

N K Gupta

List of Publications by Year in descending order

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papers

636
citations

567281

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times ranked

590
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Water Stress on Physiological Attributes and their Relationship with Growth and Yield of Wheat Cultivars at Different Stages. <i>Journal of Agronomy and Crop Science</i> , 2001, 186, 55-62.	3.5	116
2	Efficacy of putrescine and benzyladenine on photosynthesis and productivity in relation to drought tolerance in wheat (<i>Triticum aestivum</i> L.). <i>Physiology and Molecular Biology of Plants</i> , 2012, 18, 331-336.	3.1	53
3	Effect of NaCl salinity on photosynthetic rate, transpiration rate, and oxidative stress tolerance in contrasting wheat genotypes. <i>Photosynthetica</i> , 2005, 43, 609-613.	1.7	52
4	Dependence of soft x-ray conversion on atomic composition in laser produced plasma of goldâ€“copper mix-Z targets. <i>Applied Physics Letters</i> , 2003, 83, 27-29.	3.3	36
5	Growth of lanthanum tartrate crystals in silica gel. <i>Journal of Materials Science</i> , 1986, 21, 90-96.	3.7	29
6	Generation of ultraintense proton beams by multi-ps circularly polarized laser pulses for fast ignition-related applications. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	26
7	Effect of sodium chloride on the growth and gas exchange of young <i>Ziziphus</i> seedling rootstocks. <i>Journal of Horticultural Science and Biotechnology</i> , 2003, 78, 454-457.	1.9	25
8	Molecular dynamic simulation for laserâ€“cluster interaction. <i>Physics of Plasmas</i> , 2011, 18, 053102.	1.9	24
9	Effect of initial plasma density on laser induced ion acceleration. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	23
10	Growth and Kinetic Studies of Spherulitic Gadolinium Tartrate Crystals from Silica Gel. <i>Crystal Research and Technology</i> , 1986, 21, 15-22.	1.3	22
11	Strong-field ionization and Coulomb explosion of argon clusters by few-cycle laser pulses. <i>Physical Review A</i> , 2010, 82, .	2.5	22
12	Exogenous Cytokinin Application Increases Cell Membrane and Chlorophyll Stability in Wheat (<i>Triticum aestivum</i> L.). <i>Cereal Research Communications</i> , 2000, 28, 287-291.	1.6	18
13	Effect of post anthesis high temperature stress on growth, physiology and antioxidative defense mechanisms in contrasting wheat genotypes. <i>Indian Journal of Plant Physiology</i> , 2015, 20, 103-110.	0.8	18
14	Growth of tartrate crystals of type R2 ($(C_4H_4O_6)_3 \cdot xH_2O$ (R = Nd, Dy) in silica gel. <i>Crystal Research and Technology</i> , 1987, 22, 177-182.	1.3	17
15	Effect of sodium chloride on gas exchange, antioxidative defense mechanism and ion accumulation in different cultivars of Indian jujube (<i>Ziziphus mauritiana</i> L.). <i>Photosynthetica</i> , 2013, 51, 95-101.	1.7	15
16	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
17	Role of radial nonuniformities in the interaction of an intense laser with atomic clusters. <i>Physics of Plasmas</i> , 2008, 15, 013105.	1.9	13
18	Outbreak of Scrub Typhus in Jammu â€“ A Report. <i>Medical Journal Armed Forces India</i> , 2006, 62, 342-343.	0.8	12

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19	Laser interaction with low-density carbon foam. <i>Pramana - Journal of Physics</i> , 2010, 75, 1191-1196.	1.8	12
20	X-ray and ion measurements in laser produced plasma from gold-copper alloy targets. <i>Journal of Applied Physics</i> , 2008, 103, 013307.	2.5	11
21	Rayleigh-Taylor instability in spherical geometry. <i>Physical Review A</i> , 1986, 33, 2813-2816.	2.5	10
22	Rayleigh-Taylor instability in multi-structured spherical targets. <i>Plasma Physics and Controlled Fusion</i> , 1986, 28, 925-941.	2.1	8
23	Effect of gold on keV x-ray emission yield from laser produced plasma of gold-copper mix-Z targets. <i>Journal of Applied Physics</i> , 2006, 100, 033306.	2.5	7
24	Effects of non-local thermodynamic equilibrium conditions on numerical simulations of inertial confinement fusion plasmas. <i>Pramana - Journal of Physics</i> , 2002, 59, 33-51.	1.8	6
25	Molecular dynamic studies on anisotropy of atomic cluster explosions driven by few-cycle intense lasers. <i>Europhysics Letters</i> , 2011, 96, 63001.	2.0	6
26	Molecular dynamic studies on anisotropic explosion of laser irradiated Xe cluster. <i>Physics of Plasmas</i> , 2012, 19, 093107.	1.9	6
27	Laser induced neutron production by explosion of the deuterium clusters. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	6
28	On-farm hydro and nutri-priming increases yield of rainfed pearl millet through physio-biochemical adjustments and anti-oxidative defense mechanism. <i>PLoS ONE</i> , 2022, 17, e0265325.	2.5	6
29	Measurement of laser driven shock wave transit time through thin aluminium targets by optical shadowgraphy. <i>Shock Waves</i> , 2005, 14, 231-237.	1.9	5
30	Effect of Radial Density Profile on Resonance Absorption in Laser-Cluster Interaction. <i>Contributions To Plasma Physics</i> , 2009, 49, 403-412.	1.1	4
31	Hydrodynamic Investigations of Intense Subpicosecond Laser-Matter Interaction. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 2572-2578.	1.3	3
32	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
33	Rayleigh-Taylor instability in multi-structured inertial confinement fusion targets. <i>Laser and Particle Beams</i> , 1989, 7, 27-54.	1.0	2
34	Carrier-envelope phase effects on ionization dynamics of atomic clusters irradiated by intense laser pulses of a few cycles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 125602.	1.5	2
35	Reply to "Comment on 'Rayleigh-Taylor instability in spherical geometry'". <i>Physical Review A</i> , 1987, 36, 413-413.	2.5	1
36	Ion dynamics in laser-produced plasmas from mixed high-Z targets. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 381-387.	1.2	1

#	ARTICLE	IF	CITATIONS
37	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
38	Efficient plasma production by intense laser irradiation of low density foam targets. , 2010, , .		1
39	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
40	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
41	Dynamics of Atomic Clusters Under Intense Femtosecond Laser Pulses. Springer Series in Chemical Physics, 2015, , 65-87.	0.2	0