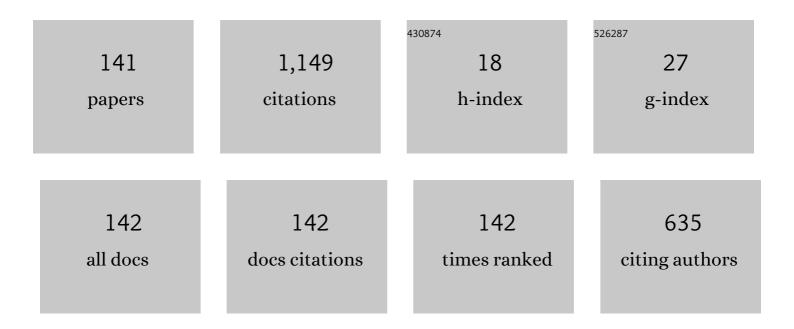
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	EHF for Satellite Communications: The New Broadband Frontier. Proceedings of the IEEE, 2011, 99, 1858-1881.	21.3	118
2	Superradiant and Stimulated Superradiant Emission in a Prebunched Beam Free-Electron Maser. Physical Review Letters, 2001, 86, 2561-2564.	7.8	34
3	Superradiant and stimulated-superradiant emission in prebunched electron-beam radiators. II. Radiation enhancement schemes. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	33
4	Propagation of ultra wide-band signals in lossy dispersive media. , 2008, , .		32
5	Three-dimensional coupled-mode theory of free-electron lasers in the collective regime. Physical Review E, 1995, 51, 2472-2479.	2.1	30
6	Non-Imaging MM-Wave FMCW Sensor for Pedestrian Detection. IEEE Sensors Journal, 2014, 14, 1232-1237.	4.7	29
7	Study of Ultrawide-Band Transmission in the Extremely High Frequency (EHF) Band. IEEE Transactions on Antennas and Propagation, 2004, 52, 2833-2842.	5.1	28
8	Space-frequency model of ultrawide-band interactions in free-electron lasers. Physical Review E, 2005, 71, 036503.	2.1	27
9	Dark Antibacterial Activity of Rose Bengal. International Journal of Molecular Sciences, 2019, 20, 3196.	4.1	27
10	Generalized theory and simulation of spontaneous and super-radiant emissions in electron devices and free-electron lasers. Physical Review E, 2002, 65, 026501.	2.1	26
11	Millimeter Wave High Resolution Radar Accuracy in Fog Conditions—Theory and Experimental Verification. Sensors, 2018, 18, 2148.	3.8	26
12	Enhanced super-radiance from energy-modulated short electron bunch free-electron lasers. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	25
13	330 GHz FMCW Image Sensor for Homeland Security Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 1370-1381.	2.2	25
14	Atmospheric and Fog Effects on Ultra-Wide Band Radar Operating at Extremely High Frequencies. Sensors, 2016, 16, 751.	3.8	25
15	Propagation properties of sub-millimeter waves in foggy conditions. Journal of Applied Physics, 2019, 125, .	2.5	24
16	Free electron maser experiment with a prebunched beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, 82-85.	1.6	21
17	High Spectral Coherence in Long-Pulse and Continuous Free-Electron Laser: Measurements and Theoretical Limitations. Physical Review Letters, 1999, 82, 5257-5260.	7.8	20
18	Resonator design and characterization for the Israeli tandem electrostatic FEL project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, 323-326.	1.6	19

#	Article	IF	CITATIONS
19	Three-dimensional codes for simulating electron beam transport and free-electron laser operation including space-charge effects. International Journal of Electronics, 1995, 78, 581-590.	1.4	19
20	Theory and simulation of transverse supermode evolution in a free-electron laser oscillator. Physical Review E, 1996, 54, 6774-6779.	2.1	19
21	Selective amplification of the lower-frequency branch via stimulated super-radiance in a waveguided free electron laser oscillator driven by short electron bunches. Applied Physics Letters, 2010, 97, 231109.	3.3	18
22	Measurements and simulation of the radiation build-up process in a prebunched free-electron maser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 164-168.	1.6	16
23	Study of waveguide resonators for FEL operating at submillimeter wavelengths. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 260-263.	1.6	16
24	Propagation analysis of ultrashort pulses in resonant dielectric media. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2404.	2.1	16
25	Multi Ray Model for Near-Ground Millimeter Wave Radar. Sensors, 2017, 17, 1983.	3.8	16
26	Transverse mode excitation and coupling in a waveguide free electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 318, 523-527.	1.6	14
27	Super-radiance in a prebunched beam free electron maser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 445, 247-252.	1.6	14
28	Model and simulation of wide-band interaction in free-electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 147-152.	1.6	14
29	Single pass, THz spectral range free-electron laser driven by a photocathode hybrid rf linear accelerator. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	14
30	Efficiency enhancement of free electron Maser oscillator by mode selection with a prebunched electron beam. Applied Physics Letters, 2000, 76, 16-18.	3.3	13
31	Characterization of a Schottky Diode Rectenna for Millimeter Wave Power Beaming Using High Power Radiation Sources. Acta Physica Polonica A, 2017, 131, 1280-1285.	O.5	13
32	Coupled-mode theory of Langmuir space-charge waves for general electron-beam and waveguide cross sections. Physical Review E, 1993, 48, 3925-3929.	2.1	12
33	Lasing and radiation-mode dynamics in a Van de Graaff accelerator–free-electron laser with an internal cavity. Applied Physics Letters, 1997, 71, 3776-3778.	3.3	12
34	Linear FM radar operating in the Tera-Hertz regime for concealed objects detection. , 2009, , .		12
35	W-Band Rectenna Coupled With Low-Barrier Mott Diode. IEEE Microwave and Wireless Components Letters, 2016, 26, 637-639.	3.2	11
36	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.	1.6	10

