

# Gourab Chatterjee

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

341  
citations

840776

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h-index

839539

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g-index

30  
all docs

30  
docs citations

30  
times ranked

407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-optics for ultra-intense lasers. AIP Advances, 2021, 11, 035214.	1.3	4
2	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
3	Two-plasmon-decay induced fast electrons in intense femtosecond laser–solid interactions. Physics of Plasmas, 2020, 27, .	1.9	4
4	Compact Ho:YLF-pumped ZnGeP <sub>2</sub> -based optical parametric amplifiers tunable in the molecular fingerprint regime. Optics Letters, 2020, 45, 2255.	3.3	14
5	Overcoming Avalanche Ionization to Generate Multi-Octave Supercontinuum Pumped by a Ho:YLF Regenerative Amplifier. , 2019, , .		0
6	Mapping the Damping Dynamics of Mega-Ampere Electron Pulses Inside a Solid. Physical Review Letters, 2018, 120, 065001.	7.8	8
7	Multi-octave supercontinuum generation in YAG pumped by mid-infrared, multi-picosecond pulses. Optics Letters, 2018, 43, 4329.	3.3	15
8	A spatio-spectral polarization analysis of 1-μm-pumped bulk supercontinuum in a cubic crystal (YAG). Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	4
9	Silicon nanowire based high brightness, pulsed relativistic electron source. APL Photonics, 2017, 2, .	5.7	11
10	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
11	Controlling femtosecond-laser-driven shock-waves in hot, dense plasma. Physics of Plasmas, 2017, 24, 072702.	1.9	9
12	Magnetic turbulence in a table-top laser-plasma relevant to astrophysical scenarios. Nature Communications, 2017, 8, 15970.	12.8	40
13	Intense femtosecond laser driven collimated fast electron transport in a dielectric medium—role of intensity contrast. Optics Express, 2016, 24, 28419.	3.4	7
14	Efficient transport of femtosecond laser-generated fast electrons in a millimeter thick graphite. Applied Physics Letters, 2016, 109, .	3.3	3
15	High energetic and highly stable pulses from a Ho:YLF regenerative amplifier. Proceedings of SPIE, 2016, , .	0.8	0
16	Contrasting levels of absorption of intense femtosecond laser pulses by solids. Scientific Reports, 2016, 5, 17870.	3.3	21
17	Stability optimized, 4-mJ and 1.2-ps pulses from a Ho:YLF regenerative amplifier. , 2016, , .		1
18	Controlling two plasmon decay instability in intense femtosecond laser driven plasmas. Physics of Plasmas, 2015, 22, .	1.9	6

#	ARTICLE	IF	CITATIONS
19	Overcoming bifurcation instability in high-repetition-rate Ho:YLF regenerative amplifiers. Optics Letters, 2015, 40, 5427.	3.3	34
20	Terahertz Acoustics in Hot Dense Laser Plasmas. Physical Review Letters, 2015, 114, 115001.	7.8	23
21	Enhanced x-ray emission from nano-particle doped bacteria. Optics Express, 2015, 23, 17909.	3.4	6
22	Efficient Production of Fast Electron Via Surface Plasmon Resonance Induced by Intense Laser Light. The Review of Laser Engineering, 2015, 43, 638.	0.0	1
23	Ultrafast optics of solid density plasma using multicolor probes. Optics Express, 2014, 22, 22320.	3.4	7
24	Ultrafast dynamics of a near-solid-density layer in an intense femtosecond laser-excited plasma. Physics of Plasmas, 2014, 21, .	1.9	13
25	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
26	Direct observation of ultrafast surface transport of laser-driven fast electrons in a solid target. Physics of Plasmas, 2013, 20, .	1.9	18
27	Enhanced transport of relativistic electrons through nanochannels. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	7
28	A bright point source of ultrashort hard x-ray pulses using biological cells. Optics Express, 2012, 20, 5754.	3.4	10
29	Macroscopic Transport of Mega-ampere Electron Currents in Aligned Carbon-Nanotube Arrays. Physical Review Letters, 2012, 108, 235005.	7.8	45
30	Efficient generation and guiding of megaampere relativistic electron current by silicon nanowires. Applied Physics Letters, 2012, 100, 244104.	3.3	9