Shivanand Chaurasia

List of Publications by Year
in descending order

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47	322	933447	940533
papers	citations	10 h-index	16 g-index

47	47	47	397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigations on surface chemical analysis using X-ray photoelectron spectroscopy and optical properties of Dy3+-doped LiNa3P2O7 phosphor. Journal of Molecular Structure, 2016, 1118, 117-123.	3.6	41
2	Green fluorescence of terbium ions in lithium fluoroborate glasses for fibre lasers and display devices. Bulletin of Materials Science, 2016, 39, 711-717.	1.7	32
3	Laser induced damage studies in borosilicate glass using nanosecond and sub nanosecond pulses. Journal of Non-Crystalline Solids, 2017, 463, 138-147.	3.1	19
4	Optical properties of Yb3+ ions in fluorophosphate glasses for 1.0ÂÎ¼m solid-state infrared lasers. Applied Physics B: Lasers and Optics, 2013, 113, 527-535.	2.2	16
5	An improved time-dependent nonlocal electron heat-flux model andÂits verification by laser-driven Al foil acceleration experiment. High Energy Density Physics, 2014, 11, 36-44.	1.5	15
6	Raman spectroscopy of poly (methyl methacrylate) under laser shock and static compression. Journal of Raman Spectroscopy, 2020, 51, 860-870.	2.5	14
7	Laser interaction with low-density carbon foam. Pramana - Journal of Physics, 2010, 75, 1191-1196.	1.8	12
8	X-ray and ion measurements in laser produced plasma from gold-copper alloy targets. Journal of Applied Physics, 2008, 103, 013307.	2.5	11
9	X-ray back-lighter characterization for iron opacity measurements using laser-produced aluminium K-alpha emission. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 155403.	1.5	11
10	Raman spectroscopy of laser shocked polystyrene. Journal of Raman Spectroscopy, 2017, 48, 458-464.	2.5	11
11	Lasing transition at 1.06ÂÎ¼m emission in Nd‹sup›3‹/sup›‹sup›+‹/sup›â€doped borateâ€based tellurium calcium zinc niobium oxide glasses for highâ€power solidâ€state lasers. Luminescence, 2017, 32, 688-694.	2.9	11
12	An improved and fully implicit multi-group non-local electron transport model and its validations. High Energy Density Physics, 2017, 24, 56-63.	1.5	10
13	Development of in situ time-resolved Raman spectroscopy facility for dynamic shock loading in materials. Journal of Instrumentation, 2017, 12, P11008-P11008.	1.2	10
14	K-shell X-ray spectroscopy of laser produced aluminum plasma. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 20-29.	2.3	10
15	Preparation and Characterization of Yb‹SUP›3‹/SUP›‹SUP›+‹/SUP›-Doped Metaphosphate Glasses for High Energy and High Power Laser Applications. Science of Advanced Materials, 2013, 5, 276-284.	0.7	10
16	Timeâ€resolved Raman spectroscopy of polystyrene under laser driven shock compression. Journal of Raman Spectroscopy, 2017, 48, 1007-1012.	2.5	9
17	Generation, measurement and optimization of a variable duration, short pulse, mode-locked cavity-dumped Nd:YAG laser. Optics and Laser Technology, 2008, 40, 427-434.	4.6	6
18	Laser plasma interaction in copper nano-particle targets. Laser and Particle Beams, 2008, 26, 473-478.	1.0	6

