Sergey V Blazhevich

List of Publications by Year
in descending order

79	382	933447 10	888059 17
papers	citations	h-index	g-index

79	79	79	64
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polarization bremsstrahlung of relativistic electrons in aluminium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 254, 230-232.	2.1	43
2	On the parametric X-rays along an emitting particle velocity. Nuclear Instruments & Methods in Physics Research B, 2003, 201, 67-77.	1.4	32
3	Coherent X-radiation of relativistic electrons in a single crystal under asymmetric reflection conditions. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3770-3776.	1.4	32
4	On the dynamical effects in the characteristics of transition radiation produced by a relativistic electron in a single crystal plate. Nuclear Instruments & Methods in Physics Research B, 2006, 252, 69-74.	1.4	27
5	The Borrmann effect in parametric X-radiation under asymmetric reflection conditions. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3777-3780.	1.4	22
6	First observation of interference between parametric X-ray and coherent bremsstrahlung. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 195, 210-212.	2.1	20
7	Parametric X-ray radiation along relativistic electron velocity in asymmetric Laue geometry. Journal of Experimental and Theoretical Physics, 2009, 109, 901-912.	0.9	19
8	Suppression of polarization bremsstrahlung of relativistic electrons moving through an amorphous carbon foil. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 309-312.	2.1	16
9	The influence of crystal thickness on scattering and radiation of high-energy electrons in oriented crystals. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 291-295.	1.4	13
10	Coherent X-ray radiation generated by a relativistic electron in an artificial periodic structure. Journal of Experimental and Theoretical Physics, 2012, 114, 547-554.	0.9	10
11	Anomalous density effect in the bremsstrahlung of a relativistic electron, passing through a thin layer of a medium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 219, 355-358.	2.1	9
12	Synthesis of fine-grained calcium hexaferrite and investigation of its structural and magnetic parameters. Protection of Metals and Physical Chemistry of Surfaces, 2011, 47, 638-644.	1.1	8
13	Coherent X-ray radiation excited by a diverging relativistic electron beam in a single crystal. Journal of Experimental and Theoretical Physics, 2015, 120, 753-761.	0.9	8
14	Influence of ultrarelativistic electron beam divergence on spectralâ€“angular characteristics of coherent X-radiation generated in a single-crystal target. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 170-174.	1.4	7
15	Diffracted transition radiation of an ultra-high-energy relativistic electron beam in a thin single-crystal wafer. Journal of Experimental and Theoretical Physics, 2016, 123, 551-556.	0.9	6
16	Coherent X-ray Radiation Excited by a Beam of Relativistic Electrons in a Single Crystal in the Direction of Beam Axis. Journal of Experimental and Theoretical Physics, 2019, 128, 212-226.	0.9	6
17	Features of the spectral-angular distribution of gamma-quanta emitted by GeV electrons in a thick crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 158, 176-180.	2.1	5
18	On the Effect of Anomalous Photoabsorption in Parametric X Radiation. Russian Physics Journal, 2001, 44, 651-660.	0.4	5

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19	Spectrum broadening effect in coherent x-ray radiation of a relativistic electron crossing a single-crystal plate. Russian Physics Journal, 2009, 52, 301-313.	0.4	5
20	Dynamic theory of coherent X-radiation of relativistic electron within a periodic layered medium in Bragg scattering geometry. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 70-75.	1.4	5
21	Determining the divergence of an ultra-relativistic electron beam from the diffracted transition radiation in a single-crystal target. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126321.	2.1	5
22	On the ratio of the relativistic electron PXR in the Bragg direction and in the forward direction in Laue geometry. Journal of Surface Investigation, 2010, 4, 303-314.	0.5	4
23	Diffracted transition radiation of relativistic electrons in an artificial periodic structure. Journal of Surface Investigation, 2012, 6, 348-355.	0.5	4
24	Diffracted transition radiation of a relativistic electron in a three-layer structure. Journal of Experimental and Theoretical Physics, 2014, 119, 641-650.	0.9	4
25	Coherent X-ray radiation from a relativistic electron in a combined medium. Journal of Experimental and Theoretical Physics, 2014, 118, 550-559.	0.9	4
26	Coherent X-ray radiation generated by a beam of relativistic electrons in a single crystal under conditions of multiple scattering. Journal of Surface Investigation, 2017, 11, 49-57.	0.5	4
27	Interpretation of the results of the experiment on generation of parametric X-radiation by relativistic electrons in a single-crystal target. Nuclear Instruments & Methods in Physics Research B, 2019, 441, 119-125.	1.4	4
28	Asymmetric wave reflection in kinematic and dynamic approaches to description of parametric X-radiation of a relativistic electron in the crystal. Journal of Surface Investigation, 2011, 5, 718-724.	0.5	3
29	Coherent X-radiation along the velocity of a relativistic electron in a bounded periodic multilayer medium. Journal of Physics: Conference Series, 2012, 357, 012016.	0.4	3
30	Coherent X-rays excited by a relativistic electron crossing a periodic stratified structure in Bragg scattering geometry. Journal of Surface Investigation, 2013, 7, 388-397.	0.5	3
31	Calculation of Gamma Photon Propagation Processes in a Composite Material. Russian Physics Journal, 2016, 59, 1192-1197.	0.4	3
32	Coherent X-ray radiation generated by a relativistic electron beam in a periodic layered medium in the Bragg scattering geometry. Journal of Experimental and Theoretical Physics, 2017, 125, 223-234.	0.9	3
33	Effect of the Divergence of a Relativistic Electron Beam on the Diffracted Transition Radiation Excited by Them in a Single-Crystal Target. Journal of Surface Investigation, 2020, 14, 922-928.	0.5	3
34	Effect of mutual orientation of the lattice of a single-crystal radiator and its outer surface on X-ray transition radiation characteristics. Russian Physics Journal, 2006, 49, 605-612.	0.4	2
35	Parametric x-ray radiation of a relativistic electron under conditions of asymmetric reflection. Russian Physics Journal, 2008, 51, 866-878.	0.4	2
36	Relativistic electron PXR and FPXR yield ratio. Journal of Physics: Conference Series, 2010, 236, 012013.	0.4	2

