

# Shu-xin Zheng

## List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Mode Analysis of High-Power Microwave Generation in the Inward-Emitting Coaxial Vircator Based on Computer Simulation. IEEE Transactions on Plasma Science, 2009, 37, 298-303.	1.3	11
2	Electron emission from lead lanthanum zirconate titanate ferroelectric cathodes. Ceramics International, 2007, 33, 1155-1159.	4.8	8
3	Transverse profile tomography of a high current proton beam with a multi-wire scanner. Physical Review Accelerators and Beams, 2018, 21, .	1.6	8
4	A 3-cell deflecting RF cavity for emittance exchange experiment at ANL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 388-393.	1.6	7
5	Tuning and Cold Test of a Four-Vane RFQ with Ramped Inter-Vane Voltage for the Compact Pulsed Hadron Source. Chinese Physics Letters, 2013, 30, 052901.	3.3	7
6	IH-DTL design with modified KONUS beam dynamics for a synchrotron-based proton therapy system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 920, 50-57.	1.6	7
7	A fast tuning method for a RFQ accelerator with ramped inter-vane voltage. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 726, 91-95.	1.6	6
8	Physical design of a single-amplifier-driven proton linac injector for a synchrotron-based proton-therapy system in China. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 900, 32-39.	1.6	6
9	Beam position monitors as precise phase pickups for beam energy measurement at the Compact Pulsed Hadron Source. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	6
10	Development of a compact 325 MHz proton interdigital $H$ -mode drift tube linac with high shunt impedance. Physical Review Accelerators and Beams, 2021, 24, .	1.6	6
11	The Compact Pulsed Hadron Source: A Design Perspective. Journal of the Korean Physical Society, 2010, 56, 1928-1936.	0.7	6
12	Construction and beam commissioning of a compact proton synchrotron for space radiation environment simulation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1027, 166283.	1.6	6
13	Design of a compact ring for proton radiation applications. Chinese Physics C, 2017, 41, 017001.	3.7	5
14	Design and test of an RF acceleration system loaded with magnetic alloy for the proton synchrotron of the Xi'an Proton Application Facility. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	5
15	Four-dimensional phase space measurement using multiple two-dimensional profiles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 943, 162438.	1.6	5
16	An online bunch length and momentum spread measurement method based on multiple BPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 916, 77-82.	1.6	5
17	Fusion cross sections for fusion energy. Fusion Engineering and Design, 2006, 81, 1517-1520.	1.9	4
18	Analysis and experiments of a waveguide post's influence on photocathode RF gun. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 121-125.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Fiducialization of the small-aperture quadrupoles based on the vibrating wire method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 812, 37-42.	1.6	4
20	Radio frequency measurement and tuning of a 13 MeV Alvarez-type drift tube linac for a compact pulsed hadron source. Review of Scientific Instruments, 2019, 90, 013302.	1.3	4
21	Development of Longitudinal Coupling Impedance Measurement Platform for BEPCII. , 0, , .		3
22	Electron emission and plasma generation in a modulator electron gun using ferroelectric cathode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 566, 662-667.	1.6	3
23	Application of the asynchronous advantage actorâ€“critic machine learning algorithm to real-time accelerator tuning. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	3
24	Electron Emission from Barium Strontium Titanate Ceramics. Journal of the American Ceramic Society, 2006, 89, 060428035142028-???.	3.8	2
25	The radio-frequency design of an iris-type coupler for the CPHS radio-frequency quadrupole. Chinese Physics C, 2012, 36, 96-100.	3.7	2
26	A tuning method for nonuniform traveling-wave accelerating structures. Chinese Physics C, 2013, 37, 017003.	3.7	2
27	Effects of systematic octupole coupling resonances. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	2
28	Beam momentum spread measurement using two beam position monitors at Xiâ€™an Proton Application Facility. Review of Scientific Instruments, 2019, 90, .	1.3	2
29	RF-induced frequency-shift resistant design of the resonant cavity of the radio frequency quadrupole with the high average-power operation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 117-123.	1.6	1
30	Measurements of the integrated gradient for Halbach-type permanent magnet quadrupoles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 928, 1-6.	1.6	1
31	Analysis and simulation of the tune ripple effect on beam spill ripple in RF-KO slow extraction. Nuclear Science and Techniques/Hewuli, 2022, 33, .	3.4	1
32	Practical ferroelectric cathode. , 0, , .		0
33	2-D Low Energy Electron Beam Profile Measurement Based on Computer Tomography Algorithm with Multi-Wire Scanner. , 0, , .		0
34	Progress in Condensed Matter Nuclear Science. Journal of Fusion Energy, 2006, 25, 175-180.	1.2	0
35	Experiment on the cold test model of a 2-cell superconducting deflecting cavity for ALS at LBNL. , 2007, , .		0
36	Electron emission and phase transition of Zr-rich lead zirconate titanate ferroelectrics. Materials Letters, 2007, 61, 2439-2442.	2.6	0

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37	Development of Mini-LIA and Primary Experiments. Chinese Physics Letters, 2009, 26, 092902.	3.3	0
38	A Resistive BPM for Mini-LIA. IEEE Transactions on Plasma Science, 2009, 37, 1964-1967.	1.3	0
39	Design and experiments for the waveguide to coaxial cable adapter of a cavity beam position monitor. Chinese Physics C, 2011, 35, 79-82.	3.7	0
40	Design and cold test of a rectangular cavity beam position monitor. Chinese Physics C, 2013, 37, 017002.	3.7	0
41	Analyzing the effects of post couplers in DTL tuning by the equivalent circuit model. Chinese Physics C, 2013, 37, 127005.	3.7	0
42	Design and realization of a single klystron-based radio frequency system for a radio frequency quadrupole and a drift tube linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164136.	1.6	0