List of Publications by Year in descending order

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	623734	477307
1,000	14	29
citations	h-index	g-index
112	112	659
docs citations	times ranked	citing authors
	1,000 citations 112 docs citations	1,000 14 itations h-index 112 112 docs citations 112 times ranked

#	Article	IF	CITATIONS
1	Resonant Diffraction. Chemical Reviews, 2001, 101, 1843-1868.	47.7	162
2	THE PHOTON COLLIDER AT TESLA. International Journal of Modern Physics A, 2004, 19, 5097-5186.	1.5	120
3	Beam-Size Measurement with Optical Diffraction Radiation at KEK Accelerator Test Facility. Physical Review Letters, 2004, 93, 244802.	7.8	72
4	Observation of Incoherent Diffraction Radiation from a Single-Edge Target in the Visible-Light Region. Physical Review Letters, 2003, 90, 104801.	7.8	39
5	Extremely Low Vertical-Emittance Beam in the Accelerator Test Facility at KEK. Physical Review Letters, 2002, 88, 194801.	7.8	36
6	Observation of monochromatic X-ray radiation from 900 MeV electrons transmitting through a diamond crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 110, 177-179.	2.1	35
7	Generalized surface current method in the macroscopic theory of diffraction radiation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1988-1996.	2.1	28
8	Parametric x radiation from thick crystals. Physical Review E, 1995, 51, 6305-6308.	2.1	27
9	Feasibility of optical diffraction radiation for a non-invasive low-emittance beam diagnostics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 472, 309-317.	1.6	27
10	Positron Production in Tungsten Crystals by 1.2-GeV Channeling Electrons. Physical Review Letters, 1998, 80, 1437-1440.	7.8	26
11	Smith-Purcell radiation from periodic beams. Optics Express, 2017, 25, 26310.	3.4	26
12	Resonant diffraction radiation from an ultrarelativistic particle moving close to a tilted grating. Physical Review E, 2000, 61, 7039-7045.	2.1	22
13	A possibility of transverse beam size diagnostics using parametric X-ray radiation. Journal of Physics: Conference Series, 2012, 357, 012018.	0.4	18
14	Noninvasive bunch length measurements exploiting Cherenkov diffraction radiation. Physical Review Accelerators and Beams, 2020, 23, .	1.6	16
15	Parametric X-rays and transition-diffracted radiation in crystal stacks. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 209, 380-384.	2.1	14
16	Observation of optical diffraction radiation from a slit target at KEK accelerator test facility. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 158-169.	1.4	14
17	Observation of the stimulated coherent diffraction radiation in an open resonator at LUCX facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 424-432.	1.6	14
18	Vavilov–Cherenkov Radiation in an Inclined Dielectric Plate and Violation of Azimuthal Symmetry. Physics of Particles and Nuclei Letters, 2019, 16, 127-132.	0.4	14

#	Article	IF	CITATIONS
19	Monochromaticity of coherent Smith-Purcell radiation from finite size grating. Physical Review Accelerators and Beams, 2017, 20, .	1.6	14
20	Energy characteristics of planar-channeling radiation for high-energy electrons in diamond. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 83, 337-340.	2.1	13
21	"Shadowing" of the electromagnetic field of relativistic charged particles. Journal of Physics: Conference Series, 2010, 236, 012004.	0.4	12
22	Diffraction radiation of ultrarelativistic particles passing through a slit in a tilted screen. Russian Physics Journal, 2000, 43, 303-308.	0.4	11
23	X-ray diffraction radiation in conditions of Cherenkov effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 509-511.	2.1	11
24	Influence of temperature on parametric x-ray intensity. Physical Review E, 1993, 47, 2207-2209.	2.1	10
25	Thomson scattering of coherent diffraction radiation by an electron bunch. Physical Review E, 1999, 60, 2272-2279.	2.1	10
26	Experimental observation and investigation of the prewave zone effect in optical diffraction radiation. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	10
27	Variation of Î ³ -ray spectra with the energy of channeled electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 75, 316-318.	2.1	9
28	Influence of Kα absorption in (111) Ge crystal on spectral yield of parametric X-rays. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 147, 326-328.	2.1	9
29	Comment on "Quantum effects in spontaneous emission by a relativistic, undulating electron beam―by Robb G. R. M. and Bonifacio R Europhysics Letters, 2012, 100, 24006.	2.0	9
30	Deflection of a Î ³ -radiation beam produced by 900 MeV channeled electrons in a bent crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 77, 263-265.	2.1	8
31	Stochastics of multiple electron–photon head-on collisions. Nuclear Instruments & Methods in Physics Research B, 2003, 201, 307-314.	1.4	8
32	Angular distribution and energy dependence of parametric X-ray radiation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 118, 363-365.	2.1	7
33	Diffraction radiation from a charged particle moving through a rectangular hole in a rectangular screen. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 198-208.	1.4	6
34	Monochromatic coherent grating transition radiation in sub-THz frequency range. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 153-156.	1.4	6
35	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
36	Channeling radiation of 4.9 MeV electrons in crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 81, 40-42.	2.1	5

