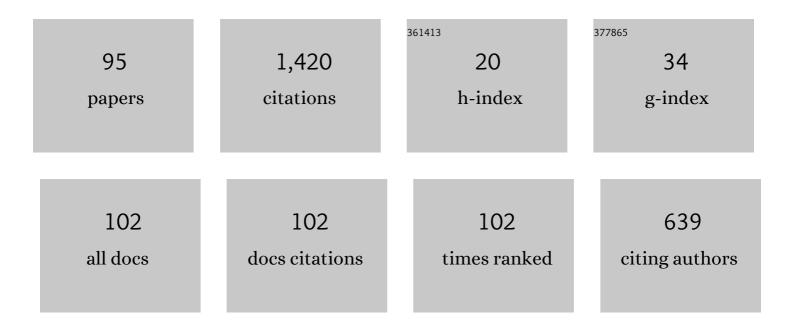
List of Publications by Year in descending order

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FDIR CILSON

#	Article	IF	CITATIONS
1	Observation of a reduced-turbulence regime with boron powder injection in a stellarator. Nature Physics, 2022, 18, 350-356.	16.7	19
2	Real-time wall conditioning and recycling modification utilizing boron and boron nitride powder injections into the Large Helical Device. Nuclear Fusion, 2022, 62, 086021.	3.5	7
3	Wall conditioning and ELM mitigation with boron nitride powder injection in KSTAR. Nuclear Materials and Energy, 2021, 28, 101043.	1.3	12
4	Parameter space mapping of the Princeton magnetorotational instability experiment. Physical Review E, 2020, 102, 023113.	2.1	9
5	First impurity powder injection experiments in LHD. Nuclear Materials and Energy, 2020, 25, 100842.	1.3	17
6	ELM Suppression by Boron Powder Injection and Comparison with Lithium Powder Injection on EAST. Journal of Fusion Energy, 2020, 39, 429-435.	1.2	14
7	Overview of lithium injection and flowing liquid lithium results from the US–China collaboration on EAST. Physica Scripta, 2020, T171, 014067.	2.5	8
8	Observations of wall conditioning by means of boron powder injection in DIII-D H-mode plasmas. Nuclear Fusion, 2020, 60, 126010.	3.5	27
9	Nonaxisymmetric simulations of the Princeton magnetorotational instability experiment with insulating and conducting axial boundaries. Physical Review E, 2019, 100, 033116.	2.1	7
10	Experimental confirmation of the standard magnetorotational instability mechanism with a spring-mass analogue. Communications Physics, 2019, 2, .	5.3	12
11	Deuterium pellet fueling in type-III ELMy H-mode plasmas on EAST superconducting tokamak. Fusion Engineering and Design, 2019, 145, 79-86.	1.9	5
12	Turbulence and jet-driven zonal flows: Secondary circulation in rotating fluids due to asymmetric forcing. Physical Review E, 2019, 99, 023108.	2.1	3
13	Preface to Special Topic: Collective Effects in Particle Beams and Nonneutral Plasmas. Physics of Plasmas, 2018, 25, 011501.	1.9	0
14	A multi-species powder dropper for magnetic fusion applications. Review of Scientific Instruments, 2018, 89, 10K121.	1.3	40
15	Design and implementation of a Thomson parabola for fluence dependent energy-loss measurements at the Neutralized Drift Compression eXperiment. Review of Scientific Instruments, 2018, 89, 103302.	1.3	4
16	Effects of axial boundary conductivity on a free Stewartson-Shercliff layer. Physical Review E, 2018, 97, 063110.	2.1	9
17	Optimizing beam transport in rapidly compressing beams on the neutralized drift compression experiment-II. Matter and Radiation at Extremes, 2018, 3, 78-84.	3.9	7
18	Irradiation of materials with short, intense ion pulses at NDCX-II. Laser and Particle Beams, 2017, 35, 373-378.	1.0	14

