

Vishal Thakur

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Resonant Terahertz Generation by the Interaction of Laser Beams with Magnetized Anharmonic Carbon Nanotube Array. <i>Plasmonics</i> , 2022, 17, 381-388.	1.8	34
2	Resonant terahertz generation by cross-focusing of Gaussian laser beams in the array of vertically aligned anharmonic and magnetized CNTs. <i>Optics Communications</i> , 2022, 513, 128112.	1.0	32
3	Resonant terahertz generation from laser filaments in the presence of static electric field in a magnetized collisional plasma. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	29
4	Combined effect of transverse electric and magnetic fields on THz generation by beating of two amplitude-modulated laser beams in the collisional plasma. <i>Journal of Astrophysics and Astronomy</i> , 2022, 43, .	0.4	28
5	Effect of pulse slippage on density transition-based resonant third-harmonic generation of short-pulse laser in plasma. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	27
6	Resonant second harmonic generation in plasma under exponential density ramp profile. <i>Optik</i> , 2018, 168, 159-164.	1.4	26
7	Combined Effect of Chirp and Exponential Density Ramp on Relativistic Self-focusing of Hermite-Cosine-Gaussian Laser in Collisionless Cold Quantum Plasma. <i>Brazilian Journal of Physics</i> , 2019, 49, 113-118.	0.7	24
8	Optimization of wiggler wave number for density transition based second harmonic generation in laser plasma interaction. <i>Optik</i> , 2017, 142, 455-462.	1.4	23
9	Influence of exponential density ramp on second harmonic generation by a short pulse laser in magnetized plasma. <i>Optik</i> , 2018, 171, 523-528.	1.4	23
10	Second-harmonic generation by a chirped laser pulse with the exponential density ramp profile in the presence of a planar magnetostatic wiggler. <i>Laser and Particle Beams</i> , 2019, 37, 442-447.	0.4	23
11	Second harmonic generation of cosh-Gaussian laser beam in magnetized plasma. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	23
12	Third harmonic generation of a relativistic self-focusing laser in plasma in the presence of wiggler magnetic field. <i>High Energy Density Physics</i> , 2019, 32, 51-55.	0.4	22
13	Stronger self-focusing of a chirped pulse laser with exponential density ramp profile in cold quantum magnetoplasma. <i>Optik</i> , 2018, 172, 191-196.	1.4	21
14	Stronger self-focusing of cosh-Gaussian laser beam under exponential density ramp in plasma with linear absorption. <i>Optik</i> , 2019, 183, 912-917.	1.4	21
15	Resonant excitation of THz radiations by the interaction of amplitude-modulated laser beams with an anharmonic CNTs in the presence of static D.C. electric and magnetic fields. <i>Chinese Journal of Physics</i> , 2022, 78, 453-462.	2.0	21
16	Relativistic Self-Focusing of Hermite-cosine-Gaussian Laser Beam in Collisionless Plasma with Exponential Density Transition. <i>Communications in Theoretical Physics</i> , 2019, 71, 736.	1.1	20
17	Resonant Enhancement of THz Radiation Through Vertically Aligned Carbon Nanotubes Array by Applying Wiggler Magnetic Field. <i>Plasmonics</i> , 2019, 14, 1051-1056.	1.8	20
18	Effect of cross-focusing of two laser beams on THz radiation in graphite nanoparticles with density ripple. <i>Physica Scripta</i> , 2020, 95, 045602.	1.2	19

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19	Second harmonic generation by a chirped laser pulse in magnetized-plasma. <i>Optik</i> , 2016, 127, 4167-4172.	1.4	18
20	Resonant second harmonic generation by a chirped laser pulse in a semiconductor. <i>Optik</i> , 2017, 130, 525-530.	1.4	14
21	Enhanced self-focusing of Laguerre-Gaussian laser beam in relativistic plasma under exponential plasma density transition. <i>Chinese Journal of Physics</i> , 2021, 70, 182-187.	2.0	12
22	Influence of linear absorption and density ramp on self-focusing of the Hermite-Gaussian chirped pulse laser in plasma. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	10
23	Effect of axial electron temperature and plasma density ramp on self-focusing / defocusing of a laser beam in plasma. <i>Optik</i> , 2019, 192, 162963.	1.4	9
24	Relativistic Self-Focusing of Hermite-cosh-Gaussian Laser Beam in Magnetoplasma with Exponential Plasma Density Ramp. <i>Communications in Theoretical Physics</i> , 2019, 71, 1469.	1.1	9
25	Hermite-cosh-Gaussian laser-induced third harmonic generation in plasma. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	7
26	Optimizing laser focal spot size using self-focusing in a cone-guided fast-ignition ICF target. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	7
27	Second Harmonic Generation Induced by a Surface Plasma Wave on a Metallic Surface in the Presence of a Wiggler Magnetic Field. <i>Brazilian Journal of Physics</i> , 2022, 52, 1.	0.7	7
28	Surface plasma wave induced second-harmonic generation on a metal-semiconductor interface: effect of self-focusing of a laser. <i>Applied Optics</i> , 2022, 61, 4731.	0.9	7
29	Third harmonic generation of a relativistic self-focusing laser in plasma under exponential density ramp. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2022, 77, 323-328.	0.7	6
30	Exponential density transition-based enhanced second harmonic generation in plasma. <i>Laser and Particle Beams</i> , 2018, 36, 363-368.	0.4	5
31	Strong self-focusing for laser interaction with DT fusion target. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
32	Self-focusing of Hermite-Gaussian laser beam in plasma in relativistic and ponderomotive regime. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
33	Combined influence of axial electron temperature and exponential plasma density ramp on the self-focusing of a chirped laser in plasma. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2020, 75, 671-675.	0.7	3