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37	Coherent radiation recoil effect for the optical diffraction radiation beam size monitor at SLAC FFTB. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 170-174.	1.4	5
38	Experimental investigation of coherent Smith–Purcell radiation from a "flat―grating. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 175-179.	1.4	5
39	Experimental Research of the Diffraction and Vavilov-Cherenkov Radiation Generation in a Teflon Target. Journal of Physics: Conference Series, 2012, 357, 012020.	0.4	5
40	Sub-millimeter Bunch Length Non-invasive Diagnostic Based on the Diffraction and Cherenkov Radiation. Journal of Physics: Conference Series, 2012, 357, 012023.	0.4	5
41	Interference of the transient radiation fields produced by an electric charge and a magnetic moment. Russian Physics Journal, 2012, 54, 1249-1255.	0.4	5
42	Statistical simulation of multiple Compton backscattering process. Physics of Particles and Nuclei, 2014, 45, 1000-1012.	0.7	5
43	Coherent Cherenkov radiation as an intense THz source. Journal of Physics: Conference Series, 2016, 732, 012006.	0.4	5
44	Image of the transverse bunch profile via coherent optical transition radiation. Physical Review Accelerators and Beams, 2020, 23, .	1.6	5
45	Experimental research of channeling radiation and type-B coherent bremsstrahlung for 300 MeV electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 433-436.	2.1	4
46	On multiphoton bremsstrahlung. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 264, 202-207.	2.1	4
47	Status of optical diffraction radiation experiment at KEK-ATF extraction line. Nuclear Instruments & Methods in Physics Research B, 2003, 201, 140-152.	1.4	4
48	Grating optical diffraction radiation – Promising technique for non-invasive beam diagnostics. Nuclear Instruments & Methods in Physics Research B, 2003, 201, 201-211.	1.4	4
49	Characteristics of final particles in multiple Compton backscattering process. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 15-19.	1.4	4
50	Observation of quasi-monochromatic resonant Cherenkov diffraction radiation. Results in Physics, 2022, 33, 105079.	4.1	4
51	Gamma-radiation of channelled electrons in diamond crystal. Nuclear Instruments & Methods, 1980, 169, 585-588.	1.2	3
52	Effect of channeling on γ-radiation spectra of 870 MeV electrons in diamond crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 82, 54-56.	2.1	3
53	Multiphoton processes in radiation of relativistic electrons in oriented crystals. Nuclear Instruments & Methods in Physics Research B, 2001, 173, 126-131.	1.4	3
54	Quasimonochromatic resonant diffraction radiation as a possible tool for non-invasive beam diagnostics. Nuclear Instruments & Methods in Physics Research B, 2003, 201, 133-139.	1.4	3

