Gourab Chatterjee

List of Publications by Year
in descending order

30	341	840776 11	839539 18
papers	citations	h-index	g-index

30	30	30	407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Macroscopic Transport of Mega-ampere Electron Currents in Aligned Carbon-Nanotube Arrays. Physical Review Letters, 2012, 108, 235005.	7.8	45
2	Magnetic turbulence in a table-top laser-plasma relevant to astrophysical scenarios. Nature Communications, 2017, 8, 15970.	12.8	40
3	Overcoming bifurcation instability in high-repetition-rate Ho:YLF regenerative amplifiers. Optics Letters, 2015, 40, 5427.	3.3	34
4	Terahertz Acoustics in Hot Dense Laser Plasmas. Physical Review Letters, 2015, 114, 115001.	7.8	23
5	Contrasting levels of absorption of intense femtosecond laser pulses by solids. Scientific Reports, 2016, 5, 17870.	3.3	21
6	Direct observation of ultrafast surface transport of laser-driven fast electrons in a solid target. Physics of Plasmas, 2013, 20, .	1.9	18
7	Multi-octave supercontinuum generation in YAG pumped by mid-infrared, multi-picosecond pulses. Optics Letters, 2018, 43, 4329.	3.3	15
8	Compact Ho:YLF-pumped ZnGeP₂-based optical parametric amplifiers tunable in the molecular fingerprint regime. Optics Letters, 2020, 45, 2255.	3.3	14
9	Ultrafast dynamics of a near-solid-density layer in an intense femtosecond laser-excited plasma. Physics of Plasmas, 2014, 21, .	1.9	13
10	High-resolution measurements of the spatial and temporal evolution of megagauss magnetic fields created in intense short-pulse laser-plasma interactions. Review of Scientific Instruments, 2014, 85, 013505.	1.3	13
11	Silicon nanowire based high brightness, pulsed relativistic electron source. APL Photonics, 2017, 2, .	5.7	11
12	A bright point source of ultrashort hard x-ray pulses using biological cells. Optics Express, 2012, 20, 5754.	3.4	10
13	Efficient generation and guiding of megaampere relativistic electron current by silicon nanowires. Applied Physics Letters, 2012, 100, 244104.	3.3	9
14	Controlling femtosecond-laser-driven shock-waves in hot, dense plasma. Physics of Plasmas, 2017, 24, 072702.	1.9	9
15	Mapping the Damping Dynamics of Mega-Ampere Electron Pulses Inside a Solid. Physical Review Letters, 2018, 120, 065001.	7.8	8
16	Enhanced transport of relativistic electrons through nanochannels. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	7
17	Ultrafast optics of solid density plasma using multicolor probes. Optics Express, 2014, 22, 22320.	3.4	7
18	Intense femtosecond laser driven collimated fast electron transport in a dielectric mediumâ€“role of intensity contrast. Optics Express, 2016, 24, 28419.	3.4	7

#	Article	IF	Citations
19	Micron-scale mapping of megagauss magnetic fields using optical polarimetry to probe hot electron transport in petawatt-class laser-solid interactions. Scientific Reports, 2017, 7, 8347.	3.3	7
20	Controlling two plasmon decay instability in intense femtosecond laser driven plasmas. Physics of Plasmas, 2015, 22, .	1.9	6
21	Enhanced x-ray emission from nano-particle doped bacteria. Optics Express, 2015, 23, 17909.	3.4	6
22	A spatio-spectral polarization analysis of 1ÂÂµm-pumped bulk supercontinuum in a cubic crystal (YAG). Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	4
23	Two-plasmon-decay induced fast electrons in intense femtosecond laserâ€“solid interactions. Physics of Plasmas, 2020, 27, .	1.9	4
24	Micro-optics for ultra-intense lasers. AIP Advances, 2021, 11, 035214.	1.3	4
25	Efficient transport of femtosecond laser-generated fast electrons in a millimeter thick graphite. Applied Physics Letters, 2016, 109, .	3.3	3
26	Formation and evolution of post-solitons following a high intensity laser-plasma interaction with a low-density foam target. Plasma Physics and Controlled Fusion, 2021, 63, 074001.	2.1	1
27	Effi cient Production of Fast Electron Via Surface Plasmon Resonance Induced by Intense Laser Light. The Review of Laser Engineering, 2015, 43, 638.	0.0	1
28	Stability optimized, 4-mJ and 1.2-ps pulses from a Ho:YLF regenerative amplifier. , 2016, , .		1
29	High energetic and highly stable pulses from a Ho:YLF regenerative amplifier. Proceedings of SPIE, 2016, , .	0.8	0
30	Overcoming Avalanche Ionization to Generate Multi-Octave Supercontinuum Pumped by a Ho:YLF Regenerative Amplifier. , 2019, , .		0