

Andrey V Tyukhtin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84 papers	569 citations	11 h-index	20 g-index
92 ext. papers	662 ext. citations	1.8 avg, IF	4.34 L-index

#	Paper	IF	Citations
84	Nondivergent Cherenkov radiation in a wire metamaterial. <i>Physical Review Letters</i> , 2012 , 108, 184801	7.4	69
83	Reversed Cherenkov-transition radiation by a charge crossing a left-handed medium boundary. <i>Physical Review Letters</i> , 2009 , 103, 194802	7.4	54
82	Electromagnetic field of a moving charge in the presence of a left-handed medium. <i>Physical Review B</i> , 2010 , 81,	3.3	39
81	Terahertz radiation from an ultra-relativistic charge exiting the open end of a waveguide with a dielectric layer. <i>Optics Express</i> , 2014 , 22, 8902-7	3.3	25
80	Electromagnetic field of a charge traveling into an anisotropic medium. <i>Physical Review E</i> , 2011 , 84, 056608	2.4	22
79	Vavilov-Cherenkov radiation in passive and active media with complex resonant dispersion. <i>Physical Review E</i> , 2008 , 77, 066606	2.4	22
78	Radiation of charges moving along the boundary of a wire metamaterial. <i>Physical Review E</i> , 2014 , 89, 013202	2.4	18
77	Electromagnetic field of a charge intersecting a cold plasma boundary in a waveguide. <i>Physical Review E</i> , 2011 , 83, 066401	2.4	18
76	Dielectric concentrator for Cherenkov radiation. <i>Physical Review Letters</i> , 2014 , 113, 064802	7.4	16
75	Effective permittivity of a metamaterial from coated wires. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 265401	3	15
74	Cherenkov-transition radiation in a waveguide with a dielectric-vacuum boundary. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012 , 15,		13
73	Approximate method for calculating the radiation from a moving charge in the presence of a complex object. <i>Physical Review E</i> , 2013 , 87, 043201	2.4	11
72	Cherenkov radiation in a metamaterial comprised of coated wires. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1524	1.7	11
71	Properties of Vavilov-Cherenkov radiation in an anisotropic medium with a resonant dispersion of permittivity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2871	1.7	11
70	Radiation excited by a charged-particle bunch on a planar periodic wire structure. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014 , 17,		9
69	Analysis of multimode wakefield generation in accelerating structures with conductive dielectric loading. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 558, 62-65	1.2	9
68	Amplification of the radiation of a bunch of charged particles moving in a waveguide lined with an active dielectric medium. <i>Technical Physics Letters</i> , 2006 , 32, 449-452	0.7	9

67	Radiation of a charge moving in a waveguide filled with a dielectric medium possessing resonance dispersion. <i>Technical Physics Letters</i> , 2004 , 30, 605-608	0.7	9
66	Radiation from open ended waveguide with dielectric loading. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 402, 144-147	1.2	8
65	Short-wavelength radiation of a charge moving in the presence of a dielectric prism. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 649	1.7	8
64	Focusing the Cherenkov radiation using dielectric concentrator: simulations and comparison with theory. <i>Journal of Instrumentation</i> , 2018 , 13, C02029-C02029	1	8
63	Electromagnetic field of a charge moving in a cold magnetized plasma. <i>Physical Review E</i> , 2013 , 87, 013109	1.2	7
62	Radiation of charged-particle bunches passing perpendicularly by the edge of a semi-infinite planar wire structure. <i>Physical Review E</i> , 2015 , 91, 063202	2.4	7
61	Self-acceleration of a charge intersecting a boundary surface in a waveguide. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013 , 16,		7
60	Determination of the particle energy in a waveguide with a thin dielectric layer. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012 , 15,		7
59	Radiation of a charge moving in a waveguide with a resonantly dispersive dielectric layer. <i>Technical Physics Letters</i> , 2005 , 31, 150	0.7	7
58	Vavilov-Cherenkov radiation in active biresonant media. <i>Technical Physics Letters</i> , 2007 , 33, 632-635	0.7	6
57	Wakefields generated by electron beams passing through a waveguide loaded with a slightly dispersive active medium. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2007 , 10,		6
56	Mode Transformation in a Circular Waveguide With a Transverse Boundary Between a Vacuum and a Partially Dielectric Area. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 3441-3448	4.1	6
55	Radiation of a charge in presence of a dielectric object: aperture method. <i>Journal of Instrumentation</i> , 2018 , 13, C02033-C02033	1	6
54	Radiation of a Charge Intersecting a Boundary Between a Bilayer Area and a Homogeneous One in a Circular Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 49-55	4.1	5
53	Self-acceleration of a charge traveling into a waveguide. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014 , 17,		5
52	Radiation of a Charge in a Waveguide with a Boundary between Two Dielectrics. <i>Journal of Physics: Conference Series</i> , 2012 , 357, 012010	0.3	5
51	Radiation of charged particle bunches in corrugated waveguides with small period. <i>Journal of Instrumentation</i> , 2018 , 13, C04009-C04009	1	5
50	Peculiarities of Cherenkov radiation from a charge moving through a dielectric cone. <i>Physical Review A</i> , 2019 , 99,	2.6	4