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55	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
56	Development of microwave and soft X-ray sources based on coherent radiation and Thomson scattering. Journal of Physics: Conference Series, 2010, 236, 012009.	0.4	3
57	Acoustic "pumping effect" for quartz monochromators. Journal of Physics: Conference Series, 2012, 357, 012031.	0.4	3
58	Polarization Radiation in a Teflon Target. Journal of Physics: Conference Series, 2014, 517, 012004.	0.4	3
59	Spectral characteristics of Compton backscattering sources. Linear and nonlinear modes. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 246-250.	1.4	3
60	Ultra-monochromatic far-infrared Cherenkov diffraction radiation in a super-radiant regime. Scientific Reports, 2020, 10, 20961.	3.3	3
61	Radiation produced by electrons making multiple passes through thin internal targets in the Tomsk Synchrotron. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii,) Tj ETQq1 1	0.780314	rg₿T /Overio
62	Experimental study of the albedo of a beam of ? rays produced by ultrarelativistic electrons. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1991, 34, 555-564.	0.0	2
63	Investigation of the surface current excitation by a relativistic electron electromagnetic field. Journal of Physics: Conference Series, 2010, 236, 012024.	0.4	2
64	Angular distribution of coherent Cherenkov radiation from a bunch passing through a vacuum channel in the dielectric target. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 139-143.	1.4	2
65	Photon spectrum and polarization for high conversion coefficient in the Compton backscattering process. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 216-219.	1.4	2
66	Diagnostics of Electron Beams Based on Cherenkov Radiation in an Optical Fiber. Russian Physics Journal, 2017, 59, 1681-1685.	0.4	2
67	Diffractive shadowing of coherent polarization radiation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 391, 127135.	2.1	2
68	Spatial resolution improvement for an optical transition radiation monitor by asymmetric light collection. Optics Express, 2018, 26, 30231.	3.4	2
69	APPLICATION OF OPTICAL DIFFRACTION RADIATION TO A NON-INVASIVE LOW-EMITTANCE HIGH-BRIGHTNESS BEAM DIAGNOSTICS. , 2004, , .		2
70	Radiation from a channeled electron in a crystal. Soviet Physics Journal (English Translation of) Tj ETQq0 0 0 rgBT	Overlock	2 10 Tf 50 142
71	Emission brightness, photon yield, and radiation losses of ultrarelativistic electrons in oriented thick crystals. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii,) Tj ETQq1 1	0.0804314	rgBT /Overlo
72	Angular distribution of the soft component of radiation from relativistic electrons near planar or or or or or of the single crystals. Soviet Physics Journal (English Translation of Izvestiia Vysshykh) Tj ETQq0 0 0	rg ð.T o/Ove	rlack 10 Tf 50

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73	Parametric x-ray radiation from 500-MeV electrons in a tungsten single crystal with a surface mosaicity less than 1.5′. Physics of Atomic Nuclei, 2001, 64, 952-955.	0.4	1
74	Resonance Diffraction Radiation from Ultrarelativistic Particles. Russian Physics Journal, 2002, 45, 905-913.	0.4	1
75	Beam Test Proposal of an ODR Beam Size Monitor at SLAC FFTB. , 0, , .		1
76	The Possibility of Noninvasive Micron High Energy Electron Beam Size Measurement Using Diffraction Radiation. , 0, , .		1
77	Asymmetry of bremsstrahlung by moderately relativistic polarized electrons. European Physical Journal C, 2010, 70, 107-111.	3.9	1
78	Coherent synchrotron radiation and radiative electron polarization. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 115106.	3.6	1
79	Coherent Diffraction and Cherenkov Radiation in Fibers. Journal of Physics: Conference Series, 2014, 517, 012022.	0.4	1
80	Coherent radiation of relativistic electrons in dielectric fibers. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 125-128.	1.4	1
81	Cherenkov radiation from the target with predetermined dielectric properties, produced by a 3D-printer. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 194-197.	1.4	1
82	A Potential Method for Diagnostics of Subfemtosecond Electron Beams Using Coherent Optical Transition Radiation. Russian Physics Journal, 2019, 61, 2073-2078.	0.4	1
83	Measuring Electron Beam Divergence with Cherenkov Light. Physics of Particles and Nuclei Letters, 2020, 17, 27-31.	0.4	1
84	Asymmetry of formation of ?+-mesons by linearly polarized photons in the region of the first pion-nucleon resonance. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh) Tj ETQq0 0	0 cgð T /C	ve d ock 10 Tf
85	Orientation effect of sound excitation by channeled electrons in diamond. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 77, 266-268.	2.1	0
86	Observation of spectral line splitting for parametric X-rays. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 120, 486-488.	2.1	0
87	Properties of coherent bremsstrahlung from electrons in thick single crystals. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1991, 34, 490-506.	0.0	0
88	Change in ? radiation properties due to cooling of single-crystal targets. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1991, 34, 507-514.	0.0	0
89	Spatial distribution of ? rays from electrons passing through a crystal close to the crystal axis. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1991, 34, 522-526.	0.0	0
90	The number of photons emitted by a channeled electron. Soviet Physics Journal (English Translation) Tj ETQq0 0	0 rgBT /O	verlock 10 Tf

