Огляд цитування публікацій, які увійшли до роботи

(зазначаються публікації всіх авторів подання в одній таблиці за наявності цитування)

Зазначаються наукові публікації, що входять до наукометричних баз Web of Science, Scopus, Google Scholar.

Роботи, які не цитуються в жодній із баз, до переліку не включаються.

№ п.п.	Назва публікації	Кількість посилань згідно з базами даних		
		Web of Science	Scopus	Google Scholar
1	**Gubin A.I.**, Il'in K.S., Vitusevich S.A., Siegel M., Klein N. Dependence of magnetic penetration depth on the thickness of superconducting Nb thin films. *Phys Rev. B.* 2005. Vol. 72, P.064503-1 - 064503-8.	192	196	301
2	Bezuglyj A. I. and **Shklovskij V. A.** Effect of self-heating on flux flow instability in asuperconductor near T_c. *Physica C.* 1992. Vol.202, №3-4, P.234-242.	105	109	127
3	Dobrovolskiy O.V., Sachser R., Brächer T., Fischer T., Kruglyak V.V., Vovk, R.V., **Shklovskij V.A.**, Huth M., Hillebrands B., Chumak A.V. Magnon–fluxon interaction in a ferromagnet/superconductor heterostructure. *Nat. Phys.* 2019. Vol.15, №5, P.477–482.	83	90	113
4	**Cherpak N.T.**, **Barannik A.A.**, Filipov Yu.F., **Prokopenko Yu.V.**, Vitusevich S. Accurate Microwave Technique of Surface Resistance Measurement of Large-Area HTS Films using Sapphire Quasioptical Resonator // *IEEE Trans. on Appl. Supercond*. 2003. V.13, №2, P. 3570–3573.	54	66	79
5	Jin B.B., Dahm T., **Gubin A.I.**, Eun-Mi Choi, Hyun Jung Kim, Sung-IK Lee, Kang W.N., Klein N. Anomalous Coherence Peak in the Microwave Conductivity of c-Axis Oriented MgB_2 Thin Films. *Phys. Rew. Lett.* 2003. Vol.91, №12, P.127006-1-4.	52	49	69
6	Bondarenko A.V., **Shklovskij V.A.**, Vovk R.V., Obolenskii M.A., Prodan A.A. Pinning and dynamics of magnetic flux in YBaCuO single crystals for vortex motion along twin boundaries. *Low Temp. Phys.* 1997. Vol.23, №12, P.962–967.	45	50	69
7	**Averkov Yu.O.**, **Yakovenko V.M.** Cherenkov radiation by an electron bunch that moves in a vacuum above a left-handed material. *Phys. Rev. B*. 2005. V.72, №20, P. 205110(10).	45	52	70
8	Bondarenko A., **Shklovskij V.**, Obolenskii M., Niarchos D., Kallias G. Resistivity investigations of plastic vortex creep in crystals. *Phys. Rev. B*. 1998. V.58, №5, P.2445–2447.	42	54	65
9	Dobrovolskiy O.V., Bevz V.M., Mikhailov M.Y., Yuzephovich O.I., **Shklovskij V.A.**, Vovk R.V. Tsindlekht M.I., Sachser R., Huth M. Microwave emission from superconducting vortices in Mo/Si superlattices. *Nat. Commun.* 2018. Vol.9, №1, P.4927.	41	54	52
10	**Shklovskij V. A.** and Dobrovolskiy O. V. Ac-driven vortices and the Hall effect in a superconductor with a tilted washboard pinning potential. *Phys. Rev. B*. 2008. V.78, №7, P. 104526.	39	46	48

11	Dobrovolskiy O.V., Huth M., **Shklovskij V.A.,** Vovk R.V. Mobile fluxons as coherent probes of periodic pinning in superconductors, *Scientific Reports*. 2017. Vol.7, №1, P.13740.	38	50	59
12	Dobrovolskiy O. V., Begun E., Huth M., and **Shklovskij V.A.** Electrical transport and pinning properties of Nb thin films patterned with focused ion beam-milled washboard nanostructures. *New J. Phys.* 2012. Vol.14, P.113027.	38	42	48
13	Shaforost E.N., Klein N., Vitusevich S.A., **Barannik A.A.**, **Cherpak N.T.** High sensitivity microwave characterization of organic molecule solutions of nanoliter volume. *Appl. Phys. Lett.* 2009. Vol.94, P.112901.	37	46	54
14	**Shklovskij V. A.** and Dobrovolskiy O. V. Frequency-dependent ratchet effect in superconducting films with a tilted washboard pinning potential. *Phys. Rev. B*. 2011. V.84, №5, P. 054515.	36	39	44
15	Soroka O. K., Shklovskij V. A., and Huth M. Guiding of vortices under competing for isotropic and anisotropic pinning conditions. Theory and experiment. *Phys. Rev. B*. 2007. V.76, №1, P. 014504.	35	37	47
16	Shaforost O.N., Klein N., Vitusevich S.A., Offenhäusser A., **Barannik A.A.**, Nanoliter liquid characterization by open whispering-gallery mode dielectric resonators at millimeter wave frequencies. *J. Appl. Phys.* 2008. Vol. 104, P.074111.	34	37	45
17	Jin B.B., Dahm T., Iniotakis C., **Gubin A.I.**, Eun-Mi Choi, Hyun Jung Kim, Sung-IK Lee, Kang W.N., Wang S.F., Zhou Y.L., Pogrebnyakov A.V., Redwing J.M., X X Xi, Klein N. Dependence of penetration depth, microwave surface resistance and energy gap of MgB_2 thin films on their normal-state resistivity. *Supercond. Sci. Technol.* 2005. Vol.18, №1, P.L1-L4.	33	34	42
18	**Shklovskij V.A.**, Sosedkin V.V., and Dobrovolskiy O.V. Vortex ratchet reversal in an asymmetric washboard pinning potential subject to combined dc and ac stimuli. *J. Phys.: Cond. Matt.* 2014. Vol.26, №2, P.025703.	32	37	40
19	Dobrovolskiy O.V., Huth M., and **Shklovskij V.A.** Alternating current-driven microwave loss modulation in a fluxonic metamaterial. *Appl. Phys. Lett.* 2015. Vol.107, №16, P.162603.	32	35	37
20	Bezuglyj A.I., **Shklovskij V.A.**, Vovk R.V., Huth M., Dobrovolskiy O.V. Local flux-flow instability in superconducting films near T_c, *Phys. Rev. B*. 2019. V.99, №17, P.174518.	31	37	41
21	Dobrovolskiy O. V., Huth M., and **Shklovskij V. A.** Anisotropic magnetoresistive response in thin Nb films decorated by an array of co stripes. *Supercond. Sci. Technol.* 2010. Vol.23, №12, P.125014.	30	32	38
22	**Shklovskij V. A.** and Dobrovolskiy O. V. Influence of pointlike disorder onthe guiding of vortices and the hall effect in a washboard planar pinning potential. *Phys. Rev. B*. 2006. V.74, №12, P. 104511.	29	33	38
23	**Shklovskij V. A.** Hot electrons in metals at low temperatures. *J. Low Temp. Phys*. 1980. Vol.41, №3-4, P.375–396.	28	30	38
24	Dobrovolskiy O.V., Sachser R., Huth M., **Shklovskij V.A.**, Vovk R.V. Bevz V.M., Tsindlekht M.I. Radiofrequency generation by coherently moving fluxons. *Appl. Phys. Lett.* 2018. Vol. 112,	27	35	39