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19	Phase transitions in benzene under dynamic and static compression. Journal of Raman Spectroscopy, 2021, 52, 770-781.	2.5	5
20	Dynamic imaging and hydrodynamics study of high velocity, laser-accelerated thin foil targets using multiframe optical shadowgraphy. Pramana - Journal of Physics, 2012, 79, 1471-1483.	1.8	4
21	Specific features of microheterogeneous plasma produced by irradiation of a polymer aerogel target with an intense 500-ps-long laser pulse. Plasma Physics Reports, 2013, 39, 668-673.	0.9	4
22	Studies on subcritical and overcritical density laser ablated TAC foam targets. Optics Communications, 2015, 343, 1-5.	2.1	4
23	Time-Resolved Vibrational Spectroscopy of Polytetrafluoroethylene Under Laser-Shock Compression. Applied Spectroscopy, 2017, 71, 2643-2652.	2.2	4
24	Enhancement of keV X-rays from low-density cellulose triacetate (TAC) foam targets. Physics of Plasmas, 2017, 24, .	1.9	4
25	X-ray and ion emission studies from subnanosecond laser-irradiated SiO₂ aerogel foam targets. Laser and Particle Beams, 2017, 35, 505-512.	1.0	4
26	Demonstration of gold foam plasma as bright x-ray source and slow ion emitters. Plasma Physics and Controlled Fusion, 2019, 61, 084001.	2.1	4
27	Measurement of shock velocity and temperature in laser-shocked carbon disulphide using time-resolved Raman spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 108000.	2.3	4
28	Optimization of bremsstrahlung and characteristic line emission from aluminum plasma. Optics Communications, 2013, 308, 169-174.	2.1	3
29	Pump probe based Raman spectroscopic studies of PTFE under laser driven shock compression. AIP Conference Proceedings, 2016, , .	0.4	3
30	In situ Raman spectroscopic studies of polyvinyl toluene under laserâ€driven shock compression and comparison with hydrostatic experiments. Journal of Raman Spectroscopy, 2017, 48, 1300-1306.	2.5	3
31	In Situ Raman Spectroscopic Studies of Liquid Carbon Tetrachloride (CCl_4) Under Static and Laser-Driven Shock Compression. Applied Spectroscopy, 2019, 73, 1420-1427.	2.2	3
32	In situ measurement of ions parameters of laser produced ion source using high resolution Thomson Parabola Spectrometer. Journal of Instrumentation, 2016, 11, P08004-P08004.	1.2	2
33	Comparative studies of Laser induced plasma in TEOS and MTMS based aerogels and solid quartz. MRS Advances, 2017, 2, 3531-3536.	0.9	2
34	Raman spectroscopic studies of ortho-xylene under laser driven shock and static compression. Journal of Applied Physics, 2021, 129, .	2.5	2
35	Time-resolved Raman spectroscopy of hexafluorobenzene (C6F6) under laser-driven shock compression. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 263, 107547.	2.3	2
36	Crystallization and phase transitions of C_6H_6:C_6F_6 complex under extreme conditions using laser-driven shock. Journal of Applied Physics, 2022, 131, 115903.	2.5	2

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37	Ion dynamics in laser-produced plasmas from mixed high-Z targets. Radiation Effects and Defects in Solids, 2008, 163, 381-387.	1.2	1
38	Effect of the laser focus position on characteristics of X-ray and ion emission from gold plasmas generated by a sub-nanosecond laser. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 3611-3616.	1.4	1
39	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
40	Efficient plasma production by intense laser irradiation of low density foam targets. , 2010, , .		1
41	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
42	Shock pressure measurements in Polyvinyl alcohol (PVA) films using multi-frame optical shadowgraphy. Journal of Physics: Conference Series, 2012, 377, 012042.	0.4	1
43	L-shell spectroscopy of neon and fluorine like copper ions from laser produced plasma. Physics of Plasmas, 2019, 26, 023301.	1.9	1
44	Paraâ€xylene under extreme conditions: A Raman spectroscopic study. Journal of Raman Spectroscopy, 2021, 52, 1212-1221.	2.5	1
45	High-speed photon Doppler velocimetry for laser-driven flyer acceleration studies. Pramana - Journal of Physics, 2022, 96, .	1.5	1
46	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
47	Development of online quasimonochromatic X-ray backlighter for high energy density physics studies. Pramana - Journal of Physics, 2013, 81, 829-838.	1.8	0