Andrey V Tyukhtin

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/6367694/andrey-v-tyukhtin-publications-by-year.pdf
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	Radiation of a charged particle bunch moving along a deeply corrugated structure with a relatively small period. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2022**, 1028, 166387	1.2	0
83	Energy loss reduction of a charge moving through an anisotropic plasma-like medium. *Radiation Physics and Chemistry*, **2022**, 192, 109907	2.5	
82	Reversed Cherenkov-transition radiation in a waveguide partly filled with an anisotropic dispersive medium. *Radiation Physics and Chemistry*, **2021**, 180, 109254	2.5	1
81	Diffraction at the Open-Ended Dielectric-Loaded Circular Waveguide: Rigorous Approach. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 2429-2438	4.1	1
80	Cherenkov radiation from a dielectric ball with a channel. *Journal of the Optical Society of America B: Optical Physics*, **2021**, 38, 711	1.7	0
79	Cherenkov-transition radiation in a waveguide partly filled with a strongly magnetized plasma. *Radiation Physics and Chemistry*, **2019**, 164, 108364	2.5	2
78	Peculiarities of Cherenkov radiation from a charge moving through a dielectric cone. *Physical Review A*, **2019**, 99,	2.6	4
77	Radiation of a charge in dielectric concentrator for Cherenkov radiation: Off-axis charge motion. *Physical Review Accelerators and Beams*, **2019**, 22,	1.8	3
76	Radiation of a charge moving along a corrugated surface with a relatively small period. *Physical Review Accelerators and Beams*, **2019**, 22,	1.8	2
75	Cherenkov radiation of a charge exiting open-ended waveguide with dielectric filling. *Physical Review Accelerators and Beams*, **2019**, 22,	1.8	4
74	Radiation of a charge moving along the boundary of dielectric prism. *Physical Review Accelerators and Beams*, **2019**, 22,	1.8	3
73	Radiation of a bunch in a waveguide with a semibounded anisotropic dielectric. *Physical Review Accelerators and Beams*, **2019**, 22,	1.8	4
72	Focusing the Cherenkov radiation using dielectric concentrator: simulations and comparison with theory. *Journal of Instrumentation*, **2018**, 13, C02029-C02029	1	8
71	Bunch radiation from a semi-infinite waveguide with dielectric filling inside a waveguide with larger radius. *Journal of Instrumentation*, **2018**, 13, C02012-C02012	1	1
70	Bunch Imaging at the Open End of an Embedded Circular Waveguide. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 2100-2106	4.1	2
69	Radiation of a Charge Intersecting a Boundary Between a Bilayer Area and a Homogeneous One in a Circular Waveguide. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 49-55	4.1	5
68	Radiation of a charge flying in a partially loaded dielectric section of a waveguide. *Physical Review Accelerators and Beams*, **2018**, 21,	1.8	3

67	Reversed Cherenkov-transition radiation in a waveguide partly filled with a left-handed medium. *Radiation Physics and Chemistry*, **2018**, 145, 43-49	2.5	3
66	Radiation of a charge in presence of a dielectric object: aperture method. *Journal of Instrumentation*, **2018**, 13, C02033-C02033	1	6
65	Radiation of charged particle bunches in corrugated waveguides with small period. *Journal of Instrumentation*, **2018**, 13, C04009-C04009	1	5
64	Surface waves generated by charged particle bunch moving along the edge of semi-infinite planar wire grid. *Radiation Physics and Chemistry*, **2017**, 133, 91-97	2.5	2
63	Radiation from open ended waveguide with dielectric loading. *Nuclear Instruments & Methods in Physics Research B*, **2017**, 402, 144-147	1.2	8
62	Dielectric concentrator for Cherenkov radiation: Sensitivity and field near the focus. *Nuclear Instruments & Methods in Physics Research B*, **2017**, 402, 185-189	1.2	3
61	Transition radiation at the boundary of a chiral isotropic medium. *Physical Review E*, **2017**, 95, 032142	2.4	0
60	Radiation of a charge exiting open-ended waveguide with dielectric filling **2017**,		1
59	Electromagnetic field of a charge moving in a waveguide and intersecting a boundary between vacuum and a resonance dispersion medium. *Journal of Physics: Conference Series*, **2016**, 732, 012012	0.3	1
58	Mode Transformation in a Circular Waveguide With a Transverse Boundary Between a Vacuum and a Partially Dielectric Area. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 64, 3441-3448	4.1	6
57	Short-wavelength radiation of a charge moving in the presence of a dielectric prism. *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 649	1.7	8
56	Radiation of charged-particle bunches passing perpendicularly by the edge of a semi-infinite planar wire structure. *Physical Review E*, **2015**, 91, 063202	2.4	7
55	Cherenkov-transition radiation in a waveguide partly filled with a resonance dispersion medium. *Physical Review Special Topics: Accelerators and Beams*, **2015**, 18,		4
54	Radiation of charges moving along the boundary of a wire metamaterial. *Physical Review E*, **2014**, 89, 013202	2.4	18
53	Dielectric concentrator for Cherenkov radiation. *Physical Review Letters*, **2014**, 113, 064802	7.4	16
52	Electromagnetic field of a bunch intersecting a dielectric plate in a waveguide. *Journal of Physics: Conference Series*, **2014**, 517, 012012	0.3	4
51	Radiation field of a charged particle moving in right-handed and left-handed media with resonant dispersion. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 1771	1.7	
50	Terahertz radiation from an ultra-relativistic charge exiting the open end of a waveguide with a dielectric layer. *Optics Express*, **2014**, 22, 8902-7	3.3	25

