Adi Hanuka

List of Publications by Year
in descending order

26 papers	365 citations	933447 10 h-index	794594 19 g-index
26 all docs	26 docs citations	26 times ranked	299 citing authors

#	Article	IF	Citations
1	Demonstration of acceleration of relativistic electrons at a dielectric microstructure using femtosecond laser pulses. Optics Letters, 2016, 41, 2696.	3.3	79
2	Bayesian Optimization of a Free-Electron Laser. Physical Review Letters, 2020, 124, 124801.	7.8	71
3	High-field nonlinear optical response and phase control in a dielectric laser accelerator. Communications Physics, 2018, 1, .	5.3	58
4	Multiobjective Bayesian optimization for online accelerator tuning. Physical Review Accelerators and Beams, 2021, 24, .	1.6	20
5	Physics model-informed Gaussian process for online optimization of particle accelerators. Physical Review Accelerators and Beams, 2021, 24, .	1.6	17
6	Cumulative material damage from train of ultrafast infrared laser pulses. High Power Laser Science and Engineering, 2019, 7, .	4.6	14
7	Operation regimes of a dielectric laser accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 888, 147-152.	1.6	12
8	Bragg accelerator optimization. High Power Laser Science and Engineering, 2014, 2, .	4.6	11
9	Accurate and confident prediction of electron beam longitudinal properties using spectral virtual diagnostics. Scientific Reports, 2021, 11, 2945.	3.3	11
10	Optimized operation of dielectric laser accelerators: Single bunch. Physical Review Accelerators and Beams, 2018, 21, .	1.6	11
11	Uncertainty quantification for virtual diagnostic of particle accelerators. Physical Review Accelerators and Beams, 2021, 24, .	1.6	10
12	Uncertainty quantification for deep learning in particle accelerator applications. Physical Review Accelerators and Beams, 2021, 24, .	1.6	9
13	A novel eyelid motion monitor. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 1811-1817.	1.9	7
14	Aberration Corrector Tuning with Machine-Learning-Based Emittance Measurements and Bayesian Optimization. Microscopy and Microanalysis, 2021, 27, 810-812.	0.4	7
15	Optimized operation of dielectric laser accelerators: Multibunch. Physical Review Accelerators and Beams, 2018, 21, .	1.6	7
16	Conceptual layout for a wafer-scale dielectric laser accelerator. AIP Conference Proceedings, 2016, , .	0.4	6
17	Virtual Diagnostic Suite for Electron Beam Prediction and Control at FACET-II. Information (Switzerland), 2021, 12, 61.	2.9	6
18	Optical booster for dielectric laser accelerators. AIP Conference Proceedings, 2017, , .	0.4	2

#	Article	IF	Citations
19	Trapping of sub-relativistic particles in laser driven accelerators. Physics of Plasmas, 2017, 24, 123116.	1.9	2
20	Artificial materials for structure-based laser acceleration. AIP Conference Proceedings, 2017, , .	0.4	1
21	Quasi-analytic design of a dielectric acceleration structure. AIP Conference Proceedings, 2017, , .	0.4	1
22	Recent demonstration of record high gradients in dielectric laser accelerating structures. AIP Conference Proceedings, 2017, , .	0.4	1
23	Metamaterials for optical Bragg accelerators. Applied Physics Letters, 2018, 112, .	3.3	1
24	Amplification of flat laser pulse train. Optics Express, 2018, 26, 30818.	3.4	1
25	Blinking characterization by the eyelid motion monitor. , 2017, , .		0
26	Critical phenomenon in tapered dielectric structures. Optics Letters, 2017, 42, 4458.	3.3	0