

John Pasley

List of Publications by Year in descending order

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48
papers

480
citations

840776

11
h-index

713466

21
g-index

49
all docs

49
docs citations

49
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Heating of Solid Matter by Light-Pressure-Driven Shocks at Ultrarelativistic Intensities. <i>Physical Review Letters</i> , 2008, 100, 165002.	7.8	75
2	High energy conversion efficiency in laser-proton acceleration by controlling laser-energy deposition onto thin foil targets. <i>Applied Physics Letters</i> , 2014, 104, 081123.	3.3	55
3	Magnetically Guided Fast Electrons in Cylindrically Compressed Matter. <i>Physical Review Letters</i> , 2011, 107, 065004.	7.8	45
4	Controlling Fast-Electron-Beam Divergence Using Two Laser Pulses. <i>Physical Review Letters</i> , 2012, 109, 015001.	7.8	45
5	Doppler Spectrometry for Ultrafast Temporal Mapping of Density Dynamics in Laser-Induced Plasmas. <i>Physical Review Letters</i> , 2010, 105, 105002.	7.8	34
6	Proton radiography of laser-driven imploding target in cylindrical geometry. <i>Physics of Plasmas</i> , 2011, 18, 012704.	1.9	30
7	Terahertz Acoustics in Hot Dense Laser Plasmas. <i>Physical Review Letters</i> , 2015, 114, 115001.	7.8	23
8	Laser-driven cylindrical compression of targets for fast electron transport study in warm and dense plasmas. <i>Physics of Plasmas</i> , 2011, 18, 043108.	1.9	16
9	Rapid embedded wire heating via resistive guiding of laser-generated fast electrons as a hydrodynamic driver. <i>Physics of Plasmas</i> , 2013, 20, 122701.	1.9	16
10	Ultrafast dynamics of a near-solid-density layer in an intense femtosecond laser-excited plasma. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	13
11	Cavitation and shock wave formation in dense plasmas by relativistic electron beams. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 125007.	2.1	11
12	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 653, 84-88.	1.6	10
13	Controlling femtosecond-laser-driven shock-waves in hot, dense plasma. <i>Physics of Plasmas</i> , 2017, 24, 072702.	1.9	9
14	Observation of extremely strong shock waves in solids launched by petawatt laser heating. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8
15	Recombination of Protons Accelerated by a High Intensity High Contrast Laser. <i>Physical Review Letters</i> , 2018, 121, 134801.	7.8	8
16	Innovative Education and Training in high power laser plasmas (PowerLaPs) for plasma physics, high power laser-matter interactions and high energy density physics – theory and experiments. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	7
17	Optimizing laser focal spot size using self-focusing in a cone-guided fast-ignition ICF target. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	7
18	Probing ultrafast dynamics of solid-density plasma generated by high-contrast intense laser pulses. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	6