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37	FMCW MM-wave non-imaging sensor for detecting hidden objects. , 2011, , .		10
38	Atmospheric Effects on Millimeter and Sub-millimeter (THz) Satellite Communication Paths. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 219-230.	2.2	10
39	Time-Frequency Spectral Signature of Limb Movements and Height Estimation Using Micro-Doppler Millimeter-Wave Radar. Sensors, 2020, 20, 4660.	3.8	10
40	Efficient electrostatic-accelerator free-electron masers for atmospheric power beaming. IEEE Transactions on Plasma Science, 1996, 24, 1050-1057.	1.3	9
41	First operation of the Israeli Tandem Electrostatic Accelerator Free-Electron Laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 16-20.	1.6	9
42	Spectral characteristics of gaseous media and their effects on propagation of ultra-wideband radiation in the millimeter wavelengths. Journal of Non-Crystalline Solids, 2005, 351, 2925-2928.	3.1	9
43	A New Approach for the Characterization of Nonstationary Oscillators Using the Wigner-Ville Distribution. Mathematical Problems in Engineering, 2018, 2018, 1-14.	1.1	9
44	The Israeli tandem electrostatic accelerator FEL - status report. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 331, ABS20.	1.6	8
45	Diagnostics and electron-optics of a high current electron beam in the Tandem free electron laser — status report. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, ABS1-ABS3.	1.6	8
46	Visualization and simulation of electron beam transport along a FEL planar wiggler. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 419-425.	1.6	8
47	Scaled Modeling and Measurement for Studying Radio Wave Propagation in Tunnels. Electronics (Switzerland), 2021, 10, 53.	3.1	8
48	Spontaneous emission in waveguide free-electron masers near waveguide cutoff. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 316-322.	1.6	7
49	Performance improvement of FEMs by prebunching of the electron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 361-365.	1.6	7
50	Simulation of predicted performance and interpretation of radiation measurements on the Israeli tandem free-electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 81-86.	1.6	7
51	Free electron maser oscillations near waveguide cutoff. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 95-101.	1.6	7
52	Power, bistability and post-saturation optimization in a pre-bunched free electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 445, 28-33.	1.6	7
53	Optimization of power output and study of electron beam energy spread in a Free Electron Laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 579-582.	1.6	7
54	Space-frequency model of amplified spontaneous emission and super-radiance in free-electron laser operating in the linear and non-linear regimes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 510-515.	1.6	7

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55	Coherence limits and chirp control in long pulse free electron laser oscillator. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	7
56	Detection of Low RCS Supersonic Flying Targets with a High-Resolution MMW Radar. Sensors, 2020, 20, 3284.	3.8	7
57	A unified analysis of spontaneous and super-radiant emissions in free-electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 343-347.	1.6	6
58	Experimental investigation of mode build-up and mode competition process in a prebunched free-electron maser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 87-94.	1.6	6
59	Spectral and variational principles of electromagnetic field excitation in wave guides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 344, 18-28.	2.1	6
60	Complex Permittivity Measurements of Textiles and Leather in a Free Space: An Angular-Invariant Approach. International Journal of Microwave Science and Technology, 2012, 2012, 1-7.	0.6	6
61	Identifying low-RCS targets using micro-Doppler high-resolution radar in the millimeter waves. , 2020, , .		6
62	Experimental Study of Fog and Suspended Water Effects on the 5G Millimeter Wave Communication Channel. Electronics (Switzerland), 2020, 9, 720.	3.1	6
63	A novel free-electron maser as a high power microwave source of sophisticated signals. , 0, , .		5
64	Transverse mode coupling and supermode establishment in a free-electron laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 233-236.	1.6	5
65	Millimeter Wave Propagation in Long Corridors and Tunnels—Theoretical Model and Experimental Verification. Electronics (Switzerland), 2020, 9, 707.	3.1	5
66	A free-electron maser for thermonuclear fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 318, 16-19.	1.6	4
67	A generalized analysis of binary halftone representation of images. Optics Communications, 1993, 101, 277-285.	2.1	4
68	The Israeli tandem electrostatic accelerator FEL — status report. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 341, ABS57-ABS58.	1.6	4
69	Study of radiation spectrum in a free-electron laser oscillator from noise to saturation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 62-66.	1.6	4
70	A new THz FEL development project. , 2008, , .		4
71	Measurement of Complex Permittivity of Lossy Materials in Free Space Using Matched THz Power Meter. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 1446-1456.	2.2	4
72	Constant Envelope Phase Modulation Inspired by Orthogonal Waveforms. IEEE Communications Letters, 2016, 20, 2169-2172.	4.1	4

