

# Christian Roedel

## List of Publications by Year in descending order

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26  
papers

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citations

623734

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docs citations

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times ranked

953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale subsurface dynamics of solids upon high-intensity femtosecond laser irradiation observed by grazing-incidence x-ray scattering. <i>Physical Review Research</i> , 2022, 4, .	3.6	5
2	Conceptual design report for the LUXE experiment. <i>European Physical Journal: Special Topics</i> , 2021, 230, 2445-2560.	2.6	89
3	Analysis of laser-proton acceleration experiments for development of empirical scaling laws. <i>Physical Review E</i> , 2021, 104, 045210.	2.1	12
4	On-shot characterization of single plasma mirror temporal contrast improvement. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054007.	2.1	23
5	A sensitive EUV Schwarzschild microscope for plasma studies with sub-micrometer resolution. <i>Review of Scientific Instruments</i> , 2018, 89, 023703.	1.3	10
6	All-optical structuring of laser-driven proton beam profiles. <i>Nature Communications</i> , 2018, 9, 5292.	12.8	16
7	Experimental observation of attosecond control over relativistic electron bunches with two-colour fields. <i>Nature Photonics</i> , 2017, 11, 32-35.	31.4	44
8	High repetition rate, multi-MeV proton source from cryogenic hydrogen jets. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	42
9	Nanometer-scale characterization of laser-driven compression, shocks, and phase transitions, by x-ray scattering using free electron lasers. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
10	Relativistic Electron Streaming Instabilities Modulate Proton Beams Accelerated in Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2017, 118, 194801.	7.8	67
11	Broadband XUV polarimetry of high harmonics from plasma surfaces using multiple Fresnel reflections. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 241-245.	2.2	3
12	Noncollinear Polarization Gating of Attosecond Pulse Trains in the Relativistic Regime. <i>Physical Review Letters</i> , 2015, 115, 193903.	7.8	34
13	Long-term operation of surface high-harmonic generation from relativistic oscillating mirrors using a spooling tape. <i>Optics Express</i> , 2015, 23, 12321.	3.4	7
14	Near-monochromatic high-harmonic radiation from relativistic laser-plasma interactions with blazed grating surfaces. <i>New Journal of Physics</i> , 2013, 15, 025042.	2.9	13
15	Sensitivity calibration of an imaging extreme ultraviolet spectrometer-detector system for determining the efficiency of broadband extreme ultraviolet sources. <i>Review of Scientific Instruments</i> , 2013, 84, 023101.	1.3	15
16	Dynamics of Relativistically Oscillating Mirrors. , 2013, , .		0
17	Generation of $10^{14}$ W relativistic surface high-harmonic radiation at a repetition rate of 10 Hz. <i>New Journal of Physics</i> , 2012, 14, 065005.	2.9	20
18	Thomson backscattering from laser-generated, relativistically moving high-density electron layers. <i>New Journal of Physics</i> , 2012, 14, 093018.	2.9	4

#	ARTICLE	IF	CITATIONS
19	Note: A large aperture four-mirror reflective wave-plate for high-intensity short-pulse laser experiments. Review of Scientific Instruments, 2012, 83, 036104.	1.3	6
20	Interference Carpets in Above-Threshold Ionization: From the Coulomb-Free to the Coulomb-Dominated Regime. Physical Review Letters, 2012, 108, 223601.	7.8	94
21	Harmonic Generation from Relativistic Plasma Surfaces in Ultrasteep Plasma Density Gradients. Physical Review Letters, 2012, 109, 125002.	7.8	99
22	Optical coherence tomography using broad-bandwidth XUV and soft X-ray radiation. Applied Physics B: Lasers and Optics, 2012, 106, 789-795.	2.2	28
23	Laser acceleration in the radiation-pressure-regime from ultra-thin polymer foils. , 2012, , .		0
24	Controlling the Spacing of Attosecond Pulse Trains from Relativistic Surface Plasmas. Physical Review Letters, 2011, 106, 185002.	7.8	51
25	High repetition rate plasma mirror for temporal contrast enhancement of terawatt femtosecond laser pulses by three orders of magnitude. Applied Physics B: Lasers and Optics, 2011, 103, 295-302.	2.2	46
26	Particle and x-ray generation by irradiation of gaseous and solid targets with a 100â€%TW laser pulse. Plasma Physics and Controlled Fusion, 2009, 51, 124049.	2.1	14