

Cedric Courtois

List of Publications by Year in descending order

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43
papers

1,091
citations

430874

18
h-index

395702

33
g-index

45
all docs

45
docs citations

45
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Relativistic Quasimonoenergetic Positron Jets from Intense Laser-Solid Interactions. Physical Review Letters, 2010, 105, 015003.	7.8	161
2	Monomode Guiding of 1016W/cm ² Laser Pulses over 100 Rayleigh Lengths in Hollow Capillary Dielectric Tubes. Physical Review Letters, 1999, 82, 4655-4658.	7.8	116
3	Eigenmodes for capillary tubes with dielectric walls and ultraintense laser pulse guiding. Physical Review E, 2002, 65, 026405.	2.1	73
4	Propagation of intense ultrashort laser pulses in a plasma filled capillary tube: Simulations and experiments. Physics of Plasmas, 2001, 8, 3445-3456.	1.9	69
5	Effect of plasma density scale length on the properties of bremsstrahlung x-ray sources created by picosecond laser pulses. Physics of Plasmas, 2009, 16, .	1.9	62
6	High-resolution multi-MeV x-ray radiography using relativistic laser-solid interaction. Physics of Plasmas, 2011, 18, .	1.9	60
7	Supersonic-Jet Experiments Using a High-Energy Laser. Physical Review Letters, 2007, 99, 265001.	7.8	58
8	Creation of a uniform high magnetic-field strength environment for laser-driven experiments. Journal of Applied Physics, 2005, 98, 054913.	2.5	56
9	Characterisation of a MeV Bremsstrahlung x-ray source produced from a high intensity laser for high areal density object radiography. Physics of Plasmas, 2013, 20, .	1.9	56
10	Experiment on collisionless plasma interaction with applications to supernova remnant physics. Physics of Plasmas, 2004, 11, 3386-3393.	1.9	48
11	Laboratory plasma astrophysics simulation experiments using lasers. Plasma Physics and Controlled Fusion, 2004, 46, B397-B405.	2.1	44
12	Production of multi-MeV Bremsstrahlung x-ray sources by petawatt laser pulses on various targets. Physics of Plasmas, 2012, 19, 023104.	1.9	31
13	Effects of electron recirculation on a hard x-ray source observed during the interaction of a high intensity laser pulse with thin Au targets. Physics of Plasmas, 2013, 20, .	1.9	28
14	Interaction of an ultra-intense laser pulse with a nonuniform preformed plasma. Physics of Plasmas, 2000, 7, 3009-3016.	1.9	26
15	Extending plasma accelerators: guiding with capillary tubes. IEEE Transactions on Plasma Science, 2000, 28, 1071-1077.	1.3	24
16	High-intensity ultrashort laser-induced ablation of stainless steel foil targets in the presence of ambient gas. Laser and Particle Beams, 2003, 21, 59-64.	1.0	23
17	Wall and laser spot motion in cylindrical hohlraums. Physics of Plasmas, 2009, 16, .	1.9	21
18	Comparison of film detectors, charged-coupled devices, and imaging plates in x-ray spectroscopy of hot dense plasma. Review of Scientific Instruments, 2006, 77, 036105.	1.3	18

#	ARTICLE	IF	CITATIONS
19	Bremsstrahlung spectrum and photon dose from short-pulse high-intensity laser interaction on various metal targets. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	18
20	Experimental study of short high-intensity laser-pulse monomode propagation in centimeter-long capillary tubes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 864.	2.1	10
21	Electric field measurements in picosecond laser-produced plasma via X-ray spectroscopy. <i>High Energy Density Physics</i> , 2007, 3, 292-296.	1.5	9
22	Numerical investigation of spallation neutrons generated from petawatt-scale laser-driven proton beams. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	3.9	9
23	Nonlinear propagation of short intense laser pulses in a hollow metallic waveguide. <i>Physical Review E</i> , 2001, 64, 016404.	2.1	8
24	Overview of on-going LIL experiments. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124017.	2.1	8
25	Supersonic-to-subsonic transition of a radiation wave observed at the LMJ. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	8
26	Laser Guiding for High Energy Plasma Accelerators. <i>Physica Scripta</i> , 2004, T107, 125.	2.5	7
27	Plasma Jet Experiments Using LULI 2000 Laser Facility. <i>Astrophysics and Space Science</i> , 2007, 307, 103-107.	1.4	7
28	Interaction of ultraintense laser pulses with an underdense, preformed plasma channel. <i>IEEE Transactions on Plasma Science</i> , 2000, 28, 1078-1083.	1.3	5
29	Interferometric Measurements of the Interaction of Two Plasmas in a Transverse Magnetic Field. <i>Astrophysics and Space Science</i> , 2005, 298, 389-393.	1.4	5
30	Laser-induced effects on the aluminium He- $\hat{1}^2$ transition. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 680-689.	2.3	5
31	Collisionless Plasma Astrophysics Simulation Experiments using Lasers. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	4
32	First experimental observation of a photoabsorption-edge induced shock by its coalescence onto a regular ablation-shock. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	4
33	Experiment on Collisionless Plasma Interaction with Applications to Supernova Remnant Physics. <i>Astrophysics and Space Science</i> , 2005, 298, 93-98.	1.4	3
34	Study of shock-coalescence on the LIL laser facility. <i>EPJ Web of Conferences</i> , 2013, 59, 02006.	0.3	3
35	VISAR diagnostic at LIL facility. <i>EPJ Web of Conferences</i> , 2013, 59, 13001.	0.3	2
36	Effect of plasma hydrodynamics on laser-produced bremsstrahlung MeV photon dose. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	2

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37	Supernova Remnant Relevant Laser-plasma Experiments. AIP Conference Proceedings, 2004, , .	0.4	0
38	Development of a test bed plasma and diagnostic methods for detailed K-shell spectroscopy. European Physical Journal Special Topics, 2006, 133, 1009-1011.	0.2	0
39	Aluminium He- \hat{I}^2 High-Resolution Spectroscopy and the Observation of High Field Processes. AIP Conference Proceedings, 2006, , .	0.4	0
40	Aluminium K-Shell High-Resolution Spectroscopy of Short and Long Scale Length Plasmas. AIP Conference Proceedings, 2006, , .	0.4	0
41	Radiative Shocks And Plasma Jets As Laboratory Astrophysics Experiments. AIP Conference Proceedings, 2007, , .	0.4	0
42	An advanced high resolution x-ray imager for laser-plasma interaction observation. EPJ Web of Conferences, 2013, 59, 13005.	0.3	0
43	Possible Langmuir oscillations in the He \hat{I}^2 spectral line profile. European Physical Journal Special Topics, 2006, 133, 989-991.	0.2	0