

Paul A Keiter

List of Publications by Year in descending order

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88
papers

1,327
citations

394421

19
h-index

377865

34
g-index

90
all docs

90
docs citations

90
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of shape transfer and preheating in indirect-drive double shell collisions. Physics of Plasmas, 2022, 29, .	1.9	7
2	Neural network for 3D inertial confinement fusion shell reconstruction from single radiographs. Review of Scientific Instruments, 2021, 92, 033547.	1.3	5
3	Constraining computational modeling of indirect drive double shell capsule implosions using experiments. Physics of Plasmas, 2021, 28, .	1.9	17
4	Detrimental effects and mitigation of the joint feature in double shell implosion simulations. Physics of Plasmas, 2021, 28, .	1.9	12
5	The design of a photoionization front experiment using the Z-Machine as a driving source and estimated measurements. Physics of Plasmas, 2021, 28, .	1.9	2
6	Mitigating the Joint Feature in Double Shell Implosion Simulations *. , 2021, , .		0
7	Implementation of a Talbotâ€“Lau x-ray deflectometer diagnostic platform for the OMEGA EP laser. Review of Scientific Instruments, 2020, 91, 023511.	1.3	12
8	Experimental study of energy transfer in double shell implosions. Physics of Plasmas, 2019, 26, .	1.9	32
9	Atomic modeling of photoionization fronts in nitrogen gas. Physics of Plasmas, 2019, 26, 052901.	1.9	3
10	Magnetized Disruption of Inertially Confined Plasma Flows. Physical Review Letters, 2019, 122, 225001.	7.8	7
11	Properties of laser-produced GaAs plasmas measured from highly resolved X-ray line shapes and ratios. High Energy Density Physics, 2018, 26, 73-80.	1.5	3
12	Development of a backlit-multi-pinhole radiography source. Review of Scientific Instruments, 2018, 89, 10G110.	1.3	0
13	Experimental considerations to observe two ionizing fronts in systems with a sharp absorption edge. Review of Scientific Instruments, 2018, 89, 10G104.	1.3	1
14	Laboratory Photoionization Fronts in Nitrogen Gas: A Numerical Feasibility and Parameter Study. Astrophysical Journal, 2018, 858, 22.	4.5	3
15	Soft X-ray emission from laser-irradiated gold foils. Physics of Plasmas, 2018, 25, .	1.9	8
16	A platform for x-ray Thomson scattering measurements of radiation hydrodynamics experiments on the NIF. Review of Scientific Instruments, 2018, 89, 10F105.	1.3	2
17	Design of laboratory experiments to study radiation-driven implosions. High Energy Density Physics, 2017, 22, 37-40.	1.5	2
18	Enhanced accuracy of x-ray spectra reconstruction from filtered diode array measurements by adding a time integrated spectrometer. Review of Scientific Instruments, 2017, 88, 043507.	1.3	6

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19	Mitigation of hot electrons from laser-plasma instabilities in high-Z, highly ionized plasmas. Physics of Plasmas, 2017, 24, .	1.9	14
20	Study of shock waves and related phenomena motivated by astrophysics. Journal of Physics: Conference Series, 2016, 688, 012016.	0.4	3
21	Development of a WDM platform for charged-particle stopping experiments. Journal of Physics: Conference Series, 2016, 717, 012118.	0.4	4
22	Spatially resolved density and ionization measurements of shocked foams using x-ray fluorescence. Journal of Applied Physics, 2016, 120, 125901.	2.5	5
23	Measurements of laser generated soft X-ray emission from irradiated gold foils. Review of Scientific Instruments, 2016, 87, 11D609.	1.3	7
24	DESIGN OF LABORATORY EXPERIMENTS TO STUDY PHOTOIONIZATION FRONTS DRIVEN BY THERMAL SOURCES. Astrophysical Journal, 2016, 833, 249.	4.5	8
25	Mitigation of hard x-ray background in backlit pinhole imagers. Review of Scientific Instruments, 2016, 87, 11E341.	1.3	3
26	Tracking the density evolution in counter-propagating shock waves using imaging X-ray scattering. Applied Physics Letters, 2016, 109, 031108.	3.3	11
27	Spectral measurements of asymmetrically irradiated capsule backlighters. Review of Scientific Instruments, 2016, 87, 11E338.	1.3	2
28	Novel Target Fabrication Using 3D Printing Developed at University of Michigan. Journal of Physics: Conference Series, 2016, 713, 012008.	0.4	0
29	Demonstration of imaging X-ray Thomson scattering on OMEGA EP. Review of Scientific Instruments, 2016, 87, 11E550.	1.3	1
30	Measurements of the energy spectrum of electrons emanating from solid materials irradiated by a picosecond laser. Physics of Plasmas, 2015, 22, .	1.9	1
31	Measurement of Charged-Particle Stopping in Warm Dense Plasma. Physical Review Letters, 2015, 114, 215002.	7.8	107
32	Heat waves and ionization fronts. , 2015, , .		0
33	The hot hELicon eXperiment (HELIX) and the large experiment on instabilities and anisotropy (LEIA). Journal of Plasma Physics, 2015, 81, .	2.1	19
34	Preliminary characterization of a laser-generated plasma sheet. High Energy Density Physics, 2015, 17, 208-212.	1.5	0
35	Experimental results from magnetized-jet experiments executed at the Jupiter Laser Facility. High Energy Density Physics, 2015, 17, 52-62.	1.5	19
36	Construction of a solenoid used on a magnetized plasma experiment. Review of Scientific Instruments, 2014, 85, 11E812.	1.3	4