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19	Study on Thermal Mixing of MHD Liquid Metal Free-Surface Film Flow. Fusion Science and Technology, 2017, 72, 796-800.	1.1	4
20	Dynamics of Ion Beam Charge Neutralization by Ferroelectric Plasma Sources*. , 2017, , .		0
21	Dynamics of ion beam charge neutralization by ferroelectric plasma sources. Physics of Plasmas, 2016, 23, .	1.9	14
22	Short-pulse, compressed ion beams at the Neutralized Drift Compression Experiment. Journal of Physics: Conference Series, 2016, 717, 012079.	0.4	7
23	High frequency pacing of edge localized modes by injection of lithium granules in DIII-D H-mode discharges. Nuclear Fusion, 2016, 56, 056008.	3.5	42
24	Numerical simulations of the Princeton magnetorotational instability experiment with conducting axial boundaries. Physical Review E, 2016, 94, 063107.	2.1	43
25	Study on thermal mixing of liquid–metal free-surface flow by obstacles installed at the bottom of a channel. Fusion Engineering and Design, 2016, 109-111, 1193-1198.	1.9	2
26	Lithium granular injector operational experience triggering ELMs in H-mode on DIII-D. , 2015, , .		2
27	Short intense ion pulses for materials and warm dense matter research. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 800, 98-103.	1.6	19
28	Ferroelectric plasma sources for NDCX-II and heavy ion drivers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 733, 75-79.	1.6	5
29	Studies of electrical breakdown processes across vacuum gaps between metallic electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 733, 168-170.	1.6	4
30	The NDCX-II engineering design. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 733, 226-232.	1.6	18
31	Excitation of transverse dipole and quadrupole modes in a pure ion plasma in a linear Paul trap to study collective processes in intense beams. Physics of Plasmas, 2013, 20, 055706.	1.9	7
32	Analysis of continuously rotating quadrupole focusing channels using generalized Courant-Snyder theory. Physics of Plasmas, 2013, 20, 083121.	1.9	9
33	Exploratory test of utility of magnetic insulation for electrostatic accelerators. Physics of Plasmas, 2012, 19, 023107.	1.9	2
34	Plasma source development for the NDCX-I and NDCX-II neutralized drift compression experiments. Laser and Particle Beams, 2012, 30, 435-443.	1.0	5
35	Experimental program for the Princeton Ion Source Test Facility. Laser and Particle Beams, 2010, 28, 571-574.	1.0	0
36	Beam dynamics of the Neutralized Drift Compression Experiment-II, a novel pulse-compressing ion accelerator. Physics of Plasmas, 2010, 17, 056704.	1.9	44

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37	Studies of emittance growth and halo particle production in intense charged particle beams using the Paul Trap Simulator Experiment. Physics of Plasmas, 2010, 17, .	1.9	8
38	Use of a Linear Paul Trap to Study Random Noise-Induced Beam Degradation in High-Intensity Accelerators. Physical Review Letters, 2009, 102, 145003.	7.8	11
39	Experimental investigation of random noise-induced beam degradation in high-intensity accelerators using a linear Paul trap. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	5
40	Recent advances in the physics of collective excitations in the Paul trap simulator experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 48-52.	1.6	2
41	A space-charge-neutralizing plasma for beam drift compression. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 22-30.	1.6	23
42	Progress in beam focusing and compression for warm-dense matter experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 75-82.	1.6	45
43	Long plasma source for heavy ion beam charge neutralization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 124-127.	1.6	11
44	Simulations and experiments of intense ion beam current density compression in space and time. Physics of Plasmas, 2009, 16, 056701.	1.9	15
45	Advanced plasma flow simulations of cathodic-arc and ferroelectric plasma sources for neutralized drift compression experiments. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	2
46	Heavy ion fusion science research for high energy density physics and fusion applications. Journal of Physics: Conference Series, 2008, 112, 032029.	0.4	4
47	Source-to-target simulation of simultaneous longitudinal and transverse focusing of heavy ion beams. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	10
48	Bunching and focusing of an intense ion beam for target heating experiments. , 2007, , .		7
49	Extreme compression of heavy-ion beam pulses: Experiments and modeling. , 2007, , .		1
50	Meter-long plasma source for heavy ion beam space charge neutralization. , 2007, , .		1
51	Initial density profile measurements using a Laser-Induced Fluorescence diagnostic in the Paul Trap Simulator Experiment. , 2007, , .		0
52	End-to-end simulations of an accelerator for heavy ion beam bunching. , 2007, , .		0
53	Heavy-ion-fusion-science: summary of US progress. Nuclear Fusion, 2007, 47, 721-727.	3.5	15
54	A solenoid final focusing system with plasma neutralization for target heating experiments. , 2007, , .		2

