

M Krishnamurthy

List of Publications by Year in descending order

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65
papers

1,259
citations

331670

21
h-index

377865

34
g-index

65
all docs

65
docs citations

65
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrally resolved ion imaging from laser produced plasmas using CR-39 detectors. AIP Advances, 2021, 11, .	1.3	2
2	Micro-optics for ultra-intense lasers. AIP Advances, 2021, 11, 035214.	1.3	4
3	A non-uniform charging scheme to decipher charge state propensities measured in nano-cluster ionization. European Physical Journal: Special Topics, 2021, 230, 3997-4009.	2.6	1
4	Measurement of asymmetric electron cloud in cluster nano-plasma. Physics of Plasmas, 2019, 26, 070703.	1.9	3
5	Misjudging negative ions for electrons in intense laser plasma diagnostics. AIP Advances, 2019, 9, 025115.	1.3	3
6	On the importance of field driven single particle processes in short pulse absorption of clusters. Scientific Reports, 2019, 9, 15135.	3.3	1
7	Ionisation of Nanoclusters at Relativistic Laser Intensities. Springer Proceedings in Physics, 2019, , 180-190.	0.2	1
8	Recombination of Protons Accelerated by a High Intensity High Contrast Laser. Physical Review Letters, 2018, 121, 134801.	7.8	8
9	A source to deliver mesoscopic particles for laser plasma studies. Review of Scientific Instruments, 2017, 88, 023301.	1.3	1
10	A gated Thomson parabola spectrometer for improved ion and neutral atom measurements in intense laser produced plasmas. Review of Scientific Instruments, 2017, 88, 083305.	1.3	7
11	Novel target design for enhanced laser driven proton acceleration. AIP Advances, 2017, 7, 095018.	1.3	4
12	Compact acceleration of energetic neutral atoms using high intensity laser-solid interaction. Scientific Reports, 2017, 7, 3871.	3.3	11
13	Dynamics of cluster ionization and neutral atom acceleration. , 2015, , .		0
14	Preferential enhancement of laser-driven carbon ion acceleration from optimized nanostructured surfaces. Scientific Reports, 2015, 5, 11930.	3.3	18
15	Anisotropic negative-ion emission from cluster nanoplasmas. Physical Review A, 2015, 91, .	2.5	2
16	Enhanced x-ray emission from nano-particle doped bacteria. Optics Express, 2015, 23, 17909.	3.4	6
17	Probing strong field ionization of solids with a Thomson parabola spectrometer. Pramana - Journal of Physics, 2014, 82, 111-120.	1.8	4
18	Photoionization of clusters in intense few-cycle near infrared femtosecond pulses. Physical Chemistry Chemical Physics, 2014, 16, 8721-8730.	2.8	22

#	ARTICLE	IF	CITATIONS
19	A quasi-directional emission of MeV neutrals from a dense cluster nano plasma. , 2014, , .		0
20	Anomalous Ion Charge Distribution from Cluster Nanoplasmas. Physical Review Letters, 2013, 111, 143401.	7.8	8
21	Electronic excitation as a mode of heat dissipation in laser-driven cluster plasmas. Physics of Plasmas, 2013, 20, .	1.9	3
22	A compact laser-driven plasma accelerator for megaelectronvolt-energy neutral atoms. Nature Physics, 2013, 9, 185-190.	16.7	84
23	Generation of energetic negative ions from clusters using intense laser fields. New Journal of Physics, 2013, 15, 043036.	2.9	13
24	Non-Maxwellian electron-energy distribution from cluster nanoplasmas. Physical Review A, 2013, 87, .	2.5	4
25	Measurement of the spatio-temporal gas density profile of a supersonic jet. Journal of Applied Physics, 2013, 114, .	2.5	11
26	Evolution of dopant-induced helium nanoplasmas. New Journal of Physics, 2012, 14, 075016.	2.9	24
27	Decrypting the charge-resolved kinetic-energy spectrum in the Coulomb explosion of argon clusters. Physical Review A, 2012, 85, .	2.5	16
28	Surface-plasmon-enhanced MeV ions from femtosecond laser irradiated, periodically modulated surfaces. Physics of Plasmas, 2012, 19, 030703.	1.9	15
29	Enhanced x-ray emission from bacteria. , 2012, , .		0
30	A Thomson parabola ion imaging spectrometer designed to probe relativistic intensity ionization dynamics of nanoclusters. Review of Scientific Instruments, 2011, 82, 083303.	1.3	28
31	Dopant-Induced Ignition of Helium Nanodroplets in Intense Few-Cycle Laser Pulses. Physical Review Letters, 2011, 107, 173402.	7.8	37
32	Bright, low debris, ultrashort hard x-ray table top source using carbon nanotubes. Physics of Plasmas, 2011, 18, 014502.	1.9	34
33	Surface roughness-aided hard X-ray emission from carbon nanotubes. Pramana - Journal of Physics, 2010, 75, 1197-1202.	1.8	1
34	Enhanced ionization of carbon disulfideâ€“doped heteronuclear clusters in intense laser fields and characterization of the doping level. Physical Review A, 2009, 80, .	2.5	6
35	Collisionless phenomena in heteronuclear clusters. Applied Physics Letters, 2008, 92, 191108.	3.3	6
36	Hotter electron generation in doped clusters. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 041002.	1.5	34

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55	Asymmetric emission of high-energy electrons in the two-dimensional hydrodynamic expansion of large xenon clusters irradiated by intense laser fields. <i>Physical Review A</i> , 2003, 67, .	2.5	80
56	Electron rescattering and the dissociative ionization of alcohols in intense laser light. <i>Journal of Chemical Physics</i> , 2003, 119, 12224-12230.	3.0	39
57	Asymmetric High-Energy Ion Emission from Argon Clusters in Intense Laser Fields. <i>Physical Review Letters</i> , 2001, 87, 085005.	7.8	136
58	Fragmentation dynamics of CS_2^q ($q=3\text{--}10$) molecular ions. <i>Physical Review A</i> , 2001, 64, .	2.5	24
59	Spatial alignment of diatomic molecules in intense laser fields: I. Experimental results. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 4919-4938.	1.5	59
60	Spatial alignment of diatomic molecules in intense laser fields: II. Numerical modelling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 4939-4956.	1.5	26
61	Effect of laser polarization on x-ray emission from Ar_n ($n=200\text{--}104$) clusters in intense laser fields. <i>Physical Review A</i> , 2001, 63, .	2.5	47
62	Polarization-state dependence of the ionization dynamics of a chiral molecule in intense laser light. <i>Physical Review A</i> , 2000, 61, .	2.5	5
63	Ion-induced molecular fragmentation: beyond the Coulomb explosion picture. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, L11-L20.	1.5	79
64	Application of the time-dependent wavepacket method to mass spectrometric studies of molecular excitation and dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 358-362.	1.5	4
65	Electronic excitation of H_2 in slow collisions with molecular ions. <i>Physical Review A</i> , 1994, 50, 2383-2389.	2.5	12