	№15, P. 152601.			
25	Dobrovolskiy O.V., Begun E., Huth M., **Shklovskij V.A.**, Tsindlekht M.I. Vortex lattice matching effects in a was5hboard pinning potential induced by Co nanostripe arrays. *Physica C.* 2011. Vol.471, №15-16, P.449-452.	27	27	33
26	Chabanenko V.V. Prodan A.A., **Shklovskij V.A.**, Szymczak H., Piechota S. Guiding of vortices in $YBa_2Cu_3O_{7-\delta}$ single crystals with unidirected twins. *Physica C.* 1999. Vol.314, №1, P.133-138.	26	32	37
27	**Gubin A.I.**, **Barannik A.A.**, **Cherpak N.T.**, Protsenko I.A., Pud S., Offenhaeusser A., Vitusevich S.A. Whispering-Gallery Mode Resonator Technique with Microfluidic Channel for Permittivity Measurement of Liquids. *IEEE Trans. Microwave Theory Tech.* 2015. Vol. 63, №6, P.2003-2009.	26	34	41
28	**Barannik A.A., Cherpak N.T., Prokopenko Yu.V.**, Filipov Yu.F., Shaforost E.N., Shipilova I.A. Two-layered disc quasi-optical dielectric resonators: Electrodynamics and application perspectives for complex permittivity measurements of lossy liquids. *Meas. Sci. Technol.* 2007. V.18, №7, P. 2231–2238.	25	36	46
29	**Prokopenko Yu.V.**, Filipov Yu.F. Anisotropic Disk Dielectric Resonator with Conducting End Faces. *Tech. Phys.* 2002. V.47, №6, P. 731–736.	23	23	26
30	Prodan A.A., **Shklovskij V.A.**, Chabanenko V.V., Szymczak H., Piechota S. Observation of an odd longitudinal magnetoresistance in $YBa_2Cu_3O_{7-\delta}$ single crystals with unidirected twins. *Physica C.* 1998. Vol.302, №302, P.271-276.	23	28	31
31	**Barannik A., Cherpak N.T.,** Tanatar M.A., Vitusevich S., Skresanov V., Canfield P.C., Prozorov R. Millimeter-wave surface impedance of optimally-doped $Ba(Fe_{1-x}Co_x)_2As_2$ single crystals. *Phys. Rev. B*. 2013. V.87, №1, P. 014506-014506-7.	22	31	39
32	**Shklovskij V.A.**, Nazipova A.P., Dobrovolskiy O.V. Pinning effects on self-heating and flux-flow instability in superconducting films near T_c. *Phys. Rev. B*. 2017. V.95, №18, P.184517.	18	20	25
33	Dobrovolskiy O.V., **Shklovskij V.A.**, Hanefeld M., Köhs L., Huth M. Pinning effects on flux flow instability in epitaxial Nb thin films. *Supercond. Sci. Technol.* 2017. Vol.30, №8, P.085002	18	20	24
34	**Barannik A.**, **Cherpak N.**, Kirichenko A., **Prokopenko Yu.**, Vitusevich S., **Yakovenko V.** Whispering Gallery Mode Resonators in Microwave Physics and Technologies. *Inter. J. Microw. Wireless Technol.* 2017. Vol.9, №4, P. 781–796.	17	27	31
35	**Averkov Yu.O.**, Nori F., Yampol'skii V.A., **Yakovenko V.M.** Conversion of terahertz wave polarization at the boundary of a layered superconductor due to the resonance excitation of oblique surface waves. *Phys. Rev. Lett.* 2012. V. 109, №2, P. 027005(5).	17	19	21
36	**Averkov Yu.O.**, Nori F., Yampol'skii V.A., **Yakovenko V.M.** Terahertz transverse-electric- and transverse-magnetic-polarized waves localized on graphene in photonic crystals. *Phys. Rev. B*.	17	18	22

	2014. V.90, №4, P. 045415(7).			
37	**Shklovskij V. A.** and Sosedkin V. V. Guiding of vortices and ratchet effect in superconducting films with asymmetric pinning potential. *Phys. Rev. B*. 2009. V.80, №23, P. 214526.	16	19	24
38	**Cherpak N.T.**, **Barannik A.A.**, Bunyaev S.A., **Prokopenko Yu.V.**, Vitusevich S. Measurements of millimeter-wave surface resistance and temperature dependence of reactance of thin HTS films using quasi-optical dielectric resonator. *IEEE Trans. on Appl. Supercond*. 2005. V.15, №2, P. 2919–2922.	16	21	22
39	Akay M. Fatih, **Prokopenko Yu.**, Kharkovsky S. Resonance Characteristics of Whispering Gallery Modes in Parallel-Plates-Type Cylindrical Dielectric Resonators. *Microwave Opt. Technol. Lett.* 2004. V.40, №2, P. 96–101.	16	17	24
40	**Shklovskij V.A.** Guiding of vortices and the Hall conductivity scaling in a bianisotropic planar pinning potential. *Phys. Rev. B*. 2002. V.65, №9, P. 925081–925084.	15	17	23
41	Dobrovolskiy O.V., Huth M., **Shklovskij V.A.** Fabrication of artificial washboard pinning structures in thin niobium films. *J. Supercond. Novel Magn.* 2011. Vol.24, №1-2, P.375-380.	15	15	17
42	Vitusevich S., **Cherpak N.**, **Barannik A.**, **Prokopenko Yu.** Microwave impedance characterization of large-area HTS films: novel approach. *Supercond. Sci. Technol.* 2004. V.17, №7, P. 899–903.	14	17	22
43	**Barannik A.A.**, Bunyaev S. A., **Cherpak N.T.**, **Prokopenko Yu.V.**, Vitusevich S.A., Kharchenko A.A. Whispering gallery mode dielectric resonators in a form of hemisphere with impedance plane. *IEEE Trans. Microwave Theory Tech.* 2010. V.58, №10, P. 2682–2691.	14	20	21
44	Belevtsev B.I., **Cherpak N.T.**, Chukanova I.N., **Gubin A.I.**, Krasovitsky V.B., **Lavrinovich A.A.** Direct-current transport properties of and microwave absorption in a bulk ceramic sample and a film of $La_{0.5}Sr_{0.5}CoO_{3-\delta}$: magnetic inhomogeneity effects. *J. Phys.: Condens. Matter.* 2002. Vol.14, P. 2591-2603.	14	18	22
45	**Gubin A.I.**, **Barannik A.A.**, **Cherpak N.T.**, Vitusevich S., Offenhaeusser A., Klein N. Whispering-gallery mode resonator technique for characterization of small volumes of biochemical liquids in microfluidic channel. *Proc. of 41th European Microwave Conference (EuMC 2011)*. (Manchester, United Kingdom, 10-13 October 2011) Manchester, 2011. P.615-618, 2011.	13	19	23
46	Ilin K.S., Vitusevich S.A., Jin B.B., **Gubin A.I.**, Klein N., Siegel M. Pecuilarities of the thickness dependence of the superconducting properties of thin Nb films. *Physica C.* 2004. Vol.408-410, P.700-702.	13	15	19
47	1 **Barannik A.A., Cherpak N.T.,** Chuiko D.E. Q-Factor Measurement of Quasi-Optical Dielectric Resonators Under Conditions of the Whispering Gallery Mode Degeneration Removal. *IEEE Trans. Instrum. Meas.* 2006. Vol.55, №1, P.70-73.	13	17	21
48	Dobrovolskiy O.V., Sachser R., Bevz V.M., Lara A., Aliev F. G., **Shklovskij V. A.**, Bezuglyj A. I., Vovk R.V., Huth M. Reduction	13	17	20

	of Microwave Loss by Mobile Fluxons in Grooved Nb Films. *Phys. Status Solidi-RRL*. 2019. Vol.13, №1, P.1800223.			
49	**Barannik A.A.**, Bunyaev S.A., and **Cherpak N.T.** On the low-temperature microwave response of a $YBa_2Cu_3O_{7-d}$ epitaxial film determined by a new measurement technique. *Low Temp. Phys.* 2008. Vol. 34, №12, P.977-981.	12	19	17
50	Bezuglyj A.I., **Shklovskij V.A.** Thermal domains in inhomogeneous current-carrying superconductors. Current-voltage characteristics and dynamics of domain formation after current jumps. *Journal of Low Temp. Phys.* 1984. Vol.57, №3-4, P.277–247.	12	15	16
51	**Cherpak N., Lavrinovich A., Gubin A.** Vitusevich S. DC-assisted microwave quenching of $YBa_2Cu_3O_{7-\delta}$ coplanar waveguide to a highly dissipative state. *Appl. Phys. Lett.* 2014. Vol. 105, №2, P. 022601-022601-3.	12	20	21
52	Dormidontov A.V., Kirichenko A.Ya., Lonin Yu.F., Ponomarev A.G., **Prokopenko Yu.V.**, Sotnikov G.V., Uvarov V.T., Filippov Yu.F. Auto-Oscillatory System Based on Dielectric Resonator with Whispering-Gallery Modes. *Tech. Phys. Lett.* 2012. V. 38, №1, P. 85–88.	11	13	22
53	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V.M.** Interaction between a tubular beam of charged particles and a dispersive metamaterial of cylindrical configuration. *Phys. Rev. E*. 2017. V.96, №1, P. 013205(12).	11	13	18
54	**Barannik A.A.**, **Prokopenko Yu.V.**, Filipov Yu.F., **Cherpak N.T.**, Korotash I.V. Q factor of a millimeter-wave sapphire disk resonator with conductive end plates. *Tech. Phys.* 2003. V.48, №5, 2003. P. 621–625.	11	23	18
55	**Barannik, A.A.**, Bunyaev, S.A., **Cherpak, N.T.** Conical quasioptical dielectric resonator. *Technical Physics Letters.* 2005. Vol.31, №10, P.811-812.	11	12	12
56	**Shklovskij V.A.**, Kruglyak V.V., Vovk R.V., Dobrovolskiy O.V. Role of magnons and the size effect in heat transport through an insulating ferromagnet/insulator interface. *Phys. Rev. B*. 2018. V.98, №22, P.224403.	11	16	15
57	**Averkov Yu.O.**, **Yakovenko V.M.** Surface electromagnetic waves at an anisotropically conducting artificial interface. *Phys. Rev. B*. 2010. V.81, №4, P. 045427(7).	10	11	11
58	**Cherpak N.T.**, Barannik A.A., Bunyaev S.A., **Prokopenko Yu.V.**, Torokhtii K.I., Vitusevich S.A. Millimeter-wave surface impedance characterization of HTS films and single crystals using quasi-optical sapphire resonators. *IEEE Trans. on Appl. Supercond*. 2011. V.21, №3, P. 591–594.	10	11	11
59	**Shklovskij V.A.** Anisotropic pinning and the mixed-state galvanothermomagnetic properties of superconductors - A phenomenological approach. *Low Temp. Phys.* 1997. Vol.23, №10, P.853–856.	10	9	16
60	**Gubin A.I., Lavrinovich A.A., Cherpak N.T.** Microwave-band reflection coefficient of high-temperature superconductor specimens in E-plane waveguide structures. *Technical Physics Letters.* 2001. Vol.27, №4, C.336-337.	10	16	16

