

# Gabriel Schaumann

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

881  
citations

759233

12  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of non-destructive and isotope-sensitive material analysis using a short-pulsed laser-driven epi-thermal neutron source. <i>Nature Communications</i> , 2022, 13, 1173.	12.8	18
2	Targets with cone-shaped microstructures from various materials for enhanced high-intensity laser-matter interaction. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	32
3	Spatially resolved online particle detector using scintillators for laser-driven particle sources. <i>Review of Scientific Instruments</i> , 2021, 92, 093302.	1.3	7
4	Analysis of laser-proton acceleration experiments for development of empirical scaling laws. <i>Physical Review E</i> , 2021, 104, 045210.	2.1	12
5	Microstructured layered targets for improved laser-induced x-ray backlighters. <i>Physical Review E</i> , 2021, 104, 065207.	2.1	4
6	Enhanced brightness of a laser-driven x-ray and particle source by microstructured surfaces of silicon targets. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	22
7	Guiding of relativistic electron beams in dense matter by laser-driven magnetostatic fields. <i>Nature Communications</i> , 2018, 9, 102.	12.8	86
8	Laser-driven strong magnetostatic fields with applications to charged beam transport and magnetized high energy-density physics. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	58
9	Intense, directed neutron beams from a laser-driven neutron source at PHELIX. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	40
10	Laser-plasmas in the relativistic-transparency regime: Science and applications. <i>Physics of Plasmas</i> , 2017, 24, 056702.	1.9	44
11	Laser-induced microstructures on silicon for laser-driven acceleration experiments. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	9
12	Fabrication and characterization of thin polymer targets for laser-driven ion acceleration. <i>Journal of Physics: Conference Series</i> , 2016, 713, 012005.	0.4	2
13	Neutron imaging with the short-pulse laser driven neutron source at the Trident laser facility. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	32
14	Development of an electrothermal micro positioning platform for laser targets with two degrees of freedom. , 2016, , .		1
15	Laser-driven platform for generation and characterization of strong quasi-static magnetic fields. <i>New Journal of Physics</i> , 2015, 17, 083051.	2.9	130
16	Influence of fs-laser desorption on target normal sheath accelerated ions. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	9
17	Bright Laser-Driven Neutron Source Based on the Relativistic Transparency of Solids. <i>Physical Review Letters</i> , 2013, 110, 044802.	7.8	271
18	Characterization of a novel, short pulse laser-driven neutron source. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	43

#	ARTICLE	IF	CITATIONS
19	Status of PHELIX laser and first experiments. Laser and Particle Beams, 2005, 23, .	1.0	61