

Klaus Steiniger

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

265
citations

1040056

9
h-index

996975

15
g-index

18
all docs

18
docs citations

18
times ranked

428
citing authors

#	ARTICLE	IF	CITATIONS
1	First results with the novel petawatt laser acceleration facility in Dresden. Journal of Physics: Conference Series, 2017, 874, 012028.	0.4	68
2	Circumventing the Dephasing and Depletion Limits of Laser-Wakefield Acceleration. Physical Review X, 2019, 9, .	8.9	38
3	Demonstration of a compact plasma accelerator powered by laser-accelerated electron beams. Nature Communications, 2021, 12, 2895.	12.8	31
4	Optical free-electron lasers with Traveling-Wave Thomson-Scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 234011.	1.5	28
5	Probing ultrafast magnetic-field generation by current filamentation instability in femtosecond relativistic laser-matter interactions. Physical Review Research, 2020, 2, .	3.6	19
6	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
7	Realizing quantum free-electron lasers: a critical analysis of experimental challenges and theoretical limits. Physica Scripta, 2019, 94, 074001.	2.5	13
8	Building an Optical Free-Electron Laser in the Traveling-Wave Thomson-Scattering Geometry. Frontiers in Physics, 2019, 6, .	2.1	11
9	Gas-dynamic density downramp injection in a beam-driven plasma wakefield accelerator. Physical Review Research, 2021, 3, .	3.6	11
10	Wave optical description of the Traveling-Wave Thomson-Scattering optical undulator field and its application to the TWTS-FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 147-152.	1.6	8
11	Identifying the linear phase of the relativistic Kelvin-Helmholtz instability and measuring its growth rate via radiation. Physical Review E, 2017, 96, 013316.	2.1	6
12	Quantitatively consistent computation of coherent and incoherent radiation in particle-in-cell codes – 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
13	Evaluating GPU Programming Models for the LUMI Supercomputer. Lecture Notes in Computer Science, 2022, , 79-101.	1.3	4
14	Brilliant and efficient optical free-electron lasers with traveling-wave Thomson-Scattering. AIP Conference Proceedings, 2016, , .	0.4	3
15	Simulations of ultrafast x-ray laser experiments. , 2017, , .		3
16	Challenges Porting a C++ Template-Metaprogramming Abstraction Layer to Directive-Based Offloading. Lecture Notes in Computer Science, 2022, , 92-111.	1.3	3
17	Bright X-ray pulse generation by laser Thomson-backscattering and traveling wave optical undulators. , 2014, , .		1
18	Scaling EUV and X-ray Thomson sources to optical free-electron laser operation with traveling-wave Thomson scattering (Conference Presentation). , 2017, , .		0