998, 84, 1928-1931.	2.5	8
52	What have we learned from GRB afterglows?. , 1998, , .		0
53	The Eddington Limit and Soft Gamma Repeaters. Astrophysical Journal, 1996, 463, 305.	4.5	22
54	Radio and optical emission, spectra shapes and breaks in GRB. AIP Conference Proceedings, 1994, , .	0.4	0

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55	Yet another model of soft gamma repeaters. Astrophysical Journal, 1994, 437, 727.	4.5	30
56	Space Science Crunch. Science, 1994, 264, 186-186.	12.6	0
57	Comments on â€˜â€˜Particle gathering and microstreaming near ultrasonically activated gasâ€filled microporesâ€™â€™[J. Acoust. Soc. Am. 84, 1378â€“1387 (1988)]. Journal of the Acoustical Society of America, 1992, 91, 505-506.	1.1	0
58	Science funding. Science, 1991, 252, 490-490.	12.6	0
59	Universal particle acceleration. Astrophysical Journal, 1991, 367, 407.	4.5	26
60	V1500 Cygni - A prediction. Astrophysical Journal, 1991, 374, L59.	4.5	3
61	Do AM Hercules white dwarfs have toroidal internal fields?. Monthly Notices of the Royal Astronomical Society, 1989, 239, 751-758.	4.4	26
62	Pulsar structure. Nature, 1989, 339, 263-264.	27.8	2
63	A model of propagating brittle failure in heterogeneous media. Journal of Geophysical Research, 1986, 91, 10412-10420.	3.3	39
64	Atmospheric humidity in the nuclear winter. Nature, 1984, 311, 417-417.	27.8	2
65	Physical processes in gamma-ray bursts. Astrophysical Journal, 1982, 260, 371.	4.5	44
66	Nodding motions of accretion rings and disks - A short-term period in SS 433. Astrophysical Journal, 1982, 260, 780.	4.5	91
67	Acceleration, radiation and precession in SS 433. Astrophysical Journal, 1980, 236, L127.	4.5	69
68	Synchronous rotation in magnetic X-ray binaries. Astrophysical Journal, 1979, 230, 176.	4.5	48
69	X-rays from spherical accretion onto degenerate dwarfs. Astrophysical Journal, 1977, 215, 265.	4.5	80
70	Two kinds of stellar collapse. Nature, 1975, 253, 698-699.	27.8	186
71	Thirty-five-day Periodicity in Her X-1. Nature: Physical Science, 1973, 246, 87-89.	0.8	105
72	Painting Asteroids for Planetary Defense. Journal of the Astronautical Sciences, 0, , .	1.5	0