

# Nicholas Jordan

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

789  
citations

516561

16  
h-index

552653

26  
g-index

103  
all docs

103  
docs citations

103  
times ranked

490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric field and electron orbits near a triple point. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	91
2	A Primer on Pulsed Power and Linear Transformer Drivers for High Energy Density Physics Applications. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 3928-3967.	0.6	57
3	Magnetic priming effects on noise, startup, and mode competition in magnetrons. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 94-102.	0.6	41
4	The effects of multipactor on the quality of a complex signal propagating in a transmission line. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	37
5	Magnetron priming by multiple cathodes. <i>Applied Physics Letters</i> , 2005, 87, 081501.	1.5	33
6	Evolution of sausage and helical modes in magnetized thin-foil cylindrical liners driven by a Z-pinch. <i>Physics of Plasmas</i> , 2018, 25, 056307.	0.7	32
7	Discrete helical modes in imploding and exploding cylindrical, magnetized liners. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	30
8	Magnetic Priming at the Cathode of a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 710-717.	0.6	27
9	Seeded and unseeded helical modes in magnetized, non-imploding cylindrical liner-plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	24
10	CST Particle Studio Simulations of Coaxial Multipactor and Comparison With Experiments. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 1942-1949.	0.6	24
11	Measurement of electron impact collisional excitation cross sections of Ni to Ga-Like Gold. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 235, 231-234.	0.6	22
12	Radio frequency priming of a long-pulse relativistic magnetron. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 627-634.	0.6	22
13	Accurate Wavelength Measurements and Modeling of Fe xv to Fe xix Spectra Recorded in High-Density Plasmas between 13.5 and 17 Å. <i>Astrophysical Journal, Supplement Series</i> , 2005, 158, 230-241.	3.0	20
14	Magnetic Perturbation Effects on Noise and Startup in DC-Operating Oven Magnetrons. <i>IEEE Transactions on Electron Devices</i> , 2005, 52, 864-871.	1.6	18
15	Explicit Brillouin Flow Solutions in Magnetrons, Magnetically Insulated Line Oscillators, and Radial Magnetically Insulated Transmission Lines. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 3418-3437.	0.6	18
16	Emission nonuniformity due to profilometry variation in thermionic cathodes. <i>Applied Physics Letters</i> , 2006, 88, 164105.	1.5	16
17	Multi-frequency recirculating planar magnetrons. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	15
18	Stabilization of Liner Implosions via a Dynamic Screw Pinch. <i>Physical Review Letters</i> , 2020, 125, 035001.	2.9	15

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19	Microwave Power and Phase Measurements on a Recirculating Planar Magnetron. IEEE Transactions on Plasma Science, 2015, 43, 1675-1682.	0.6	14
20	The electro-thermal stability of tantalum relative to aluminum and titanium in cylindrical liner ablation experiments at 550 kA. Physics of Plasmas, 2018, 25, 032701.	0.7	14
21	The Electrothermal Instability on Pulsed Power Ablations of Thin Foils. IEEE Transactions on Plasma Science, 2018, 46, 3753-3765.	0.6	14
22	HFSS and CST Simulations of a GW-Class MILO. IEEE Transactions on Plasma Science, 2020, 48, 1894-1901.	0.6	14
23	Technique for fabrication of ultrathin foils in cylindrical geometry for liner-plasma implosion experiments with sub-megaampere currents. Review of Scientific Instruments, 2015, 86, 113506.	0.6	12
24	Determination of plasma pinch time and effective current radius of double planar wire array implosions from current measurements on a 1-MA linear transformer driver. Physics of Plasmas, 2016, 23, .	0.7	11
25	Theory, simulation, and experiments on a magnetically insulated line oscillator (MILO) at 10 kA, 240 kV near Hull cutoff condition. Physics of Plasmas, 2021, 28, .	0.7	11
26	Simulations of Magnetic Priming in a Relativistic Magnetron. IEEE Transactions on Electron Devices, 2005, 52, 858-863.	1.6	10
27	Metal-oxide-junction, triple point cathodes in a relativistic magnetron. Review of Scientific Instruments, 2008, 79, 064705.	0.6	9
28	Double and Single Planar Wire Arrays on University-Scale Low-Impedance LTD Generator. IEEE Transactions on Plasma Science, 2016, 44, 432-440.	0.6	9
29	Diagnostic and Power Feed Upgrades to the MAIZE Facility. IEEE Transactions on Plasma Science, 2018, 46, 3973-3981.	0.6	9
30	Harmonic Frequency Locking in the Multifrequency Recirculating Planar Magnetron. IEEE Transactions on Electron Devices, 2018, 65, 2347-2353.	1.6	9
31	Multipactor experiments on an S-band coaxial test cell. Review of Scientific Instruments, 2021, 92, 124706.	0.6	9
32	High-Power Recirculating Planar Crossed-Field Amplifier Design and Development. IEEE Transactions on Electron Devices, 2018, 65, 2361-2365.	1.6	8
33	Additively Manufactured High Power Microwave Anodes. IEEE Transactions on Plasma Science, 2016, 44, 1258-1264.	0.6	7
34	Brazed carbon fiber fabric field emission cathode. Review of Scientific Instruments, 2020, 91, 064702.	0.6	6
35	A pulsed-power implementation of "Laser Gate" for increasing laser energy coupling and fusion yield in magnetized liner inertial fusion (MagLIF). Review of Scientific Instruments, 2020, 91, 063507.	0.6	6
36	Coaxial all cavity extraction in the Recirculating Planar Magnetron. , 2014, , .		5