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55	Experiments on transverse compression of a long charge bunch in a linear Paul trap. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	6
56	Transverse beam compression on the Paul trap simulator experiment. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	14
57	Experiments on transverse bunch compression on the Princeton Paul Trap Simulator experiment. , 2007, , .		0
58	lon injection optimization for a linear Paul trap to study intense beam propagation. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	9
59	Optimized simultaneous transverse and longitudinal focusing of intense ion beam pulses for warm dense matter applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 289-297.	1.6	27
60	Recent US advances in ion-beam-driven high energy density physics and heavy ion fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 1-7.	1.6	52
61	Ferroelectric plasma source for heavy ion beam space charge neutralization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 203-206.	1.6	5
62	Conditions for minimization of halo particle production during transverse compression of intense ion charge bunches in the Paul Trap Simulator Experiment (PTSX). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 117-124.	1.6	11
63	Plans for longitudinal and transverse neutralized beam compression experiments, and initial results from solenoid transport experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 215-222.	1.6	25
64	Neutralized drift compression experiments with a high-intensity ion beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 223-230.	1.6	11
65	Fast Faraday cup to measure neutralized drift compression in intense ion charge bunches. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	24
66	US heavy ion beam research for high energy density physics applications and fusion. European Physical Journal Special Topics, 2006, 133, 731-741.	0.2	7
67	Experimental simulations of beam propagation over large distances in a compact linear Paul trap. Physics of Plasmas, 2006, 13, 056705.	1.9	7
68	Simulation of long-distance beam propagation in the Paul trap simulator experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 171-178.	1.6	14
69	Neutralized transport experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 225-235.	1.6	23
70	Development of a 1-m plasma source for heavy ion beam charge neutralization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 378-382.	1.6	3
71	Laser-Induced Fluorescence diagnostic of barium ion plasmas in the Paul Trap Simulator Experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 514-519.	1.6	2
72	Comparison of experimental data and three-dimensional simulations of ion beam neutralization from the Neutralized Transport Experiment. Physics of Plasmas, 2005, 12, 043102.	1.9	27

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73	Drift Compression of an Intense Neutralized Ion Beam. Physical Review Letters, 2005, 95, 234801.	7.8	118
74	Overview of US heavy ion fusion research. Nuclear Fusion, 2005, 45, 131-137.	3.5	27
75	Results on intense beam focusing and neutralization from the neutralized beam experiment. Physics of Plasmas, 2004, 11, 2890-2898.	1.9	64
76	Paul Trap Simulator Experiment to Model Intense-Beam Propagation in Alternating-Gradient Transport Systems. Physical Review Letters, 2004, 92, 155002.	7.8	52
77	Design and characterization of a neutralized-transport experiment for heavy-ion fusion. Physical Review Special Topics: Accelerators and Beams, 2004, 7, .	1.8	36
78	Progress in heavy ion fusion research. Physics of Plasmas, 2003, 10, 2064-2070.	1.9	17
79	Quadrupole-Induced Resonant-Particle Transport in a Pure Electron Plasma. Physical Review Letters, 2003, 90, 015001.	7.8	47
80	ECR plasma source for heavy ion beam charge neutralization. Laser and Particle Beams, 2003, 21, 37-40.	1.0	6
81	Modeling Intense Beam Propagation in the Paul Trap Simulator Experiment (PTSX). AIP Conference Proceedings, 2003, , .	0.4	10
82	The Paul Trap Simulator Experiment. Laser and Particle Beams, 2003, 21, 549-552.	1.0	11
83	Decay of the Diocotron Rotation and Transport in a New Low-Density Asymmetry-Dominated Regime. Physical Review Letters, 2002, 89, 105002.	7.8	9
84	Decay of the diocotron rotation and transport in a new low-density asymmetry-dominated regime. AIP Conference Proceedings, 2002, , .	0.4	1
85	Paul Trap Simulator Experiment (PTSX) to simulate intense beam propagation through a periodic focusing quadrupole field. AIP Conference Proceedings, 2002, , .	0.4	Ο
86	Quadrupole induced resonant particle transport in a pure electron plasma. AIP Conference Proceedings, 2002, , .	0.4	1
87	Stability of very small strangelets. Physical Review Letters, 1993, 71, 332-335.	7.8	131
88	Recent results from the Paul trap simulator experiment. , 0, , .		4
89	Development of Laser-Induced Fluorescence Diagnostic for the Paul Trap Simulator Experiment. , 0, , .		1
90	Simulating the Long-Distance Propagation of Intense Beams in the Paul Trap Simulator Experiment. , 0, ,		0

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91	A Fast Faraday Cup for the Neutralized Drift Compression Experiment. , 0, , .		0
92	Ferroelectric Plasma Source for Heavy Ion Beam Charge Neutralization. , 0, , .		3
93	LSP Simulations of the Neutralized Drift Compression Experiment. , 0, , .		3
94	Line identification of boron and nitrogen emissions in EUV and VUV wavelength ranges in the impurity powder dropping experiments of LHD and its application to spectroscopic diagnostics. Plasma Science and Technology, 0, , .	1.5	6
95	Generation of mean flows in rotating anisotropic turbulence: The case of solar near-surface shear layer. Astronomy and Astrophysics, 0, , .	5.1	2