Gero Kube

List of Publications by Year in descending order

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46 papers	2,763 citations	687363 13 h-index	345221 36 g-index
46 all docs	46 docs citations	46 times ranked	2610 citing authors

#	Article	IF	Citations
1	Operation of a free-electron laser from the extreme ultraviolet to the water window. Nature Photonics, 2007, 1, 336-342.	31.4	1,455
2	A MHz-repetition-rate hard X-ray free-electron laser driven by a superconducting linear accelerator. Nature Photonics, 2020, 14, 391-397.	31.4	315
3	First operation of a free-electron laser generating GW power radiation at 32Ânm wavelength. European Physical Journal D, 2006, 37, 297-303.	1.3	301
4	Improved limit on the electron-antineutrino rest mass from tritium Î²-decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 300, 210-216.	4.1	126
5	First Observation of Atomic Levels for the Element Fermium (Z=100). Physical Review Letters, 2003, 90, 163002.	7.8	106
6	Simultaneous operation of two soft x-ray free-electron lasers driven by one linear accelerator. New Journal of Physics, 2016, 18, 062002.	2.9	89
7	How Narrow is the Linewidth of Parametric X-Ray Radiation?. Physical Review Letters, 1997, 79, 2462-2465.	7.8	62
8	Observation of optical Smith-Purcell radiation at an electron beam energy of 855 MeV. Physical Review E, 2002, 65, 056501.	2.1	49
9	Resonance ionization spectroscopy of fermium (Z=100). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 1077-1082.	2.9	31
10	Isotope shift measurement at 244fAm *. , 2000, 127, 35-39.		22
11	Scintillating Screen Applications in Accelerator Beam Diagnostics. IEEE Transactions on Nuclear Science, 2012, 59, 2307-2312.	2.0	22
12	Electron beam profile imaging in the presence of coherent optical radiation effects. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	20
13	Nonintercepting electron beam size monitor using optical diffraction radiation interference. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	19
14	A possibility of transverse beam size diagnostics using parametric X-ray radiation. Journal of Physics: Conference Series, 2012, 357, 012018.	0.4	18
15	Calculation of Smithâ€“Purcell radiation from a volume strip grating. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 180-190.	1.4	13
16	First Determination of the Ionization Potential of Actinium and First Observation of Optical Transitions in Ferminm. Journal of Nuclear Science and Technology, 2002, 39, 86-89.	1.3	12
17	First non-intercepting emittance measurement by means of optical diffraction radiation interference. New Journal of Physics, 2014, 16, 113029.	2.9	10
18	Novel digital K-edge imaging system with transition radiation from an 855-MeV electron beam. IEEE Transactions on Nuclear Science, 2001, 48, 843-848.	2.0	9

#	Article	IF	Citations
19	X-ray phase contrast imaging at MAMI. European Physical Journal A, 2006, 28, 197-208.	2.5	9
20	Backward transition radiation in the extreme ultraviolet region as a tool for the transverse beam profile diagnostic. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	7
21	INVESTIGATION OF FAR-INFRARED SMITH-PURCELL RADIATION AT THE 3.41 MEV ELECTRON INJECTOR LINAC OF THE MAINZ MICROTRON MAMI. , 2006, , 267-282.		7
22	First observation of quasiâ€“monochromatic optical Cherenkov radiation in a dispersive medium (quartz). Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 417, 127680.	2.1	6
23	Simulation of transition radiation based beam imaging from tilted targets. Physical Review Accelerators and Beams, 2017, 20, .	1.6	6
24	A new upper limit of the electron antineutrino rest mass from tritium Î²-decay. Nuclear Physics A, 1993, 553, 313-316.	1.5	5
25	Monochromaticity of the Smith-Purcell optical radiation generated by a 75-keV electron beam. JETP Letters, 2005, 82, 174-177.	1.4	5
26	Non-intercepting electron beam transverse diagnostics with optical diffraction radiation at the DESY FLASH facility. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3789-3796.	1.4	5
27	Image of the transverse bunch profile via coherent optical transition radiation. Physical Review Accelerators and Beams, 2020, 23, .	1.6	5
28	Spatial distribution of PXR generated by 855 MeV electrons: Comparison of simulation results with experimental data. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 83-87.	1.4	4
29	Prospects of Ion Chemical Reactions with Heavy Elements in the Gas Phase. Hyperfine Interactions, 2001, 132, 497-500.	0.5	3
30	Resonant diffraction radiation from inclined gratings and bunch length measurements. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3781-3788.	1.4	3
31	Detector for coherent synchrotron radiation measurements from separate electron bunches in a millimeter wavelength region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 35-37.	1.6	3
32	Effects of transverse electron beam size on transition radiation angular distribution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 673, 56-63.	1.6	3
33	Investigation of the characteristics of EUV backward transition radiation generated by 5.7 MeV electrons in mono- and multilayer targets. Journal of Physics: Conference Series, 2014, 517, 012009.	0.4	3
34	A new upper limit of the electron anti neutrino rest mass from tritium Î²-decay. Nuclear Physics, Section B, Proceedings Supplements, 1993, 31, 46-49.	0.4	2
35	K-shell ionization cross section of Ti and Cu atoms by 1 and 2 GeV electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 045201.	1.5	2
36	Spatial resolution improvement for an optical transition radiation monitor by asymmetric light collection. Optics Express, 2018, 26, 30231.	3.4	2

#	Article	IF	Citations
37	Proton Synchrotron Radiation Diagnostics at HERA. AIP Conference Proceedings, 2006, , .	0.4	1
38	Non-intercepting electron beam transverse diagnostics with Optical Diffraction Radiation at the DESY FLASH Facility. , 2007, , .		1
39	Experimental investigations of backward transition radiation characteristics in extreme ultraviolet region. , 2011, , .		1
40	Non-intercepting diagnostic for high brightness electron beams using Optical Diffraction Radiation Interference (ODRI). Journal of Physics: Conference Series, 2012, 357, 012019.	0.4	1
41	<title>Status of the electron beam transverse diagnostics with optical diffraction radiation at FLASH, DESY</title>. , 2007, , .		0
42	NEW EXPERIMENTAL RESULTS WITH OPTICAL DIFFRACTION RADIATION DIAGNOSTICS. International Journal of Modern Physics A, 2010, 25, 189-200.	1.5	0
43	Far- and near-field approximation for diffraction radiation. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 194-197.	1.4	0
44	An electron beam detector for the FLASH II beam dump. , 2013, , .		0
45	An electron beam detector for the FLASH II beam dump. Journal of Physics: Conference Series, 2013, 425, 122012.	0.4	0
46	2D Synchrotron Radiation Interferometer for Measuring the Transverse Dimensions of an Electron Beam in a Circular Accelerator. Russian Physics Journal, 2017, 60, 685-692.	0.4	0