

# Riccardo Tommasini

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2907601/publications.pdf>

Version: 2024-02-01

179  
papers

6,189  
citations

70961

41  
h-index

79541

73  
g-index

184  
all docs

184  
docs citations

184  
times ranked

2472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of inertial fusion implosions reaching the burning plasma regime. <i>Nature Physics</i> , 2022, 18, 251-258.	6.5	87
2	Burning plasma achieved in inertial fusion. <i>Nature</i> , 2022, 601, 542-548.	13.7	233
3	Exploring implosion designs for increased compression on the National Ignition Facility using high density carbon ablaters. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	15
4	Hydroscaling indirect-drive implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	4
5	Absolute laser energy absorption measurement of relativistic 0.7 ps laser pulses in nanowire arrays. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	7
6	A dual high-energy radiography platform with 15 $\mu$ m resolution at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2021, 92, 043712.	0.6	2
7	Achieving record hot spot energies with large HDC implosions on NIF in HYBRID-E. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	55
8	Record Energetics for an Inertial Fusion Implosion at NIF. <i>Physical Review Letters</i> , 2021, 126, 025001.	2.9	76
9	Absorption of relativistic multi-picosecond laser pulses in wire arrays. <i>Physics of Plasmas</i> , 2021, 28, 103102.	0.7	3
10	Time-Resolved Fuel Density Profiles of the Stagnation Phase of Indirect-Drive Inertial Confinement Implosions. <i>Physical Review Letters</i> , 2020, 125, 155003.	2.9	27
11	Symmetry tuning and high energy coupling for an Al capsule in a Au rugby hohlraum on NIF. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	5
12	Achieving 280 Gbar hot spot pressure in DT-layered CH capsule implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	20
13	Enhanced laser-plasma interactions using non-imaging optical concentrator targets. <i>Optica</i> , 2020, 7, 129.	4.8	20
14	Ultra-high (>30%) coupling efficiency designs for demonstrating central hot-spot ignition on the National Ignition Facility using a Frustrum. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	25
15	X-ray sources using a picosecond laser driven plasma accelerator. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	22
16	Enhanced energy coupling for indirectly driven inertial confinement fusion. <i>Nature Physics</i> , 2019, 15, 138-141.	6.5	32
17	Bremsstrahlung hard x-ray source driven by an electron beam from a self-modulated laser wakefield accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054008.	0.9	31
18	A near one-dimensional indirectly driven implosion at convergence ratio 30. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	20

#	ARTICLE	IF	CITATIONS
19	Dynamic high energy density plasma environments at the National Ignition Facility for nuclear science research. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 033003.	1.4	47
20	First demonstration of improved capsule implosions by reducing radiation preheat in uranium vs gold hohlraums. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	17
21	High-energy differential-filtering photon spectrometer for ultraintense laser-matter interactions. <i>Review of Scientific Instruments</i> , 2018, 89, 10F116.	0.6	11
22	Using a 2-shock 1D platform at NIF to measure the effect of convergence on mix and symmetry. <i>Physics of Plasmas</i> , 2018, 25, 102702.	0.7	6
23	Absolute Equation-of-State Measurement for Polystyrene from 25 to 60ÅMbar Using a Spherically Converging Shock Wave. <i>Physical Review Letters</i> , 2018, 121, 025001.	2.9	39
24	Increasing stagnation pressure and thermonuclear performance of inertial confinement fusion capsules by the introduction of a high-Z dopant. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	42
25	Development of new platforms for hydrodynamic instability and asymmetry measurements in deceleration phase of indirectly driven implosions on NIF. <i>Physics of Plasmas</i> , 2018, 25, 082705.	0.7	15
26	Energy penetration into arrays of aligned nanowires irradiated with relativistic intensities: Scaling to terabar pressures. <i>Science Advances</i> , 2017, 3, e1601558.	4.7	58
27	High-energy (>70 keV) x-ray conversion efficiency measurement on the ARC laser at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	45
28	The role of hot spot mix in the low-foot and high-foot implosions on the NIF. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	49
29	Mix and hydrodynamic instabilities on NIF. <i>Journal of Instrumentation</i> , 2017, 12, C06001-C06001.	0.5	21
30	Short pulse, high resolution, backlighters for point projection high-energy radiography at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	42
31	Performance of beryllium targets with full-scale capsules in low-fill 6.72-mm hohlraums on the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	14
32	Indirect drive ignition at the National Ignition Facility. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014021.	0.9	64
33	Use of <sup>41</sup> Ar production to measure ablator areal density in NIF beryllium implosions. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	2
34	Automated analysis of hot spot X-ray images at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11E334.	0.6	6
35	Control of Be capsule low mode implosions symmetry at the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012033.	0.3	2
36	Hydrodynamic instabilities and mix studies on NIF: predictions, observations, and a path forward. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012090.	0.3	3

