Irving Haber

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7084166/publications.pdf

Version: 2024-02-01

42 papers	341 citations	1040056 9 h-index	888059 17 g-index
42 all docs	42 docs citations	42 times ranked	222 citing authors

#	Article	IF	Citations
1	Optimization of flat to round transformers with self-fields using adjoint techniques. Physical Review Accelerators and Beams, 2022, 25, .	1.6	0
2	Multi-stream instability of a single long electron bunch in a storage ring. Physics of Plasmas, 2019, 26, 052106.	1.9	0
3	Single-invariant nonlinear optics for a small electron recirculator. Physical Review Accelerators and Beams, 2019, 22, .	1.6	5
4	Quadrupolar mode measurements for space charge dominated beams. Physics of Plasmas, 2018, 25, 073107.	1.9	0
5	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
6	Experimental and simulation study of barrier compression on the University of Maryland Electron Ring. AIP Conference Proceedings, 2017, , .	0.4	0
7	Long path-length experimental studies of longitudinal phenomena in intense beams. Physics of Plasmas, 2016, 23, .	1.9	5
8	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
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	Experimental Observations of Soliton Wave Trains in Electron Beams. Physical Review Letters, 2013, 110, 084802.	7.8	36
11	Longitudinal confinement and matching of an intense electron beam. Physics of Plasmas, 2011, 18, 013104.	1.9	14
12	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
13	Measurement & Simulation of Interpenetration and DC Accumulation of Beam in the University of Maryland Electron Ring. , 2010, , .		2
14	Longitudinal Confinement of an Intense Beam Using Induction Focusing. , 2010, , .		0
15	Generalized phase-space tomography for intense beams. Physics of Plasmas, 2010, 17, 056701.	1.9	3
16	Operational Studies of the 10 keV Electron Storage Ring UMER. , 2009, , .		1
17	SCALED MODELS: SPACE-CHARGE DOMINATED ELECTRON STORAGE RINGS. International Journal of Modern Physics A, 2007, 22, 3838-3851.	1.5	1
18	Evolution of laser induced perturbation and experimental observation of space charge waves in the University Of Maryland Electron Ring (UMER). , 2007, , .		4

#	Article	IF	Citations
19	Phase space tomography of beams with extreme space charge. , 2007, , .		2
20	Longitudinal Acceleration of Intense Beams in the University of Maryland Electron Ring (UMER). , 2007, , .		1
21	The University of Maryland Electron Ring (UMER) enters a new regime of high-tune-shift rings. , 2007, , .		3
22	Fast Imaging of Time-dependent Distributions of Intense Beams. , 2007, , .		0
23	Tomographic phase-space mapping of intense particle beams using solenoids. Physics of Plasmas, 2007, 14, 120703.	1.9	18
24	SCALED MODELS: SPACE-CHARGE DOMINATED ELECTRON STORAGE RINGS. , 2007, , .		0
25	Experimental Observations of Beam Fluctuations in Space-Charge Dominated Beams. AIP Conference Proceedings, 2006, , .	0.4	0
26	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
27	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
28	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
29	Simulations and experiments with space-charge-dominated beams. Physics of Plasmas, 2003, 10, 2016-2021.	1.9	39
30	Beam Halo from Quadrupole Rotation Errors. AIP Conference Proceedings, 2003, , .	0.4	4
31	End-to-end simulation: The front end. Laser and Particle Beams, 2002, 20, 431-433.	1.0	5
32	Three-dimensional simulations of high current beams in induction accelerators with WARP3d. Fusion Engineering and Design, 1996, 32-33, 193-200.	1.9	62
33	Experimental study of energy spread in a space-charge dominated electron beam. , 0, , .		2
34	Initial studies of longitudinal dynamics on UMER. , 0, , .		3
35	Electro-mechanical design for injection in the university of maryland electron ring. , 0, , .		1
36	Longitudinal space-charge effects in a retarding field energy analyzer. , 0, , .		2

#	Article	IF	Citations
37	Beam transport experiments over half-turn at the University of Maryland Electron Ring (UMER). , 0, , .		4
38	Time resolved emittance measurement in the University of Maryland electron ring. , 0, , .		2
39	Alignment of components at the University of Maryland electron ring. , 0, , .		2
40	"Zero-current" to extreme space-charge beam transport experiments on the University of Maryland Electron Ring (UMER). , 0, , .		0
41	Significance of Space Charge and the Earth Magnetic Field on the Dispersive Characteristics of a Low Energy Electron Beam. , 0, , .		1
42	Study of Longitudinal Space-Charge Wave Dynamics in Space-Charge Dominated Beams. , 0, , .		1