Daniel Ratner

List of Publications by Year
in descending order

13 papers	3,663 citations	1163117 8 h-index	1125743 13 g-index
13 all docs	13 docs citations	13 times ranked	3611 citing authors

#	Article	IF	Citations
1	Dynamics of particle network in composite battery cathodes. Science, 2022, 376, 517-521.	12.6	86
2	Differentiable Preisach Modeling for Characterization and Optimization of Particle Accelerator Systems with Hysteresis. Physical Review Letters, 2022, 128, .	7.8	4
3	Recovering the phase and amplitude of X-ray FEL pulses using neural networks and differentiable models. Optics Express, 2021, 29, 20336.	3.4	5
4	Temporal X-ray Reconstruction using Temporal and Spectral Measurements at LCLS. Scientific Reports, 2020, 10, 9799.	3.3	2
5	Bayesian Optimization of a Free-Electron Laser. Physical Review Letters, 2020, 124, 124801.	7.8	71
6	Temporal power reconstruction for an x-ray free-electron laser using convolutional neural networks. Physical Review Accelerators and Beams, 2020, 23, .	1.6	7
7	What are the advantages of ghost imaging? Multiplexing for x-ray and electron imaging. Optics Express, 2020, 28, 5898.	3.4	32
8	Pump-Probe Ghost Imaging with SASE FELs. Physical Review X, 2019, 9, .	8.9	12
9	Experimental observations of seed growth and accompanying pedestal contamination in a self-seeded, soft x-ray free-electron laser. Physical Review Accelerators and Beams, 2019, 22, .	1.6	18
10	Temporal X-ray reconstruction using temporal and spectral measurements. Journal of Physics: Conference Series, 2018, 1067, 032011.	0.4	2
11	Experimental Demonstration of a Soft X-Ray Self-Seeded Free-Electron Laser. Physical Review Letters, 2015, 114, 054801.	7.8	145
12	Demonstration of self-seeding in a hard-X-ray free-electron laser. Nature Photonics, 2012, 6, 693-698.	31.4	579
13	First lasing and operation of an Ångstrom-wavelength free-electron laser. Nature Photonics, 2010, 4, 641-647.	31.4	2,700