Cedric Thaury

List of Publications by Year
in descending order

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82 papers	2,904 citations	201674 27 h-index	161849 54 g-index
84 all docs	84 docs citations	84 times ranked	2123 citing authors

#	Article	IF	Citations
1	Plasma mirrors for ultrahigh-intensity optics. Nature Physics, 2007, 3, 424-429.	16.7	433
2	All-optical Compton gamma-ray source. Nature Photonics, 2012, 6, 308-311.	31.4	422
3	Coherent Wake Emission of High-Order Harmonics from Overdense Plasmas. Physical Review Letters, 2006, 96, 125004.	7.8	292
4	High-order harmonic and attosecond pulse generation on plasma mirrors: basic mechanisms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 213001.	1.5	169
5	Observation of longitudinal and transverse self-injections in laser-plasma accelerators. Nature Communications, 2013, 4, 1501.	12.8	97
6	Numerical growth of emittance in simulations of laser-wakefield acceleration. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	75
7	Phase Properties of Laser High-Order Harmonics Generated on Plasma Mirrors. Physical Review Letters, 2008, 100, 095004.	7.8	69
8	Stable multi-GeV electron accelerator driven by waveform-controlled PW laser pulses. Scientific Reports, 2017, 7, 10203.	3.3	69
9	Shock assisted ionization injection in laser-plasma accelerators. Scientific Reports, 2015, 5, 16310.	3.3	67
10	Demonstration of relativistic electron beam focusing by a laser-plasma lens. Nature Communications, 2015, 6, 6860.	12.8	66
11	Electron Rephasing in a Laser-Wakefield Accelerator. Physical Review Letters, 2015, 115, 155002.	7.8	63
12	Table-top femtosecond soft X-ray laser by collisional ionization gating. Nature Photonics, 2015, 9, 817-821.	31.4	61
13	An ultracompact X-ray source based on a laser-plasma undulator. Nature Communications, 2014, 5, 4736.	12.8	57
14	Phase-locked laser-wakefield electron acceleration. Nature Photonics, 2020, 14, 475-479.	31.4	56
15	Optical Transverse Injection in Laser-Plasma Acceleration. Physical Review Letters, 2013, 111, 085005.	7.8	51
16	Control of laser plasma accelerated electrons for light sources. Nature Communications, 2018, 9, 1334.	12.8	50
17	Laser-plasma lens for laser-wakefield accelerators. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	49
18	An application of laserâ€“plasma acceleration: towards a free-electron laser amplification. Plasma Physics and Controlled Fusion, 2016, 58, 034020.	2.1	45

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19	Coherent dynamics of plasma mirrors. Nature Physics, 2008, 4, 631-634.	16.7	42
20	Stable femtosecond X-rays with tunable polarization from a laser-driven accelerator. Light: Science and Applications, 2017, 6, e17086-e17086.	16.6	42
21	Axiparabola: a long-focal-depth, high-resolution mirror for broadband high-intensity lasers. Optics Letters, 2019, 44, 3414.	3.3	42
22	Energy-Chirp Compensation in a Laser Wakefield Accelerator. Physical Review Letters, 2018, 121, 074802.	7.8	41
23	Fast-Ion Energy-Flux Enhancement from Ultrathin Foils Irradiated by Intense and High-Contrast Short Laser Pulses. Physical Review Letters, 2008, 101, 155002.	7.8	40
24	High-Brilliance Betatron <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> -Ray Source Powered by Laser-Accelerated Electrons. Physical Review Letters, 2018, 120, 254802.	7.8	40
25	Mapping the X-Ray Emission Region in a Laser-Plasma Accelerator. Physical Review Letters, 2011, 107, 215004.	7.8	37
26	Angular-Momentum Evolution in Laser-Plasma Accelerators. Physical Review Letters, 2013, 111, 135002.	7.8	30
27	Energy boost in laser wakefield accelerators using sharp density transitions. Physics of Plasmas, 2016, 23, .	1.9	28
28	A bremsstrahlung gamma-ray source based on stable ionization injection of electrons into a laser wakefield accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 515-519.	1.6	28
29	Physics of fully-loaded laser-plasma accelerators. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	26
30	Self-generation of megagauss magnetic fields during the expansion of a plasma. Physical Review E, 2010, 82, 016408.	2.1	21
31	Controlled acceleration of GeV electron beams in an all-optical plasma waveguide. Light: Science and Applications, 2022, 11, .	16.6	21
32	Tuning the electron energy by controlling the density perturbation position in laser plasma accelerators. Physics of Plasmas, 2012, 19, 063104.	1.9	19
33	3D printing of gas jet nozzles for laser-plasma accelerators. Review of Scientific Instruments, 2016, 87, 073505.	1.3	19
34	Hard X Rays from Laser-Wakefield Accelerators in Density Tailored Plasmas. Physical Review X, 2020, 10, .	8.9	19
35	An all-optical Compton source for single-exposure x-ray imaging. Plasma Physics and Controlled Fusion, 2016, 58, 034005.	2.1	18
36	Mechanisms of forward laser harmonic emission from thin overdense plasmas. New Journal of Physics, 2009, 11, 113028.	2.9	16