#	ARTICLE	IF	CITATIONS
37	Capsule Ablator Inflight Performance Measurements Via Streaked Radiography Of ICF Implosions On The NIF*. Journal of Physics: Conference Series, 2016, 688, 012014.	0.3	9
38	Performance of indirectly driven capsule implosions on NIF using adiabat-shaping. Journal of Physics: Conference Series, 2016, 717, 012045.	0.3	0
39	First beryllium capsule implosions on the National Ignition Facility. Physics of Plasmas, 2016, 23, 056310.	0.7	37
40	Performance of indirectly driven capsule implosions on the National Ignition Facility using adiabat-shaping. Physics of Plasmas, 2016, 23, 056303.	0.7	38
41	Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. Physics of Plasmas, 2016, 23, .	0.7	27
42	Shell stability and conditions analyzed using a new method of extracting shell areal density maps from spectrally resolved images of direct-drive inertial confinement fusion implosions. Physics of Plasmas, 2016, 23, .	0.7	9
43	Inertially confined fusion plasmas dominated by alpha-particle self-heating. Nature Physics, 2016, 12, 800-806.	6.5	144
44	Temporal evolution of the two-shock implosion on the National Ignition Facility. , 2016, , .		0
45	X-ray drive of beryllium capsule implosions at the National Ignition Facility. Journal of Physics: Conference Series, 2016, 717, 012058.	0.3	3
46	Symmetry tuning of a near one-dimensional 2-shock platform for code validation at the National Ignition Facility. Physics of Plasmas, 2016, 23, .	0.7	33
47	Spatial resolution measurements of the advanced radiographic capability x-ray imaging system at energies relevant to Compton radiography. Review of Scientific Instruments, 2016, 87, 11E310.	0.6	3
48	Simulations and experiments of the growth of the "œtent" perturbation in NIF ignition implosions. Journal of Physics: Conference Series, 2016, 717, 012021.	0.3	28
49	An important criterion for reliable multi-monochromatic x-ray imager diagnostics and its impact on the reconstructed images. High Power Laser Science and Engineering, 2015, 3, .	2.0	4
50	Understanding reliability and some limitations of the images and spectra reconstructed from a multi-monochromatic x-ray imager. Review of Scientific Instruments, 2015, 86, 113505.	0.6	5
51	Overview of Performance and Progress with Inertially Confined Fusion Implosions on the National Ignition Facility. , 2015, , .		0
52	2015, 22, 056314.	0.7	49
53	Cryogenic tritium-hydrogen-deuterium and deuterium-tritium layer implosions with high density carbon ablaters in near-vacuum hohlraums. Physics of Plasmas, 2015, 22, 062703.	0.7	62
54	of Plasmas, 2015, 22, 056315.	0.7	82