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37	Manifestation of dynamic effects in coherent X-radiation from relativistic electron in Bragg scattering geometry. Technical Physics, 2010, 55, 317-325.	0.7	2
38	Ratio of the parametric X-radiation yields in the Bragg direction and along the relativistic electron velocity in the Bragg geometry. Journal of Surface Investigation, 2011, 5, 364-374.	0.5	2
39	The Effects of Dynamic Diffraction in Parametric X-Ray Radiation of Relativistic Electrons in a Periodically Layered Medium. Russian Physics Journal, 2014, 57, 828-837.	0.4	2
40	Manifestation of Dynamical Diffraction Effects in Coherent X-Radiation of a Divergent Beam of Relativistic Electrons in a Single Crystal. Russian Physics Journal, 2015, 58, 585-596.	0.4	2
41	Diffracted transient radiation of a relativistic electron in a bilayer target. Technical Physics, 2015, 60, 789-797.	0.7	2
42	Influence of multiple scattering of a relativistic electron in a periodic layered medium on coherent X-ray radiation. Journal of Experimental and Theoretical Physics, 2016, 122, 1-8.	0.9	2
43	Coherent X-Ray Radiation Generated Near the Axis of the Beam of Relativistic Electrons in an Artificial Periodic Structure. Journal of Surface Investigation, 2020, 14, 586-595.	0.5	2
44	A technique of measuring the angular intensity distributions of the radiation of relativistic electrons scattered in single crystals. Soviet Atomic Energy, 1987, 63, 771-774.	0.1	1
45	Spectral-angular distributions of gamma radiation induced by GeV electrons in thick crystals. Nuclear Instruments & Methods in Physics Research B, 1992, 67, 267-270.	1.4	1
46	Influence of the inert and active ion bombardment on structure of the transition metal thin films. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 312-318.	1.4	1
47	Parametric x-ray radiation along the velocity of relativistic electron in a Bragg scattering geometry. Russian Physics Journal, 2007, 50, 574-585.	0.4	1
48	Enhancement of spectral-angular density of parametric X-rays in Laue geometry due to change in the angle between a target surface and reflecting atomic planes. Journal of Surface Investigation, 2008, 2, 225-233.	0.5	1
49	Effect of anomalous photoabsorption in parametric X-ray radiation under asymmetric reflection conditions. Technical Physics, 2008, 53, 1184-1191.	0.7	1
50	Magnetic properties of nanodispersed ferrite powders with cryochemical prehistory. Physics of the Solid State, 2011, 53, 2284-2289.	0.6	1
51	Diffracted transition radiation of a relativistic electron in the artificial periodic multilayer medium. Journal of Physics: Conference Series, 2012, 357, 012011.	0.4	1
52	Dynamic theory of radiation of a relativistic electron in a periodic layered medium near the electron velocity direction. Russian Physics Journal, 2013, 55, 1324-1337.	0.4	1
53	Manifestation of the effects of dynamic diffraction in the coherent X-ray radiation of relativistic electrons in a periodic layered medium. Journal of Surface Investigation, 2014, 8, 1351-1359.	0.5	1
54	Interference effects in radiation by the relativistic electron in the structure of â€œamorphous matter layersâ€“single crystalâ€• Nuclear Instruments & Methods in Physics Research B, 2015, 355, 114-120.	1.4	1

