

Dan Stutman

List of Publications by Year in descending order

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33
papers

706
citations

758635

12
h-index

552369

26
g-index

35
all docs

35
docs citations

35
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh sensitivity grating interferometry for laser-based X-ray phase contrast imaging. , 2022, , .		0
2	Next-Generation Hardware Advances in CT: Cardiac Applications. Radiology, 2021, 298, 3-17.	3.6	28
3	Direct Laser-Driven Electron Acceleration and Energy Gain in Helical Beams. Laser and Particle Beams, 2021, 2021, .	0.4	3
4	Talbot-Lau x-ray deflectometer: Refraction-based HEDP imaging diagnostic. Review of Scientific Instruments, 2021, 92, 065110.	0.6	3
5	Generation of Ultrarelativistic Monoenergetic Electron Bunches via a Synergistic Interaction of Longitudinal Electric and Magnetic Fields of a Twisted Laser. Physical Review Letters, 2021, 126, 234801.	2.9	19
6	Overview of ELI-NP status and laser commissioning experiments with 1 PW and 10 PW class-lasers. Journal of Instrumentation, 2020, 15, C09053-C09053.	0.5	11
7	Power Scaling for Collimated γ -Ray Beams Generated by Structured Laser-Irradiated Targets and Its Application to Two-Photon Pair Production. Physical Review Applied, 2020, 13, .	1.5	45
8	Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .	1.5	114
9	Implementation of Talbot-Lau x-ray deflectometry in the pulsed power environment using a copper X-pinch backlighter. Journal of Applied Physics, 2020, 127, .	1.1	4
10	Implementation of a Talbot-Lau x-ray deflectometer diagnostic platform for the OMEGA EP laser. Review of Scientific Instruments, 2020, 91, 023511.	0.6	12
11	Optimizing direct laser-driven electron acceleration and energy gain at ELI-NP. European Physical Journal D, 2020, 74, 1.	0.6	2
12	Proof-of-concept Talbot-Lau x-ray interferometry with a high-intensity, high-repetition-rate, laser-driven K-alpha source. Applied Optics, 2020, 59, 8380.	0.9	9
13	X-ray backlighter requirements for refraction-based electron density diagnostics through Talbot-Lau deflectometry. Review of Scientific Instruments, 2018, 89, 10G127.	0.6	13
14	The extreme light infrastructure nuclear physics (ELI-NP) facility: new horizons in physics with 10 PW ultra-intense lasers and 20 MeV brilliant gamma beams. Reports on Progress in Physics, 2018, 81, 094301.	8.1	164
15	New light in nuclear physics: The extreme light infrastructure. Europhysics Letters, 2017, 117, 28001.	0.7	34
16	An x-ray backlit Talbot-Lau deflectometer for high-energy-density electron density diagnostics. Review of Scientific Instruments, 2016, 87, 023505.	0.6	11
17	Talbot-Lau x-ray deflectometer electron density diagnostic for laser and pulsed power high energy density plasma experiments (invited). Review of Scientific Instruments, 2016, 87, 11D501.	0.6	4
18	Time-dependent analysis of visible helium line-ratios for electron temperature and density diagnostic using synthetic simulations on NSTX-U. Review of Scientific Instruments, 2016, 87, 11E502.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Talbot-Lau x-ray density diagnostic for High Energy Density plasmas. , 2015, , .		1
20	Boundary displacement measurements using multi-energy soft x-rays. Review of Scientific Instruments, 2014, 85, 11E401.	0.6	2
21	Talbot-Lau moire x-ray diagnostic for high energy density plasmas. , 2014, , .		0
22	MoirÃ© deflectometry using the Talbot-Lau interferometer as refraction diagnostic for High Energy Density plasmas at energies below 10 keV. Review of Scientific Instruments, 2014, 85, 073702.	0.6	21
23	High energy x-ray phase contrast CT using glancing angle grating interferometers. Medical Physics, 2014, 41, 021904.	1.6	21
24	High energy x-ray phase-contrast imaging using glancing angle grating interferometers. , 2013, 8668, .		3
25	Talbot-Lau based MoirÃ© deflectometry with non-coherent sources as potential High Energy Density plasma diagnostic. Journal of Applied Physics, 2013, 114, 163302.	1.1	22
26	Development of Talbot-Lau phase-contrast method for high energy density plasma diagnostics. , 2013, , .		0
27	Multi-energy x-ray imaging and sensing for diagnostic and control of the burning plasma. Review of Scientific Instruments, 2012, 83, 10E535.	0.6	3
28	Glancing angle Talbot-Lau grating interferometers for phase contrast imaging at high x-ray energy. Applied Physics Letters, 2012, 101, 091108.	1.5	14
29	Talbot-Lau x-ray interferometry for high energy density plasma diagnostic. Review of Scientific Instruments, 2011, 82, 113508.	0.6	22
30	Talbot phase-contrast x-ray imaging for the small joints of the hand. Physics in Medicine and Biology, 2011, 56, 5697-5720.	1.6	98
31	Development of optics for x-ray phase-contrast imaging of high energy density plasmas. Review of Scientific Instruments, 2010, 81, 10E504.	0.6	3
32	Development of microperiodic mirrors for hard x-ray phase-contrast imaging. Applied Optics, 2010, 49, 4677.	2.1	8
33	Low velocity boron micro-pellet injector for edge and core impurity transport measurements. Review of Scientific Instruments, 1999, 70, 493-497.	0.6	4