#	ARTICLE	IF	CITATIONS
55	High-density carbon capsule experiments on the national ignition facility. Physical Review E, 2015, 91, 021101.	0.8	38
56	Thin Shell, High Velocity Inertial Confinement Fusion Implosions on the National Ignition Facility. Physical Review Letters, 2015, 114, 145004.	2.9	56
57	The scaling of electron and positron generation in intense laser-solid interactions. Physics of Plasmas, 2015, 22, .	0.7	37
58	Effect of the mounting membrane on shape in inertial confinement fusion implosions. Physics of Plasmas, 2015, 22, .	0.7	85
59	In-flight observations of low-mode $\langle i \rangle R$ asymmetries in NIF implosions. Physics of Plasmas, 2015, 22, .	0.7	24
60	Getting Beyond Unity Fusion Fuel Gain in an Inertially Confined Fusion Implosion. , 2015, , .		0
61	Demonstration of High Performance in Layered Deuterium-Tritium Capsule Implosions in Uranium Hohlräume at the National Ignition Facility. Physical Review Letters, 2015, 115, 055001.	2.9	101
62	The effect of shock dynamics on compressibility of ignition-scale National Ignition Facility implosions. Physics of Plasmas, 2014, 21, .	0.7	20
63	Development of a dual MCP framing camera for high energy x-rays. Review of Scientific Instruments, 2014, 85, 11D623.	0.6	8
64	Simulations of indirectly driven gas-filled capsules at the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	12
65	AXIS: An instrument for imaging Compton radiographs using the Advanced Radiography Capability on the NIF. Review of Scientific Instruments, 2014, 85, 11D624.	0.6	10
66	Direct asymmetry measurement of temperature and density spatial distributions in inertial confinement fusion plasmas from pinhole space-resolved spectra. Physics of Plasmas, 2014, 21, .	0.7	25
67	Time-resolved characterization and energy balance analysis of implosion core in shock-ignition experiments at OMEGA. Physics of Plasmas, 2014, 21, .	0.7	12
68	Reconstruction of 2D x-ray radiographs at the National Ignition Facility using pinhole tomography (invited). Review of Scientific Instruments, 2014, 85, 11E503.	0.6	13
69	Development of the CD Symcap platform to study gas-shell mix in implosions at the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	42
70	Fuel gain exceeding unity in an inertially confined fusion implosion. Nature, 2014, 506, 343-348.	13.7	742
71	Measurements of an Ablator-Gas Atomic Mix in Indirectly Driven Implosions at the National Ignition Facility. Physical Review Letters, 2014, 112, 025002.	2.9	60
72	Dynamic symmetry of indirectly driven inertial confinement fusion capsules on the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	81

#	ARTICLE	IF	CITATIONS
73	High-density carbon ablator experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	116
74	The high-foot implosion campaign on the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	149
75	Reduced instability growth with high-adiabat high-foot implosions at the National Ignition Facility. <i>Physical Review E</i> , 2014, 90, 011102.	0.8	77
76	Demonstration of enhanced DQE with a dual MCP configuration. , 2014, , .		0
77	Progress towards ignition on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	259
78	Onset of Hydrodynamic Mix in High-Velocity, Highly Compressed Inertial Confinement Fusion Implosions. <i>Physical Review Letters</i> , 2013, 111, 085004.	2.9	215
79	Hohlraum energetics scaling to 520 TW on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	59
80	Performance of High-Convergence, Layered DT Implosions with Extended-Duration Pulses at the National Ignition Facility. <i>Physical Review Letters</i> , 2013, 111, 215001.	2.9	47
81	Early-Time Symmetry Tuning in the Presence of Cross-Beam Energy Transfer in ICF Experiments on the National Ignition Facility. <i>Physical Review Letters</i> , 2013, 111, 235001.	2.9	44
82	Emission of positron beams produced in intense laser plasma interaction. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	26
83	X-ray driven implosions at ignition relevant velocities on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	54
84	Nuclear imaging of the fuel assembly in ignition experiments. <i>Physics of Plasmas</i> , 2013, 20, 056320.	0.7	65
85	Radiative shocks produced from spherical cryogenic implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, 056315.	0.7	17
86	Summary of the first neutron image data collected at the National Ignition Facility. <i>EPJ Web of Conferences</i> , 2013, 59, 13017.	0.1	6
87	Comparing neutron and X-ray images from NIF implosions. <i>EPJ Web of Conferences</i> , 2013, 59, 04002.	0.1	2
88	Imaging of high-energy x-ray emission from cryogenic thermonuclear fuel implosions on the NIF. <i>Review of Scientific Instruments</i> , 2012, 83, 10E115.	0.6	57
89	Cryogenic thermonuclear fuel implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	95
90	Extracting core shape from x-ray images at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2012, 83, 10E519.	0.6	39

