

Levi Schächter

List of Publications by Year in descending order

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48
papers

798
citations

759055

12
h-index

501076

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g-index

48
all docs

48
docs citations

48
times ranked

695
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric laser accelerators. <i>Reviews of Modern Physics</i> , 2014, 86, 1337-1389.	16.4	286
2	Optical Bragg accelerators. <i>Physical Review E</i> , 2004, 70, 016505.	0.8	86
3	Analytic expression for triple-point electron emission from an ideal edge. <i>Applied Physics Letters</i> , 1998, 72, 421-423.	1.5	68
4	Energy Conversion during Microwave Sintering of a Multiphase Ceramic Surrounded by a Susceptor. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1465-1468.	1.9	54
5	Bragg reflection waveguides with a matching layer. <i>Optics Express</i> , 2004, 12, 3156.	1.7	50
6	Beam-Wave Interaction in Periodic and Quasi-Periodic Structures. <i>Particle Acceleration and Detection</i> , 2011, , .	0.3	44
7	Experimental Observation of Direct Particle Acceleration by Stimulated Emission of Radiation. <i>Physical Review Letters</i> , 2006, 97, 134801.	2.9	24
8	Enhancing X-Ray Generation by Electron-Beam-Laser Interaction in an Optical Bragg Structure. <i>Physical Review Letters</i> , 2010, 104, 024801.	2.9	21
9	Cherenkov traveling-wave tube with a spatially varying dielectric coefficient. <i>Physical Review A</i> , 1991, 43, 3785-3794.	1.0	18
10	Particle acceleration by stimulated emission of radiation: Theory and experiment. <i>Physical Review E</i> , 2006, 74, 046501.	0.8	18
11	Energy recovery in an optical linear collider. <i>Physical Review E</i> , 2004, 70, 016504.	0.8	16
12	On the bandwidth of a short traveling wave tube. <i>Journal of Applied Physics</i> , 1990, 68, 5874-5882.	1.1	14
13	Analytical method for studying a quasiperiodic disk loaded waveguide. <i>Applied Physics Letters</i> , 1993, 63, 2441-2443.	1.5	14
14	Bragg accelerator optimization. <i>High Power Laser Science and Engineering</i> , 2014, 2, .	2.0	11
15	Enhanced Cherenkov-Wake Amplification by an Active Medium. <i>Physical Review Letters</i> , 2014, 112, 054801.	2.9	9
16	Propagation of electromagnetic and space-charge waves in quasiperiodic structures. <i>Physics of Plasmas</i> , 1995, 2, 889-901.	0.7	8
17	Static Magnetic Field Exposure In Vivo Enhances the Generation of New Doublecortin-expressing Cells in the Sub-ventricular Zone and Neocortex of Adult Rats. <i>Neuroscience</i> , 2020, 425, 217-234.	1.1	8
18	A novel eyelid motion monitor. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2017, 255, 1811-1817.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Collisions of the Second Kind in a Penning Trap. <i>Physical Review Letters</i> , 2009, 102, 034801.	2.9	5
20	2D theory of wakefield amplification by active medium. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 740, 117-123.	0.7	5
21	Quasi-monoenergetic ultrashort microbunch electron source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 875, 80-86.	0.7	4
22	Power grid analysis based on a macro circuit model. , 2010, , .		3
23	Nonlinear wake amplification by an active medium in a cylindrical waveguide using a modulated trigger bunch. <i>High Power Laser Science and Engineering</i> , 2014, 2, .	2.0	3
24	Linear analysis of active-medium two-beam accelerator. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015, 18, .	1.8	3
25	Electron beam guiding by a laser Bessel beam. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	0.6	3
26	Analysis of a traveling wave tube tuned by a cavity. <i>Journal of Applied Physics</i> , 1991, 70, 5186-5192.	1.1	2
27	Ultrashort microbunch electron source. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
28	Optical booster for dielectric laser accelerators. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
29	Trapping of sub-relativistic particles in laser driven accelerators. <i>Physics of Plasmas</i> , 2017, 24, 123116.	0.7	2
30	Limiting current from a metallic ideal edge attached to a dielectric edge. <i>Applied Physics Letters</i> , 1999, 75, 3084-3086.	1.5	1
31	Acceleration concepts based on electromagnetic structures. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
32	Experimental Evidence for Particle Acceleration by Stimulated Emission of Radiation. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
33	Spectral analysis of a THz radiation source based on high-harmonic interaction in a hybrid cavity. , 2017, , .		1
34	Metamaterials for optical Bragg accelerators. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	1
35	Normalized intrinsic emittance of cold emission cathodes. <i>Journal of Applied Physics</i> , 2020, 128, 243303.	1.1	1
36	Two-beam accelerator based on a Cherenkov wake amplified by an optical active medium. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	0.6	1

#	ARTICLE	IF	CITATIONS
37	Normalized transverse emittance reduction by an azimuthally symmetric optical Bessel-beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167145.	0.7	1
38	Resonant absorption instability: Acceleration and radiation amplification. AIP Conference Proceedings, 2001, , .	0.3	0
39	SCALING LAWS OF STRUCTURE-BASED OPTICAL ACCELERATORS. International Journal of Modern Physics A, 2007, 22, 3898-3911.	0.5	0
40	Enhancement of the allowed gradient in a dielectric-loaded superconducting cavity. Applied Physics Letters, 2007, 91, 143506.	1.5	0
41	An analytic model for the electrostatic contribution of the electron cloud to the vertical tune-shift. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 592, 125-140.	0.7	0
42	E-beam interaction with gaseous excited medium. , 2012, , .		0
43	Two-beam accelerator with active medium as the energy source. AIP Conference Proceedings, 2016, , .	0.3	0
44	Fowler-Nordheim Emission in the THz Hybrid Cavity. , 2018, , .		0
45	Electron Beam Guiding with a Laser Bessel Beam. , 2018, , .		0
46	Radial Kick in High-Efficiency Output Structures. Plasma, 2019, 2, 15-26.	0.7	0
47	SCALING LAWS OF STRUCTURE-BASED OPTICAL ACCELERATORS. , 2007, , .		0
48	Electrostatic tapering for efficient generation of radiation. Physical Review E, 2022, 105, L023201.	0.8	0