61	Galaydych K.V., Lonin Yu.F., Ponomarev A.G., **Prokopenko Yu.V.**, Sotnikov G.V. Mathematical model of an excitation by electron beam of "whispering gallery" modes in cylindrical dielectric resonator. *Problems of Atomic Science and Technology. Series: "Plasma Physics"*. 2010. Issue 16, №6, P. 123–125.	9	10	13
62	Khankina S.I., **Yakovenko V.M.**, Yakovenko I.V. Surface electron states produced by a Rayleigh wave. *JEPT*. 2007. V.104, №3, P. 467–473.	9	7	13
63	**Averkov Yu.O.**, Kats A.V., **Yakovenko V.M.** Electron beam excitation of left-handed surface electromagnetic waves at artificial interfaces. *Phys. Rev. B*. 2009. V.79, №19, P. 193402(4).	9	12	16
64	**Averkov Yu.O.**, **Yakovenko V.M.**, Yampl'skii V.A., Nori F. Oblique surface Josephson plasma waves in layered superconductors. *Phys. Rev. B*. 2013. V. 87, №5, P. 054505(8).	9	11	18
65	Prokopenko Yu.V., Smirnova T.A., Filippov Yu.F. Eigenmodes of an anisotropic dielectric ball. *Tech. Phys.* 2004. V.49, №4, P. 459–465.	9	11	11
66	Dobrovolskiy O.V., Hanefeld M., Zörb M., Huth M., **Shklovskij V.A.** Interplay of flux guiding and Hall effect in Nb films with nanogrooves. *Supercond. Sci. Technol.* 2016. Vol.29, №6, P.065009.	9	9	15
67	Usatenko O.V., **Shklovskij V.A.** Brownian motion of particles in 1D arbitrary periodic potentials near a phase transition point. *J. Phys. A: Gen. Phys.* 1994. Vol.27, №15, P.5043–5051.	9	10	13
68	Bezuglyj A.I., **Shklovskij V.A.** Kinetics of electron cooling in metal films at low temperatures and revision of the two-temperature model. *J. Phys.: Condens. Matter*. 2018. Vol.30(29), P.295001.	9	13	12
69	Bezuglyj A.I., **Shklovskij V.A.**, Kruglyak V.V., Vovk R.V. Temperature dependence of the magnon-phonon energy relaxation time in a ferromagnetic insulator. *Phys. Rev. B*. 2019. V.100, №21, P.214409.	9	12	11
70	Derkach V.N., Filipov Yu.F., Plevako A.S., **Prokopenko Yu.V.**, Smirnova T.A. Determination of microwave parameters of isotropic mediums by using an open quasi-optical spherical resonator. *Int. J. Infrared Millimeter Waves*. 2004. V.25, №1, P. 139-148.	8	11	19
71	**Shklovskij V.A.** Nonlinear mixed-state longitudinal and transverse resistivities of superconductors with anisotropic pinning - A phenomenological approach, *Low Temp. Phys.* 1999. Vol.25, №2, P.109–114.	8	7	13
72	**Shklovskij V.A.**, Mezinova V.V., Dobrovolskiy O.V. Nonlinear relaxation between magnons and phonons in insulating ferromagnets. *Phys. Rev. B*. 2018. V.98, №10, P.104405.	8	11	9
73	Galaydych K.V., Lonin Yu.F., Ponomarev A.G., **Prokopenko Yu.V.**, Sotnikov G.V. Nonlinear analysis of mm waves excitation by high–current REB in dielectric resonator. *Problems of Atomic Science and Technology. Series: "Plasma Physics"*. 2012. Issue 18, №6(82), P. 158–160.	7	8	11

74	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V.M.** Interaction between a tubular beam of charged particles and an anisotropic dispersive solid-state cylinder. *Problems of Atomic Science and Technology. Series: "Plasma Electronics and New Methods of Acceleration"*. 2018. Issue 10, №4(116), P. 3–12.	7	6	13
75	**Barannik A.A., Cherpak N.T.,** Ni N., Tanatar M.A., Vitusevich S.A., Skresanov V.N., Canfield P.C., Prozorov R., Glamazdin V.V., and Torokhtii K.I. Millimeter-wave study of London penetration depth temperature dependence in $Ba(Fe_{0.926}Co_{0.074})_2As_2$ single crystal. *Low Temp. Phys.* 2011. Vol. 37, №8, P.725-728.	7	9	12
76	**Barannik A.A., Cherpak N.T.,** Wu Y., Luo S., He Y., M.S. Kharchenko, Porch A. Unusual microwave response and bulk conductivity of very thin $FeSe_{0.3}Te_{0.7}$ films as a function of temperature. *Low Temp. Phys.* 2014. Vol. 40, №6, P.492-499.	7	12	15
77	Wu Y., Zhou S.Y., Wang X.Y., Cao L.X., Zhang X.Q., Luo S., He Y.S., **Barannik A.A., Cherpak N.T.**, and Skresanov V.N. Microwave Study of Thin Film by -Mode Sapphire Dielectric Resonator. *IEEE Trans. on Appl. Supercond.* 2011. Vol. 21, №3, P.599-603.	7	9	11
78	**Shklovskij V.A.**, Soroka A.A. Anisotropy of the critical current and the guided motion of vortices in a stochastic model of bianisotropic pinning. I. Theoretical model. *Low Temp. Phys*. 2002. Vol.28, №4, P.254–259.	7	5	11
79	**Barannik A.A.,** Bunyaev S.A., **Cherpak N.T.** and Vitusevich S.A. Quasi-Optical Sapphire Resonators in the Form of a Truncated Cone. *IEEE/OSA Journal of Lightwave Technology*, 2008. Vol. 26, No№17, P.3118-3123.	6	9	11
80	**Barannik A.A., Cherpak N.T.,** Kharchenko M.S., Semerad R., Vitusevich S. Surface impedance of $YBa_2Cu_3O_{7-\delta}$ films grown on MgO substrate as a function of film thickness. *J. Supercond. Novel Magn.* 2013. Vol.26, №1. P, 43-48..	6	7	11
81	Dobrovolskiy O.V., González-Ruano C., Lara, A., Sachser R., Bevz V.M., **Shklovskij V.A.**, Bezuglyj A.I., Vovk R.V., Huth M., Aliev F.G. Moving flux quanta cool superconductors by a microwave breath. *Commun. Phys.* 2020, Vol.3, №1, P.64.	6	7	13
82	**Shklovskij V.A.** Pinning effects on hot-electron vortex flow instability in superconducting films. *Physica C.* 2017. Vol.538, P.20-26.	6	7	8
83	**Shklovskij V.A.**, Ostroushko V.N. Nonlinear resonance study of the periodic motion of the explosive crystallization front in glasses, *Phys. Rev. B*. 1996. V.53, №6, P. 3095–3106	6	6	5
84	**Barannik A.A., Cherpak N.T.,** Protsenko I. A., Gubin A. I., Kireev D., Vitusevich S. Contactless exploration of graphene properties using millimeter wave response of WGM resonator. *Appl. Phys. Lett.* 2018. Vol. 113, №9, P. 094102-094102-3.	6	6	7
85	Chupikov P.T., Faehl R.J., Onishchenko I.N., **Prokopenko Yu.V.**, Pushkarev S.S. Vircator efficiency enhancement at plasma assistance. *IEEE Trans. Plasma Sci.* 2006. V.34, №1, P. 14–17.	6	5	10
86	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V.M.** Waves of a Magnetoplasma Solid State Cylinder under Quasi-Stationary	5	5	7

