## Alexander Koehler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Multioctave high-dynamic range optical spectrometer for single-pulse, longitudinal characterization of ultrashort electron bunches. Physical Review Accelerators and Beams, 2022, 25, .	1.6	6
2	Demonstration of a compact plasma accelerator powered by laser-accelerated electron beams. Nature Communications, 2021, 12, 2895.	12.8	31
3	Compact spectroscopy of keV to MeV X-rays from a laser wakefield accelerator. Scientific Reports, 2021, 11, 14368.	3.3	12
4	Restoring betatron phase coherence in a beam-loaded laser-wakefield accelerator. Physical Review Accelerators and Beams, 2021, 24, .	1.6	4
5	Coherent Optical Signatures of Electron Microbunching in Laser-Driven Plasma Accelerators. Physical Review Letters, 2020, 125, 014801.	7.8	15
6	Probing ultrafast magnetic-field generation by current filamentation instability in femtosecond relativistic laser-matter interactions. Physical Review Research, 2020, 2, .	3.6	19
7	Hybrid LWFA–PWFA staging as a beam energy and brightness transformer: conceptual design and simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180175.	3.4	11
8	Charge calibration of DRZ scintillation phosphor screens. Journal of Instrumentation, 2019, 14, P09025-P09025.	1.2	3
9	Direct Observation of Plasma Waves and Dynamics Induced by Laser-Accelerated Electron Beams. Physical Review X, 2019, 9, .	8.9	19
10	Improved performance of laser wakefield acceleration by tailored self-truncated ionization injection. Plasma Physics and Controlled Fusion, 2018, 60, 044015.	2.1	16
11	Quantitatively consistent computation of coherent and incoherent radiation in particle-in-cell codesâ€"A general form factor formalism for macro-particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 419-422.	1.6	4
12	Making spectral shape measurements in inverse Compton scattering a tool for advanced diagnostic applications. Scientific Reports, 2018, 8, 1398.	3.3	34
13	Observations of Coherent Optical Transition Radiation Interference Fringes Generated by Laser Plasma Accelerator Electron Beamlets. , 2018, , .		0
14	Advanced Methods for Temporal Reconstruction of Modulated Electron Bunches. , 2018, , .		0
15	Calibration and cross-laboratory implementation of scintillating screens for electron bunch charge determination. Review of Scientific Instruments, 2018, 89, 093303.	1.3	29
16	Diagnostics for plasma-based electron accelerators. Reviews of Modern Physics, 2018, 90, .	45.6	107
17	First results with the novel petawatt laser acceleration facility in Dresden. Journal of Physics: Conference Series, 2017, 874, 012028.	0.4	68
18	Demonstration of a beam loaded nanocoulomb-class laser wakefield accelerator. Nature Communications, 2017, 8, 487.	12.8	124

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19	Tomographic characterisation of gas-jet targets for laser wakefield acceleration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 504-509.	1.6	28
20	Single-shot betatron source size measurement from a laser-wakefield accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 265-269.	1.6	11
21	How to test and verify radiation diagnostics simulations within particle-in-cell frameworks. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 250-256.	1.6	14
22	Radiative signatures of the relativistic Kelvin-Helmholtz instability. , 2013, , .		57
23	Linear and non-linear Thomson-scattering x-ray sources driven by conventionally and laser plasma accelerated electrons. Proceedings of SPIE, 2009, , .	0.8	16
24	A compact synchrotron radiation source driven by a laser-plasma wakefield accelerator. Nature Physics, 2008, 4, 130-133.	16.7	313