#	ARTICLE	IF	CITATIONS
91	Measurement of electron temperature of imploded capsules at the National Ignition Facility. Review of Scientific Instruments, 2012, 83, 10E121.	0.6	23
92	Assembly of High-Areal-Density Deuterium-Tritium Fuel from Indirectly Driven Cryogenic Implosions. Physical Review Letters, 2012, 108, 215005.	2.9	57
93	Measuring electron-positron annihilation radiation from laser plasma interactions. Review of Scientific Instruments, 2012, 83, 10E113.	0.6	9
94	Investigation of a polychromatic tomography method for the extraction of the three-dimensional spatial structure of implosion core plasmas. Physics of Plasmas, 2012, 19, 082705.	0.7	25
95	Beam and target alignment at the National Ignition Facility using the Target Alignment Sensor (TAS). Proceedings of SPIE, 2012, , .	0.8	12
96	Implosion dynamics measurements at the National Ignition Facility. Physics of Plasmas, 2012, 19, .	0.7	125
97	Numerical simulation of thin-shell direct drive DHe3-filled capsules fielded at OMEGA. Physics of Plasmas, 2012, 19, .	0.7	9
98	K-shell spectroscopy of Au plasma generated with a short-pulse laser<sup>1</sup>This article is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. Canadian Journal of Physics, 2011, 89, 647-651.	0.4	4
99	Development of Compton radiography of inertial confinement fusion implosions. Physics of Plasmas, 2011, 18, .	0.7	82
100	Progress towards ignition on the National Ignition Facility. Nuclear Fusion, 2011, 51, 094024.	1.6	35
101	X-ray imaging in an environment with high-neutron background on National Ignition Facility. , 2011, , .		5
102	Advanced gated x-ray imagers for experiments at the National Ignition Facility. Proceedings of SPIE, 2011, , .	0.8	9
103	Processing of spectrally resolved x-ray images of inertial confinement fusion implosion cores recorded with multimonochromatic x-ray imagers. Journal of Applied Physics, 2011, 109, .	1.1	21
104	Towards laboratory produced relativistic electronâ€“positron pair plasmas. High Energy Density Physics, 2011, 7, 225-229.	0.4	36
105	Measurements of core and compressed-shell temperature and density conditions in thick-wall target implosions at the OMEGA laser facility. Physical Review E, 2011, 83, 066408.	0.8	23
106	The experimental plan for cryogenic layered target implosions on the National Ignition Facilityâ€“The inertial confinement approach to fusion. Physics of Plasmas, 2011, 18, .	0.7	148
107	Experimental evaluation of neutron induced noise on gated x-ray framing cameras. Journal of Physics: Conference Series, 2010, 244, 032048.	0.3	4
108	Simulation of radiation backgrounds associated with the HEXRI diagnostics at the National Ignition Facility. Journal of Physics: Conference Series, 2010, 244, 032049.	0.3	0

#	ARTICLE	IF	CITATIONS
109	Assessment and mitigation of radiation, EMP, debris & shrapnel impacts at megajoule-class laser facilities. <i>Journal of Physics: Conference Series</i> , 2010, 244, 032018.	0.3	10
110	Argon K-shell and bound-free emission from OMEGA direct-drive implosion cores. <i>High Energy Density Physics</i> , 2010, 6, 70-75.	0.4	20
111	Experimental study of neutron induced background noise on gated x-ray framing cameras. <i>Review of Scientific Instruments</i> , 2010, 81, 10E515.	0.6	21
112	Spectroscopic modeling of an argon-doped shock-ignition implosion. <i>Review of Scientific Instruments</i> , 2010, 81, 10E307.	0.6	9
113	Relativistic Quasimonoenergetic Positron Jets from Intense Laser-Solid Interactions. <i>Physical Review Letters</i> , 2010, 105, 015003.	2.9	161
114	Core temperature and shape measurements from ignition implosions at the National Ignition Facility using multispectral x-ray imaging. , 2009, , .		0
115	Non-Equilibrium Electron And Ion Temperature Measurements In Omega Direct-Drive Implosions. , 2009, , .		0
116	Inference of ICF implosion core mix using experimental data and theoretical mix modeling. <i>High Energy Density Physics</i> , 2009, 5, 249-257.	0.4	15
117	Applied plasma spectroscopy: Laser-fusion experiments. <i>High Energy Density Physics</i> , 2009, 5, 234-243.	0.4	10
118	Making relativistic positrons using ultraintense short pulse lasers. <i>Physics of Plasmas</i> , 2009, 16, 122702.	0.7	42
119	Intrinsic fast neutron sensitivity of imaging plates. , 2009, , .		0
120	Hard x-ray spectrometer for hot electron measurements on the National Ignition Facility. , 2009, , .		0
121	An Attempt to Generate an Inner-Shell Photo-Ionisation Pumped X-Ray Laser Using the ASTRA Laser at RAL. <i>Springer Proceedings in Physics</i> , 2009, , 537-542.	0.1	0
122	Core temperature and density profile measurements in inertial confinement fusion implosions. <i>High Energy Density Physics</i> , 2008, 4, 1-17.	0.4	14
123	Spectroscopic study of temperature and density spatial profiles and mix in implosion cores. , 2008, , .		0
124	Comparison of genetic-algorithm and emissivity-ratio analyses of image data from OMEGA implosion cores. <i>Review of Scientific Instruments</i> , 2008, 79, 10E921.	0.6	20
125	High-resolution 17â€“75keV backlighters for high energy density experiments. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	111
126	Analysis of time-resolved argon line spectra from OMEGA direct-drive implosions. <i>Review of Scientific Instruments</i> , 2008, 79, 10E310.	0.6	20



