

# 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	Axiparabola: a new tool for high-intensity optics. Journal of Optics (United Kingdom), 2022, 24, 045503.	2.2	13
2	Controlled acceleration of GeV electron beams in an all-optical plasma waveguide. Light: Science and Applications, 2022, 11, .	16.6	21
3	Measurement and control of main spatio-temporal couplings in a CPA laser chain. Journal of Optics (United Kingdom), 2021, 23, 06LT01.	2.2	6
4	COXINEL transport of laser plasma accelerated electrons. Plasma Physics and Controlled Fusion, 2020, 62, 034001.	2.1	5
5	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
6	Hard X Rays from Laser-Wakefield Accelerators in Density Tailored Plasmas. Physical Review X, 2020, 10, .	8.9	19
7	Phase-locked laser-wakefield electron acceleration. Nature Photonics, 2020, 14, 475-479.	31.4	56
8	Laser-plasma acceleration with superluminal laser pulses. , 2020, , .		0
9	Progress towards laser plasma based free electron laser on COXINEL. Journal of Physics: Conference Series, 2020, 1596, 012040.	0.4	0
10	Skew Quadrupole Effect of Laser Plasma Electron Beam Transport. Applied Sciences (Switzerland), 2019, 9, 2447.	2.5	7
11	Axiparabola: a long-focal-depth, high-resolution mirror for broadband high-intensity lasers. Optics Letters, 2019, 44, 3414.	3.3	42
12	Tunable High Spatio-Spectral Purity Undulator Radiation from a Transported Laser Plasma Accelerated Electron Beam. Scientific Reports, 2019, 9, 19020.	3.3	12
13	Towards a free electron laser using laser plasma acceleration on COXINEL. , 2019, , .		0
14	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
15	Control of laser plasma accelerated electrons for light sources. Nature Communications, 2018, 9, 1334.	12.8	50
16	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
17	Energy-Chirp Compensation in a Laser Wakefield Accelerator. Physical Review Letters, 2018, 121, 074802.	7.8	41
18	High-Brilliance Betatron $\gamma^3$ -Ray Source Powered by Laser-Accelerated Electrons. Physical Review Letters, 2018, 120, 254802.	7.8	40

#	ARTICLE	IF	CITATIONS
19	Numerical studies of density transition injection in laser wakefield acceleration. Plasma Physics and Controlled Fusion, 2017, 59, 085004.	2.1	15
20	Stable multi-GeV electron accelerator driven by waveform-controlled PW laser pulses. Scientific Reports, 2017, 7, 10203.	3.3	69
21	Stable femtosecond X-rays with tunable polarization from a laser-driven accelerator. Light: Science and Applications, 2017, 6, e17086-e17086.	16.6	42
22	Toward compact and ultra-intense laser based soft x-ray lasers. , 2017, , .		0
23	Calibration of imaging plates to electrons between 40 and 180 MeV. Review of Scientific Instruments, 2016, 87, 053306.	1.3	12
24	3D printing of gas jet nozzles for laser-plasma accelerators. Review of Scientific Instruments, 2016, 87, 073505.	1.3	19
25	Energy boost in laser wakefield accelerators using sharp density transitions. Physics of Plasmas, 2016, 23, .	1.9	28
26	An application of laserâ€™plasma acceleration: towards a free-electron laser amplification. Plasma Physics and Controlled Fusion, 2016, 58, 034020.	2.1	45
27	An all-optical Compton source for single-exposure x-ray imaging. Plasma Physics and Controlled Fusion, 2016, 58, 034005.	2.1	18
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	A compact ultra-intense plasma-based EUV laser with circular polarization capability. , 2016, , .		0
30	Electron Rephasing in a Laser-Wakefield Accelerator. Physical Review Letters, 2015, 115, 155002.	7.8	63
31	Shock assisted ionization injection in laser-plasma accelerators. Scientific Reports, 2015, 5, 16310.	3.3	67
32	Single Shot Radiography Using an All-optical Compton Backscattering Source. Physics Procedia, 2015, 77, 9-14.	1.2	0
33	Demonstration of relativistic electron beam focusing by a laser-plasma lens. Nature Communications, 2015, 6, 6860.	12.8	66
34	Experiment preparation towards a demonstration of laser plasma based free electron laser amplification. , 2015, , .		0
35	Table-top femtosecond soft X-ray laser by collisional ionization gating. Nature Photonics, 2015, 9, 817-821.	31.4	61
36	Physics of fully-loaded laser-plasma accelerators. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	26

