Franck Gobet

List of Publications by Year
in descending order

24 papers	398 citations	840776 11 h-index	752698 20 g-index
24 all docs	24 docs citations	24 times ranked	607 citing authors

#	Article	IF	Citations
1	Response functions of imaging plates to photons, electrons and 4He particles. Review of Scientific Instruments, 2013, 84, 103510.	1.3	81
2	Effect of plasma density scale length on the properties of bremsstrahlung x-ray sources created by picosecond laser pulses. Physics of Plasmas, 2009, 16, .	1.9	62
3	Response functions of Fuji imaging plates to monoenergetic protons in the energy range 0.6â€“3.2 MeV. Review of Scientific Instruments, 2013, 84, 013508.	1.3	53
4	Measurement of the 85Rb(Î³, n)84mRb cross-section in the energy range 10-19 MeV with bremsstrahlung photons. European Physical Journal A, 2012, 48, 1.	2.5	32
5	Nuclear physics studies using high energy lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 80-83.	1.6	25
6	Search for nuclear excitation by electronic transition inU235. Physical Review C, 2004, 70, .	2.9	20
7	High flux of relativistic electrons produced in femtosecond laser-thin foil target interactions: Characterization with nuclear techniques. Review of Scientific Instruments, 2008, 79, 023504.	1.3	19
8	Half-life of the first excited state ofHg201. Physical Review C, 2007, 75, .	2.9	18
9	Bremsstrahlung spectrum and photon dose from short-pulse high-intensity laser interaction on various metal targets. Physics of Plasmas, 2019, 26, .	1.9	18
10	NATALIE: A 32 detector integrated acquisition system to characterize laser produced energetic particles with nuclear techniques. Review of Scientific Instruments, 2011, 82, 023302.	1.3	14
11	Absolute energy distributions of Al, Cu, and Ta ions produced by nanosecond laser-generated plasmas at 1013â€‰Wâ€‰cmâ^'2. Journal of Applied Physics, 2016, 119, .	2.5	14
12	Particle characterization for the evaluation of the^{181m}Ta excitation yield in millijoule laser induced plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 145701.	1.5	11
13	Identification of X-ray spectra in the Na-like to O-like rubidium ions in the range of 3.8â€“7.3Ã…. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 148, 70-89.	2.3	7
14	Energy distributions of electrons emitted by a biased laser-produced plasma at 1013 W cmâ^'2. Journal of Applied Physics, 2017, 122, .	2.5	5
15	Scintillators in High-Power Laser-Driven Experiments. IEEE Transactions on Nuclear Science, 2018, 65, 2216-2219.	2.0	5
16	Role of the pre-plasma on electron beam currents from a biased laser-plasma. Review of Scientific Instruments, 2019, 90, 053306.	1.3	3
17	A versatile and compact high-intensity electron beam for multi-kGy irradiation in nano- or micro-electronic devices. Applied Physics Letters, 2020, 116, 044102.	3.3	3
18	Aging phenomena in nonlinear dissipative chains. European Physical Journal B, 2003, 34, 193-199.	1.5	2

#	Article	IF	Citations
19	Calculation of the rate of nuclear excitation by electron transition in an Rb84m plasma under the hypothesis of local thermodynamic equilibrium using a multiconfiguration Dirac-Fock approach. Physical Review C, 2017, 96, .	2.9	2
20	Effect of plasma hydrodynamics on laser-produced bremsstrahlung MeV photon dose. Physics of Plasmas, 2020, 27, .	1.9	2
21	Signatures of fluid and kinetic properties in the energy distributions of multicharged Ta ions from nanosecond-laser-heated plasma. Physical Review E, 2018, 98, .	2.1	1
22	X-ray photons produced from a plasma-cathode electron beam for radiation biology applications. Applied Physics Letters, 2021, 118, 044102.	3.3	1
23	Electron extraction from an expanding laser induced plasma cathode. , 2016, , .		0
24	Expected yields of Ta181(e,eâ€²)Ta*181 in the multi-keV range with a plasma-cathode electron beam. Physical Review C, 2022, 105, .	2.9	0