Jonathon Koczz

List of Publications by Year
in descending order

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Version: 2024-02-01

34	2,767	304743	395702
papers	citations	22 h-index	33 g-index

34	34	34	2635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A fast radio burst associated with a Galactic magnetar. Nature, 2020, 587, 59-62.	27.8	417
2	The Parkes Pulsar Timing Array Project. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	350
3	The Murchison Widefield Array: Design Overview. Proceedings of the IEEE, 2009, 97, 1497-1506.	21.3	311
4	A fast radio burst localized to a massive galaxy. Nature, 2019, 572, 352-354.	27.8	252
5	A real-time fast radio burst: polarization detection and multiwavelength follow-up. Monthly Notices of the Royal Astronomical Society, 2015, 447, 246-255.	4.4	236
6	Measurement and correction of variations in interstellar dispersion in high-precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2013, 429, 2161-2174.	4.4	174
7	Development of a pulsar-based time-scale. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2780-2787.	4.4	163
8	Bayesian constraints on the global 21-cm signal from the Cosmic Dawn. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2847-2855.	4.4	100
9	Design and characterization of the Large-aperture Experiment to Detect the Dark Age (LEDA) radiometer systems. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	91
10	The 21 cm Power Spectrum from the Cosmic Dawn: First Results from the OVRO-LWA. Astronomical Journal, 2019, 158, 84.	4.7	72
11	The Radio Sky at Meter Wavelengths: m-mode Analysis Imaging with the OVRO-LWA. Astronomical Journal, 2018, 156, 32.	4.7	62
12	Field Deployment of Prototype Antenna Tiles for the Mileura Widefield Array Low Frequency Demonstrator. Astronomical Journal, 2007, 133, 1505-1518.	4.7	45
13	Interferometric Imaging with the 32 Element Murchison Wide-Field Array. Publications of the Astronomical Society of the Pacific, 2010, 122, 1353-1366.	3.1	45
14	Digital Signal Processing Using Stream High Performance Computing. Journal of Astronomical Instrumentation, 2015, 04, .	1.5	40
15	Simultaneous X-Ray and Radio Observations of the Repeating Fast Radio Burst FRB â^¼ 180916.J0158+65. Astrophysical Journal, 2020, 901, 165.	4.5	38
16	STARE2: Detecting Fast Radio Bursts in the Milky Way. Publications of the Astronomical Society of the Pacific, 2020, 132, 034202.	3.1	37
17	DSA-10: a prototype array for localizing fast radio bursts. Monthly Notices of the Royal Astronomical Society, 2019, 489, 919-927.	4.4	36
18	Enhanced pulsar and single pulse detection via automated radio frequency interference detection in multipixel feeds. Monthly Notices of the Royal Astronomical Society, 2012, 420, 271-278.	4.4	34

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19	RADIO FREQUENCY INTERFERENCE REMOVAL THROUGH THE APPLICATION OF SPATIAL FILTERING TECHNIQUES ON THE PARKES MULTIBEAM RECEIVER. Astronomical Journal, 2010, 140, 2086-2094.	4.7	32
20	Pulse Morphology of the Galactic Center Magnetar PSRÂJ1745â€“2900. Astrophysical Journal, 2018, 866, 160.	4.5	31
21	POST-OUTBURST RADIO OBSERVATIONS OF THE HIGH MAGNETIC FIELD PULSAR PSR J1119-6127. Astrophysical Journal Letters, 2017, 834, L2.	8.3	30
22	Detection of Crab Giant Pulses Using the Mileura Widefield Array Low Frequency Demonstrator Field Prototype System. Astrophysical Journal, 2007, 665, 618-627.	4.5	24
23	A Simultaneous Search for Prompt Radio Emission Associated with the Short GRB 170112A Using the All-sky Imaging Capability of the OVRO-LWA. Astrophysical Journal, 2018, 864, 22.	4.5	24
24	A Dual-band Radio Observation of FRB 121102 with the Deep Space Network and the Detection of Multiple Bursts. Astrophysical Journal Letters, 2020, 897, L4.	8.3	22
25	Multiwavelength Radio Observations of Two Repeating Fast Radio Burst Sources: FRBÂ121102 and FRBÂ180916.J0158+65. Astrophysical Journal Letters, 2020, 905, L27.	8.3	20
26	Overview of technical approaches to radio frequency interference mitigation. Radio Science, 2005, 40, n/a-n/a.	1.6	16
27	A SCALABLE HYBRID FPGA/GPU FX CORRELATOR. Journal of Astronomical Instrumentation, 2014, 03, .	1.5	14
28	New Limits on the Low-frequency Radio Transient Sky Using 31 hr of All-sky Data with the OVROâ€“LWA. Astrophysical Journal, 2019, 886, 123.	4.5	13
29	Development of an On-Board Wide-Band Processor for Radio Frequency Interference Detection and Filtering. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3191-3203.	6.3	10
30	Real-Time Detection and Filtering of Radio Frequency Interference Onboard a Spaceborne Microwave Radiometer: The CubeRRT Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1610-1624.	4.9	10
31	Self-triggered radio detection and identification of cosmic air showers with the OVRO-LWA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 953, 163086.	1.6	8
32	Introduction to the Special Issue on Digital Signal Processing in Radio Astronomy. Journal of Astronomical Instrumentation, 2016, 05, .	1.5	7
33	A Broadband Digital Spectrometer for the Deep Space Network. Astrophysical Journal, Supplement Series, 2020, 251, 1.	7.7	2
34	Pulsar Timing at the Deep Space Network. Journal of Astronomical Instrumentation, 2016, 05, 1641013.	1.5	1