

Kostiantyn Torokhtii

List of Publications by Year in descending order

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55
papers

470
citations

840776

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h-index

888059

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g-index

55
all docs

55
docs citations

55
times ranked

233
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric Resonators for the Measurements of the Surface Impedance of Superconducting Films. Measurement Science Review, 2014, 14, 164-170.	1.0	42
2	Anisotropy and directional pinning in YBa ₂ Cu ₃ O _{7-δ} with BaZrO ₃ nanorods. Applied Physics Letters, 2013, 103, .	3.3	28
3	Challenging microwave resonant measurement techniques for conducting material characterization. Measurement Science and Technology, 2019, 30, 065601.	2.6	26
4	Thermodynamic nature of the T_c transition in superconductor/ferromagnet/superconductor trilayers. Physical Review B, 2014, 90, .	3.2	23
5	Fitting strategy of resonance curves from microwave resonators with non-idealities. , 2017, , .		23
6	Wideband Surface Impedance Measurements in Superconducting Films. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1120-1129.	4.7	14
7	Surface impedance measurements in thin conducting films: Substrate and finite-thickness-induced uncertainties. , 2017, , .		14
8	Intrinsic anisotropy and pinning anisotropy in nanostructured YBa ₂ Cu ₃ O _{7-δ} from microwave measurements. Superconductor Science and Technology, 2020, 33, 044017.	3.5	14
9	Surface Impedance Measurements on Nb ₃ Sn in High Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	13
10	Superconducting and Structural Properties of Nb/PdNi/Nb Trilayers. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1939-1943.	1.8	12
11	Analysis of Transport Properties of MOD YBCO Films With BaZrO ₃ as Artificial Vortex Pinning Centers. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	12
12	Microwave measurements of the high magnetic field vortex motion pinning parameters in Nb ₃ Sn. Superconductor Science and Technology, 2021, 34, 014003.	3.5	12
13	Millimeter-Wave Surface Impedance Characterization of HTS Films and Single Crystals Using Quasi-Optical Sapphire Resonators. IEEE Transactions on Applied Superconductivity, 2011, 21, 591-594.	1.7	11
14	Vortex motion in Nb/PdNi/Nb trilayers: New aspects in the flux flow state. Physica C: Superconductivity and Its Applications, 2012, 479, 140-142.	1.2	11
15	Directional pinning and anisotropy in YBa ₂ Cu ₃ O _{7-δ} with BaZrO ₃ nanorods: Intrinsic and nanorods-induced anisotropy. Physica C: Superconductivity and Its Applications, 2014, 503, 146-149.	1.2	11
16	Robustness of the T_c transition against compositional and structural ageing in superconductor/ferromagnetic/superconductor heterostructures. Physical Review B, 2015, 92, .	3.2	11
17	Microwave Properties of Nb/PdNi/Nb Trilayers. Journal of Superconductivity and Novel Magnetism, 2013, 26, 571-574.	1.8	10
18	Measurement of Vortex Pinning in YBCO and YBCO/BZO Coated Conductors Using a Microwave Technique. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	10

