

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	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
2	First observation of quasi-“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
3	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
4	Image of the transverse bunch profile via coherent optical transition radiation. Physical Review Accelerators and Beams, 2020, 23, .	1.6	5
5	Spatial resolution improvement for an optical transition radiation monitor by asymmetric light collection. Optics Express, 2018, 26, 30231.	3.4	2
6	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
7	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
8	Simulation of transition radiation based beam imaging from tilted targets. Physical Review Accelerators and Beams, 2017, 20, .	1.6	6
9	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
10	First non-intercepting emittance measurement by means of optical diffraction radiation interference. New Journal of Physics, 2014, 16, 113029.	2.9	10
11	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
12	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
13	Far- and near-field approximation for diffraction radiation. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 194-197.	1.4	0
14	An electron beam detector for the FLASH II beam dump. , 2013, , .		0
15	An electron beam detector for the FLASH II beam dump. Journal of Physics: Conference Series, 2013, 425, 122012.	0.4	0
16	Scintillating Screen Applications in Accelerator Beam Diagnostics. IEEE Transactions on Nuclear Science, 2012, 59, 2307-2312.	2.0	22
17	Electron beam profile imaging in the presence of coherent optical radiation effects. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	20
18	A possibility of transverse beam size diagnostics using parametric X-ray radiation. Journal of Physics: Conference Series, 2012, 357, 012018.	0.4	18

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19	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
20	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
21	Nonintercepting electron beam size monitor using optical diffraction radiation interference. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	19
22	Experimental investigations of backward transition radiation characteristics in extreme ultraviolet region. , 2011, , .		1
23	NEW EXPERIMENTAL RESULTS WITH OPTICAL DIFFRACTION RADIATION DIAGNOSTICS. International Journal of Modern Physics A, 2010, 25, 189-200.	1.5	0
24	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
25	Resonant diffraction radiation from inclined gratings and bunch length measurements. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3781-3788.	1.4	3
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	<title>Status of the electron beam transverse diagnostics with optical diffraction radiation at FLASH, DESY</title>. , 2007, , .		0
28	Non-intercepting electron beam transverse diagnostics with Optical Diffraction Radiation at the DESY FLASH Facility. , 2007, , .		1
29	Operation of a free-electron laser from the extreme ultraviolet to the water window. Nature Photonics, 2007, 1, 336-342.	31.4	1,455
30	X-ray phase contrast imaging at MAMI. European Physical Journal A, 2006, 28, 197-208.	2.5	9
31	First operation of a free-electron laser generating GW power radiation at 32Ånm wavelength. European Physical Journal D, 2006, 37, 297-303.	1.3	301
32	Proton Synchrotron Radiation Diagnostics at HERA. AIP Conference Proceedings, 2006, , .	0.4	1
33	INVESTIGATION OF FAR-INFRARED SMITH-PURCELL RADIATION AT THE 3.41 MEV ELECTRON INJECTOR LINAC OF THE MAINZ MICROTRON MAMI. , 2006, , 267-282.		7
34	Calculation of Smithâ€Purcell radiation from a volume strip grating. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 180-190.	1.4	13
35	Monochromaticity of the Smith-Purcell optical radiation generated by a 75-keV electron beam. JETP Letters, 2005, 82, 174-177.	1.4	5
36	Resonance ionization spectroscopy of fermium (Z=100). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 1077-1082.	2.9	31

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37	First Observation of Atomic Levels for the Element Fermium (Z=100). Physical Review Letters, 2003, 90, 163002.	7.8	106
38	Observation of optical Smith-Purcell radiation at an electron beam energy of 855 MeV. Physical Review E, 2002, 65, 056501.	2.1	49
39	First Determination of the Ionization Potential of Actinium and First Observation of Optical Transitions in Fermium. Journal of Nuclear Science and Technology, 2002, 39, 86-89.	1.3	12
40	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
41	Prospects of Ion Chemical Reactions with Heavy Elements in the Gas Phase. Hyperfine Interactions, 2001, 132, 497-500.	0.5	3
42	Isotope shift measurement at $^{244}\text{fAm}^*$. , 2000, 127, 35-39.		22
43	How Narrow is the Linewidth of Parametric X-Ray Radiation?. Physical Review Letters, 1997, 79, 2462-2465.	7.8	62
44	Improved limit on the electron-antineutrino rest mass from tritium β^2 -decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 300, 210-216.	4.1	126
45	A new upper limit of the electron anti neutrino rest mass from tritium β^2 -decay. Nuclear Physics, Section B, Proceedings Supplements, 1993, 31, 46-49.	0.4	2
46	A new upper limit of the electron antineutrino rest mass from tritium β^2 -decay. Nuclear Physics A, 1993, 553, 313-316.	1.5	5