J E Chen

List of Publications by Year
in descending order

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59	1,051	687363 13	414414 32
papers	citations	h-index	g-index

59	59	59	726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Laser Shaping of a Relativistic Intense, Short Gaussian Pulse by a Plasma Lens. Physical Review Letters, 2011, 107, 265002.	7.8	111
3	Laser Acceleration of Highly Energetic Carbon Ions Using a Double-Layer Target Composed of Slightly Underdense Plasma and Ultrathin Foil. Physical Review Letters, 2019, 122, 014803.	7.8	84
4	Creation of Electron-Positron Pairs in Photon-Photon Collisions Driven by 10-PW Laser Pulses. Physical Review Letters, 2019, 122, 014802.	7.8	43
5	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
6	High-efficiency<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>-ray flash generation via multiple-laser scattering in ponderomotive potential well. Physical Review E, 2017, 95, 013210.	2.1	32
7	Brilliant GeV gamma-ray flash from inverse Compton scattering in the QED regime. Plasma Physics and Controlled Fusion, 2018, 60, 044004.	2.1	28
8	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
9	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
10	Collisionless shocks driven by 800â€‰nm laser pulses generate high-energy carbon ions. Physics of Plasmas, 2015, 22, 013113.	1.9	24
11	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. Frontiers in Cell and Developmental Biology, 2021, 9, 672929.	3.7	17
12	Laser-driven three-stage heavy-ion acceleration from relativistic laser-plasma interaction. Physical Review E, 2014, 89, 013107.	2.1	14
13	Ion acceleration enhanced by target ablation. Physics of Plasmas, 2015, 22, .	1.9	14
14	Development of Accelerator Mass Spectrometry and Its Applications. Reviews of Accelerator Science and Technology, 2011, 04, 117-145.	0.5	12
15	Proton beams from intense laser-solid interaction: Effects of the target materials. Matter and Radiation at Extremes, 2020, 5, .	3.9	12
16	A global model of 2.45ÂGHz ECR ion sources for high intensity H+, H2+ and H3+ beams. Vacuum, 2020, 182, 109744.	3.5	12
17	Upgrade of the extraction system of permanent magnet electron cyclotron resonance ion source. Review of Scientific Instruments, 2010, 81, 02B715.	1.3	11
18	Deuteron injector for Peking University Neutron Imaging Facility project. Review of Scientific Instruments, 2012, 83, 02B711.	1.3	11

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19	Intense beams from gases generated by a permanent magnet ECR ion source at PKU. Review of Scientific Instruments, 2012, 83, 02B905.	1.3	10
20	Possibility of generating H+, or H2+, or H3+ dominated ion beams with a 2.45 GHz permanent magnet ECR ion source. Review of Scientific Instruments, 2019, 90, 123305.	1.3	9
21	High-quality proton bunch from laser interaction with a gas-filled cone target. Physics of Plasmas, 2011, 18, .	1.9	8
22	Plasma parameter diagnosis using hydrogen emission spectra of a quartz-chamber 2.45 GHz ECRIS at Peking University. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	8
23	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
24	Frequency tunable x-ray/Î³-ray source via Thomson backscattering on flying mirror from laser foil interaction. Applied Physics Letters, 2012, 101, .	3.3	7
25	Milliampere He2+ beam generator using a compact GHz ECRIS. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2016-2018.	5.1	7
26	Improvements of PKU PMECRIS for continuous hundred hours CW proton beam operation. Review of Scientific Instruments, 2016, 87, 02A706.	1.3	7
27	Status of high current H2+ and H3+ ion sources. Review of Scientific Instruments, 2019, 90, .	1.3	7
28	A miniaturized ECR plasma flood gun for wafer charge neutralization. Review of Scientific Instruments, 2020, 91, 033319.	1.3	7
29	Plasma simulation and optimization for a miniaturized antenna ECR ion source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1011, 165586.	1.6	7
30	Influence of noble gases on electron cyclotron heated hydrogen plasma. X-Ray Spectrometry, 2020, 49, 213-217.	1.4	6
31	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
32	Optical emission spectroscopy for plasma diagnosis of 2.45â€…GHz ECR ion source at Peking University. AIP Conference Proceedings, 2018, , .	0.4	5
33	Preliminary design of a hybrid ion source for 7Li3+ generation. AIP Conference Proceedings, 2018, , .	0.4	5
34	Autofocused, enhanced proton acceleration from a nanometer-scale bulged foil. Physics of Plasmas, 2010, 17, .	1.9	4
35	Commissioning and operation of the deuteron injector for PKUNIFTY project. Review of Scientific Instruments, 2014, 85, 02A706.	1.3	4
36	Plasma studies of the permanent magnet electron cyclotron resonance ion source at Peking University. Review of Scientific Instruments, 2014, 85, 02A927.	1.3	4