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37	Laser-plasma lens for laser-wakefield accelerators. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	49
38	An ultracompact X-ray source based on a laser-plasma undulator. Nature Communications, 2014, 5, 4736.	12.8	57
39	Transverse dynamics of an intense electron bunch traveling through a pre-ionized plasma. Physics of Plasmas, 2014, 21, 043104.	1.9	7
40	X-ray emission from laser-accelerated electrons and its use as diagnostic of laser-plasma interaction. , 2014, , .		0
41	The LUNEX5 Project in France. Springer Proceedings in Physics, 2014, , 55-62.	0.2	3
42	Optical Transverse Injection in Laser-Plasma Acceleration. Physical Review Letters, 2013, 111, 085005.	7.8	51
43	Observation of longitudinal and transverse self-injections in laser-plasma accelerators. Nature Communications, 2013, 4, 1501.	12.8	97
44	Angular-Momentum Evolution in Laser-Plasma Accelerators. Physical Review Letters, 2013, 111, 135002.	7.8	30
45	Observations of longitudinal and transverse self-injections in laser-plasma wakefield accelerators. Proceedings of SPIE, 2013, , .	0.8	0
46	Probing electron acceleration and x-ray emission in laser-plasma accelerators. Physics of Plasmas, 2013, 20, 063101.	1.9	2
47	Numerical growth of emittance in simulations of laser-wakefield acceleration. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	75
48	Comment on "Electron Temperature Scaling in Laser Interaction with Solids" Physical Review Letters, 2013, 111, 219501.	7.8	1
49	The LUNEX5 project in France. Journal of Physics: Conference Series, 2013, 425, 072001.	0.4	9
50	LUNEX5: Toward an advanced FEL project. , 2013, , .		0
51	Accélérateurs à plasma laser : principes et applications. , 2013, , 23-26.	0.1	2
52	Brunel-Dominated Proton Acceleration with a Few-Cycle Laser Pulse. Physical Review Letters, 2012, 108, 075004.	7.8	13
53	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
54	Control and Mapping of X-Ray Emission in a Laser-Plasma Accelerator. , 2012, , .		0

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55	All-optical Betatron and Compton x-ray sources and application to phase contrast imaging. , 2012, , .		0
56	All-optical Compton gamma-ray source. Nature Photonics, 2012, 6, 308-311.	31.4	422
57	Tuning the electron energy by controlling the density perturbation position in laser plasma accelerators. Physics of Plasmas, 2012, 19, 063104.	1.9	19
58	Femtosecond x-rays from relativistic laser-plasma interaction. , 2012, , .		0
59	Bright Femtosecond X-ray beams from Betatron Radiation and Thomson Backscattering. , 2012, , .		0
60	Mapping the X-Ray Emission Region in a Laser-Plasma Accelerator. Physical Review Letters, 2011, 107, 215004.	7.8	37
61	Intrinsic phase of high order harmonics generated on plasma mirrors. , 2010, , .		0
62	Self-generation of megagauss magnetic fields during the expansion of a plasma. Physical Review E, 2010, 82, 016408.	2.1	21
63	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
64	Influence of the Weibel instability on the expansion of a plasma slab into a vacuum. Physical Review E, 2010, 82, 026408.	2.1	12
65	High-Order Harmonic Generation on Plasma Mirrors: Toward Attosecond Sources of Second Generation. , 2010, , .		0
66	Regimes of expansion of a collisional plasma into a vacuum. Physics of Plasmas, 2009, 16, 093104.	1.9	6
67	Mechanisms of forward laser harmonic emission from thin overdense plasmas. New Journal of Physics, 2009, 11, 113028.	2.9	16
68	High-order harmonic generation from plasma mirrors. European Physical Journal: Special Topics, 2009, 175, 43-48.	2.6	2
69	Enhanced ion acceleration with extremely thin foils. European Physical Journal: Special Topics, 2009, 175, 133-138.	2.6	2
70	Ãmission cohÃrente de sillage et dynamique plasma. , 2009, , .		0
71	Probing the dynamics of plasma mirrors on the attosecond time scale. Springer Series in Chemical Physics, 2009, , 93-95.	0.2	0
72	Coherent dynamics of plasma mirrors. Nature Physics, 2008, 4, 631-634.	16.7	42

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73	Basic mechanisms of laser high-order harmonic generation from plasma mirrors. Journal of Modern Optics, 2008, 55, 2711-2721.	1.3	8
74	High-order harmonic generation using plasma mirrors. Plasma Physics and Controlled Fusion, 2008, 50, 124007.	2.1	8
75	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
76	Comment on "Transition to the Relativistic Regime in High Order Harmonic Generation". Physical Review Letters, 2008, 100, 089401; author reply 089402.	7.8	5
77	Phase Properties of Laser High-Order Harmonics Generated on Plasma Mirrors. Physical Review Letters, 2008, 100, 095004.	7.8	69
78	High-order harmonic generation in high intensity laser-solid interactions. , 2008, , .		0
79	Two mechanisms of high harmonic generation from overdense laser plasmas - relativistic and non-relativistic. , 2007, , .		0
80	Plasma mirrors for ultrahigh-intensity optics. Nature Physics, 2007, 3, 424-429.	16.7	433
81	Coherent Wake Emission of High-Order Harmonics from Overdense Plasmas. Physical Review Letters, 2006, 96, 125004.	7.8	292
82	Control of Relativistic and Non-Relativistic High- Harmonic Generation from Overdense Laser Plasmas. , 2006, , .		0