#	ARTICLE	IF	CITATIONS
127	Tests and calibration of NIF neutron time of flight detectors. Review of Scientific Instruments, 2008, 79, 10E527.	0.6	20
128	Using x-rays to test chemical vapor deposited diamond detectors for areal density measurement at the National Ignition Facility. Review of Scientific Instruments, 2008, 79, 10E931.	0.6	0
129	Development of backlighting sources for a Compton radiography diagnostic of inertial confinement fusion targets (invited). Review of Scientific Instruments, 2008, 79, 10E901.	0.6	41
130	Application of fall-line mix models to understand degraded yield. Physics of Plasmas, 2008, 15, .	0.7	18
131	Four-objective analysis including an optically thick line to extract electron temperature and density profiles in ICF implosion cores. Journal of Physics: Conference Series, 2008, 112, 022014.	0.3	1
132	Gamma background calculation for the HEXRI diagnostic at the National Ignition Facility. Journal of Physics: Conference Series, 2008, 112, 032085.	0.3	1
133	Development of Compton radiography using high-Z backlighters produced by ultra-intense lasers. AIP Conference Proceedings, 2007, , .	0.3	15
134	Spectroscopic determination of temperature and density spatial profiles and mix in indirect-drive implosion cores. Physical Review E, 2007, 76, 056403.	0.8	28
135	Development of two mix model postprocessors for the investigation of shell mix in indirect drive implosion cores. Physics of Plasmas, 2007, 14, 072705.	0.7	17
136	Deposition and analysis of small d-spacing depth graded multilayer structures. Proceedings of SPIE, 2007, , .	0.8	1
137	Development of spectroscopic tools for the determination of temperature and density spatial profiles in implosion cores. High Energy Density Physics, 2007, 3, 287-291.	0.4	8
138	K-shell spectra from Ag, Sn, Sm, Ta, and Au generated by intense femtosecond laser pulses. High Energy Density Physics, 2007, 3, 263-271.	0.4	35
139	Narrow-band x-ray imaging for core temperature and density maps retrieval of direct drive implosions. , 2006, , .		4
140	Convergent-beam diffraction of ultra-short hard X-ray pulses focused by a capillary lens. Applied Physics B: Lasers and Optics, 2006, 82, 519-522.	1.1	3
141	Limits on collective X-ray scattering imposed by coherence. Europhysics Letters, 2006, 74, 637-643.	0.7	12
142	Electron Diffraction Experiments using Laser Plasma Electrons. AIP Conference Proceedings, 2006, , .	0.3	0
143	Multiobjective method for fitting pinhole image intensity profiles of implosion cores driven by a Pareto genetic algorithm. Review of Scientific Instruments, 2006, 77, 10F525.	0.6	7
144	High energy x-ray imager for inertial confinement fusion at the National Ignition Facility. Review of Scientific Instruments, 2006, 77, 10E301.	0.6	4