#	ARTICLE	IF	CITATIONS
19	Microwave properties of Fe(Se,Te) thin films in a magnetic field: pinning and flux flow. Journal of Physics: Conference Series, 2020, 1559, 012055.	0.4	10
20	Optimization of Q-factor and resonance frequency measurements in partially calibrated resonant systems. Measurement: Sensors, 2021, 18, 100314.	1.7	10
21	Pinning properties of FeSeTe thin film through multifrequency measurements of the surface impedance. Superconductor Science and Technology, 2020, 33, 114006.	3.5	10
22	Design and test of a microwave resonator for the measurement of resistivity anisotropy. Measurement: Journal of the International Measurement Confederation, 2017, 98, 414-420.	5.0	9
23	Microwave Measurements of Pinning Properties in Chemically Deposited YBCO/BZO Films. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	9
24	Physics of vortex motion by means of microwave surface impedance measurements (Review article). Low Temperature Physics, 2020, 46, 343-347.	0.6	9
25	Characterisation of dielectric 3D-printing materials at microwave frequencies. Acta IMEKO (2012), 2020, 9, 26.	0.7	9
26	Millimeter-wave study of London penetration depth temperature dependence in Ba(Fe _{0.926} Co _{0.074}) ₂ As ₂ single crystal. Low Temperature Physics, 2011, 37, 725-728.	0.6	7
27	Angular dependence of the high-frequency vortex response in YBa ₂ Cu ₃ O _{7-x} thin film with self-assembled BaZrO ₃ nanorods. Physica C: Superconductivity and Its Applications, 2012, 479, 160-163.	1.2	7
28	Measurement of Vortex Parameters and Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ With BaZrO_3 Nanoinclusions. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	7
29	Q-factor of microwave resonators: calibrated vs. uncalibrated measurements. Journal of Physics: Conference Series, 2018, 1065, 052027.	0.4	7
30	Vortex pinning properties at dc and microwave frequencies of YBa ₂ Cu ₃ O _{7-x} films with nanorods and nanoparticles. Superconductor Science and Technology, 2020, 33, 074006.	3.5	7
31	A rectangular dielectric resonator for measurements of the anisotropic microwave properties in planar conductors. Measurement Science and Technology, 2014, 25, 025601.	2.6	6
32	Frequency span optimization for asymmetric resonance curve fitting. , 2021, , .		6
33	Pinning, Flux Flow Resistivity, and Anisotropy of Fe(Se,Te) Thin Films From Microwave Measurements Through a Bitonal Dielectric Resonator. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	6
34	Estimation of microwave resonant measurements uncertainty from uncalibrated data. Acta IMEKO (2012), 2020, 9, 47.	0.7	6
35	Directional Vortex Pinning at Microwave Frequency in YBa ₂ Cu ₃ O _{7-x} Thin Films with BaZrO ₃ Nanorods. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2093-2097.	1.8	5
36	Extraction of the Complex Resistivity and Pinning Parameters from Microwave Surface Impedance Measurements of Coated Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	4

#	ARTICLE	IF	CITATIONS
37	Microwave investigation of pinning in Te- and cubic-BN- added MgB ₂ . Journal of Physics: Conference Series, 2020, 1559, 012039.	0.4	4
38	A method based on a dual frequency resonator to estimate physical parameters of superconductors from surface impedance measurements in a magnetic field. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109937.	5.0	4
39	Surface Impedance Measurements in Superconductors in DC Magnetic Fields: Challenges and Relevance to Particle Physics Experiments. IEEE Instrumentation and Measurement Magazine, 2021, 24, 12-20.	1.6	4
40	Growth and Characterization of La ₂ Zr ₂ O ₇ Buffer Layers Deposited by Chemical Solution Deposition. Physics Procedia, 2012, 36, 1552-1557.	1.2	3
41	Critical Current and Vortex Pinning Properties in YBa ₂ Cu ₃ O _{7-x} Films With Ba ₂ YTaO ₆ + Ba ₂ YNbO ₆ and BaZrO ₃ Nano-inclusions by DC Transport and Microwave Measurements. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	3
42	Sensitivity limits comparison of surface resistance measurements based on dielectric loaded resonators. Journal of Physics: Conference Series, 2018, 1065, 052029.	0.4	3
43	Vortex Pinning and Flux Flow Microwave Studies of Coated Conductors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
44	High frequency vortex dynamics in YBa ₂ Cu ₃ O _{7-x} with Ba ₂ YTaO ₆ -Ba ₂ YNbO ₆ nanodefects. Journal of Physics: Conference Series, 2020, 1559, 012043.	0.4	3
45	Superconductors in a DC magnetic field: Parameters derived from microwave measurements. , 2015, , .		2
46	Dielectric-resonator-based measuring devices: Relevance of the dielectric quality. , 2017, , .		2
47	The intrinsic surface impedance of coated conductors. Journal of Physics: Conference Series, 2018, 1065, 052018.	0.4	2
48	High precision and contactless dielectric loaded resonator for room temperature surface resistance measurements at microwave frequencies. , 2022, , .		2
49	Cryogenic microwave wideband measurements of superconducting thin films. , 2015, , .		1
50	Superfluid Density and Vortex Dynamics in S/F/S Heterostructures. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1097-1101.	1.8	1
51	Impact of Superconductors's Properties on the Measurement Sensitivity of Resonant-Based Axion Detectors. Instruments, 2022, 6, 1.	1.8	1
52	A system to measure the complex permittivity of 3D-printing materials. , 2022, , .		1
53	Microwave impedance properties of single crystal Ba(Fe _{1-x} X ₂) ₂ As ₂ . , 2010, , .		0
54	Transport properties of Nb/PdNi/Nb trilayers at microwave frequencies. , 2013, , .		0

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55	Preliminary design of a scanning resonant cell for beam screen surface impedance measurements. , 2022, , .		0