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37	Demonstration of x-ray fluorescence imaging of a high-energy-density plasma. Review of Scientific Instruments, 2014, 85, 11E602.	1.3	6
38	Simultaneous measurements of several state variables in shocked carbon by imaging x-ray scattering. Physics of Plasmas, 2014, 21, 042701.	1.9	7
39	Investigation of the hard x-ray background in backlit pinhole imagers. Review of Scientific Instruments, 2014, 85, 11E610.	1.3	3
40	Design of a supernova-relevant Rayleigh–Taylor experiment on the National Ignition Facility. I. Planar target design and diagnostics. High Energy Density Physics, 2014, 12, 35-45.	1.5	7
41	Spatially-resolved X-ray scattering measurements of a planar blast wave. High Energy Density Physics, 2014, 11, 75-79.	1.5	9
42	A design of a two-dimensional, supersonic KH experiment on OMEGA-EP. High Energy Density Physics, 2013, 9, 672-686.	1.5	20
43	Comparison between Kelvin–Helmholtz instability experiments on OMEGA and simulation results using the CRASH code. High Energy Density Physics, 2013, 9, 148-151.	1.5	4
44	A design of a two-dimensional, multimode RM experiment on OMEGA-EP. High Energy Density Physics, 2013, 9, 122-131.	1.5	19
45	An experimental concept to measure opacities under solar-relevant conditions. High Energy Density Physics, 2013, 9, 319-324.	1.5	6
46	Two laser-driven mix experiments to study reshock and shear. High Energy Density Physics, 2013, 9, 496-499.	1.5	43
47	Instability, mixing, and transition to turbulence in a laser-driven counterflowing shear experiment. Physics of Plasmas, 2013, 20, .	1.9	31
48	Radiative reverse shock laser experiments relevant to accretion processes in cataclysmic variables. Physics of Plasmas, 2013, 20, .	1.9	13
49	REVERSE RADIATIVE SHOCK LASER EXPERIMENTS RELEVANT TO ACCRETING STREAM-DISK IMPACT IN INTERACTING BINARIES. Astrophysical Journal Letters, 2013, 762, L2.	8.3	14
50	Developing High-Temperature Laser-Driven Half Hohlräume for High-Energy-Density Physics Experiments at the National Ignition Facility. Fusion Science and Technology, 2013, 63, 76-81.	1.1	4
51	An evaluation of high energy bremsstrahlung background in point-projection x-ray radiography experiments. Review of Scientific Instruments, 2012, 83, 10E528.	1.3	12
52	Concept to diagnose mix with imaging x-ray Thomson scattering. Review of Scientific Instruments, 2012, 83, 10E534.	1.3	3
53	A technique for measuring the propagation of a supersonic radiation front in foam via spatially resolved spectral imaging of a tracer layer. Review of Scientific Instruments, 2012, 83, 023506.	1.3	10
54	Imaging x-ray Thomson scattering spectrometer design and demonstration (invited). Review of Scientific Instruments, 2012, 83, 10E108.	1.3	28