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55	Interference effects in the coherent X-ray radiation of relativistic electrons in two- and three-layer targets. Journal of Surface Investigation, 2016, 10, 128-139.	0.5	1
56	Coherent X-Radiation Excited by a Beam of Multiply Scattered Relativistic Electrons in a Single Crystal in the Bragg Scattering Geometry. Russian Physics Journal, 2016, 59, 1098-1110.	0.4	1
57	Diffracted Transitive Radiation as a Means for Indicating the Divergence of an Ultrarelativistic Electron Beam. Russian Physics Journal, 2020, 63, 1010-1024.	0.4	1
58	Response to the commentary by X. Artru about the article Interpretation of the results of the experiment on generation of parametric X-radiation by relativistic electrons in a single-crystal target, by S.V. Blazhevich and A.V. Noskov. Nuclear Instruments & Methods in Physics Research B, 2020, 473, 24-26.	1.4	1
59	Influence of Multiple Scattering on Parametric X-Ray Radiation Excited by a Beam of Relativistic Electrons in a Single Crystal. Journal of Surface Investigation, 2021, 15, 596-600.	0.5	1
60	Coherent X-Ray Radiation Generated by a Divergent Beam of Relativistic Electrons in a Single Crystal in the Beam-Axis Direction. Journal of Surface Investigation, 2021, 15, 717-722.	0.5	1
61	Spectral structure of polarization radiation from relativistic electrons in aluminum. Physics of Atomic Nuclei, 2000, 63, 2005-2007.	0.4	0
62	Dependence of transmission and scattering of ultrarelativistic electrons in thin single-crystal target on the crystallographic axis orientation. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 97-102.	1.4	0
63	Title is missing!. Russian Physics Journal, 2001, 44, 236-248.	0.4	0
64	Title is missing!. Russian Physics Journal, 2001, 44, 276-280.	0.4	0
65	Orientation effects accompanying the propagation of ultrarelativistic electrons through crystals. Physics of Atomic Nuclei, 2001, 64, 956-960.	0.4	0
66	Deformation of relativistic electron radiation spectra under conditions of multiple production of photons. Nuclear Instruments & Methods in Physics Research B, 2003, 212, 82-87.	1.4	0
67	Orientation effects in angle distribution of the relativistic electron radiation in single crystals. Nuclear Instruments & Methods in Physics Research B, 2003, 212, 88-95.	1.4	0
68	Appropriateness of kinematical approach in description of parametric X-radiation of relativistic electron in a single crystal. Journal of Physics: Conference Series, 2010, 236, 012014.	0.4	0
69	ON DYNAMIC EFFECTS IN COHERENT X-RADIATION OF RELATIVISTIC ELECTRON IN BRAGG SCATTERING GEOMETRY. , 2010, , .		0
70	OPTIMIZATION OF RELATIVISTIC ELECTRON DIFFRACTED TRANSITION RADIATION YIELD. , 2010, , .		0
71	Contributions of transition and parametric X-ray radiation along the relativistic electron velocity in the Laue geometry. Journal of Surface Investigation, 2010, 4, 315-321.	0.5	0
72	Coherent X-Ray Radiation of a Relativistic Electron in a Bilayer Amorphous Layer â€“ Single Crystal Target. Russian Physics Journal, 2014, 57, 898-906.	0.4	0

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73	Comparison of DTR spectral-angular characteristics of divergent beam of relativistic electrons in scattering geometry of Laue and Bragg. Journal of Physics: Conference Series, 2016, 732, 012014.	0.4	0
74	Coherent X-ray radiation by relativistic electron in a structure â€œamorphous layer-vacuum-periodic layered mediumâ€• Journal of Physics: Conference Series, 2016, 732, 012016.	0.4	0
75	Influence of the divergence of an electron beam crossing a single-crystal plate on the spectral-angular characteristics of coherent X-Ray radiation. Journal of Surface Investigation, 2016, 10, 838-844.	0.5	0
76	X-ray radiation generated by a beam of relativistic electrons in composite structure. Nuclear Instruments & Methods in Physics Research B, 2018, 421, 18-26.	1.4	0
77	Coherent X-ray radiation excited by a beam of relativistic electrons in a layered periodic structure. Journal of Instrumentation, 2020, 15, C05075-C05075.	1.2	0
78	On the problem of application of diffracted transition radiation for indication of relativistic electron beam parameters. Journal of Instrumentation, 2020, 15, C05021-C05021.	1.2	0
79	X-ray radiation by relativistic electrons in condensed media on base of MSU race-track microtron. , 0, , .		0