

# Jia-Ru Shi

## List of Publications by Year in descending order

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38  
papers

544  
citations

759233

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642732

23  
g-index

38  
all docs

38  
docs citations

38  
times ranked

562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	1.3	78
2	Terahertz Streaking of Few-Femtosecond Relativistic Electron Beams. Physical Review X, 2018, 8, .	8.9	61
3	Tsinghua Thomson scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S70-S74.	1.6	47
4	Cascaded high-gradient terahertz-driven acceleration of relativistic electron beams. Nature Photonics, 2021, 15, 426-430.	31.4	44
5	High-gradient breakdown studies of an $X$ -band Compact Linear Collider prototype structure. Physical Review Accelerators and Beams, 2017, 20, .	1.6	40
6	Tunable High-Intensity Electron Bunch Train Production Based on Nonlinear Longitudinal Space Charge Oscillation. Physical Review Letters, 2016, 116, 184801.	7.8	38
7	Development of S-band photocathode RF guns at Tsinghua University. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 834, 98-107.	1.6	28
8	Tuning of X-band traveling-wave accelerating structures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 704, 14-18.	1.6	20
9	Observation of Field-Emission Dependence on Stored Energy. Physical Review Letters, 2015, 115, 264802.	7.8	20
10	Choke-mode damped structure design for the Compact Linear Collider main linac. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	16
11	Observation of Dark Current Emission in a High Gradient rf Photocathode Gun. Physical Review Letters, 2016, 117, 084801.	7.8	14
12	rf design of a pulse compressor with correction cavity chain for klystron-based compact linear collider. Physical Review Accelerators and Beams, 2017, 20, .	1.6	13
13	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. Review of Scientific Instruments, 2017, 88, 045110.	1.3	11
14	Development of a $C$ -band 6A MeV standing-wave linear accelerator. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	10
15	High time resolution beam-based measurement of the rf-to-laser jitter in a photocathode rf gun. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	9
16	Study on the Efficiency of Klystrons. IEEE Transactions on Plasma Science, 2020, 48, 2089-2096.	1.3	9
17	Analytic RF design of a linear accelerator with a SLED-I type RF pulse compressor. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	3.4	8
18	Development of an S-band spherical pulse compressor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 901, 84-91.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Demonstration of a cavity-based pulse compression system for pulse shape correction. Physical Review Accelerators and Beams, 2019, 22, .	1.6	7
20	Observation of temporal evolution following laser triggered rf breakdown in vacuum. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
21	Design, fabrication, and high-gradient testing of $X$ -band choke-mode damped structures. Physical Review Accelerators and Beams, 2019, 22, .	1.6	6
22	First Demonstration and Performance of $X$ -Band High-Power Magnetron With Parallel Cathodes. IEEE Transactions on Electron Devices, 2022, 69, 3960-3965.	3.0	6
23	Novel method to measure unloaded quality factor of resonant cavities at room temperature. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	5
24	Development of high-power S-band load. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 209-213.	1.6	5
25	Development and high-gradient test of a two-half accelerator structure. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	5
26	Development of a seven-cell S-band standing-wave RF-deflecting cavity for Tsinghua Thomson scattering X-ray source. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	4
27	Beam-induced wakefield observation in $X$ -band choke-mode cavities. Physical Review Accelerators and Beams, 2016, 19, .	1.6	4
28	Power Combining of Dual $X$ -Band Coaxial Magnetrons Based on Peer-to-Peer Locking. IEEE Transactions on Electron Devices, 2021, 68, 6518-6524.	3.0	4
29	Optimization of the Compact Gamma-ray Source Based on Inverse Compton Scattering Design. , 2018, , .		3
30	Development of an L-band photocathode RF gun at Tsinghua University. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164675.	1.6	3
31	Design of the HOM MBK With Multiple-Gap Output Cavity. IEEE Transactions on Electron Devices, 2022, 69, 741-747.	3.0	3
32	Development of a high-gradient X-band RF gun with replaceable field emission cathodes for RF breakdown studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1027, 166206.	1.6	3
33	Higher-order mode absorption measurement of X-band choke-mode cavities in a radial line structure. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 814, 90-95.	1.6	2
34	Development of a high-power X-band compact RF rotary joint. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 72-77.	1.6	2
35	Analysis of beam break up instability in an S-band irradiation travelling-wave linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1010, 165556.	1.6	2
36	Tolerance study of travelling-wave accelerating structure for the main linac of the klystron-based first stage of Compact Linear Collider. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 981, 164499.	1.6	1

#	ARTICLE	IF	CITATIONS
37	Design of a source to supply ultra-fast electron and X-ray pulses. , 2007, , .		0
38	Suppression of beam break up instability on an S-band travelling-wave linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1026, 166032.	1.6	0