49	Self-acceleration of a charge traveling into a waveguide. *Physical Review Special Topics: Accelerators and Beams*, **2014**, 17,		5
48	Electromagnetic field of a bunch intersecting a vacuum gap in a dielectric loaded waveguide. *Physical Review Special Topics: Accelerators and Beams*, **2014**, 17,		3
47	Radiation excited by a charged-particle bunch on a planar periodic wire structure. *Physical Review Special Topics: Accelerators and Beams*, **2014**, 17,		9
46	Electromagnetic field of a charge moving in a chiral isotropic medium. *Physical Review E*, **2013**, 88, 013206	2.4	4
45	Electromagnetic field of a charge moving in a cold magnetized plasma. *Physical Review E*, **2013**, 87, 013109	2.4	7
44	Approximate method for calculating the radiation from a moving charge in the presence of a complex object. *Physical Review E*, **2013**, 87, 043201	2.4	11
43	Self-acceleration of a charge intersecting a boundary surface in a waveguide. *Physical Review Special Topics: Accelerators and Beams*, **2013**, 16,		7
42	Cherenkov radiation in a metamaterial comprised of coated wires. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 1524	1.7	11
41	Nondivergent Cherenkov radiation in a wire metamaterial. *Physical Review Letters*, **2012**, 108, 184801	7.4	69
40	Determination of the particle energy in a waveguide with a thin dielectric layer. *Physical Review Special Topics: Accelerators and Beams*, **2012**, 15,		7
39	Cherenkov-transition radiation in a waveguide with a dielectric-vacuum boundary. *Physical Review Special Topics: Accelerators and Beams*, **2012**, 15,		13
38	Method of particle energy determination based on measurement of waveguide mode frequencies. *Journal of Physics: Conference Series*, **2012**, 357, 012003	0.3	1
37	Radiation of a Charge in a Waveguide with a Boundary between Two Dielectrics. *Journal of Physics: Conference Series*, **2012**, 357, 012010	0.3	5
36	Radiation of a charge moving in wire metamaterial perpendicularly to the main axis. *Journal of Physics: Conference Series*, **2012**, 357, 012006	0.3	2
35	Effective permittivity of a metamaterial from coated wires. *Journal Physics D: Applied Physics*, **2011**, 44, 265401	3	15
34	Electromagnetic field of a charge intersecting a cold plasma boundary in a waveguide. *Physical Review E*, **2011**, 83, 066401	2.4	18
33	Properties of Vavilov-Cherenkov radiation in an anisotropic medium with a resonant dispersion of permittivity. *Journal of the Optical Society of America B: Optical Physics*, **2011**, 28, 2871	1.7	11
32	Reversed Cherenkov transition radiation of charge entering anisotropic medium. *Technical Physics Letters*, **2011**, 37, 317-321	0.7	2

