

# J E Chen

## List of Publications by Year in descending order

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59  
papers

1,051  
citations

687363

13  
h-index

414414

32  
g-index

59  
all docs

59  
docs citations

59  
times ranked

726  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deprotonation from an OH on <i>myo</i> -Inositol Promoted by $\frac{1}{4}$ -Bridges with Possible Regioselectivity/Chiral Selectivity. <i>Inorganic Chemistry</i> , 2022, 61, 6138-6148.	4.0	1
2	Ultra-High Dose Rate FLASH Irradiation Induced Radio-Resistance of Normal Fibroblast Cells Can Be Enhanced by Hypoxia and Mitochondrial Dysfunction Resulting From Loss of Cytochrome C. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 672929.	3.7	17
3	A numerical model for lithium plasma process in a hybrid microwave ion source. <i>Contributions To Plasma Physics</i> , 2021, 61, e202100048.	1.1	0
4	Plasma simulation and optimization for a miniaturized antenna ECR ion source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1011, 165586.	1.6	7
5	Influence of noble gases on electron cyclotron heated hydrogen plasma. <i>X-Ray Spectrometry</i> , 2020, 49, 213-217.	1.4	6
6	Proton beams from intense laser-solid interaction: Effects of the target materials. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	12
7	The preliminary test of multi-charged ions generation with a 2.45 GHz microwave-driven ion source. <i>Review of Scientific Instruments</i> , 2020, 91, 023312.	1.3	2
8	A miniaturized ECR plasma flood gun for wafer charge neutralization. <i>Review of Scientific Instruments</i> , 2020, 91, 033319.	1.3	7
9	A global model of 2.45 GHz ECR ion sources for high intensity H <sup>+</sup> , H <sup>2+</sup> and H <sup>3+</sup> beams. <i>Vacuum</i> , 2020, 182, 109744.	3.5	12
10	Status of high current H <sup>2+</sup> and H <sup>3+</sup> ion sources. <i>Review of Scientific Instruments</i> , 2019, 90, .	1.3	7
11	Possibility of generating H <sup>+</sup> , or H <sup>2+</sup> , or H <sup>3+</sup> dominated ion beams with a 2.45 GHz permanent magnet ECR ion source. <i>Review of Scientific Instruments</i> , 2019, 90, 123305.	1.3	9
12	Creation of Electron-Positron Pairs in Photon-Photon Collisions Driven by 10-PW Laser Pulses. <i>Physical Review Letters</i> , 2019, 122, 014802.	7.8	43
13	Laser Acceleration of Highly Energetic Carbon Ions Using a Double-Layer Target Composed of Slightly Underdense Plasma and Ultrathin Foil. <i>Physical Review Letters</i> , 2019, 122, 014803.	7.8	84
14	Brilliant GeV gamma-ray flash from inverse Compton scattering in the QED regime. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044004.	2.1	28
15	Plasma parameter diagnosis using hydrogen emission spectra of a quartz-chamber 2.45 GHz ECRIS at Peking University. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	8
16	Optical emission spectroscopy for plasma diagnosis of 2.45 GHz ECR ion source at Peking University. <i>AIP Conference Proceedings</i> , 2018, .	0.4	5
17	Preliminary design of a hybrid ion source for <sup>7</sup> Li <sup>3+</sup> generation. <i>AIP Conference Proceedings</i> , 2018, .	0.4	5
18	High-efficiency $\gamma$ -ray flash generation via multiple-laser scattering in ponderomotive potential well. <i>Physical Review E</i> , 2017, 95, 013210.	2.1	32

