

# Kostiantyn Torokhtii

## List of Publications by Year in descending order

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55  
papers

470  
citations

840776

11  
h-index

888059

17  
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all docs

55  
docs citations

55  
times ranked

233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Superconductorsâ€™ Properties on the Measurement Sensitivity of Resonant-Based Axion Detectors. Instruments, 2022, 6, 1.	1.8	1
2	A system to measure the complex permittivity of 3D-printing materials. , 2022, , .		1
3	Preliminary design of a scanning resonant cell for beam screen surface impedance measurements. , 2022, , .		0
4	High precision and contactless dielectric loaded resonator for room temperature surface resistance measurements at microwave frequencies. , 2022, , .		2
5	Frequency span optimization for asymmetric resonance curve fitting. , 2021, , .		6
6	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
7	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
8	Optimization of Q-factor and resonance frequency measurements in partially calibrated resonant systems. Measurement: Sensors, 2021, 18, 100314.	1.7	10
9	Microwave measurements of the high magnetic field vortex motion pinning parameters in Nb <sub>3</sub> Sn. Superconductor Science and Technology, 2021, 34, 014003.	3.5	12
10	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
11	Microwave investigation of pinning in Te- and cubic-BN- added MgB2. Journal of Physics: Conference Series, 2020, 1559, 012039.	0.4	4
12	High frequency vortex dynamics in YBa2Cu3O7âˆ’x with Ba2YTaO6-Ba2YNbO6 nanodefects. Journal of Physics: Conference Series, 2020, 1559, 012043.	0.4	3
13	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
14	Vortex pinning properties at dc and microwave frequencies of YBa2Cu3O7-x films with nanorods and nanoparticles. Superconductor Science and Technology, 2020, 33, 074006.	3.5	7
15	Physics of vortex motion by means of microwave surface impedance measurements (Review article). Low Temperature Physics, 2020, 46, 343-347.	0.6	9
16	Intrinsic anisotropy and pinning anisotropy in nanostructured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7âˆ’x</sub> from microwave measurements. Superconductor Science and Technology, 2020, 33, 044017.	3.5	14
17	Pinning properties of FeSeTe thin film through multifrequency measurements of the surface impedance. Superconductor Science and Technology, 2020, 33, 114006.	3.5	10
18	Estimation of microwave resonant measurements uncertainty from uncalibrated data. Acta IMEKO (2012), 2020, 9, 47.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Characterisation of dielectric 3D-printing materials at microwave frequencies. Acta IMEKO (2012), 2020, 9, 26.	0.7	9
20	Vortex Pinning and Flux Flow Microwave Studies of Coated Conductors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
21	Challenging microwave resonant measurement techniques for conducting material characterization. Measurement Science and Technology, 2019, 30, 065601.	2.6	26
22	Surface Impedance Measurements on Nb <sub>3Sn</sub> in High Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	13
23	Critical Current and Vortex Pinning Properties in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Films With Ba <sub>2</sub> YTaO <sub>6</sub> + Ba <sub>2</sub> YNbO <sub>6</sub> and BaZrO <sub>3</sub> Nanoinclusions by DC Transport and Microwave Measurements. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	3
24	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
25	Q-factor of microwave resonators: calibrated vs. uncalibrated measurements. Journal of Physics: Conference Series, 2018, 1065, 052027.	0.4	7
26	Sensitivity limits comparison of surface resistance measurements based on dielectric loaded resonators. Journal of Physics: Conference Series, 2018, 1065, 052029.	0.4	3
27	The intrinsic surface impedance of coated conductors. Journal of Physics: Conference Series, 2018, 1065, 052018.	0.4	2
28	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
29	Microwave Measurements of Pinning Properties in Chemically Deposited YBCO/BZO Films. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	9
30	Fitting strategy of resonance curves from microwave resonators with non-idealities. , 2017, , .		23
31	Dielectric-resonator-based measuring devices: Relevance of the dielectric quality. , 2017, , .		2
32	Surface impedance measurements in thin conducting films: Substrate and finite-thickness-induced uncertainties. , 2017, , .		14
33	Wideband Surface Impedance Measurements in Superconducting Films. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1120-1129.	4.7	14
34	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
35	Analysis of Transport Properties of MOD YBCO Films With BaZrO <sub>3</sub> as Artificial Vortex Pinning Centers. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	12
36	Robustness of the $T_c$ transition against compositional and structural ageing in superconductor/ferromagnetic/superconductor heterostructures. Physical Review B, 2015, 92, .	3.2	11

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37	Cryogenic microwave wideband measurements of superconducting thin films. , 2015, , .		1
38	Superconductors in a DC magnetic field: Parameters derived from microwave measurements. , 2015, , .		2
39	Superfluid Density and Vortex Dynamics in S/F/S Heterostructures. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1097-1101.	1.8	1
40	Measurement of Vortex Parameters and Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ With $\text{BaZrO}_3$ Nanoinclusions. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	7
41	Thermodynamic nature of the transition in superconductor/ferromagnet/superconductor trilayers. Physical Review B, 2014, 90, .		
42	A rectangular dielectric resonator for measurements of the anisotropic microwave properties in planar conductors. Measurement Science and Technology, 2014, 25, 025601.	2.6	6
43	Dielectric Resonators for the Measurements of the Surface Impedance of Superconducting Films. Measurement Science Review, 2014, 14, 164-170.	1.0	42
44	Directional pinning and anisotropy in $\text{YBa}_2\text{Cu}_3\text{O}_7$ with $\text{BaZrO}_3$ nanorods: Intrinsic and nanorods-induced anisotropy. Physica C: Superconductivity and Its Applications, 2014, 503, 146-149.	1.2	11
45	Directional Vortex Pinning at Microwave Frequency in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films with $\text{BaZrO}_3$ Nanorods. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2093-2097.	1.8	5
46	Anisotropy and directional pinning in $\text{YBa}_2\text{Cu}_3\text{O}_7$ with $\text{BaZrO}_3$ nanorods. Applied Physics Letters, 2013, 103, .	3.3	28
47	Superconducting and Structural Properties of Nb/PdNi/Nb Trilayers. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1939-1943.	1.8	12
48	Microwave Properties of Nb/PdNi/Nb Trilayers. Journal of Superconductivity and Novel Magnetism, 2013, 26, 571-574.	1.8	10
49	Transport properties of Nb/PdNi/Nb trilayers at microwave frequencies. , 2013, , .		0
50	Growth and Characterization of $\text{La}_2\text{Zr}_2\text{O}_7$ Buffer Layers Deposited by Chemical Solution Deposition. Physics Procedia, 2012, 36, 1552-1557.	1.2	3
51	Angular dependence of the high-frequency vortex response in $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin film with self-assembled $\text{BaZrO}_3$ nanorods. Physica C: Superconductivity and Its Applications, 2012, 479, 160-163.	1.2	7
52	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
53	Millimeter-wave study of London penetration depth temperature dependence in $\text{Ba}(\text{Fe}_{0.926}\text{Co}_{0.074})_2\text{As}_2$ single crystal. Low Temperature Physics, 2011, 37, 725-728.	0.6	7
54	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

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55	Microwave impedance properties of single crystal $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ , 2010, , .		0