	Conditions. *IEEE Trans. Plasma Sci.* 2021. V.49, №10, P. 3078–3085			
87	**Cherpak N.T.**, **Barannik A.A.**, **Prokopenko Yu.V.**, Filipov Yu.F., Vitusevich S.A. Microwave properties of HTS films: measurements in millimeter wave range. *Low Temperature Physics*. 2006. T. 32, № 6, C .608–613.	5	7	11
88	**Prokopenko Yu.V.**, Filippov Yu.F., Shipilova I.A., **Yakovenko V.M.** Whispering Gallery Modes in a Hemispherical Isotropic Dielectric Resonator with a Perfectly Conducting Planar Surface. *Tech. Phys.* 2006. V.51, №2, P. 248–257.	5	5	8
89	Jin B.B., Dahm T., Kadlec F., Kuzel P., **Gubin A.I.**, Eun-Mi Choi, Hyun Jung Kim, Sung-IK Lee, Kang W.N., Wang S.F., Zhou Y. L., Pogrebnyakov A.V., Redwing J.M., Xi X. X., Klein N. Microwave and Terahertz Surface Resistance of MgB_2 Thin Films. *J. Supercond. Novel Magn.* 2006. Vol.19, №7–8. P, 617-623.	5	6	8
90	**Shklovskij V.A.** New hall resistivity scaling relations in the presence of competition between point-like and anisotropic planar pinning potential. *Journal of Low Temp. Phys.* 2005. Vol.139, №1, P.289–297.	5	6	6
91	**Shklovskij V.A.** Influence of point-like disorder on the hall resistivity behavior in an anisotropic planar pinning potential. *Journal of Low Temp. Phys.* 2003. Vol.131, №5-6, P.899–905.	5	7	7
92	**Shklovskij V.A.**, Soroka A.A. Guiding of vortices and its influence on the hall voltages in a bianisotropic planar pinning potential, *J. Low Temp. Phys*. 2003. Vol.130, №3-4, P.407–414.	5	5	6
93	Soroka O.K., Huth M., **Shklovskij V.A.**, Oster J., Adrian H. Guided vortex motion in Nb films on facetted substrate surfaces. *Physica C.* 2003. Vol.388-389, P.773-774.	5	4	7
94	**Shklovskij V. A.** and Dang Thi Bich Hop. The hall effect and microwave absorption by vortices in an anisotropic superconductor with a periodic pinning potential. *Low Temp. Phys*. 2010. Vol.36, №1, P.71–80.	5	4	7
95	Bezuglyj A.I., **Shklovskij V.A.** Energy relaxation times in metal films from the response of electrical conductivity to periodic heating, *Phys. Rev. B*. 2014. V.89, №21, P. 214303.	5	10	10
96	**Cherpak N.T., Lavrinovich A.A., Gubin A.I**. Vitusevich S.A. Microwave Quenching in DC-Biased Coplanar Waveguide Based on YBa2Cu3O7−δ Thin Film. *IEEE Trans. on Appl. Supercond.* 2016. Vol. 26, №3, P.1501204-1501204-4.	5	7	11
97	Cherpak. N.T., **Lavrinovich A.A.**, Shaforost E.N. Quasi-optical dielectric resonators with small cuvette and capillary filled with ethanol-water mixtures. *Int. J. Infrared Millimeter Waves.* 2006. Vol.27, №1, P.115-133.	5	7	10
98	Bunyaev S.A., **Barannik A.A., Cherpak N.T.** Microstrip Whispering-Gallery-Mode Resonator. *IEEE Trans. Microwave Theory Tech.* 2015. Vol.63, №9, P.2776-2781.	5	6	12
99	Kirichenko A.Y., Lonin, Y.F., Papkovich V.G., Ponomarev A.G., **Prokopenko Yu.V.**, Uvarov V.T., Filippov Y.F. Microwave oscillator with whispering gallery resonator. *Problems of Atomic Science and Technology*. 2010. Vol.53, №2, P.135–139.	4	6	10

100	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V. M.** Helicons in plasma solid-state waveguide of cylindrical configuration. *Problems of Atomic Science and Technology. Series: "Plasma Electronics and New Methods of Acceleration"*. 2019. №4(122), P. 19–23.	4	3	6
101	**Averkov Yu.O.**, **Yakovenko V.M.** Excitation of oblique surface electromagnetic waves at an anisotropically conducting artificial interface by means of the attenuated-total-reflection method. *J. Opt. Soc. Am. B: Opt. Phys.* 2011. V.28, №1, P. 155–158.	4	5	7
102	**Averkov Yu.O.**, Tarapov S.I., Kharchenko A.A., **Yakovenko V.M.** Surface electromagnetic states in the photonic crystal–ferrite–plasma-like medium structure. *Low Temp. Phys.* 2014. V.40, №7, P. 667–673.	4	2	9
103	**Shklovskij V.A.**, Dobrovolskiy O.V. Determination of coordinate dependence of a pinning potential from a microwave experiment with vortices. *Low Temp. Phys*. 2013. Vol.39, №2, P.120–124.	4	4	5
104	Bezuglyj A.I., **Shklovskij V.A.** The role of conduction electrons in the formation of thermal boundary resistance of the metal-dielectric interface and resistivity of metal films, at low temperatures. *Low Temp. Phys*. 2016. Vol.42, №8, P.636–660.	4	7	7
105	**Gubin A.I.**, **Barannik A.A.**, Protsenko I.A., **Cherpak N.T.**, Offenhaeusser A., Vitusevich S. Biochemical Liquids Permittivity Characterization Technique Based on Whispering-Gallery Mode Resonator With Microfluidic Channel. *Proc. of 43th European Microwave Conference (EuMC 2013)*. (Nuremberg, Germany, 6-10 October 2013) Nuremberg, 2013. P.314-317.	4	8	9
106	Naumova N., Hlukhova H., **Barannik A.**, **Gubin A.**, Protsenko I., **Cherpak N.**, Vitusevich S. Microwave characterization of low-molecular-weight antioxidant specific biomarkers. *Biochim Biophys Acta Gen Subj.* 2019. Vol.1863, №1, P.226-231.	4	5	6
107	**Gubin Alexey I.**, Protsenko Irina A., **Barannik Alexander A.**, Vitusevich Svetlana, **Lavrinovich Alexandr A.**, **Cherpak Nickolay T.** Quartz Whispering-Gallery-Mode Resonator With Microfluidic Chip as Sensor for Permittivity Measurement of Liquids. *IEEE Sens. J.* 2019. Vol.19, №18, P.7976-7982.	4	4	5
108	**Gubin A.I.,** Protsenko I.A., **Barannik A.A., Cherpak N.T.,** Vitusevich S.A. Single Whispering-Gallery-Mode Resonator With Microfluidic Chip as a Basis for Multifrequency Microwave Permittivity Measurement of Liquids. *IEEE Trans. Microwave Theory Tech.* 2022. Vol.70, №6, P.3310-3318.	4	4	5
109	**Averkov Yu.O.**, **Yakovenko V.M.** Generation of transition radiation in the form of electromagnetic surface waves by electron Bunches. *Plasma Phys. Rep.* 2004. V.30, №6, P. 519–526.	3	3	3
110	Dormidontov A.V., **Prokopenko Yu.V.** Influence of the Refractivity and Temperature of the Ambient Medium on the Eigenfrequencies of Quasioptical Cylindrical Dielectric Resonators. Radiophys. *Quantum Electron*. 2013. Vol.56, №6, P. 385–397.	3	4	4

111	**Cherpak N.T., Barannik A.A., Prokopenko Yu.V.**, Shaforost E.A., Shipilova I.A., Filipov Yu.F. Radially two-layered quasi-optical resonator with ethyl alcohol and water. *Proc. of the 35-th European Microwave Conf. (EuMC 2005)*. (Paris, France, 4-6 October, 2005): Paris, 2005. P. 1211–1214.	3	5	5
112	Dobrovolskiy O.V., Huth M., **Shklovskij V.A.** Fluxonic properties of vortices in a washboard pinning potential fabricated by focused particle beam techniques. *Acta Phys. Pol. A*. 2012. Vol.121, №1, P.82–84.	3	3	4
113	**Shklovskij V.A.** New Hall voltages in a planar pinning potential. *Physica C.* 2003. Vol.388-389, P.655-656.	3	3	3
114	Bezuglyĭ A.I., **Shklovskij V.A.** Dynamics of electron temperature and the relaxation times of electron-phonon system of a metal film. *Low Temp. Phys*. 2013. Vol.39, №4, P.357–364.	3	9	6
115	Shaforost E.N., Klein N., **Gubin A.I.**, **Barannik A.A.**, Klushin A.M. Microwave- Millimetre Wave WGM Resonators for Evanescent Sensing of Nanolitre Liquid Substances. *Proc. of 39th European Microwave Conference (EuMC 09)*. (Rome, Italy, 29 Sept.-1 Oct. 2009) Rome, 2009. P.45-48.	3	6	6
116	**Cherpak N.T**., Smirnova T.A. A broad-band traveling-wave maser for the range 40-46,5 GHz. *IEEE Trans. Microwave Theory Tech.* 1983. Vol.MTT-31, №3, P.306-309.	3	5	6
117	Sun L., **Barannik A.,** He Y., Glamazdin V., Zhang X., **Cherpak N.,** Wang J., Zolotaryov V. New Type of Microwave High-*Tc* SuperconductorMicrostrip Resonator and Its Application Prospects. *IEEE Trans. on Appl. Supercond.* 2017. Vol. 27, №3, P.1501304-1501304-4.	3	9	8
118	Skresanov V.N., **Barannik A.A., Cherpak N.T.,** He Y., Glamazdin V.V., Zolotaryov V.A., Shubny A.I., Sun L., Wang J., Wu Y. Experience in Developing Ka- Band Waveguide Filter with HTS E- Plant Insert. *Proc. International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-2013)*. (Kharkov, Ukraine, 23-28 June 2013) Kharkov, 2013. P.661-663.	3	4	5
119	He Y., **Barannik A., Cherpak N.,** Sun L., Skresanov V., Bian Y., Wang J., Natarov M. Zolotaryov V. Novel Design of Band-Pass Waveguide Filter with HTS E-Plane Insert. *IEEE Trans. on Appl. Supercond.* 2017. Vol. 27, №4, P.1501604-1501604-4.	3	6	10
120	**Prokopenko Yu.V.**, Filippov Yu.F., **Yakovenko V.M.** Excitation of Oscillations in a Hemispherical Dielectric Resonator by a Radial Magnetic Dipole. *Tech. Phys.* 2005. V.50, №5, P. 636–641.	2	1	2
121	**Averkov Yu.O.**, **Yakovenko V.M.** Nonlinear Oscillations of a Semiconductor Plasma with a Nonrelativistic Electron Beam. *Plasma Phys. Rep.* 2002. V.28, №5, P. 403–410.	2	2	2
122	Kirichenko, A.Ya., **Prokopenko, Yu.V.**, Filippov, Yu.F., **Cherpak, N.T.** Axially uniform azimuthal modes in anisotropic dielectric resonators. Soviet journal of communications technology & electronics. 1989. T. 34, № 13, C .55–59.	2	5	
123	Bunyaev S.A., **Cherpak N.T.** Conical Whispering Gallery Mode Resonator. *Proc. of the 35-th European Microwave Conf. (EuMC 2005)*. (Paris, France, 4-6 October, 2005): Paris, 2005. P. 1195–	2	3	