#	ARTICLE	IF	CITATIONS
145	Development of nuclear diagnostics for the National Ignition Facility (invited). Review of Scientific Instruments, 2006, 77, 10E715.	0.6	84
146	Multispectral x-ray imaging for core temperature and density maps retrieval in direct drive implosions. Review of Scientific Instruments, 2006, 77, 10E303.	0.6	17
147	Recovery of a chemical vapor deposited diamond detection system from strong pulses of laser produced x rays. Review of Scientific Instruments, 2006, 77, 10F316.	0.6	2
148	Spatial structure analysis of direct-drive implosion cores at OMEGA using x-ray narrow-band core images. Review of Scientific Instruments, 2006, 77, 10E320.	0.6	7
149	Ignition X-ray imager for laser-fusion research at the national ignition facility. European Physical Journal Special Topics, 2006, 133, 935-937.	0.2	1
150	Underdense radiation sources: Moving towards longer wavelengths. European Physical Journal Special Topics, 2006, 133, 1173-1175.	0.2	0
151	Diffraction of laser-plasma-generated electron pulses. Applied Physics B: Lasers and Optics, 2005, 81, 155-157.	1.1	10
152	Focusing and collimation of laser-generated ultrashort x-ray pulses by polycapillary lenses. , 2005, , .		2
153	Multispectral x-ray imaging with a pinhole array and a flat Bragg mirror. Review of Scientific Instruments, 2005, 76, 073708.	0.6	42
154	Attosecond x-ray laser pulses. , 2005, , .		0
155	Preplasma conditions for operation of 10 <sup>14</sup> -Hz subjoule femtosecond-laser-pumped nickel-like x-ray lasers. Physical Review E, 2004, 69, 066404.	0.8	10
156	Generation of Attosecond X-Ray Laser Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 1388-1392.	1.9	3
157	Frequency doubling of multi-terawatt femtosecond pulses. Applied Physics B: Lasers and Optics, 2004, 79, 547-554.	1.1	33
158	Generation of monoenergetic ultrashort electron pulses from a fs laser plasma. Applied Physics B: Lasers and Optics, 2004, 79, 923-926.	1.1	15
159	Ultrafast x-ray diffraction studies on Si(111) and DMABN crystals using Cu-K $\alpha$ radiation. , 2004, 5196, 311.		1
160	Preplasma conditions for the operation of 10-Hz sub-Joule fs-laser-pumped nickel-like x-ray lasers. , 2003, , .		0
161	A novel tape target for use with repetitively pulsed lasers. Review of Scientific Instruments, 2002, 73, 2190-2192.	0.6	33
162	Effective traveling-wave excitation below the speed of light. Optics Letters, 2001, 26, 689.	1.7	8

#	ARTICLE	IF	CITATIONS
163	<title>Investigations on 10-Hz sub-Joule fs-laser pumped neon- and nickel-like x-ray lasers</title> . , 2001, , .		10
164	Generalized Linford formula and its application to Traveling Wave Excitation. European Physical Journal Special Topics, 2001, 11, Pr2-285-Pr2-288.	0.2	0
165	Coherence properties of an amplified spontaneous emission laser: experiments on a 10 Hz vacuumâ€“ultraviolet H2-laser. Optics Communications, 2000, 180, 277-283.	1.0	10
166	Analysis of the visible emission from optical-fieldâ€“ionized hydrogen. Europhysics Letters, 2000, 49, 27-33.	0.7	1
167	Excitation-velocity and group-velocity mismatch in amplified spontaneous emission lasers: A discussion on the transient gain x-ray lasers. Physical Review A, 2000, 62, .	1.0	12
168	Generalized Linford formula. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 1665.	0.9	8
169	Compensation of nonlinear self-focusing in high-power lasers. IEEE Journal of Quantum Electronics, 2000, 36, 687-691.	1.0	13
170	Saturation in a Ni-like Pd soft-x-ray laser at 14.7 nm. Physical Review A, 1999, 59, 1577-1581.	1.0	39
171	Saturation in neon- and nickel-like collisional soft-X-ray lasers at low pump energy. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1435-1440.	1.9	8
172	VUV laser in the Lyman band of molecular hydrogen pumped by fs titanium-sapphire laser pulses. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1510-1514.	1.9	5
173	Amplified spontaneous emission and maximum gainâ€“length product revised for general line shapes. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 538.	0.9	11
174	Soft-x-ray lasing and saturation in nickellike silver at pump energies below 30 J. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1664.	0.9	8
175	Saturated lasing in neon- and nickel-like ions at pump energies below 30 J. , 1999, , .		1
176	Efficient J=0-1 soft-X-ray lasing in neon-like ions at pump powers below 250ÂˆGW. Applied Physics B: Lasers and Optics, 1998, 66, 561-566.	1.1	5
177	Single-shot measurement of laser-induced damage thresholds of thin film coatings. Optics Communications, 1998, 152, 168-174.	1.0	15
178	Iterative method for phase-amplitude retrieval and its application to the problem of beam-shaping and apodization. Optics Communications, 1998, 153, 339-346.	1.0	14
179	Observation of saturated lasing on the 3pâ€“3s, J=0â€“1 transition at 25.5 nm in neon-like iron using a double-prepulse technique. Optics Communications, 1998, 154, 325-328.	1.0	8