Moshe Einat

List of Publications by Year in descending order

57 papers	513 citations	623188 14 h-index	794141 19 g-index
57 all docs	57 docs citations	57 times ranked	356 citing authors

#	Article	IF	Citations
1	Normal and anomalous Doppler effects in a dielectric-loaded stripline cyclotron-resonance maser oscillator. Physical Review E, 1997, 56, 5996-6001.	0.8	30
2	Non-Imaging MM-Wave FMCW Sensor for Pedestrian Detection. IEEE Sensors Journal, 2014, 14, 1232-1237.	2.4	29
3	Demonstration of microwave generation by a ferroelectric-cathode tube. Applied Physics Letters, 1999, 74, 335-337.	1.5	27
4	Detecting Hidden Objects on Human Body Using Active Millimeter Wave Sensor. IEEE Sensors Journal, 2010, 10, 1746-1752.	2.4	24
5	Lifetime of ferroelectric Pb(Zr,â€ŠTi)O3 ceramic cathodes with high current density. Journal of Applied Physics, 2001, 89, 548-552.	1.1	22
6	95ÂGHz Gyrotron with Ferroelectric Cathode. Physical Review Letters, 2012, 109, 185101.	2.9	22
7	Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body. IEEE Sensors Journal, 2013, 13, 4224-4228.	2.4	21
8	Design of 95 GHz gyrotron based on continuous operation copper solenoid with water cooling. Review of Scientific Instruments, 2014, 85, 074702.	0.6	20
9	Copper Solenoid Design for the Continuous Operation of a Second Harmonic 95-GHz Gyrotron. IEEE Transactions on Electron Devices, 2014, 61, 3309-3316.	1.6	20
10	Reluctance Launcher Coil-Gun Simulations and Experiment. IEEE Transactions on Plasma Science, 2019, 47, 1358-1363.	0.6	20
11	Microboiling Measurements of Thermal-Inkjet Heaters. Journal of Microelectromechanical Systems, 2010, 19, 391-395.	1.7	18
12	High-repetition-rate ferroelectric-cathode gyrotron. Applied Physics Letters, 2001, 79, 4097-4099.	1.5	16
13	Note: A 95 GHz mid-power gyrotron for medical applications measurements. Review of Scientific Instruments, 2015, 86, 016113.	0.6	16
14	A ferroelectric electron gun in a free-electron maser experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 326-330.	0.7	15
15	Characterization of a Schottky Diode Rectenna for Millimeter Wave Power Beaming Using High Power Radiation Sources. Acta Physica Polonica A, 2017, 131, 1280-1285.	0.2	13
16	Two-dimension full array high-speed ink-jet print head. Applied Physics Letters, 2006, 89, 073505.	1.5	11
17	95-GHz Gyrotron With Room Temperature dc Solenoid. IEEE Transactions on Electron Devices, 2018, 65, 3474-3478.	1.6	11
18	Spectral measurements of gyrotron oscillator with ferroelectric electron gun. Applied Physics Letters, 2002, 81, 1347-1349.	1.5	10

#	Article	IF	Citations
19	Radiation measurements in the new tandem accelerator FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 23-27.	0.7	10
20	A microwave gyro amplifier with a ferroelectric cathode. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 1227-1230.	2.9	9
21	Lifetime extension of ferroelectric cathodes for microwave tubes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 636, 8-12.	0.7	9
22	Induced static magnetic field by a cellular phone. Applied Physics Letters, 2011, 99, .	1.5	9
23	High efficiency Lifter based on the Biefeld-Brown effect. AIP Advances, 2014, 4, .	0.6	9
24	Dielectric-loaded free-electron maser in a stripline structure. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 21-25.	0.7	8
25	A Trial Experiment on Water-Cooled 1.8-T 50% Duty Solenoid. IEEE Transactions on Electron Devices, 2017, 64, 2683-2687.	1.6	8
26	Coherence limits and chirp control in long pulse free electron laser oscillator. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	7
27	23 GHz ferroelectric electron gun based gyrotron. Applied Physics Letters, 2011, 98, 173506.	1.5	7
28	Gyrotron With Dual Electrode Ferroelectric Cathode Operating at High Repetition Rate and Long Pulse. IEEE Transactions on Electron Devices, 2014, 61, 921-925.	1.6	7
29	75 m/s simulation and experiment of two-stage reluctance coilgun. Journal of Mechanical Science and Technology, 2022, 36, 1123-1130.	0.7	7
30	A Long Cavity With Reduced Diffraction <inline-formula> <tex-math notation="LaTeX">Q </tex-math></inline-formula> for Subterahertz and Terahertz Gyrotrons. IEEE Transactions on Plasma Science, 2015, 43, 2598-2606.	0.6	6
31	Spaced Bitter Solenoid Design for a Continuous Wave 95-GHz Gyrotron. IEEE Transactions on Electron Devices, 2016, 63, 1333-1339.	1.6	6
32	Free-electron maser driven by a two-stage ferroelectric electron gun. Journal of Applied Physics, 2003, 93, 2304-2306.	1.1	5
33	High-Power Millimeter Wave Direct Detection by Glow Discharge Detector. IEEE Transactions on Electron Devices, 2017, 64, 2670-2674.	1.6	5
34	Thin-Film MEMS Resistors with Enhanced Lifetime for Thermal Inkjet. Micromachines, 2020, 11, 499.	1.4	5
35	Corona and polio viruses are sensitive to short pulses of W-band gyrotron radiation. Environmental Chemistry Letters, 2021, 19, 3967-3972.	8.3	5
36	Cyclotron resonance maser experiment in a nondispersive waveguide. IEEE Transactions on Plasma Science, 1996, 24, 816-824.	0.6	4