	1198.			
124	Protsenko I.A., **Barannik A.A., Cherpak N.T.**, Kharchenko M.S., Hlukhova H.O., Vitusevich S.A. Radiation Losses of Sapphire WGM Resonators: Effects of Dielectric Disk Shape. *Proc. of 45th European Microwave Conference (EuMC 2015)*. (Paris, France, 7-10 October 2015) Paris, 2015. P.960-963.	2	2	2
125	Wu Y., Luo S., Jiang X.B., Zhou F., Cao L.X., He Y.S., **Cherpak N.T.,** Skresanov V.N., **Barannik A.** Microwave Properties of $BaFe_{1.9}Ni_{0.1}As_2$ Superconducting Single Crystal. *J. Supercond. Novel Magn.* 2013. Vol.26, №4, P.1221-1225.	2	3	4
126	**Cherpak N.T., Barannik A.A.,** Prozorov R., Tanatar M.A., Velichko A.V. On the determination of the quasiparticle scattering rate in unconventional superconductors by microwave surface impedance. *Fizika Nizkikh Temperatur.* 2013. Vol. 39, №12, P.1423-1425.	2	5	7
127	**Shklovskij V.A.** Nonlinear flux creep resistivity and anisotropy of transport critical current in YBaCuO single crystals with unidirected twins. *Physica C.* 1994. Vol.235-240, P.3051-3052.	2	4	4
128	**Shklovskij V.A.**, Soroka A.A. Anisotropy of the critical current and the guided motion of vortices in a stochastic model of bianisotropic pinning. II. Observed effects. *Low Temp. Phys*. 2002. Vol.28, №5, P.312–320.	2	1	2
129	**Shklovskij V.A.** and Seo J.-T. Guided vortex motion and ratchet effect in an anisotropic superconductor with a periodic pinning potential. *Low Temp. Phys.* 2015. Vol.40, №12, P.1048-1057.	2	2	2
130	Bezuglyj A.I., **Shklovskij V.A.**, Kruglyak V.V., Vovk R.V. Spin Seebeck effecte and phonon energy transfer in heterostructures containing layers of a normal metal and a ferromagnetic insulator. *Phys. Rev. B*. 2019. V.99, №13, P.134428.	2	6	3
131	Shaforost E.N., **Barannik A.A.**, Klein N. Whispering-gallery mode resonators for liquid droplet detection. *Proc. International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-2007)*. (Kharkov, Ukraine, 26-29 June 2007). Kharkov, 2007. Vol.2, P.919-921.	2	4	5
132	Protsenko I.A., **Barannik A.A.**, **Gubin A.I.**, **Cherpak N.T.**, Offenhaeusser A., Vitusevich S.A. Accurate permittivity characterization of liquids by means of WGM resonator with microfluidic. *Proc. International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-2013)*. (Kharkov, Ukraine, 23-28 June 2013) Kharkov, 2013. P.538-540.	2	2	3
133	**Gubin A.I.**, Protsenko I.A., **Barannik A.A.**, Hlukhova H., **Cherpak N.T.**, Vitusevich S. Liquids Microwave Characterization Technique Based on Quartz WGM Resonator with Microfluidic Chip. *Proc. 48th European Microwave Conference (EuMC 2018)*. (Madrid, Spain, 23-27 September 2018). Madrid, 2018. P.206-209.	2	3	3
134	**Gubin A.I.**, **Cherpak N.T.**, **Lavrinovich A.A.**, Oganisian K.V. Temperature dependence of the microwave conductivity of a YBaCuO film in the normal state. *Low Temp. Phys.* 2007. Vol. 33№, №10, P.818-820.	1	8	5

135	Galaydych K.V., Lonin Y.F., Ponomarev A.G., **Prokopenko Yu.V.**, Sotnikov G.V., Uvarov V.T. Excitation of mm waves by high-current REB in dielectric resonator *Problems of Atomic Science and Technology*. 2012. Vol.58, №3, P.174–178.	1	3	3
136	**Averkov Yu.O.** Transition radiation of surface electromagnetic waves by electron bunches in a cylindrical waveguide. *Tech. Phys.* 2005. V. 50, №8, P. 1058–1061.	1	2	3
137	**Yakovenko V.M.**, Yakovenko I.V. Surface wave excitation in solids by magnetic dipoles. *Solid State Communications*. 1985. V.55, №10, P. 911–913.	1	1	1
138	**Barannik A.A.**, **Prokopenko Yu.V.**, Filipov Yu.F., **Cherpak N.T.** Finite End Screens Influence the Spectrum of Oscillations in Cylindrical Quasioptical Dielectric Resonators. *Tech. Phys. Lett.* 2003. V. 29, №7, P. 542–543.	1	1	1
139	**Prokopenko Yu.V.**, Filippov Yu.F., Shipilova I.A. Effect of a Ring Layer Filled with Various Substances on the Eigenfrequency and *Q*-Factor of a Cylindrical Quasi-Optical Dielectric Resonator. *Tech. Phys. Lett.* 2006. V.32, №4, P. 296–298.	1	1	3
140	**Prokopenko Yu.V.**, Filippov Yu.F., Shipilova I.A. Distribution of the Field of Whispering-Gallery Modes in a Radially Nonuniform Two-Layer Cylindrical Dielectric Resonator. *Radiophys. Quantum Electron.* 2008. V.51, №7, P. 561–570.	1	1	1
141	**Prokopenko Yu.V.**, Filippov Yu.F., Shipilova I.A. Effect of a Small Cylindrical Inhomogeneity on the Eigenfrequency of a Semicylindrical Dielectric Resonator Featuring an Axially Homogeneous Eigenmode. *Tech. Phys. Lett.* 2007. V.33, №9. P. 729–731.	1	1	2
142	**Barannik A.A., Cherpak N.T.,** Torohtiy K.I. and Vitusevich S. Slotted-Disk Sapphire Quasi-Optical Resonator with Conducting Endplates. *Proc. of 41th European Microwave Conference (EuMC 2011)*. (Manchester, United Kingdom, 10-13 October 2011) Manchester, 2011. P.830-833.	1	2	3
143	**Barannik A.A.**, Bunyaev S.A., **Cherpak N.T.** Whispering-Gallery-Mode Dielectric Resonators in the Form of a Cone. *Optical and Millimeter Technology Letters*. 2007. Vol. 49, №8, P.1987-1989.	1	1	2
144	Wu Y., Cui B., Luo S., Jiang X., Zhou F., Bian Y., He Y., **Barannik A.A., Cherpak N.T.**, and Skresanov V.N. A Unique Ka-Band Measurement System Based on Quasi-Optical Dielectric Resonator Technology for Studying Small Superconducting Samples. *IEEE Trans. on Appl. Supercond.* 2013. Vol. 23, №3, P.9000204-9000204-4.	1	3	4
145	**Cherpak N.T.**, Gawalek W., Golubnichaya G.V., **Gubin A.I.**, Kirichenko A.Ya., **Lavrinovich A.A.**, Litzkendorf D., Maximchuk I.G. High-frequency absorption in melt-textured high-Tc YBaCuO superconductors. *Physica C.* 2002. Vol.372-376, P.1123-1126.	1	2	2
146	Belevtsev B.I., **Cherpak N.T.**, Chukanova I.N., **Gubin A.I.**, Krasovitsky V.B., **Lavrinovich A.A.** Magnetic inhomogeneity efects in DC transport properties and microwave absorption of $La_{0.5}Sr_{0.5}CoO_{3-delta}$. *Physica E.* 2003. Vol.18, P.304-305.	1	2	4

