

S M Kerr

List of Publications by Year in descending order

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33
papers

819
citations

623188

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500791

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34
all docs

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docs citations

34
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	Burning plasma achieved in inertial fusion. <i>Nature</i> , 2022, 601, 542-548.	13.7	233
2	Scaling the Yield of Laser-Driven Electron-Positron Jets to Laboratory Astrophysical Applications. <i>Physical Review Letters</i> , 2015, 114, 215001.	2.9	104
3	Design of inertial fusion implosions reaching the burning plasma regime. <i>Nature Physics</i> , 2022, 18, 251-258.	6.5	87
4	Optical resolution photoacoustic microscopy using novel high-repetition-rate passively Q-switched microchip and fiber lasers. <i>Journal of Biomedical Optics</i> , 2010, 15, 056017.	1.4	41
5	The scaling of electron and positron generation in intense laser-solid interactions. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	37
6	High-intensity laser-accelerated ion beam produced from cryogenic micro-jet target. <i>Review of Scientific Instruments</i> , 2016, 87, 11D827.	0.6	32
7	Collisionless shock acceleration of narrow energy spread ion beams from mixed species plasmas using γ lasers. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.4	10
8	Emittance of positron beams produced in intense laser plasma interaction. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	26
9	Measurements of ionization states in warm dense aluminum with betatron radiation. <i>Physical Review E</i> , 2017, 95, 053208.	0.8	24
10	Enhanced Relativistic-Electron-Beam Energy Loss in Warm Dense Aluminum. <i>Physical Review Letters</i> , 2015, 114, 095004.	2.9	23
11	Enhanced laser-plasma interactions using non-imaging optical concentrator targets. <i>Optica</i> , 2020, 7, 129.	4.8	20
12	Target material dependence of positron generation from high intensity laser-matter interactions. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	18
13	Production of relativistic electrons at subrelativistic laser intensities. <i>Physical Review E</i> , 2020, 101, 031201.	0.8	18
14	A high-resolution imaging x-ray crystal spectrometer for high energy density plasmas. <i>Review of Scientific Instruments</i> , 2014, 85, 11E606.	0.6	14
15	Two-dimensional time-resolved ultra-high speed imaging of K-alpha emission from short-pulse-laser interactions to observe electron recirculation. <i>Applied Physics Letters</i> , 2017, 110, 144102.	1.5	13
16	Enhancements in laser-generated hot-electron production via focusing cone targets at short pulse and high contrast. <i>Physical Review E</i> , 2021, 103, 053207.	0.8	13
17	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. <i>Physical Review Letters</i> , 2017, 118, 205001.	2.9	11
18	The five line-of-sight neutron time-of-flight (nToF) suite on the National Ignition Facility (NIF). <i>Review of Scientific Instruments</i> , 2021, 92, 023516.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Enhancing positron production using front surface target structures. Applied Physics Letters, 2021, 118, .	1.5	10
20	Calibration of proton dispersion for the NIF electron positron proton spectrometer (NEPPS) for short-pulse laser experiments on the NIF ARC. Review of Scientific Instruments, 2018, 89, 101145.	0.6	8
21	Enhancement of high energy X-ray radiography using compound parabolic concentrator targets. High Energy Density Physics, 2022, 42, 100978.	0.4	6
22	Optical-resolution photoacoustic micro-endoscopy using image-guide fibers and fiber laser technology. Proceedings of SPIE, 2011, , .	0.8	5
23	Optimal choice of multiple line-of-sight measurements determining plasma hotspot velocity at the National Ignition Facility. Review of Scientific Instruments, 2021, 92, 023513.	0.6	5
24	Multi-pulse time resolved gamma ray spectroscopy of the advanced radiographic capability using gas Cherenkov diagnostics. Physics of Plasmas, 2021, 28, .	0.7	5
25	Three-dimensional diagnostics and measurements of inertial confinement fusion plasmas. Review of Scientific Instruments, 2021, 92, 053526.	0.6	5
26	Reflective multilayer optic as hard X-ray diagnostic on laser-plasma experiment. Review of Scientific Instruments, 2015, 86, 013110.	0.6	4
27	Progress Towards a Laser Produced Relativistic Electron-Positron Pair Plasma. Journal of Physics: Conference Series, 2016, 688, 012010.	0.3	4
28	Absorption of relativistic multi-picosecond laser pulses in wire arrays. Physics of Plasmas, 2021, 28, 103102.	0.7	3
29	Plasma expansion and relativistic filamentation in intense laser-irradiated cone targets. Physics of Plasmas, 2021, 28, .	0.7	3
30	Dynamic focusing of laser driven positron jets by self-generated fields. New Journal of Physics, 2020, 22, 123020.	1.2	2
31	Real-time optical-resolution photoacoustic microscopy using fiber-laser technology. , 2011, , .		1
32	High repetition rate passively Q-switched fiber and microchip lasers for optical resolution photoacoustic imaging. , 2010, , .		0
33	Inverse faraday effect magnetic field generation in laser induced plasma. , 2016, , .		0