31	Electromagnetic field of a charge traveling into an anisotropic medium. *Physical Review E*, **2011**, 84, 056608	2.4	22
30	New approach to the theory of a moving charges radiation in dispersive medium and its application to the case of left-handed materials. *Journal of Physics: Conference Series*, **2010**, 236, 012003	0.3	4
29	Electromagnetic field of a moving charge in the presence of a left-handed medium. *Physical Review B*, **2010**, 81,	3.3	39
28	Using anisotropic dispersive materials for high-precision determination of the energy of charged particles. *Technical Physics Letters*, **2009**, 35, 263-266	0.7	4
27	Selective screening of waveguide modes by a system of two grids with square cells. *Journal of Communications Technology and Electronics*, **2009**, 54, 1171-1174	0.5	
26	Reversed Cherenkov-transition radiation by a charge crossing a left-handed medium boundary. *Physical Review Letters*, **2009**, 103, 194802	7.4	54
25	Vavilov-Cherenkov radiation in passive and active media with complex resonant dispersion. *Physical Review E*, **2008**, 77, 066606	2.4	22
24	Determining the energy of charged particles moving in a waveguide filled with an anisotropic dispersive medium. *Technical Physics Letters*, **2008**, 34, 884-887	0.7	4
23	Vavilov-Cherenkov radiation in active biresonant media. *Technical Physics Letters*, **2007**, 33, 632-635	0.7	6
22	Radiated power of oscillators traveling in a moving medium. *Radiophysics and Quantum Electronics*, **2007**, 50, 287-298	0.7	
21	Effect of amplification of Cherenkov radiation in an active medium with two resonant frequencies **2007**,		1
20	Status of the microwave paser experiment **2007**,		1
19	Wakefields generated by electron beams passing through a waveguide loaded with a slightly dispersive active medium. *Physical Review Special Topics: Accelerators and Beams*, **2007**, 10,		6
18	Studies of Particle Acceleration by an Active Microwave Medium. *AIP Conference Proceedings*, **2006**,	0	2
17	Wakefields Generated by Electron Beams Passing through a Waveguide Loaded with an Active Medium. *AIP Conference Proceedings*, **2006**,	0	1
16	Analysis of multimode wakefield generation in accelerating structures with conductive dielectric loading. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 558, 62-65	1.2	9
15	Amplification of the radiation of a bunch of charged particles moving in a waveguide lined with an active dielectric medium. *Technical Physics Letters*, **2006**, 32, 449-452	0.7	9
14	Energy losses of dipoles traveling relative to a moving medium. *Radiophysics and Quantum Electronics*, **2006**, 49, 453-462	0.7	1

13	Radiation of a charge moving in a waveguide with a resonantly dispersive dielectric layer. *Technical Physics Letters*, **2005**, 31, 150	0.7	7
12	Energy characteristics of radiation from an oscillating dipole moving in a dielectric medium with resonant dispersion. *Technical Physics*, **2005**, 50, 1084-1088	0.5	2
11	Influence of a Dielectric on the Radiated Energy of a Charge Moving in a Vacuum Channel. *Radiophysics and Quantum Electronics*, **2005**, 48, 293-296	0.7	
10	Radiation of a charge moving in a waveguide filled with a dielectric medium possessing resonance dispersion. *Technical Physics Letters*, **2004**, 30, 605-608	0.7	9
9	Energy characteristics of radiation of oscillating dipoles moving in a nondispersive medium and a cold plasma. *Technical Physics*, **2004**, 49, 1021-1027	0.5	3
8	Diffraction of electromagnetic waves by a nonconducting half-plane in a hot plasma. *Radiophysics and Quantum Electronics*, **1994**, 37, 973-978	0.7	
7	Electromagnetic-wave diffraction by slot in faster-than-light flow of nondispersive medium. *Radiophysics and Quantum Electronics*, **1992**, 35, 434-439	0.7	0
6	Radiation of a charge intersecting a system of thin parallel wires. *Radiophysics and Quantum Electronics*, **1990**, 33, 945-950	0.7	1
5	Static filament-source fields in a moving medium in the presence of a tangential discontinuity. *Radiophysics and Quantum Electronics*, **1988**, 31, 1075-1082	0.7	
4	Diffraction of electromagnetic waves from a semiinfinite plane in a moving dedium. *Radiophysics and Quantum Electronics*, **1987**, 30, 818-825	0.7	1
3	Reflection of electromagnetic waves off an ideally conducting plane in cold moving plasma. *Radiophysics and Quantum Electronics*, **1985**, 28, 277-283	0.7	0
2	Reflection theorems for some anisotropic media. *Radiophysics and Quantum Electronics*, **1984**, 27, 717-723	0.7	
1	Reflection theorems in a moving medium. *Radiophysics and Quantum Electronics*, **1982**, 25, 231-235	0.7	