147	Jin B.B., Dahm T., **Gubin A.I.**, Hyeong-Jin Kim, Eun-Mi Choi, Sung-Ik Lee, Kang W.N., Klein N. Observation of the coherence peak in MgB2 thin films. *Physica C.* 2004. Vol.408-410, P.79-80.	1	1	1
148	**Cherpak N., Barannik A.**, He Y., Sun L., Zhang X., Ma Y., Bian Y., Li G. On The Nature of Unusual Microwave Response of Thin $FeSe_{1-x}Te_x$ Film Near Critical Temperature. *IEEE Trans. on Appl. Supercond.* 2018. Vol. 28, №3, P.1501104-1501104-4.	1	4	3
149	**Shklovskij V.A.**, Soroka A.A. Odd resistive response in superconductors with bianisotropic pinning. *Low Temp. Phys*. 2003. Vol.29, №1, P.16–29.	1	1	3
150	**Shklovskij V.A.**, Dobrovolskiy O.V. Stochastic resonance of vortices in a washboard pinning potential. *Physica C.* 2014. Vol.503, P.128-131.	1	1	1
151	**Shklovskij, V.A.,** Dobrovolskiy, O.V. Huth, M. Noise-assisted microwave up-conversion by vortices in thin-film superconductors with a dc-biased washboard pinning potential. *J. Supercond. Novel Magn.* 2013. Vol.26, №5, P.2079-2083.	1	1	1
152	Dobrovolskiy O.V., Begun E., Huth M., **Shklovskij V.A.** Material composition - Pinning strength correlation in Nb thin films with focused ion beam-milled washboard nanostructures. *Physica C.* 2013. Vol.494, P.102-105.	1	1	1
153	**Shklovskij V.A.**, Dobrovolskiy O.V. Influence of point-like disorder on the guiding of vortices in a rotating current scheme. *Physica C.* 2007. Vol.460-462, P.1253-1254.	1	1	1
154	**Shklovskij V.A.** Hot electrons in metal films at low temperatures (Review). *Low Temp. Phys*. 2018. Vol.44, №3, P.165–183.	1	1	1
155	**Barannik A.A., Cherpak N.T.,** Protsenko I.A., Vitusevich S.A. Millimeter-Wave WGM Resonator-Based Characterization of Continuous and Noncontinuous Ultrathin Cu Films. *IEEE Microwave Wireless Compon. Lett.* 2019. Vol.29, №5, P.363-365.	1	3	2
156	**Gubin A.I.**, **Lavrinovich A.A.**, **Cherpak N.T.** Dielectric resonators with “whispering-gallery” waves in investigations of small-volume binary solutions. *Ukr. J. Phys.* 2006. Vol.51, №7, P.723-727.	1	4	4
157	**Barannik A.A., Cherpak N.T., Prokopenko Y.V.**, Torokhtiy K.I., Shaforost E.N., Vitusevich S.A. Two-Layered WGM Resonator-Based Technique for Microwave Characterization of Condensed Matter With Extremely High and Extremely Low Losses. *Proc. of 39th European Microwave Conference (EuMC 09)*. (Rome, Italy, 29 Sept.-1 Oct. 2009). Rome, 2009. P.1175-1178.	1	2	2
158	**Barannik A.A.**, **Cherpak N.T.**, **Gubin A.I.**, Protsenko I.A., Vitusevich S.A. WGM resonators with microfluidic channel for sub-mm wave characterization of biological liquids. *Proc. of the German Microwave Conference (GeMiC 2016)*. (Bochum, Germany, 14-16 March 2016) Bochum, 2016. P.15.	1	3	2
159	1 Bunyayev S., **Barannik A.**, and **Cherpak N.** Whispering gallery modes in dielectric substrate under a metal disc. *Proc. of the 37-th European Microwave Conf. (EuMC 2007)*. (Munich, Germany, 8-11 October, 2007): Munich, 2007. P. 961–963.	1	1	1

160	Chupikov P.T., Dikij N. P., Medvedev D.V., Onischenko I.N., **Prokopenko Yu.V.** Pushkarev S.S. Acceleration of ions a high-current relativistic electron beam at external injection of plasma. *Ukr. J. Phys.* 2008. V.53, №7, P. 640–644.	1	1	3
161	Medvedev D.V., Onischenko N.I., Panasenko B.D., **Prokopenko Yu.V.**, Pushkarev S.S., Chupikov P.T. Ion acceleration in plasma injected into spatiotemporally modulated supercritical relativistic electron beam. *Tech. Phys. Lett.* 2008. V.34, №9, P. 789–791.	1	1	2
162	**Shklovskiĭ V.A.**, Kuz'menko V.M. Explosive crystallization of amorphous substances. *Soviet Physics – Uspekhi*. 1989, Vol.32, №2, P.163–180.		34	48
163	**Barannik A.A.,** Bunyaev S.A., **Cherpak N.T.** Accuracy and Sensitivity of Surface Resistance Measurements of High-Temperature Superconductor Films Using Quasioptical Dielectric Resonators. *Telecommun. Radio Eng.* 2003. Vol.60, №5-6, P.127-137.		17	
164	**Cherpak N.T.**, **Gubin A.I.**, **Lavrinovich A.A.** Microwave Reflectivity of HTS Film – Dielectric Substrate Structure at Arbitrary Incidence Angles. *Telecommun. Radio Eng.* 2001. Vol.55, №3, P.81-89.		17	16
165	**Cherpak N.T.**, Skresanov V.N. Glamazdin V.V. The novel approach to coupled mode parameters recovery from microwave resonator amplitude-frequency response. *Proc. of 41th European Microwave Conference (EuMC 2011)*. (Manchester, United Kingdom, 10-13 October 2011) Manchester, 2011. P.826-829.		15	21
166	**Barannik A.A.**, **Prokopenko Yu.V.**, Filippov Yu.F., **Cherpak N.T.** Application of Quasi-Optical Dielectric-Filled Resonators for Measuring Microwave Characteristics of Dielectric and Conducting Materials. *Telecommun. Radio Eng.* 2001. V.55, №12, P. 81–90.		13	3
167	**Averkov Yu.O., Prokopenko Yu.V., Yakovenko V.M.** The instability of hollow electron beam interacting with plasma-like medium. *Telecommun. Radio Eng.* 2016. V. 75, №16, P. 1467–1482.		11	17
168	**Cherpak N.T.**, Kalenyuk A.A., **Lavrinovich A.A**., Pan V.M., **Gubin A.**I., Khramota E., Kurakin, A. A., Vitusevich S.A. DC-biased coplanar waveguide on the basis of high-Tc superconducting thin film with nonlinear impedance. *Telecommun. Radio Eng. 2010*. Vol. 69, №15, P. 1357-1364.		11	15
169	Bondarenko I.N., **Lavrinovich A.A.** Investigation of the Thin-Film High-Temperature Superconductivity Coplanar Line. *Telecommun. Radio Eng.* 2007. Vol.66, №7, pp.597-605.		11	10
170	Bezuglyĭ A.I., **Shklovskiĭ V.A.** The kinetics of low-temperature electron-phonon relaxation in a metallic film following instantaneous heating of the electrons. *J. Exp. Theor. Phys.* 1997. Vol.84, №6, P.1149–1163.		9	
171	**Barannik A.A.**, Bunyaev S.A., **Cherpak N.T.** Hemispherical quasi-optical dielectric resonators as possible sensors for impendence measurement of superconductors. *Proc. International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-*		8	11

