

Irving Haber

List of Publications by Year in descending order

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42
papers

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1040056

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42
all docs

42
docs citations

42
times ranked

222
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional simulations of high current beams in induction accelerators with WARP3d. Fusion Engineering and Design, 1996, 32-33, 193-200.	1.9	62
2	Computational Methods in the Warp Code Framework for Kinetic Simulations of Particle Beams and Plasmas. IEEE Transactions on Plasma Science, 2014, 42, 1321-1334.	1.3	46
3	Simulations and experiments with space-charge-dominated beams. Physics of Plasmas, 2003, 10, 2016-2021.	1.9	39
4	Design and operation of a retarding field energy analyzer with variable focusing for space-charge-dominated electron beams. Review of Scientific Instruments, 2004, 75, 2736-2745.	1.3	39
5	Experimental Observations of Soliton Wave Trains in Electron Beams. Physical Review Letters, 2013, 110, 084802.	7.8	36
6	Beam experiments in the extreme space-charge limit on the University of Maryland Electron Ring. Physics of Plasmas, 2004, 11, 2907-2915.	1.9	21
7	Tomographic phase-space mapping of intense particle beams using solenoids. Physics of Plasmas, 2007, 14, 120703.	1.9	18
8	Longitudinal confinement and matching of an intense electron beam. Physics of Plasmas, 2011, 18, 013104.	1.9	14
9	The University of Maryland Electron Ring Program. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 733, 233-237.	1.6	10
10	End-to-end simulation: The front end. Laser and Particle Beams, 2002, 20, 431-433.	1.0	5
11	Long path-length experimental studies of longitudinal phenomena in intense beams. Physics of Plasmas, 2016, 23, .	1.9	5
12	Single-invariant nonlinear optics for a small electron recirculator. Physical Review Accelerators and Beams, 2019, 22, .	1.6	5
13	Beam Halo from Quadrupole Rotation Errors. AIP Conference Proceedings, 2003, , .	0.4	4
14	Beam transport experiments over half-turn at the University of Maryland Electron Ring (UMER). , 0, , .		4
15	Evolution of laser induced perturbation and experimental observation of space charge waves in the University Of Maryland Electron Ring (UMER). , 2007, , .		4
16	Initial studies of longitudinal dynamics on UMER. , 0, , .		3
17	The University of Maryland Electron Ring (UMER) enters a new regime of high-tune-shift rings. , 2007, , .		3
18	Generalized phase-space tomography for intense beams. Physics of Plasmas, 2010, 17, 056701.	1.9	3

#	ARTICLE	IF	CITATIONS
19	Experimental study of energy spread in a space-charge dominated electron beam. , 0, , .		2
20	Longitudinal space-charge effects in a retarding field energy analyzer. , 0, , .		2
21	Time resolved emittance measurement in the University of Maryland electron ring. , 0, , .		2
22	Alignment of components at the University of Maryland electron ring. , 0, , .		2
23	Phase space tomography of beams with extreme space charge. , 2007, , .		2
24	Measurement & Simulation of Interpenetration and DC Accumulation of Beam in the University of Maryland Electron Ring. , 2010, , .		2
25	Electro-mechanical design for injection in the university of maryland electron ring. , 0, , .		1
26	Significance of Space Charge and the Earth Magnetic Field on the Dispersive Characteristics of a Low Energy Electron Beam. , 0, , .		1
27	Study of Longitudinal Space-Charge Wave Dynamics in Space-Charge Dominated Beams. , 0, , .		1
28	SCALED MODELS: SPACE-CHARGE DOMINATED ELECTRON STORAGE RINGS. International Journal of Modern Physics A, 2007, 22, 3838-3851.	1.5	1
29	Longitudinal Acceleration of Intense Beams in the University of Maryland Electron Ring (UMER). , 2007, , .		1
30	Operational Studies of the 10 keV Electron Storage Ring UMER. , 2009, , .		1
31	Experimental verification of tomographic phase-space imaging for beams with space-charge using a pinhole-scan. Journal of Applied Physics, 2010, 107, .	2.5	1
32	Ultra-low current beams in UMER to model space-charge effects in high-energy proton and ion machines. AIP Conference Proceedings, 2017, , .	0.4	1
33	"Zero-current" to extreme space-charge beam transport experiments on the University of Maryland Electron Ring (UMER). , 0, , .		0
34	Experimental Observations of Beam Fluctuations in Space-Charge Dominated Beams. AIP Conference Proceedings, 2006, , .	0.4	0
35	Phase Space Tomography: A Simple, Portable and Accurate Technique to Map Phase Spaces of Beams with Space Charge. AIP Conference Proceedings, 2006, , .	0.4	0
36	Fast Imaging of Time-dependent Distributions of Intense Beams. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Longitudinal Confinement of an Intense Beam Using Induction Focusing. , 2010, , .		0
38	Experimental and simulation study of barrier compression on the University of Maryland Electron Ring. AIP Conference Proceedings, 2017, , .	0.4	0
39	Quadrupolar mode measurements for space charge dominated beams. Physics of Plasmas, 2018, 25, 073107.	1.9	0
40	Multi-stream instability of a single long electron bunch in a storage ring. Physics of Plasmas, 2019, 26, 052106.	1.9	0
41	SCALED MODELS: SPACE-CHARGE DOMINATED ELECTRON STORAGE RINGS. , 2007, , .		0
42	Optimization of flat to round transformers with self-fields using adjoint techniques. Physical Review Accelerators and Beams, 2022, 25, .	1.6	0