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37	The Electrothermal Instability On Pulsed Power Ablations Of Thin Foils. , 2017, , .		5
38	High-Power Amplification Experiments on a Recirculating Planar Crossed-Field Amplifier. IEEE Transactions on Plasma Science, 2020, 48, 1917-1922.	0.6	5
39	Liner implosion experiments driven by a dynamic screw pinch. Physics of Plasmas, 2021, 28, .	0.7	5
40	Pulse Shortening in Recirculating Planar Magnetrons. IEEE Transactions on Electron Devices, 2018, 65, 2354-2360.	1.6	4
41	Reduction of ablated surface expansion in pulsed-power-driven experiments using an aerosol dielectric coating. Physics of Plasmas, 2019, 26, 070704.	0.7	4
42	Extended magnetohydrodynamics simulations of thin-foil Z-pinch implosions with comparison to experiments. Physics of Plasmas, 2020, 27, .	0.7	4
43	Microwave oscillations in the Recirculating Planar Magnetron. , 2013, , .		3
44	Additively manufactured anodes in a relativistic Planar Magnetron. , 2016, , .		3
45	Studies of Implosion and Radiative Properties of Tungsten Planar Wire Arrays on Michiganâ€™s Linear Transformer Driver Pulsed-Power Generator. IEEE Transactions on Plasma Science, 2018, 46, 3778-3788.	0.6	3
46	Optimization of switch diagnostics on the MAIZE linear transformer driver. Review of Scientific Instruments, 2019, 90, 124707.	0.6	3
47	Frequency and Power Measurements on the Harmonic Recirculating Planar Magnetron. IEEE Transactions on Plasma Science, 2020, 48, 1868-1878.	0.6	3
48	Additively manufactured electrodes for plasma and power-flow studies in high-power transmission lines on the 1-MA MAIZE facility. Review of Scientific Instruments, 2021, 92, 053550.	0.6	3
49	Experimental harmonic characterization in the Multi-Frequency Recirculating Planar Magnetron. , 2016, , .		2
50	Pulse-shortening in recirculating planar magnetrons. , 2017, , .		2
51	A Study of Harmonic Locking Between Oscillators in a Dual Frequency Magnetron. , 2019, , .		2
52	Load dynamics of double planar foil liners and double planar wire arrays on the UM MAIZE LTD generator. Physics of Plasmas, 2021, 28, 082702.	0.7	2
53	Feedback Effects on a Recirculating Planar Crossed-Field Amplifier (RPCFA). , 2021, , .		2
54	Development of a compact LTD pulse generator for X-ray backlighting of planar foil ablation experiments. , 2013, , .		1

