

N K Gupta

List of Publications by Year in descending order

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567281

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590
citing authors

#	ARTICLE	IF	CITATIONS
1	On-farm hydro and nutri-priming increases yield of rainfed pearl millet through physio-biochemical adjustments and anti-oxidative defense mechanism. PLoS ONE, 2022, 17, e0265325.	2.5	6
2	Effect of post anthesis high temperature stress on growth, physiology and antioxidative defense mechanisms in contrasting wheat genotypes. Indian Journal of Plant Physiology, 2015, 20, 103-110.	0.8	18
3	Dynamics of Atomic Clusters Under Intense Femtosecond Laser Pulses. Springer Series in Chemical Physics, 2015, , 65-87.	0.2	0
4	Laser induced neutron production by explosion of the deuterium clusters. Physics of Plasmas, 2014, 21, .	1.9	6
5	Carrierâ€œenvelope phase effects on ionization dynamics of atomic clusters irradiated by intense laser pulses of a few cycles. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 125602.	1.5	2
6	Effect of sodium chloride on gas exchange, antioxidative defense mechanism and ion accumulation in different cultivars of Indian jujube (Ziziphus mauritiana L.). Photosynthetica, 2013, 51, 95-101.	1.7	15
7	Molecular dynamic studies on anisotropic explosion of laser irradiated Xe cluster. Physics of Plasmas, 2012, 19, 093107.	1.9	6
8	Efficacy of putrescine and benzyladenine on photosynthesis and productivity in relation to drought tolerance in wheat (Triticum aestivum L.). Physiology and Molecular Biology of Plants, 2012, 18, 331-336.	3.1	53
9	Generation of ultraintense proton beams by multi-ps circularly polarized laser pulses for fast ignition-related applications. Physics of Plasmas, 2011, 18, .	1.9	26
10	Molecular dynamic studies on anisotropy of atomic cluster explosions driven by few-cycle intense lasers. Europhysics Letters, 2011, 96, 63001.	2.0	6
11	Molecular dynamic simulation for laserâ€œcluster interaction. Physics of Plasmas, 2011, 18, 053102.	1.9	24
12	Studies on laser driven shocks in Aluminum and Gold targets at >10 Mbar pressure. Journal of Physics: Conference Series, 2010, 208, 012092.	0.4	1
13	Laser interaction with low-density carbon foam. Pramana - Journal of Physics, 2010, 75, 1191-1196.	1.8	12
14	Strong-field ionization and Coulomb explosion of argon clusters by few-cycle laser pulses. Physical Review A, 2010, 82, .	2.5	22
15	Efficient plasma production by intense laser irradiation of low density foam targets. , 2010, , .		1
16	X-ray emission from Au-Sm alloy target irradiated with high power sub nanosecond laser. Journal of Physics: Conference Series, 2010, 208, 012093.	0.4	1
17	Effect of Radial Density Profile on Resonance Absorption in Laserâ€œCluster Interaction. Contributions To Plasma Physics, 2009, 49, 403-412.	1.1	4
18	Effect of initial plasma density on laser induced ion acceleration. Physics of Plasmas, 2008, 15, .	1.9	23

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19	X-ray and ion measurements in laser produced plasma from gold-copper alloy targets. Journal of Applied Physics, 2008, 103, 013307.	2.5	11
20	Ion dynamics in laser-produced plasmas from mixed high-Z targets. Radiation Effects and Defects in Solids, 2008, 163, 381-387.	1.2	1
21	Role of radial nonuniformities in the interaction of an intense laser with atomic clusters. Physics of Plasmas, 2008, 15, 013105.	1.9	13
22	Outbreak of Scrub Typhus in Jammu – A Report. Medical Journal Armed Forces India, 2006, 62, 342-343.	0.8	12
23	X-ray and ion emission characteristics of plasmas ablated from solid materials using a high power Nd:Glass laser. Journal of Materials Science, 2006, 41, 1623-1630.	3.7	0
24	Hydrodynamic Investigations of Intense Subpicosecond Laser-Matter Interaction. IEEE Transactions on Plasma Science, 2006, 34, 2572-2578.	1.3	3
25	Effect of gold on keV x-ray emission yield from laser produced plasma of gold-copper mix-Z targets. Journal of Applied Physics, 2006, 100, 033306.	2.5	7
26	Measurement of laser driven shock wave transit time through thin aluminium targets by optical shadowgraphy. Shock Waves, 2005, 14, 231-237.	1.9	5
27	Effect of NaCl salinity on photosynthetic rate, transpiration rate, and oxidative stress tolerance in contrasting wheat genotypes. Photosynthetica, 2005, 43, 609-613.	1.7	52
28	Dependence of soft x-ray conversion on atomic composition in laser produced plasma of gold-copper mix-Z targets. Applied Physics Letters, 2003, 83, 27-29.	3.3	36
29	Effect of sodium chloride on the growth and gas exchange of young <i>Ziziphus</i> seedling rootstocks. Journal of Horticultural Science and Biotechnology, 2003, 78, 454-457.	1.9	25
30	Effects of non-local thermodynamic equilibrium conditions on numerical simulations of inertial confinement fusion plasmas. Pramana - Journal of Physics, 2002, 59, 33-51.	1.8	6
31	Effect of Water Stress on Physiological Attributes and their Relationship with Growth and Yield of Wheat Cultivars at Different Stages. Journal of Agronomy and Crop Science, 2001, 186, 55-62.	3.5	116
32	Exogenous Cytokinin Application Increases Cell Membrane and Chlorophyll Stability in Wheat (<i>Triticum aestivum</i> L.). Cereal Research Communications, 2000, 28, 287-291.	1.6	18
33	Rayleigh-Taylor instability in multi-structured inertial confinement fusion targets. Laser and Particle Beams, 1989, 7, 27-54.	1.0	2
34	Reply to – Comment on – Rayleigh-Taylor instability in spherical geometry. Physical Review A, 1987, 36, 413-413.	2.5	1
35	Growth of tartrate crystals of type R ₂ (C ₄ H ₄ O ₆) ₃ · xH ₂ O (R = Nd, Dy) in silica gel. Crystal Research and Technology, 1987, 22, 177-182.	1.3	17
36	Growth and Kinetic Studies of Spherulitic Gadolinium Tartrate Crystals from Silica Gel. Crystal Research and Technology, 1986, 21, 15-22.	1.3	22

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37	Growth of lanthanum tartrate crystals in silica gel. <i>Journal of Materials Science</i> , 1986, 21, 90-96.	3.7	29
38	Characterization and thermal behaviour of lanthanum tartrate crystals grown from silica gels. <i>Bulletin of Materials Science</i> , 1986, 8, 547-555.	1.7	14
39	Rayleigh-Taylor instability in multi-structured spherical targets. <i>Plasma Physics and Controlled Fusion</i> , 1986, 28, 925-941.	2.1	8
40	Rayleigh-Taylor instability in spherical geometry. <i>Physical Review A</i> , 1986, 33, 2813-2816.	2.5	10
41	Effects of density gradients on Rayleigh-Taylor instability in an ablatively accelerated inertial confinement fusion target. <i>Plasma Physics and Controlled Fusion</i> , 1986, 28, 267-278.	2.1	2