Anne Oppelt

List of Publications by Year
in descending order

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20 papers	2,059 citations	1040056 9 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	2291 citing authors

#	Article	IF	Citations
1	Operation of a free-electron laser from the extreme ultraviolet to the water window. Nature Photonics, 2007, 1, 336-342.	31.4	1,455
2	A MHz-repetition-rate hard X-ray free-electron laser driven by a superconducting linear accelerator. Nature Photonics, 2020, 14, 391-397.	31.4	315
3	Detailed characterization of electron sources yielding first demonstration of European X-ray Free-Electron Laser beam quality. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	77
4	Experimentally minimized beam emittance from an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi></mml:math>-band photoinjector. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	76
5	Observation of High Transformer Ratio Plasma Wakefield Acceleration. Physical Review Letters, 2018, 121, 064801.	7.8	44
6	Passive Ballistic Microbunching of Nonultrarelativistic Electron Bunches Using Electromagnetic Wakefields in Dielectric-Lined Waveguides. Physical Review Letters, 2019, 122, 044801.	7.8	24
7	Spatio-temporal shaping of photocathode laser pulses for linear electron accelerators. Physics-Uspekhi, 2017, 60, 1039-1050.	2.2	17
8	Photocathode laser based bunch shaping for high transformer ratio plasma wakefield acceleration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 107-110.	1.6	11
9	Direct measurement of photocathode time response in a high-brightness photoinjector. Applied Physics Letters, 2022, 120, .	3.3	11
10	Charge production studies from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml30" display="inline" overflow="scroll" altimg="si30.gif"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Cs</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">Te</mml:mi></mml:math> photocathodes in a normal conducting RF gun. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 871, 97-104.	1.6	7
11	Jitter mitigation in low density discharge plasma cells for wakefield accelerators. Journal of Applied Physics, 2019, 125, .	2.5	6
12	Single shot cathode transverse momentum imaging in high brightness photoinjectors. Physical Review Accelerators and Beams, 2020, 23, .	1.6	6
13	Plasma density measurement by means of self-modulation of long electron bunches. Plasma Physics and Controlled Fusion, 2019, 61, 045012.	2.1	4
14	Characterization of self-modulated electron bunches in an argon plasma. Journal of Physics: Conference Series, 2018, 1067, 042012.	0.4	2
15	Generation of quasi continuous-wave electron beams in an L-band normal conducting pulsed RF injector for laboratory astrophysics experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 903, 119-125.	1.6	1
16	Preliminary study for the laboratory experiment of cosmic-rays driven magnetic field amplification. High Energy Density Physics, 2019, 32, 31-43.	1.5	1
17	Budgeting the emittance of photoemitted electron beams in a space-charge affected emission regime for free-electron laser applications. AIP Advances, 2020, 10, 035017.	1.3	1
18	Frequency-detuning dependent transient coaxial rf coupler kick in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi></mml:math>-band long-pulse high-gradient rf photogun. Physical Review Accelerators and Beams, 2020, 23, .	1.6	1

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19	Overview and prospects of plasma wakefield acceleration experiments at PITZ. Journal of Physics: Conference Series, 2019, 1350, 012057.	0.4	0
20	Anomalous correlation between quantum efficiency and transverse momentum spread in semiconductor cathode photoemission. Physical Review Accelerators and Beams, 2022, 25, .	1.6	0