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19	Multiple charge ion beam generation with a 2.45 GHz electron cyclotron resonance ion source. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	5
20	Study on space charge compensation in negative hydrogen ion beam. Review of Scientific Instruments, 2016, 87, 02B915.	1.3	3
21	Duty factor variation possibility from 1% to 100% with PKU microwave driven Cs-free volume H <sup>-</sup> sources. Review of Scientific Instruments, 2016, 87, 02B125.	1.3	4
22	Improvements of PKU PMECRIS for continuous hundred hours CW proton beam operation. Review of Scientific Instruments, 2016, 87, 02A706.	1.3	7
23	Quasimonoenergetic electron beam and brilliant gamma-ray radiation generated from near critical density plasma due to relativistic resonant phase locking. Physics of Plasmas, 2015, 22, .	1.9	27
24	Collisionless shocks driven by 800nm laser pulses generate high-energy carbon ions. Physics of Plasmas, 2015, 22, 013113.	1.9	24
25	CW/Pulsed H <sup>-</sup> ion beam generation with PKU Cs-free 2.45 GHz microwave driven ion source. AIP Conference Proceedings, 2015, .	0.4	4
26	Ion acceleration enhanced by target ablation. Physics of Plasmas, 2015, 22, .	1.9	14
27	Handling radiation generated during an ion source commissioning. Review of Scientific Instruments, 2014, 85, 02A930.	1.3	2
28	Commissioning and operation of the deuteron injector for PKUNIFTY project. Review of Scientific Instruments, 2014, 85, 02A706.	1.3	4
29	Plasma studies of the permanent magnet electron cyclotron resonance ion source at Peking University. Review of Scientific Instruments, 2014, 85, 02A927.	1.3	4
30	Laser-driven three-stage heavy-ion acceleration from relativistic laser-plasma interaction. Physical Review E, 2014, 89, 013107.	2.1	14
31	Design and Implementation of a Compact Control System for Coupled RFQ-SRFQ Linac. IEEE Transactions on Nuclear Science, 2014, 61, 2345-2350.	2.0	4
32	RF and field measurements of the SSC-LINAC RFQ. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1311-1317.	5.1	3
33	Milliampere He <sup>2+</sup> beam generator using a compact GHz ECRIS. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2016-2018.	5.1	7
34	Efficient and stable proton acceleration by irradiating a two-layer target with a linearly polarized laser pulse. Physics of Plasmas, 2013, 20, .	1.9	35
35	The influence of target material and thickness on proton energy and angular distribution. Science China: Physics, Mechanics and Astronomy, 2013, 56, 457-461.	5.1	2
36	Energy spread inhibition of compact electron bunch driven by circularly polarized laser pulse. Physics of Plasmas, 2012, 19, 083112.	1.9	2

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37	Deuteron injector for Peking University Neutron Imaging Facility project. Review of Scientific Instruments, 2012, 83, 02B711.	1.3	11
38	Intense beams from gases generated by a permanent magnet ECR ion source at PKU. Review of Scientific Instruments, 2012, 83, 02B905.	1.3	10
39	Design of coupled cavity with energy modulated electron cyclotron resonance ion source for materials irradiation research. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	7
40	Frequency tunable x-ray/ $\gamma$ -ray source via Thomson backscattering on flying mirror from laser foil interaction. Applied Physics Letters, 2012, 101, .	3.3	7
41	Development of Accelerator Mass Spectrometry and Its Applications. , 2012, , 117-145.		0
42	Laser Shaping of a Relativistic Intense, Short Gaussian Pulse by a Plasma Lens. Physical Review Letters, 2011, 107, 265002.	7.8	111
43	Progress in the beam commissioning of separated function RFQ accelerator. Science China: Physics, Mechanics and Astronomy, 2011, 54, 222-224.	5.1	1
44	Tuner design and RF test of a four-rod RFQ. Science China: Physics, Mechanics and Astronomy, 2011, 54, 271-273.	5.1	2
45	Development of high intensity beam emittance measurement unit. Science China: Physics, Mechanics and Astronomy, 2011, 54, 287-291.	5.1	2
46	Development of Accelerator Mass Spectrometry and Its Applications. Reviews of Accelerator Science and Technology, 2011, 04, 117-145.	0.5	12
47	High-quality proton bunch from laser interaction with a gas-filled cone target. Physics of Plasmas, 2011, 18, .	1.9	8
48	Simulation Study on 104 MHz Radio Frequency Quadrupole Accelerator. , 2010, , .		0
49	Upgrade of the extraction system of permanent magnet electron cyclotron resonance ion source. Review of Scientific Instruments, 2010, 81, 02B715.	1.3	11
50	Autofocused, enhanced proton acceleration from a nanometer-scale bulged foil. Physics of Plasmas, 2010, 17, .	1.9	4
51	Self-induced magnetic focusing of proton beams by Weibel-like instability in the laser foil-plasma interactions. Physics of Plasmas, 2009, 16, .	1.9	26
52	Theoretical Studies on Intense Laser Produced Quasi-Monoenergetic Particle Beams. , 2009, , .		0
53	Generating High-Current Monoenergetic Proton Beams by a CircularlyPolarized Laser Pulse in the Phase-StableAcceleration Regime. Physical Review Letters, 2008, 100, 135003.	7.8	386
54	Energy recovery transport design for PKU FEL. , 2007, , .		0

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55	Study of generic front-end designs for erl based light sources. , 2007, , .		0
56	Nuclear Data Online Services at Peking University. AIP Conference Proceedings, 2005, , .	0.4	0
57	High efficiency two harmonics beam chopper. Review of Scientific Instruments, 1986, 57, 795-797.	1.3	1
58	An Integral Splitring Resonator Loaded with Drift Tubes & RF Quadrupoles. IEEE Transactions on Nuclear Science, 1985, 32, 2891-2893.	2.0	2
59	Emittance measurement by using duo image pattern of Cherenkov radiation. , 0, , .		0