#	ARTICLE	IF	CITATIONS
19	Innovative education and training in high power laser plasmas (PowerLaPs) for plasma physics, high power laser matter interactions and high energy density physics: experimental diagnostics and simulations. High Power Laser Science and Engineering, 2020, 8, .	4.6	6
20	Enhancing relativistic electron beam propagation through the use of graded resistivity guides. Physics of Plasmas, 2018, 25, 023104.	1.9	5
21	Tracking ultrafast dynamics of intense shock generation and breakout at target rear. Physics of Plasmas, 2018, 25, .	1.9	5
22	Phase transitions in benzene under dynamic and static compression. Journal of Raman Spectroscopy, 2021, 52, 770-781.	2.5	5
23	Ignition studies in support of the European High Power Laser Energy Research Facility project. Pramana - Journal of Physics, 2010, 75, 759-767.	1.8	4
24	Enhancement of keV X-rays from low-density cellulose triacetate (TAC) foam targets. Physics of Plasmas, 2017, 24, .	1.9	4
25	Ignition criteria for x-ray fast ignition inertial confinement fusion. Physics of Plasmas, 2020, 27, .	1.9	4
26	Producing shock-ignition-like pressures by indirect drive. Plasma Physics and Controlled Fusion, 2019, 61, 105010.	2.1	3
27	Generation of a strong reverse shock wave in the interaction of a high-contrast high-intensity femtosecond laser pulse with a silicon target. Applied Physics Letters, 2019, 114, .	3.3	3
28	Quasi mono-energetic heavy ion acceleration from layered targets. Physics of Plasmas, 2021, 28, 023108.	1.9	3
29	An Object-Oriented 3-D View-Factor Code for Hohlraum Modeling. IEEE Transactions on Plasma Science, 2011, 39, 2400-2401.	1.3	2
30	Thermonuclear ignition calculations in contaminated DT fuel at high densities. Plasma Physics and Controlled Fusion, 2011, 53, 065013.	2.1	2
31	Potential for the Vishniac instability in ionizing shock waves propagating into cold gases. Physics of Plasmas, 2018, 25, .	1.9	2
32	Time-resolved Raman spectroscopy of hexafluorobenzene (C ₆ F ₆) under laser-driven shock compression. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 263, 107547.	2.3	2
33	Femtosecond, two-dimensional spatial Doppler mapping of ultraintense laser-solid target interaction. Physical Review Research, 2021, 3, .	3.6	2
34	Crystallization and phase transitions of C ₆ H ₆ :C ₆ F ₆ complex under extreme conditions using laser-driven shock. Journal of Applied Physics, 2022, 131, 115903.	2.5	2
35	Shock pressure measurements in Polyvinyl alcohol (PVA) films using multi-frame optical shadowgraphy. Journal of Physics: Conference Series, 2012, 377, 012042.	0.4	1
36	Effect of defocusing on picosecond laser-coupling into gold cones. Physics of Plasmas, 2014, 21, 012702.	1.9	1

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37	Modelling the hydrodynamics induced by the interaction of high-power short-pulse lasers with dense targets. AIP Conference Proceedings, 2017, , .	0.4	1
38	L-shell spectroscopy of neon and fluorine like copper ions from laser produced plasma. Physics of Plasmas, 2019, 26, 023301.	1.9	1
39	Innovative education and training in high power laser plasmas (PowerLaPs) for plasma physics, high power laser matter interactions and high energy density physics: experimental diagnostics and simulations " CORRIGENDUM. High Power Laser Science and Engineering, 2020, 8, .	4.6	1
40	Formation and evolution of post-solitons following a high intensity laser-plasma interaction with a low-density foam target. Plasma Physics and Controlled Fusion, 2021, 63, 074001.	2.1	1
41	Controlling x-ray flux in hohlraums using burnthrough barriers. Physics of Plasmas, 2020, 27, 103301.	1.9	1
42	High-speed photon Doppler velocimetry for laser-driven flyer acceleration studies. Pramana - Journal of Physics, 2022, 96, .	1.5	1
43	Study of hot electron production and transport as a function of preplasma filling of hollow cone targets. , 2009, , .		0
44	X-ray Polarization Measurements of Dense Plasmas Heated by Fast Electrons. , 2010, , .		0
45	Hydrodynamic motion of guiding elements within a magnetic switchyard in fast ignition conditions. Physics of Plasmas, 2020, 27, 062701.	1.9	0
46	Core electrons and specific heat capacity in the fast electron heating of solids. Physics of Plasmas, 2020, 27, 072701.	1.9	0
47	Investigation of the performance of mid-Z Hohlraum wall liners for producing x-ray drive. Physics of Plasmas, 2021, 28, 012703.	1.9	0
48	Direct electron attachment to fast hydrogen in 10^{18} contrast 10^{18} W/cm ² intense laser solid target interaction. Plasma Sources Science and Technology, 2020, 29, 115008.	3.1	0