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73	Quasi Optical Multi-Ray Model For Wireless Communication Link in Millimeter Wavelengths. MATEC Web of Conferences, 2018, 210, 03006.	0.2	4
74	Study of 5G-NR-MIMO Links in the Presence of an Interferer. Electronics (Switzerland), 2021, 10, 732.	3.1	4
75	Mode-locked super-radiant free-electron laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, 86-89.	1.6	3
76	Enhancement of FEM radiation by prebunching of the e-beam (stimulated super-radiance). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 303-307.	1.6	3
77	Control of wave propagation in a dielectric medium by tailoring its dispersive properties. Journal of Non-Crystalline Solids, 2005, 351, 2922-2924.	3.1	3
78	THz characterization of lossy materials using multi-layers measuring cell. , 2008, , .		3
79	Modal description of longitudinal space-charge fields in pulse-driven free-electron devices. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	3
80	Quasi-noise illumination in mm-wave imaging: From concept to realization. , 2012, , .		3
81	Ultra wideband wireless satellite communications in the 94 GHz band. , 2012, , .		3
82	Short circuit fault detection in two wire transmission line. , 2016, , .		3
83	Atmospheric Effects on OFDM Wireless Links Operating in the Millimeter Wave Regime. Electronics (Switzerland), 2020, 9, 1598.	3.1	3
84	Characterization of Nonstationary Phase Noise Using the Wigner–Ville Distribution. Mathematical Problems in Engineering, 2020, 2020, 1-7.	1.1	3
85	Microwave Spectroscopy as a Potential Tool for Color Grading Diamonds. Energies, 2021, 14, 3507.	3.1	3
86	Dielectric Characterization of Fog in the Terahertz Regime. Acta Physica Polonica A, 2019, 136, 749-753.	0.5	3
87	Tracking of Evasive Objects Using Bistatic Doppler Radar Operating in the Millimeter Wave Regime. Remote Sensing, 2022, 14, 867.	4.0	3
88	Gain analysis of a strong-pump FEL operating at the fundamental and high harmonics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 304, 481-486.	1.6	2
89	The Israeli tandem electrostatic accelerator FEL — status report. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, ABS7-ABS8.	1.6	2
90	Efficiency enhancement of a pre-bunched free-electron maser oscillator by locking to a single eigen frequency of the resonator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 429, 107-110.	1.6	2

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91	Enhanced super-radiant emission of FEM near waveguide-cutoff and near zero-slippage conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 220-224.	1.6	2
92	Application of the matched THz power meter for material characterization in free space. , 2011, , .		2
93	W-band Imaging Detector with Incoherent Illumination. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 556-565.	2.2	2
94	Millimetre wavelength variable focusing antenna for power beaming and active denial systems. IET Microwaves, Antennas and Propagation, 2015, 9, 1167-1172.	1.4	2
95	Coherent Integration Loss Due to Nonstationary Phase Noise in High-Resolution Millimeter-Wave Radars. Remote Sensing, 2021, 13, 1755.	4.0	2
96	Prebunched-beam free electron maser. , 1994, , .		1
97	Theoretical investigation of a free-electron maser operating with a TEM transmission line. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 607-613.	4.6	1
98	<title>Israeli tandem FEL: first-lasing results and future plans</title> . , 1997, , .		1
99	Optimization of the electron-beam transport in the Israeli tandem FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 350-355.	1.6	1
100	Electrostatic-Accelerator Free-Electron Lasers. , 2005, , 378-390.		1
101	Backward Wave Excitation and Generation of Oscillations in Free-Electron Lasers in the Absence of Feedback—Beyond the High Gain Approximation. IEEE Journal of Quantum Electronics, 2007, 43, 849-854.	1.9	1
102	Covariant formulation of the dynamics in a dissipative quantum dielectric obtained from a simplified Lagrangian. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2941-2948.	2.1	1
103	Single pixel THz detector for remote imaging. , 2009, , .		1
104	Transmission through multiple layers in UWB and narrow band communications. , 2009, , .		1
105	Detecting power lines using 330GHz FMCW sensor. , 2011, , .		1
106	Variable focusing antenna for wireless power transmission and remote sensing at millimeter wavelengths. , 2012, , .		1
107	Constant Envelope Modulation Techniques for Limited Power Millimeter Wave Links. Electronics (Switzerland), 2019, 8, 1521.	3.1	1
108	Effectiveness of Various 5G Modulation Techniques in Different Weather Conditions. , 2019, , .		1