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55	Multi-Frequency Recirculating Planar Magnetrons. , 2014, , .		1
56	Multi-Frequency Recirculating Planar Magnetrons. , 2014, , .		1
57	Experimental progress on a prototype multifrequency recirculating planar magnetron. , 2015, , .		1
58	Harmonic frequency generation in the multi-frequency recirculating planar magnetron. , 2016, , .		1
59	Additively manufactured structures for high power microwave devices. , 2016, , .		1
60	Design and development of the recirculating crossed-field amplifier. , 2017, , .		1
61	Plasma-Based Pulse Shortening In The Recirculating Planar Magnetron*. , 2017, , .		1
62	Coaxial Multipactor Susceptibility at GHz Frequencies. , 2019, , .		1
63	Experiments on a 10 kA, 240 kV Magnetically Insulated Line Oscillator (MILO). , 2021, , .		1
64	Understanding Electrode Plasma Formation on Wires and Thin Foils Via Vacuum Ultraviolet Spectroscopy of Desorbed Surface Contaminants. , 2021, , .		1
65	Progress on the 4-cavity BLUE LTD System at the University of Michigan. , 2021, , .		1
66	Experiments on the Recirculating Planar Magnetron with Coaxial All-Cavity Extraction. , 2020, , .		1
67	Design, Simulation, and Testing of an S-Band Coaxial Multipactor Test-Cell. , 2020, , .		1
68	Measurements of the Breakdown Threshold for Coaxial Multipactor and the Delay for Multipactor Onset. , 2021, , .		1
69	Metal-Oxide-Junction, Triple-Point Cathodes for High Current Vacuum Electron Devices. , 2007, , .		0
70	Electron emission near a triple point. , 2008, , .		0
71	Electron Emission near a Triple Point. , 2008, , .		0
72	Recent progress on relativistic magnetrons. , 2009, , .		0

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73	High Current Cathodes Fabricated by KrF Laser Ablation. , 2010, , .		0
74	Multipactor-susceptible RF windows as power-tunable microwave limiters. , 2013, , .		0
75	Double and single planar wire arrays at high and low impedance university-scale generators. , 2015, , .		0
76	Experimental investigation of the effects of an axial magnetic field on the magneto Rayleigh-Taylor instability in ablating planar foil plasmas. , 2015, , .		0
77	Experimental microwave power extraction in the Multi-Frequency Recirculating Planar Magnetron. , 2015, , .		0
78	Z-Pinch plasma instability experiments on the UM linear transformer driver. , 2015, , .		0
79	Experiments on electrothermal instability as a seed for Magneto-Rayleigh-Taylor instability on accelerating, ablating foils. , 2016, , .		0
80	Experimental investigation of the effects of an axial magnetic field on the magneto Rayleigh-Taylor, sausage and kink instabilities in imploding liner-plasmas. , 2016, , .		0
81	Mixed double planar wire arrays on Michigan's Ltd generator. , 2016, , .		0
82	Electrothermal Instability Studies on a Small Pulsed Power Device. , 2017, , .		0
83	Recent Research On The Multi-Frequency Recirculating Planar Magnetron. , 2017, , .		0
84	Parametric investigation of the multi-frequency recirculating planar magnetron. , 2017, , .		0
85	Research and Development of the Recirculating Planar Crossed-Field Amplifier. , 2017, , .		0
86	Microwave gain in a recirculating planar crossed-field amplifier. , 2018, , .		0
87	Harmonic-frequency locking in planar magnetrons. , 2018, , .		0
88	The Effect of Multipactor on the Quality of a Signal. , 2019, , .		0
89	Experiments on a Recirculating Planar Crossed-Field Amplifier. , 2019, , .		0
90	Experimental Investigation of Magnetized Liner Implosions on A 1-MA Linear Transformer Driver*. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
91	Recent Experiments on the S-Band Coaxial Multipactor Test Cell*. , 2021, , .		0
92	Simulations and Experiments on Magnetically Insulated Line Oscillators at the University of Michigan. , 2020, , .		0
93	Controlled Harmonic Frequency Locking in the Harmonic Recirculating Planar Magnetron. , 2020, , .		0
94	Multipactor Effects on Signal Quality in Transmission Lines with Impedance Mismatches. , 2020, , .		0
95	Theory, Simulation, and Experiments on Moderate-Current Magnetically Insulated Line Oscillators. , 2021, , .		0
96	Driving a Magnetically Insulated Line Oscillator with a Linear Transformer Driver. , 2021, , .		0
97	Pulsed-Power Magnetized Jets for the Study of Star Formation. , 2020, , .		0
98	Multipactor Suppression in S-band Coaxial Transmission Lines. , 2022, , .		0
99	Effects of Pre-Ionization on Current Distribution in a Gas-Puff Z-Pinch. , 2022, , .		0
100	Pre-Ionization Considerations for FRC Formation at High Field and High Density. , 2022, , .		0
101	Multi-Frequency Harmonic Magnetically Insulated Line Oscillator. , 2022, , .		0
102	Dual Recirculating Planar Crossed-Field Amplifier Design. , 2022, , .		0