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37	Numerical studies of density transition injection in laser wakefield acceleration. Plasma Physics and Controlled Fusion, 2017, 59, 085004.	2.1	15
38	Quasi-monoenergetic multi-GeV electron acceleration by optimizing the spatial and spectral phases of PW laser pulses. Plasma Physics and Controlled Fusion, 2018, 60, 064007.	2.1	14
39	Brunel-Dominated Proton Acceleration with a Few-Cycle Laser Pulse. Physical Review Letters, 2012, 108, 075004.	7.8	13
40	Axiparabola: a new tool for high-intensity optics. Journal of Optics (United Kingdom), 2022, 24, 045503.	2.2	13
41	Influence of the Weibel instability on the expansion of a plasma slab into a vacuum. Physical Review E, 2010, 82, 026408.	2.1	12
42	Betatron emission as a diagnostic for injection and acceleration mechanisms in laser plasma accelerators. Plasma Physics and Controlled Fusion, 2012, 54, 124023.	2.1	12
43	Calibration of imaging plates to electrons between 40 and 180 MeV. Review of Scientific Instruments, 2016, 87, 053306.	1.3	12
44	Tunable High Spatio-Spectral Purity Undulator Radiation from a Transported Laser Plasma Accelerated Electron Beam. Scientific Reports, 2019, 9, 19020.	3.3	12
45	The LUNEX5 project in France. Journal of Physics: Conference Series, 2013, 425, 072001.	0.4	9
46	Basic mechanisms of laser high-order harmonic generation from plasma mirrors. Journal of Modern Optics, 2008, 55, 2711-2721.	1.3	8
47	High-order harmonic generation using plasma mirrors. Plasma Physics and Controlled Fusion, 2008, 50, 124007.	2.1	8
48	Transverse dynamics of an intense electron bunch traveling through a pre-ionized plasma. Physics of Plasmas, 2014, 21, 043104.	1.9	7
49	Skew Quadrupole Effect of Laser Plasma Electron Beam Transport. Applied Sciences (Switzerland), 2019, 9, 2447.	2.5	7
50	Regimes of expansion of a collisional plasma into a vacuum. Physics of Plasmas, 2009, 16, 093104.	1.9	6
51	Measurement and control of main spatio-temporal couplings in a CPA laser chain. Journal of Optics (United Kingdom), 2021, 23, 06LT01.	2.2	6
52	Comment on â€œTransition to the Relativistic Regime in High Order Harmonic Generationâ€• Physical Review Letters, 2008, 100, 089401; author reply 089402.	7.8	5
53	COXINEL transport of laser plasma accelerated electrons. Plasma Physics and Controlled Fusion, 2020, 62, 034001.	2.1	5
54	Energy spread tuning of a laser-plasma accelerated electron beam in a magnetic chicane. Plasma Physics and Controlled Fusion, 2020, 62, 074003.	2.1	4

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55	Numerical study of laser energy effects on density transition injection in laser wakefield acceleration. Plasma Physics and Controlled Fusion, 2018, 60, 034005.	2.1	3
56	The LUNEX5 Project in France. Springer Proceedings in Physics, 2014, , 55-62.	0.2	3
57	High-order harmonic generation from plasma mirrors. European Physical Journal: Special Topics, 2009, 175, 43-48.	2.6	2
58	Enhanced ion acceleration with extremely thin foils. European Physical Journal: Special Topics, 2009, 175, 133-138.	2.6	2
59	Probing electron acceleration and x-ray emission in laser-plasma accelerators. Physics of Plasmas, 2013, 20, 063101.	1.9	2
60	AccÃ©lÃ©rateurs Ã plasma laser : principes et applications. , 2013, , 23-26.	0.1	2
61	Comment on â€œElectron Temperature Scaling in Laser Interaction with Solidsâ€• Physical Review Letters, 2013, 111, 219501.	7.8	1
62	Two mechanisms of high harmonic generation from overdense laser plasmas - relativistic and non-relativistic. , 2007, , .		0
63	High-order harmonic generation in high intensity laser-solid interactions. , 2008, , .		0
64	Intrinsic phase of high order harmonics generated on plasma mirrors. , 2010, , .		0
65	Control and Mapping of X-Ray Emission in a Laser-Plasma Accelerator. , 2012, , .		0
66	All-optical Betatron and Compton x-ray sources and application to phase contrast imaging. , 2012, , .		0
67	Observations of longitudinal and transverse self-injections in laser-plasma wakefield accelerators. Proceedings of SPIE, 2013, , .	0.8	0
68	X-ray emission from laser-accelerated electrons and its use as diagnostic of laser-plasma interaction. , 2014, , .		0
69	Single Shot Radiography Using an All-optical Compton Backscattering Source. Physics Procedia, 2015, 77, 9-14.	1.2	0
70	Experiment preparation towards a demonstration of laser plasma based free electron laser amplification. , 2015, , .		0
71	Towards a free electron laser using laser plasma acceleration on COXINEL. , 2019, , .		0
72	Control of Relativistic and Non-Relativistic High- Harmonic Generation from Overdense Laser Plasmas. , 2006, , .		0

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73	Ã‰mission cohÃ©rente de sillage et dynamique plasma. , 2009, , .		0
74	Probing the dynamics of plasma mirrors on the attosecond time scale. Springer Series in Chemical Physics, 2009, , 93-95.	0.2	0
75	High-Order Harmonic Generation on Plasma Mirrors: Toward Attosecond Sources of Second Generation. , 2010, , .		0
76	Femtosecond x-rays from relativistic laser-plasma interaction. , 2012, , .		0
77	Bright Femtosecond X-ray beams from Betatron Radiation and Thomson Backscattering. , 2012, , .		0
78	LUNEX5: Toward an advanced FEL project. , 2013, , .		0
79	A compact ultra-intense plasma-based EUV laser with circular polarization capability. , 2016, , .		0
80	Toward compact and ultra-intense laser based soft x-ray lasers. , 2017, , .		0
81	Laser-plasma acceleration with superluminal laser pulses. , 2020, , .		0
82	Progress towards laser plasma based free electron laser on COXINEL. Journal of Physics: Conference Series, 2020, 1596, 012040.	0.4	0