Sven Reiche

List of Publications by Year
in descending order

		759233	794594
19	759	12	19
papers	citations	h-index	g-index

19	19	19	1015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720.	2.5	272
2	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. Nature Photonics, 2020, 14, 748-754.	31.4	140
3	Simple Method to Generate Terawatt-Attosecond X-Ray Free-Electron-Laser Pulses. Physical Review Letters, 2015, 114, 244801.	7.8	80
4	The SwissFEL soft X-ray free-electron laser beamline: Athos. Journal of Synchrotron Radiation, 2019, 26, 1073-1084.	2.4	51
5	Efficient generation of short and high-power x-ray free-electron-laser pulses based on superradiance with a transversely tilted beam. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	47
6	Generation of ultra-large-bandwidth X-ray free-electron-laser pulses with a transverse-gradient undulator. Journal of Synchrotron Radiation, 2016, 23, 874-879.	2.4	27
7	Two-color operation of a free-electron laser with a tilted beam. Journal of Synchrotron Radiation, 2016, 23, 869-873.	2.4	21
8	Single- and two-color attosecond hard x-ray free-electron laser pulses with nonlinear compression. Physical Review Research, 2020, 2, .	3.6	21
9	Undulator beamline optimization with integrated chicanes for X-ray free-electron-laser facilities. Journal of Synchrotron Radiation, 2016, 23, 861-868.	2.4	18
10	Demonstration of Large Bandwidth Hard X-Ray Free-Electron Laser Pulses at SwissFEL. Physical Review Letters, 2020, 124, 074801.	7.8	16
11	Generation of large-bandwidth x-ray free-electron-laser pulses. Physical Review Accelerators and Beams, 2016, 19, .	1.6	16
12	Enhanced X-ray free-electron-laser performance from tilted electron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 865, 1-8.	1.6	12
13	Pink-beam serial femtosecond crystallography for accurate structure-factor determination at an X-ray free-electron laser. IUCrJ, 2021, 8, 905-920.	2.2	11
14	Widely tunable two-color x-ray free-electron laser pulses. Physical Review Research, 2022, 4, .	3.6	8
15	Compact coherence enhancement by subharmonic self-seeding in X-ray free-electron laser facilities. Journal of Synchrotron Radiation, 2018, 25, 329-335.	2.4	6
16	Demonstration of a compact x-ray free-electron laser using the optical klystron effect. Applied Physics Letters, 2021, 119, .	3.3	6
17	Applications and Limits of Time-to-Energy Mapping of Protein Crystal Diffraction Using Energy-Chirped Polychromatic XFEL Pulses. Applied Sciences (Switzerland), 2020, 10, 2599.	2.5	3
18	A perfect X-ray beam splitter and its applications to time-domain interferometry and quantum optics exploiting free-electron lasers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	3

#	Article	IF	Citations
19	Characterization of the Electron Beam in the ACHIP Chamber in SwissFEL. Journal of Physics: Conference Series, 2020, 1596, 012019.	0.4	1