	2004). (Kharkov, Ukraine, 21-26 June 2004). Kharkov, 2004. Vol.1, P.430-432.			
172	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V.M.** Interaction a flow of charged particles with eigenmodes of a dielectric cylinder. *Telecommun. Radio Eng. 2017*. V.76, №18, P. 1595–1611.		7	12
173	**Averkov Yu.O.** Transition radiation by an electron bunch that crosses the vacuum/left-handed material interface. *Telecommun. Radio Eng.* 2005. V.63, №2-6, P. 419–433.		7	7
174	**Lavrinovich A.A.**, Khramota E.V., **Cherpak N.T**. Investigation of the Superconducting Microwave Transmission Line in Strong Electromagnetic Fields. *Telecommun. Radio Eng*. 2009. Vol. 68, №19, P. 1741-1750.		7	13
175	**Cherpak N.T.**, **Lavrinovich A.A.**, **Gubin A.I.** Microwave reflectivity of the HTS oblique plate in a waveguide. *Telecommun. Radio Eng.* 1999. Vol.53, №11, P.39-41.		6	5
176	Obolenskii M.A., Bondarenko A.V., **Shklovskii V.A.**, Vovk R.V., Prodan A.A. Resistive studies of creep controlled by plastic deformation of a vortex lattice. *Low Temp. Phys*. 1998. Vol.24, №1, P.53–55.		5	8
177	Makovetskii D.N, **Lavrinovich A.A., Cherpak N.T.** Branching of stationary inversion states in a cavity-pumped paramagnetic maser amplifier. *Tech. Phys.* 1999. Vol. 44, №5, P.570-574.		5	8
178	Khankina S.I., **Yakovenko V.M.**, Yakovenko I.V. Surface Plasma Waves at a Rough Interface of a Solid. *Radiophys. Quantum Electron.* 2002. V.45, №10, P.813-819.		4	6
179	Dormidontov A.V., **Prokopenko Yu.V.**, Khankina S.I., **Yakovenko V.M.** Energy Loss of a Charged Particle Moving Along the Helical Path. *Telecommun. Radio Eng.* 2014. V. 73, №13, P. 1165–1189.		4	5
180	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V.M.** Helicons in Solid-State Plasma of Cylindrical Configuration. *2020 IEEE Ukrainian Microwave Week (UkrMW)* (Kharkiv, Ukraine, 21–25 Sept. 2020): Kharkiv, 2020. P. 1006–1009.		4	4
181	**Barannik A.A.**, **Prokopenko Yu.V.**, Smirnova T.A., Filipov Yu.F., **Cherpak N.T.** A Quasi-Optical Dielectric Ring-Resonator With Conducting Endplates. *Telecommun. Radio Eng.* 2003. V.60, №7, 8 & 9, P. 48–54.		4	6
182	**Barannik A.A., Cherpak N.T**., He Y., Sun L., Zhang X., Vovnyuk M.V., and Wu Y. Microwave response of cavity resonator with thin superconductor film depending on film temperature and orientation. *Low Temp. Phys.* 2018. Vol. 44, №3, P.326-331.		4	7
183	**Barannik A.A., Cherpak N.T.,** and Stetsenko A.N. Microwave losses in a quasioptical dielectric resonator as a function of ultra-thin conducting endplate thickness. *Telecommun. Radio Eng.* 2006. Vol.65, №19, pp.1783-1788.		4	4
184	Shaforost E.N., **Barannik A.A.**, Vitusevich S., Offenhäusser A. Open WGM dielectric resonator technique for characterization of nL-volume liquids. *Proc. 38th European Microwave Conference Proceedings (EuMC 2008)*. (Amsterdam, Netherland, 28-30 October 2008). Amsterdam, 2008. P. 1129-1132.		4	5

185	**Gubin A.**, **Lavrinovich A.**, Protsenko I., **Barannik A.**, Vitusevich S. WGM dielectric resonator with capillary for microwave characterization of liquids. *Telecommun. Radio Eng.* 2019. Vol.78, №18, P.1651-1657.		4	4
186	Dormidontov A.V., **Prokopenko Yu.V.**, Khankina S.I., **Yakovenko V.M.** Energy Loss of Charged Particle on the Eigenmode Excitation in Cylindrical Structures with Two-Dimensional Electron Gas. *Telecommun. Radio Eng.* 2016. V.75, №6, P. 507-525.		3	14
187	Dormidontov A.V., **Prokopenko Yu.V.**, **Yakovenko V.M.** Charged particle energy loss on the wave excitation in the semiconductor cylinder with twodimensional electron gas on the side surface. *Telecommun. Radio Eng.* 2016. V. 75, №3, P. 201–213.		3	4
188	**Averkov Yu.O.**, **Prokopenko Yu.V.**, **Yakovenko V.M.** Nonlinear theory of interaction between a tubular beam of charged particles and potential surface waves of plasma cylinder. *Telecommun. Radio Eng.* 2019. V.78, №7, P. 633–649.		3	4
189	**Gubin A.I.**, **Lavrinovich A.A.**, **Cherpak N.T.** Application of Disk-Containing Quasioptical Dielectric Cavity Resonators for Investigating Two-Component Aqueous Solutions in Small Volumes. *Telecommun. Radio Eng.* 2006. Vol.65, №10, P.937-947.		3	
190	**Barannik A.A.**, **Prokopenko Yu.V.** Axial Index of "Whispering Gallery" Oscillations in Disk Dielectric Resonator. *Telecommun. Radio Eng.* 2002. V.57, №6&7, P. 73–77.		2	1
191	**Barannik A.A., Cherpak N.T.** Filipov Yu.F. MM Wave Sapphire Quasi-Optical Resonator with Conducting and Superconducting Endplates. *Proc. International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-2001)*. (Kharkov, Ukraine, 4-9 June 2001). Kharkov, 2001. Vol.1, P.360-362.		2	2
192	**Barannik A.A.,** Vitusevich S.A., Protsenko I.A., Kharchenko M.S., **Cherpak N.T.** Radiation Q-factor of differentshape dielectric resonators with tested conductors and liquid dielectric. *Telecommun. Radio Eng.* 2016. Vol.75, №3, P.235-245.		2	8
193	**Cherpak Nickolay (Mykola) T., Barannik Alexander A., Gubin Alexey I.** WGM Resonator-Based Measurement Technique for Weakly and Highly Absorbing Substances. *Proc. International Conference on Microwaves, Radar, and Wireless Communication (MIKON 2014)*. p. 1-4, 2014.		2	2
194	**Barannik A., Gubin A.**, Protsenko I., Vovnyuk M., **Cherpak N.** On wgm resonator technique for microwave characterization of superconductors in normal state. *Telecommun. Radio Eng.* 2019. Vol.78, №17, P.1559-1566.		2	2
195	**Gubin A.I.**, **Cherpak N.T.**, **Lavrinovich A.A.** MM Wave Conductivity Measurement Technique by Grazing Incidence Reflectivity. *Proc. 38th European Microwave Conference Proceedings (EuMC 2008).* (Amsterdam, Netherland, 28-30 October 2008). Amsterdam, 2008. P.1074-1076.		2	2
196	**Cherpak N.T.**, **Gubin A.I.**, **Lavrinovich A.A.** Rectangular microwaveguide with high-Tc superconducting wall. *Proc.*		2	2

	International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-2007). (Kharkov, Ukraine, 26-29 June 2007). Kharkov, 2007. Vol.1, P.392-394.			
197	**Barannik A., Cherpak N**., Ni N., Tanatar M. A., Vitusevich S., Torokhtii K., Skresanov V., Canfield P.C., Prozorov R. Microwave Impedance Properties of Single Crystal $Ba(Fe_{1-x}Co_x)As_2$. *Proc. International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter waves (MSMW-2010)*. (Kharkov, Ukraine, 21-26 June 2010). Kharkov, 2010. Vol.1, P. B10-B12.		2	
198	Melnyk S.I., Melnyk S.S., **Lavrinovich A.A., Cherpak N.T.** To the Phenomenological theory of Avalanche-Like Effect in DC-Biased Microwave Nonlinear HTS Transmission Line. *Ukr. Phys. J.* 2019. Vol.64, №10, pp.962-968.		2	4
199	**Cherpak N.T.**, **Gubin A.I.**, **Lavrinovich A.A.** Extremely Small-Height Rectangular Waveguide with Impedance Walls. *Proc. 37th European Microwave Conference Proceedings (EuMC 2007)*. (Munich, Germany, 8-12 October 2007) Munich, 2007. P. 1272-1274.		1	
200	Taraban S.I., **Gubin A.I.**, **Lavrinovich A.A.**, **Cherpak N.T.** Microwave Reflection in Rectangular Waveguide from Conductive Samples Located on Inclined Flange with Microchannel. *Telecommun. Radio Eng.* 2011. Vol.70, №.11, P.959-972.		1	2
201	**Prokopenko Yu.V.**, Filipov Yu.F. Influence of the Finite Conductivity of the End Walls on the Spectrum and Power Characteristics of the Anisotropic Dielectric Circular-Disk Resonator. *Telecommun. Radio Eng.* 2003. V.60, №7, 8 & 9, P. 23–29.		1	1
202	**Prokopenko Yu.V.**, Filippov Yu.F., Shipilova I.A. Radial Three-Layered Dielectric Resonator with Perfect Conducting End Walls. *Telecommun. Radio Eng.* 2007. V.66, №1, P. 23–33.		1	1
203	**Prokopenko Yu.V.**, Suvorova O.A., Filippov Yu.F., Shipilova I.A. Natural oscillations of radially three-layered dielectric resonators. *Radioelectron. Commun. Syst.* 2009. V.52, №1, P. 7–15.		1	2
204	Litvinenko V.S., **Prokopenko Yu.V.**, Filipov Yu.F. Surface Electromagnetic Oscillations in a Semiconductor Sphere. *Telecommun. Radio Eng*. 2003. V.60, №3&4, P. 24–29.		1	
205	**Barannik, A.A.**, Bunyaev, S.A., **Cherpak, N.T.** Cone-shaped quasioptical dielectric resonators. *Telecommun. Radio Eng.* 2007. Vol.66, №7, P.577-586.		1	2
206	**Cherpak N.T.**, **Gubin A.I.**, **Lavrinovich A.A.**, Gawalek W., Litzkendorf D. Microwave bulk properties of melt-textured high-TC YBa2Cu3O7−δ superconductors. *Supercond. Sci. Technol.* 2004. Vol.17, P.645–648.		1	2
207	**Barannik A.A., Cherpak N.T.,** Wu Y., Zhang, X.Q., Wang, J., Dong, X.L., Sun, L., He, Y.S. Microwave impedance study of superconducting $(Li_{1-x}Fe_x)$OHFeSe single crystal. *Journal of Physics: Conference Series*. 2020. №1559(1), P.012054.		1	1