49	Electromagnetic field of a bunch intersecting a dielectric plate in a waveguide. <i>Journal of Physics: Conference Series</i> , 2014 , 517, 012012	0.3	4
48	Electromagnetic field of a charge moving in a chiral isotropic medium. <i>Physical Review E</i> , 2013 , 88, 013206	0.4	4
47	New approach to the theory of a moving charges radiation in dispersive medium and its application to the case of left-handed materials. <i>Journal of Physics: Conference Series</i> , 2010 , 236, 012003	0.3	4
46	Using anisotropic dispersive materials for high-precision determination of the energy of charged particles. <i>Technical Physics Letters</i> , 2009 , 35, 263-266	0.7	4
45	Determining the energy of charged particles moving in a waveguide filled with an anisotropic dispersive medium. <i>Technical Physics Letters</i> , 2008 , 34, 884-887	0.7	4
44	Cherenkov-transition radiation in a waveguide partly filled with a resonance dispersion medium. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015 , 18,		4
43	Cherenkov radiation of a charge exiting open-ended waveguide with dielectric filling. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	4
42	Radiation of a bunch in a waveguide with a semibounded anisotropic dielectric. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	4
41	Dielectric concentrator for Cherenkov radiation: Sensitivity and field near the focus. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 402, 185-189	1.2	3
40	Electromagnetic field of a bunch intersecting a vacuum gap in a dielectric loaded waveguide. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014 , 17,		3
39	Energy characteristics of radiation of oscillating dipoles moving in a nondispersive medium and a cold plasma. <i>Technical Physics</i> , 2004 , 49, 1021-1027	0.5	3
38	Radiation of a charge in dielectric concentrator for Cherenkov radiation: Off-axis charge motion. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	3
37	Radiation of a charge flying in a partially loaded dielectric section of a waveguide. <i>Physical Review Accelerators and Beams</i> , 2018 , 21,	1.8	3
36	Radiation of a charge moving along the boundary of dielectric prism. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	3
35	Reversed Cherenkov-transition radiation in a waveguide partly filled with a left-handed medium. <i>Radiation Physics and Chemistry</i> , 2018 , 145, 43-49	2.5	3
34	Surface waves generated by charged particle bunch moving along the edge of semi-infinite planar wire grid. <i>Radiation Physics and Chemistry</i> , 2017 , 133, 91-97	2.5	2
33	Cherenkov-transition radiation in a waveguide partly filled with a strongly magnetized plasma. <i>Radiation Physics and Chemistry</i> , 2019 , 164, 108364	2.5	2
32	Bunch Imaging at the Open End of an Embedded Circular Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 2100-2106	4.1	2