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#	Article	IF	CITATIONS
109	Digital Signal Detection by a Glow Discharge Detector. IEEE Transactions on Plasma Science, 2019, 47, 95-99.	1.3	1
110	Optimization of the electron-beam transport in the Israeli tandem FEL. , 1998, , 350-355.		1
111	Super Directional Antenna—3D Phased Array Antenna Based on Directional Elements. Electronics (Switzerland), 2022, 11, 2233.	3.1	1
112	<title>Novel concepts for high-power electrostatic accelerator free-electron lasers</title> ., 1995, , .		0
113	Versatile FEM of high efficiency and high spectral purity. , 0, , .		0
114	Design and development of the TAU Tandem FEL. , 0, , .		0
115	Beam dynamics in the 1.4 MeV tandem accelerator of the TAU FEL. , 0, , .		0
116	First lasing of the Israeli tandem electrostatic accelerator free electron laser. , 0, , .		0
117	Study of radiation build-up and spectral evolution in the Israeli electrostatic accelerator free-electron laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 429, 101-106.	1.6	0
118	Study of radiation build up and mode evolution in the Israeli electrostatic accelerator free-electron laser oscillator. IEEE Transactions on Plasma Science, 1999, 27, 563-567.	1.3	0
119	Analysis of linear system response to wide band signals with applications to filters. , 0, , .		0
120	Statistical study of undulator radiated power by a classical detection system in the mm-wave regime. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	0
121	Sub-MM wave imager based on horn antennas with focusing lenses. , 2010, , .		0
122	Monitoring of atmosphere attenuation in W-band. , 2012, , .		0
123	Microwave target enhancement using the perspectives of multiple-angular images. , 2012, , .		0
124	A Systematic Approach for Calculating the Symbol Error Rate for the Entire Range of above and below the Threshold Point for the CE-OFDM System. Mathematical Problems in Engineering, 2013, 2013, 1-11.	1.1	0
125	Millimeter-Wave Imager With Multi-Source Noise Illumination. IEEE Sensors Journal, 2016, 16, 1325-1332.	4.7	0

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127	Characterization of Diamond Colors via Microwave Spectroscopy. , 2019, , .		0
128	Study of radiation spectrum in a free-electron laser oscillator from noise to saturation. , 2004, , 62-66.		0
129	Space Charge Effects in a Prebunched Beam Free Electron Maser (FEM). , 2004, , II-25-II-26.		0
130	Radiation measurements in the new tandem accelerator FEL. , 2004, , 23-27.		0
131	CONTROL OF INTENSE MILLIMETER WAVE PROPAGATION BY TAILORING THE DISPERSIVE PROPERTIES OF THE MEDIUM. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2005, , 219-239.	0.1	0
132	Coupled-Mode Theory of Electromagnetism including Wide Band Distributed Interactions. , 2011, , 55-85.		0
133	First operation of the Israeli Tandem Electrostatic Accelerator Free-Electron Laser. , 1998, , 16-20.		0
134	Experimental investigation of mode build-up and mode competition process in a prebunched free-electron maser oscillator. , 1998, , 87-94.		0
135	Free electron maser oscillations near waveguide cutoff. , 1998, , 95-101.		0
136	Simulation of predicted performance and interpretation of radiation measurements on the Israeli tandem free-electron laser. , 1998, , 81-86.		0
137	Generation of Intense Free-Electron Laser Radiation in the Terahertz Regime. Acta Physica Polonica A, 2015, 128, 315-319.	0.5	0
138	Microwave spectroscopy as a potential tool for characterizing synthetic HPHT diamonds. CrystEngComm, 2022, 24, 1849-1858.	2.6	0
139	Real-Time Fault Location Using the Retardation Method. Electronics (Switzerland), 2022, 11, 980.	3.1	0
140	Retardation in Service of Real Time Fault Detection and Location. , 2021, , .		0
141	High-Resolution Delay Spread of Wide-Band Wireless Link in Long Tunnels—Theory and Experimental Verification. Electronics (Switzerland), 2022, 11, 2140.	3.1	0