

Juntao He

List of Publications by Year in descending order

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50
papers

574
citations

623734

14
h-index

642732

23
g-index

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all docs

50
docs citations

50
times ranked

223
citing authors

#	ARTICLE	IF	CITATIONS
1	Research on a Low-Magnetic Field High-Efficiency Transit-Time Oscillator With Two Bunchers. IEEE Transactions on Plasma Science, 2022, 50, 656-661.	1.3	4
2	A novel all-metal metamaterial for constructing relativistic slow wave structure. AIP Advances, 2022, 12, 035345.	1.3	1
3	Research on coaxial transit time oscillator with low magnetic field and high efficiency. AIP Advances, 2022, 12, 075017.	1.3	0
4	A two-buncher high-efficiency transit-time oscillator with a low guiding magnetic field. AIP Advances, 2021, 11, 065127.	1.3	0
5	Theoretical analysis and experimental verification of electron beam transmission with low guiding magnetic field in V-band coaxial transit-time oscillator. Physics of Plasmas, 2021, 28, .	1.9	4
6	A novel metamaterial slow wave structure with larger space-charge-limited current. Physics of Plasmas, 2021, 28, .	1.9	3
7	A novel dual-band nested transit time oscillator. AIP Advances, 2021, 11, .	1.3	6
8	A novel Ka-band coaxial transit time oscillator with internal extraction. Review of Scientific Instruments, 2021, 92, 094704.	1.3	1
9	Efficiency Enhancement of a High Power Radial-Line Relativistic Klystron Amplifier Driven by Disk Intense Electron Beam. IEEE Transactions on Electron Devices, 2021, , 1-7.	3.0	2
10	A high-efficiency cross-band Cerenkov microwave generator with a resonant reflector. AIP Advances, 2021, 11, .	1.3	2
11	Preliminary research of a V-band coaxial relativistic transit-time oscillator with traveling wave output structure. Physics of Plasmas, 2021, 28, .	1.9	4
12	A Ka-band coaxial transit time oscillator with a focusing cathode. AIP Advances, 2021, 11, .	1.3	2
13	Analysis of A Non-anisotropic Metamaterial Slow Wave Structure for HPM Generation. , 2021, , .		0
14	A Cerenkov microwave generator with cross-band frequency hopping based on magnetic field tuning. Physics of Plasmas, 2020, 27, .	1.9	4
15	Design and preliminary experiment of a disk-beam relativistic klystron amplifier for Ku-band long-pulse high power microwave radiation. Physics of Plasmas, 2020, 27, .	1.9	4
16	A low-magnetic field high-efficiency high-power microwave source with novel diode structure. AIP Advances, 2020, 10, .	1.3	10
17	Progress in narrowband high-power microwave sources. Physics of Plasmas, 2020, 27, .	1.9	46
18	Field distribution and dispersion characteristics of a coaxial oversized slow wave structure with deep corrugation operating on high-order mode. AIP Advances, 2020, 10, .	1.3	3

