

# T Toncian

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

579  
citations

840776

11  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Multi-MeV Photon Emission by a Laser-Driven Electron Beam in a Self-Generated Magnetic Field. <i>Physical Review Letters</i> , 2016, 116, 185003.	7.8	150
2	Hot Electrons Transverse Refluxing in Ultraintense Laser-Solid Interactions. <i>Physical Review Letters</i> , 2010, 105, 015005.	7.8	97
3	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
4	Enhanced proton acceleration in an applied longitudinal magnetic field. <i>New Journal of Physics</i> , 2016, 18, 105011.	2.9	50
5	Power Scaling for Collimated $\gamma$ -Ray Beams Generated by Structured Laser-Irradiated Targets and Its Application to Two-Photon Pair Production. <i>Physical Review Applied</i> , 2020, 13, .	3.8	45
6	Dominance of $\gamma$ - $\gamma$ electron-positron pair creation in a plasma driven by high-intensity lasers. <i>Communications Physics</i> , 2021, 4, .	5.3	32
7	Direct laser acceleration of electrons assisted by strong laser-driven azimuthal plasma magnetic fields. <i>Physical Review E</i> , 2020, 102, 013206.	2.1	27
8	A tabletop, ultrashort pulse photoneutron source driven by electrons from laser wakefield acceleration. <i>Matter and Radiation at Extremes</i> , 2017, 2, 296-302.	3.9	19
9	Structured targets for detection of Megatesla-level magnetic fields through Faraday rotation of XFEL beams. <i>Physics of Plasmas</i> , 2019, 26, 013105.	1.9	17
10	Design and performance characterisation of the HAPG von HÄ́mos Spectrometer at the High Energy Density Instrument of the European XFEL. <i>Journal of Instrumentation</i> , 2020, 15, P11033-P11033.	1.2	15
11	Relativistically transparent magnetic filaments: scaling laws, initial results and prospects for strong-field QED studies. <i>New Journal of Physics</i> , 2021, 23, 095009.	2.9	14
12	Demonstration of an x-ray Raman spectroscopy setup to study warm dense carbon at the high energy density instrument of European XFEL. <i>Physics of Plasmas</i> , 2021, 28, 082701.	1.9	11
13	Generation of focusing ion beams by magnetized electron sheath acceleration. <i>Scientific Reports</i> , 2020, 10, 18966.	3.3	9
14	ReLaX: the HiBEF high-intensity short-pulse laser driver for relativistic laser-matter interaction and strong-field science at the HED instrument at EuXFEL. <i>High Power Laser Science and Engineering</i> , 0, , 1-15.	4.6	9
15	Birefringence in thermally anisotropic relativistic plasmas and its impact on laser-plasma interactions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
16	Dynamics of hot refluxing electrons in ultra-short relativistic laser foil interactions. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
17	A multihertz, kiloelectronvolt pulsed proton source from a laser irradiated continuous hydrogen cluster target. <i>Physics of Plasmas</i> , 2019, 26, 073102.	1.9	6
18	Generation of tens-of-MeV photons by compton backscatter from laser-plasma-accelerated GeV electrons. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Achieving pair creation via linear and nonlinear Breit-Wheeler processes in dense plasmas irradiated by high-intensity laser pulses. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	2
20	Progress in relativistic laser-plasma interaction with kilotesla-level applied magnetic fields. <i>Physics of Plasmas</i> , 2022, 29, 053104.	1.9	2