#	Article	IF	CITATIONS
91	Spatial distribution of Î ³ -radiation from electrons in aligned single crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 174, 169-173.	2.1	0
92	The characteristics of parametric X-rays from electrons near the K-edge in Ge. Radiation Effects and Defects in Solids, 1993, 125, 93-95.	1.2	0
93	Excitation of the 15.1 MeV resonance of C-12 by channeling radiation. Radiation Effects and Defects in Solids, 1993, 125, 89-92.	1.2	0
94	Investigation of resonance diffractive radiation from relativistic electrons in conducting periodic targets. Physics of Atomic Nuclei, 2000, 63, 2029-2032.	0.4	0
95	Title is missing!. Russian Physics Journal, 2001, 44, 292-298.	0.4	0
96	Polarization Bremsstrahlung. Russian Physics Journal, 2001, 44, 213-219.	0.4	0
97	Parametric X Rays in the Region of Anomalous Dispersion. Russian Physics Journal, 2001, 44, 254-262.	0.4	Ο
98	Asymmetry of parametric x-ray radiation from polarized electrons (quantum approach). Physics of Atomic Nuclei, 2001, 64, 963-965.	0.4	0
99	Title is missing!. Russian Physics Journal, 2002, 45, 922-926.	0.4	Ο
100	Optical Polarization Radiation of Relativistic Electrons in Conducting Targets. Russian Physics Journal, 2002, 45, 895-904.	0.4	0
101	Energy loss of electrons passing through a laser flash in a storage ring. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 209-215.	1.4	Ο
102	<title>Monochromatization of high-current nanosecond pulse source of x-ray bremsstrahlung</title> .,2007,,.		0
103	<title>Coherent bremsstrahlung in thick crystals radiation losses and photon multiplicity</title> . , 2007, , .		0
104	IX International Symposium on Radiation from Relativistic Electrons in Periodic Structures (RREPS-2011). Journal of Physics: Conference Series, 2012, 357, 011001.	0.4	0
105	Radiation properties of metamaterials in millimeter wavelength region. , 2012, , .		0
106	Cavity optimization for compact accelerator-based free-electron maser. , 2012, , .		0
107	RREPS13 and Meghri13. Journal of Physics: Conference Series, 2014, 517, 011001.	0.4	0
108	Undulator-Based and Crystal-Based Gamma Radiation Sources for Positron Generation. Journal of Physics: Conference Series, 2014, 517, 012041.	0.4	0

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109	Scattering of strong electromagnetic wave by relativistic electrons: Thomson and Compton regimes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 851, 82-91.	1.6	0
110	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
111	Radiation Losses of the Relativistic Charge Moving Near a Dielectric Radiator. Russian Physics Journal, 2020, 62, 2187-2193.	0.4	0
112	Partial Focusing of Coherent Optical Transition Radiation and Measurement of Transverse Size of Femtosecond Electron Bunches. Russian Physics Journal, 2021, 63, 2076-2084.	0.4	0