#	ARTICLE	IF	CITATIONS
19	Design and experimental demonstration of a TEM-TE ₁₀ phase shifter for high-power microwave applications. Review of Scientific Instruments, 2019, 90, 014709.	1.3	1
20	An improved Ku-band TTO with compact solenoid and better plasma-suppressing collector. AIP Advances, 2019, 9, 025126.	1.3	2
21	A novel L-band metamaterial relativistic Cherenkov oscillator with high conversion efficiency. Physics of Plasmas, 2019, 26, .	1.9	13
22	Plasma bombardments in the diode in Ka-band coaxial transit-time oscillator. AIP Advances, 2018, 8, .	1.3	2
23	A novel L-band slow wave structure for compact and high-efficiency relativistic Cerenkov oscillator. Physics of Plasmas, 2018, 25, .	1.9	20
24	Experimental research on Ka-band coaxial transit-time oscillator. Physics of Plasmas, 2018, 25, .	1.9	17
25	Design and experimental demonstration of a circularly polarized mode converter for high-power microwave applications. Review of Scientific Instruments, 2018, 89, 084701.	1.3	9
26	A novel Ku-band relativistic transit-time oscillator with three-cavity extractor and distance-tunable reflector. Physics of Plasmas, 2017, 24, .	1.9	8
27	A relativistic backward-wave oscillator with frequency-selectable across X- and Ku-bands. Physics of Plasmas, 2017, 24, 033120.	1.9	9
28	An L-band transit-time oscillator with mechanical frequency tunability. Physics of Plasmas, 2017, 24, .	1.9	3
29	An Improved Ku-band MILO With Tapered Choke Cavity and Enlarged First Interaction Cavity. IEEE Transactions on Electron Devices, 2017, 64, 286-292.	3.0	8
30	A novel L-band coaxial transit-time oscillator with tunable frequency. AIP Advances, 2017, 7, .	1.3	2
31	Design of a slot-coupled radial line helical array antenna for high power microwave applications. AIP Advances, 2017, 7, .	1.3	5
32	Gigawatt-class microwave generation from a novel Ku-band coaxial transit-time oscillator with low guiding magnetic field. Physics of Plasmas, 2016, 23, 103103.	1.9	13
33	Analysis and Suppression of the Higher Order Competition Modes in Ku-Band Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Plasma Science, 2016, 44, 755-760.	1.3	10
34	Research progresses on Cherenkov and transit-time high-power microwave sources at NUDT. Matter and Radiation at Extremes, 2016, 1, 163-178.	3.9	65
35	An Improved K_{u} -Band Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Plasma Science, 2015, 43, 3541-3545.	1.3	4
36	A novel Ka-band coaxial transit-time oscillator with a four-gap buncher. Physics of Plasmas, 2015, 22, 053107.	1.9	23

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37	Experimental research on Ku-Band MILO. , 2015, , .		0
38	Experimental research on Ku-band magnetically insulated transmission line oscillator. Physics of Plasmas, 2015, 22, 102112.	1.9	5
39	Suppression of the asymmetric competition mode in the relativistic Ku-band coaxial transit-time oscillator. Physics of Plasmas, 2014, 21, 103108.	1.9	23
40	Improved foilless Ku-band transit-time oscillator for generating gigawatt level microwave with low guiding magnetic field. Physics of Plasmas, 2014, 21, .	1.9	17
41	Focusing electrode and coaxial reflector used for reducing the guiding magnetic field of the Ku-band foilless transit-time oscillator. Review of Scientific Instruments, 2014, 85, 084702.	1.3	18
42	A novel coaxial Ku-band transit radiation oscillator without external guiding magnetic field. Physics of Plasmas, 2014, 21, 023114.	1.9	19
43	A coaxial ku-band transit radiation oscillator without an external guiding magnetic field. , 2013, , .		1
44	High power microwave generation from the low-impedance transit-time oscillator without foils. Physics of Plasmas, 2012, 19, .	1.9	15
45	An oversized X-band transit radiation oscillator. Applied Physics Letters, 2012, 101, .	3.3	34
46	Experimental verification of a low-impedance transit-time oscillator without foils. Laser and Particle Beams, 2012, 30, 613-619.	1.0	5
47	Effects of Intense Relativistic Electron Beam on the Microwave Generation in a Foilless Low-Impedance Transit-Time Oscillator. IEEE Transactions on Plasma Science, 2012, 40, 1622-1631.	1.3	13
48	Design of a dual-frequency high-power microwave generator. Laser and Particle Beams, 2011, 29, 479-485.	1.0	20
49	Asymmetric-mode competition in a relativistic backward wave oscillator with a coaxial slow-wave structure. Applied Physics Letters, 2010, 97, .	3.3	49
50	A low-impedance transit-time oscillator without foils. Physics of Plasmas, 2009, 16, .	1.9	45