208	Melnyk S.I., Melnyk S.S., **Lavrinovich A.A., Cherpak N.T.** Catastrophe theory in the phenomenological description of the avalanche effect in DC-biased microwave HTSC transmission lines. *Low Temp. Phys.* 2020. Vol. 46, P.358-364.		1	3
209	**Barannik A.A.,** Vitusevich S.A., Protsenko I.A. Two-layered quasioptical sapphire resonator for dielectrometry of bioliquids. *Telecommun. Radio Eng.* 2017. Vol.76, №15, p.1359-1366.		1	1
210	Mishenko V.V., **Cherpak N.T**. Inversion ratio in trivalent-irondoped andalusite in the Q and V- bands. *Journ. de Phisique-Lettres.* 1981. Vol.42, №6, P.145-146.		1	3
211	**Barannik A.A.**, Vitusevich S.A., **Gubin A.I.**, Protsenko I.A., **Cherpak N.T.** The measuring cell based on the quartz quazioptical resonator for research on dielectric liquids in the sub-THz range. *Telecommun. Radio Eng.* 2016. Vol.75, №17, p.1583-1590.		1	
212	Гадецкий Н.П., Магда И.И., Найстетер С.И., **Прокопенко Ю.В.**, Чумаков В.И. Генератор на сверхкритическом токе РЭП с управляемой обратной связью — виртод. *Физика плазмы*. 1993. Т.19, №4, С. 530–537.			34
213	**Cherpak N. T., Barannik A.A., Prokopenko Yu.V.**, Smirnova T.A., Filipov Yu.F. A new technique of dielectric characterization of liquids. *Nonlinear dielectric phenomena in complex liquids* / under editors S. J. Rzoska & V. P. Zhelezny, NATO Science Series: Kluwer Academic Publishers, 2004. Vol.157, P. 63–76.			24
214	**Averkov Yu.O.** Oblique surface Josephson plasma waves in layered superconductor. *Telecommun. Radio Eng.* 2013. V.72, №14, P. 1297–1319.			18
215	**Черпак Н. Т.**, Величко А . В. Высокотемпературные сверхпроводники в микроволновой технике (обзор). Успехи совр. Радиоэлектрон. 2000. № 4, С. 3–47.			11
216	Канер Э.А., **Яковенко В.М.** Гидродинамические неустойчивости в твердотельной плазме. *УФН*. 1975. Т.115, №1, С. 41–72.			9
217	Белецкий Н.Н., Тетервов А.П., **Яковенко В.М.** Непотенциальные поверхностные волны в магнитоактивной плазме полупроводника. *ФТП*. 1972. Т.6, №11, С. 2129–2133.			8
218	1 **Shklovskij V. A.** and Dang Thi Bich Hop. Effect of the transport current on microwave absorption by vortices in type-ii superconductors. *Low Temp. Phys*. 2009. Vol.35, №5, P.365–369.			8
219	Averkov Yu.O., Yakovenko V.M. Excitation of Surface Electrostatic Waves in Semibounded Layered Superconductors by a Nonrelativistic Electron Beam. *Tech. Phys.* 2009. V.54, №5, P. 690–697.			4
220	**Kirichenko A.Y., Prokopenko Y.V.**, **Suvorova O.A., Filippov Y.F.** Radially Two-Layer Sphere as a Sensor of Dielectric Characteristics of a Liquid into which it is Submerged. *Telecommun. Radio Eng.* 2010. V.69, №18, P. 1661–1672.			3
221	**Черпак Н.Т.** Амплитудно-частотная характеристика квантовых парамагнитных усилителей бегущей волны миллиметрового диапазона. *Радиотехника и электроника*.			3

	1982. Т.27, №4, С.776-780.			
222	**Черпак Н.Т.** Квантовые усилители миллиметрового диапазона длин волн (обзор). *Изв. вузов Радиофизика*. 1984. Т.27, №7, С.815-851.			3
223	**Лавринович А.А**., Смирнова Т.А., **Черпак Н.Т**., Шестопалов В.П. Мазерное усиление в средневолновой части мм диапазона с расширенной мгновенной полосой. *Докл. АН СССР*. 1987. Т.297, №4, С. 857-859.			3
224	**Черпак Н.Т**., Мышенко В.В., Песковацкий С.А., Смирнова Т.А. Квантовый парамагнитный усилитель бегущей волны на андалузите в мм диапазоне длин волн. *Докл. АН УССР*. 1980. №2, С.69-71.			3
225	**Аверков Ю.О.**, **Прокопенко Ю.В.**, **Яковенко В.М.** Спектри власних хвиль плазмового твердотільного циліндра в сильному поздовжньому магнітному полі. *Радіофізика та електроніка*. 2021. Т.26, №2, С. 37–45.			2
226	**Прокопенко Ю.В.**, Смирнова Т.А., Филиппов Ю.Ф., Матяш О.А. Радиально двухслойный квазиоптический диэлектрический резонатор для диэлектрометрии. *Вопросы атомной науки и техники*. 2004. №4, С. 93–96.			2
227	Kirichenko A.Ya., Lutsenko V.I., Filippov Yu.F., **Prokopenko Yu.V.**, Krivenko H.V. Temperature-dielectric spectroscopy of aqueous solutions using the method of capillary-waveguide resonance. *Radiophys. Quantum Electron*. 2008. V.51, №8, P. 643–648.			2
228	**Barannik A.A., Cherpak N.T**., Kharchenko M.S., Vitusevich S. Hemispherical and aspheric WGM dielectric resonators with conducting plane: Radiation and conductivity losses. *Радиофизика и электроника*. 2013. Т.4(18), №4, С.49-54.			2
229	Кириченко А.Я., **Лавринович А.А.**, **Черпак Н.Т.** Електродинамічні особливості квазіоптичних діелектричних резонаторів з капіляром, заповненим рідиною з великими втратами. *Доповіді НАН України.* 2005. №8, С.72-76.			2
230	**Черпак Н.Т.** Квантовые усилители (мазеры) распределенного типа в миллиметровом диапазоне волн. Киев: Наукова думка. 1996. 213 с.			2
231	Стеценко А.И., **Черпак Н.Т.** Мазерное усиление в рубине в высоких магнитных полях. *Письма в ЖТФ.* 1981. Т.7, №2, С.105-108.			2
232	Смирнова Т.А., **Черпак Н.Т**. Невзаимный элемент на основе текстурованных гексаферритов в квантовых усилителях мм диапазона. *Изв. вузов. Радиофизика.* 1983. Т.26, №1, С.120-125.			2
233	**Черпак Н.Т.,** Смирнова Т.А. Гиромагнитное возмущение замедляющей структуры в квантовом усилителе мм диапазона. *Радиотехника и электроника*. 1985. Т.30, №7, С.1384-1390.			2
234	**Черпак Н.Т**., **Лавринович А.А**., Мышенко В.В., Смирнова Т.А. Исследование замедляющей структуры типа штыревой гребенки для квантовых усилителей мм диапазона. *Изв. вузов. Радиоэлектроника*. 1981. Т.24, №12, С.9-14.			2

235	Ревин И.Д., Скрынник Б.К., **Черпак Н.Т**., Шестопалов В.П. Генераторы дифракционного излучения в квантовой радиофизике миллиметрового диапазона волн. Харьков: ИРЭ АН УССР. *Препринт №267*. 1985, 26 с.			2
236	**Лавринович А.А., Черпак Н.Т**. Предельное значение мгновенной полосы усиления при поперечной расстройке магнитного поля в квантовых усилителях. *Изв. вузов Радиоэлектроника*. 1987. Т.30, №1, С.76-78.			2
237	**Черпак Н.Т**. Усиление и поглощение електромагнтной волны в замедляющей структуре с парамагнитным кристаллом. *Изв. Вузов. Радиофизика*. 1979. Т.22, №7, с.815-825.			2
238	Ворсуль К.В., Смирнова Т.А., **Черпак Н.Т**. Андалузит как активное вещество для квантовых усилителей бегущей волны в 3 мм диапазоне. *Изв. вузов. Радиофизика.* 1986. Т.29, №7, С.838-844.			2
239	**Cherpak N.T., Lavrinovich A.A.**, Smirnova T.A., Haldar P., Hazelton D. HTS Bi-2223/Ag tape – based Troxel magnetic system, *Cryogenics*, 1999. Vol. 39, №9, P. 791-793.			1
240	**Cherpak N.T.**, **Barannik A.A.**, Filipov Yu.F., **Prokopenko Yu.V.**, Smirnova T.A. Frequency spectrum evolution of quasi-optical dielectric resonators with conducting endplates. *Telecommun. Radio Eng.* 2002. V.57, №12, P. 46–55.			1
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