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37	Design and Implementation of a Compact Control System for Coupled RFQ-SFRFQ Linac. IEEE Transactions on Nuclear Science, 2014, 61, 2345-2350.	2.0	4
38	CW/Pulsed Hâ˜ ion beam generation with PKU Cs-free 2.45 GHz microwave driven ion source. AIP Conference Proceedings, 2015, , .	0.4	4
39	Duty factor variation possibility from 1% to 100% with PKU microwave driven Cs-free volume Hâ˜ sources. Review of Scientific Instruments, 2016, 87, 02B125.	1.3	4
40	RF and field measurements of the SSC-LINAC RFQ. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1311-1317.	5.1	3
41	Study on space charge compensation in negative hydrogen ion beam. Review of Scientific Instruments, 2016, 87, 02B915.	1.3	3
42	An Integral Splitring Resonator Loaded with Drift Tubes & RF Quadrupoles. IEEE Transactions on Nuclear Science, 1985, 32, 2891-2893.	2.0	2
43	Tuner design and RF test of a four-rod RFQ. Science China: Physics, Mechanics and Astronomy, 2011, 54, 271-273.	5.1	2
44	Development of high intensity beam emittance measurement unit. Science China: Physics, Mechanics and Astronomy, 2011, 54, 287-291.	5.1	2
45	Energy spread inhibition of compact electron bunch driven by circularly polarized laser pulse. Physics of Plasmas, 2012, 19, 083112.	1.9	2
46	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
47	Handling radiation generated during an ion source commissioning. Review of Scientific Instruments, 2014, 85, 02A930.	1.3	2
48	The preliminary test of multi-charged ions generation with a 2.45 GHz microwave-driven ion source. Review of Scientific Instruments, 2020, 91, 023312.	1.3	2
49	Highâ€efficiency twoâ€harmonics beam chopper. Review of Scientific Instruments, 1986, 57, 795-797.	1.3	1
50	Progress in the beam commissioning of separated function RFQ accelerator. Science China: Physics, Mechanics and Astronomy, 2011, 54, 222-224.	5.1	1
51	Deprotonation from an OH on myo-Inositol Promoted by Î¼₂-Bridges with Possible Regioselectivity/Chiral Selectivity. Inorganic Chemistry, 2022, 61, 6138-6148.	4.0	1
52	Emittance measurement by using duo image pattern of Cherenkov radiation. , 0, , .		0
53	Nuclear Data Online Services at Peking University. AIP Conference Proceedings, 2005, , .	0.4	0
54	Energy recovery transport design for PKU FEL. , 2007, , .		0

#	Article	IF	Citations
55	Study of generic front-end designs for erl based light sources. , 2007, , .		0
56	Theoretical Studies on Intense Laser Produced Quasi-Monoenergetic Particle Beams. , 2009, , .		0
57	Simulation Study on 104 MHz Radio Frequency Quadrupole Accelerator. , 2010, , .		0
58	A numerical model for lithium plasma process in a hybrid microwave ion source. Contributions To Plasma Physics, 2021, 61, e202100048.	1.1	0
59	Development of Accelerator Mass Spectrometry and Its Applications. , 2012, , 117-145.		0