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55	Late-time breakup of laser-driven hydrodynamics experiments. High Energy Density Physics, 2012, 8, 360-365.	1.5	4
56	Measurement and simulation of jet mass caused by a high-aspect ratio hole perturbation. Physics of Plasmas, 2010, 17, .	1.9	6
57	INERTIAL CONFINEMENT FUSION RESEARCH AT LOS ALAMOS NATIONAL LABORATORY. , 2009, , .		0
58	Conversion efficiency of high-Z backlighter materials. Review of Scientific Instruments, 2008, 79, 10E918.	1.3	12
59	Radiation transport in inhomogeneous media. Physics of Plasmas, 2008, 15, .	1.9	19
60	A planar-geometry platform for the experimental investigation of Be jets. Physics of Plasmas, 2007, 14, 034501.	1.9	0
61	Experiments to Study Radiation Transport in Clumpy Media. Astrophysics and Space Science, 2007, 307, 213-217.	1.4	10
62	High-energy point-projection radiography of a driven, shielded Hohlraum. Review of Scientific Instruments, 2006, 77, 10E324.	1.3	1
63	High-speed x-ray imaging in high-power laser experiments. , 2005, , .		2
64	Recent Experimental Results and Modelling of High-Mach-Number Jets and the Transition to Turbulence. Astrophysics and Space Science, 2005, 298, 121-128.	1.4	8
65	Preliminary Results from an Astrophysically Relevant Radiation Transfer Experiment. Astrophysics and Space Science, 2005, 298, 163-170.	1.4	0
66	High-Energy-Density Laboratory Astrophysics Studies of Jets and Bow Shocks. Astrophysical Journal, 2005, 634, L77-L80.	4.5	90
67	Origin and dynamics of the heliospheric streamer belt and current sheet. Journal of Geophysical Research, 2005, 110, .	3.3	13
68	Preliminary Results from an Astrophysically Relevant Radiation Transfer Experiment. , 2005, , 163-170.		2
69	Development of intense point x-ray sources for backlighting high energy density experiments (invited). Review of Scientific Instruments, 2004, 75, 3915-3920.	1.3	35
70	Static characterization of aerogel targets for high energy density physics using x-ray radiography. Review of Scientific Instruments, 2004, 75, 4057-4059.	1.3	7
71	Target Fabrication: A View from the Users. Fusion Science and Technology, 2004, 45, 286-295.	1.1	4
72	Ion dynamics in helicon sources. Physics of Plasmas, 2003, 10, 2127-2135.	1.9	22

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73	The time scale for the transition to turbulence in a high Reynolds number, accelerated flow. Physics of Plasmas, 2003, 10, 614-622.	1.9	113
74	Rayleigh-Taylor growth at decelerating interfaces. Physics of Plasmas, 2002, 9, 382-384.	1.9	8
75	Observation of a Hydrodynamically Driven, Radiative-Precursor Shock. Physical Review Letters, 2002, 89, 165003.	7.8	64
76	An experimental testbed for the study of hydrodynamic issues in supernovae. Physics of Plasmas, 2001, 8, 2446-2453.	1.9	92
77	Laser experiments to simulate supernova remnants. Physics of Plasmas, 2000, 7, 2142-2148.	1.9	18
78	Ion temperature anisotropy limitation in high beta plasmas. Physics of Plasmas, 2000, 7, 2157-2165.	1.9	57
79	Beta-dependent upper bound on ion temperature anisotropy in a laboratory plasma. Physics of Plasmas, 2000, 7, 779-783.	1.9	15
80	Ion heating in the HELIX helicon plasma source. Physics of Plasmas, 1999, 6, 4767-4772.	1.9	35
81	Control of ion temperature anisotropy in a helicon plasma. Plasma Sources Science and Technology, 1998, 7, 186-191.	3.1	61
82	Frequency dependent effects in helicon plasmas. Physics of Plasmas, 1997, 4, 2741-2747.	1.9	59
83	A mass resolving neutral atom imager. Review of Scientific Instruments, 1997, 68, 296-299.	1.3	1
84	Ion temperature measurements in helicon plasmas. , 0, , .		0
85	Helicon plasmas for space relevant laboratory experiments. , 0, , .		0
86	Ion cyclotron resonant heating in a helicon plasma source. , 0, , .		0
87	Temperature anisotropy measurements in LEIA. , 0, , .		0
88	High beta ion driven microinstabilities in the large experiment on instabilities and anisotropies. , 0, , .		0