31	Reversed Cherenkov transition radiation of charge entering anisotropic medium. <i>Technical Physics Letters</i> , 2011 , 37, 317-321	0.7	2
30	Radiation of a charge moving in wire metamaterial perpendicularly to the main axis. <i>Journal of Physics: Conference Series</i> , 2012 , 357, 012006	0.3	2
29	Studies of Particle Acceleration by an Active Microwave Medium. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
28	Energy characteristics of radiation from an oscillating dipole moving in a dielectric medium with resonant dispersion. <i>Technical Physics</i> , 2005 , 50, 1084-1088	0.5	2
27	Radiation of a charge moving along a corrugated surface with a relatively small period. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	2
26	Bunch radiation from a semi-infinite waveguide with dielectric filling inside a waveguide with larger radius. <i>Journal of Instrumentation</i> , 2018 , 13, C02012-C02012	1	1
25	Radiation of a charge exiting open-ended waveguide with dielectric filling 2017 ,		1
24	Method of particle energy determination based on measurement of waveguide mode frequencies. <i>Journal of Physics: Conference Series</i> , 2012 , 357, 012003	0.3	1
23	Wakefields Generated by Electron Beams Passing through a Waveguide Loaded with an Active Medium. <i>AIP Conference Proceedings</i> , 2006 ,	0	1
22	Effect of amplification of Cherenkov radiation in an active medium with two resonant frequencies 2007 ,		1
21	Status of the microwave maser experiment 2007 ,		1
20	Energy losses of dipoles traveling relative to a moving medium. <i>Radiophysics and Quantum Electronics</i> , 2006 , 49, 453-462	0.7	1
19	Radiation of a charge intersecting a system of thin parallel wires. <i>Radiophysics and Quantum Electronics</i> , 1990 , 33, 945-950	0.7	1
18	Diffraction of electromagnetic waves from a semiinfinite plane in a moving medium. <i>Radiophysics and Quantum Electronics</i> , 1987 , 30, 818-825	0.7	1
17	Reversed Cherenkov-transition radiation in a waveguide partly filled with an anisotropic dispersive medium. <i>Radiation Physics and Chemistry</i> , 2021 , 180, 109254	2.5	1
16	Diffraction at the Open-Ended Dielectric-Loaded Circular Waveguide: Rigorous Approach. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2429-2438	4.1	1
15	Electromagnetic field of a charge moving in a waveguide and intersecting a boundary between vacuum and a resonance dispersion medium. <i>Journal of Physics: Conference Series</i> , 2016 , 732, 012012	0.3	1
14	Transition radiation at the boundary of a chiral isotropic medium. <i>Physical Review E</i> , 2017 , 95, 032142	2.4	0

13	Electromagnetic-wave diffraction by slot in faster-than-light flow of nondispersive medium. <i>Radiophysics and Quantum Electronics</i> , 1992 , 35, 434-439	0.7	0
12	Reflection of electromagnetic waves off an ideally conducting plane in cold moving plasma. <i>Radiophysics and Quantum Electronics</i> , 1985 , 28, 277-283	0.7	0
11	Radiation of a charged particle bunch moving along a deeply corrugated structure with a relatively small period. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 1028, 166387	1.2	0
10	Cherenkov radiation from a dielectric ball with a channel. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 711	1.7	0
9	Radiation field of a charged particle moving in right-handed and left-handed media with resonant dispersion. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1771	1.7	
8	Selective screening of waveguide modes by a system of two grids with square cells. <i>Journal of Communications Technology and Electronics</i> , 2009 , 54, 1171-1174	0.5	
7	Radiated power of oscillators traveling in a moving medium. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 287-298	0.7	
6	Influence of a Dielectric on the Radiated Energy of a Charge Moving in a Vacuum Channel. <i>Radiophysics and Quantum Electronics</i> , 2005 , 48, 293-296	0.7	
5	Diffraction of electromagnetic waves by a nonconducting half-plane in a hot plasma. <i>Radiophysics and Quantum Electronics</i> , 1994 , 37, 973-978	0.7	
4	Static filament-source fields in a moving medium in the presence of a tangential discontinuity. <i>Radiophysics and Quantum Electronics</i> , 1988 , 31, 1075-1082	0.7	
3	Reflection theorems for some anisotropic media. <i>Radiophysics and Quantum Electronics</i> , 1984 , 27, 717-723	0.7	
2	Reflection theorems in a moving medium. <i>Radiophysics and Quantum Electronics</i> , 1982 , 25, 231-235	0.7	
1	Energy loss reduction of a charge moving through an anisotropic plasma-like medium. <i>Radiation Physics and Chemistry</i> , 2022 , 192, 109907	2.5	