#	ARTICLE	IF	CITATIONS
37	Passive mm-wave Sensor for In-Door and Out-Door Homeland Security Applications. , 2007, , .		4
38	Millimeter-wave insertion loss of mice skin. Journal of Electromagnetic Waves and Applications, 2018, 32, 758-767.	1.0	4
39	Long-Pulse Uncooled Copper Magnet for Gyrotron. IEEE Transactions on Electron Devices, 2019, 66, 4928-4931.	1.6	4
40	The Effects of Instruction Manipulation on Motor Performance Following Action Observation. Frontiers in Human Neuroscience, 2020, 14, 33.	1.0	4
41	High-Average-Power Second Harmonic <i>W</i>-Band Gyrotron With Room-Temperature Solenoid. IEEE Transactions on Electron Devices, 2020, 67, 1804-1807.	1.6	4
42	Initial results of 95 GHz gyrotron with water cooled magnet. , 2016, , .		3
43	Frequency-Replaceable Ferroelectric Cathode Gyrotron for the Entire Ka-Band Using Replaceable Resonator. IEEE Transactions on Electron Devices, 2016, 63, 2097-2103.	1.6	3
44	Radiation Power Out-Coupling Optimization of a Free Electron Laser Oscillator. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-9.	2.9	3
45	2D segmented large inkjet printhead for high speed 3D printers. Journal of Micromechanics and Microengineering, 2015, 25, 055012.	1.5	2
46	Experimental Study of 50-kV/3.5-A Hollow Electron Beam Produced by Ferroelectric Cathode. IEEE Transactions on Electron Devices, 2016, 63, 2156-2162.	1.6	2
47	Investigation on a 220 GHz Quasi-Optical Antenna for Wireless Power Transmission. Electronics (Switzerland), 2021, 10, 634.	1.8	2
48	Free-electron maser operation at the 1 GHz/1 keV regime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 186-189.	0.7	1
49	The ferroelectric cathode. IEEE Potentials, 2002, 21, 8-11.	0.2	1
50	Anomalous free electron laser interaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 482-487.	0.7	1
51	Ferroelectric Cathode Electron Emission Dependence on Magnetic Field. IEEE Transactions on Electron Devices, 2014, 61, 4268-4272.	1.6	1
52	Fluid Micro-Reservoirs Array Design with Auto-Pressure Regulation for High-Speed 3D Printers. Micromachines, 2016, 7, 202.	1.4	1
53	95 GHz gyrotron with water cooled magnet and high average power. , 2019, , .		1
54	Digital Signal Detection by a Glow Discharge Detector. IEEE Transactions on Plasma Science, 2019, 47, 95-99.	0.6	1

#	ARTICLE	IF	CITATIONS
55	Wide Band MM-Wave Sensor: design and applications. , 2006, , .		0
56	Ferroelectric cathode for mmw gyrotrons. , 2016, , .		0
57	Possibility of Effective High-Frequency Generation in Low-Voltage Gyrotrons at the Second Cyclotron Harmonic. Radiophysics and Quantum Electronics, 2018, 61, 204-215.	0.1	0