

Mykola Solovyov

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

875
citations

686830

13
h-index

476904

29
g-index

40
all docs

40
docs citations

40
times ranked

725
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Realization of a Magnetic Cloak. <i>Science</i> , 2012, 335, 1466-1468.	6.0	334
2	AC losses in coated conductors. <i>Superconductor Science and Technology</i> , 2010, 23, 034012.	1.8	120
3	AC Loss in Pancake Coil Made From 12 mm Wide REBCO Tape. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 5900406-5900406.	1.1	39
4	A quasistatic magnetic cloak. <i>New Journal of Physics</i> , 2013, 15, 053019.	1.2	39
5	Ripple field losses in direct current biased superconductors: Simulations and comparison with measurements. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	38
6	Non-uniformity of coated conductor tapes. <i>Superconductor Science and Technology</i> , 2013, 26, 115013.	1.8	30
7	Aâ€V formulation for numerical modelling of superconductor magnetization in true 3D geometry. <i>Superconductor Science and Technology</i> , 2019, 32, 115001.	1.8	26
8	Two level undercut-profile substrate for filamentary YBa ₂ Cu ₃ O ₇ coated conductors. <i>Superconductor Science and Technology</i> , 2015, 28, 072001.	1.8	22
9	Impact of critical current fluctuations on the performance of a coated conductor tape. <i>Superconductor Science and Technology</i> , 2019, 32, 124001.	1.8	21
10	Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality. <i>Superconductor Science and Technology</i> , 2019, 32, 095008.	1.8	19
11	Magnetization loop modelling for superconducting/ferromagnetic tube of an ac magnetic cloak. <i>Superconductor Science and Technology</i> , 2015, 28, 044001.	1.8	18
12	Electromagnetic Modeling of Superconductors With Commercial Software: Possibilities With Two Vector Potential-Based Formulations. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-9.	1.1	17
13	AC loss properties of single-layer CORC cables. <i>Journal of Physics: Conference Series</i> , 2014, 507, 022034.	0.3	13
14	Round Conductor With Low AC Loss Made From High-Temperature Superconducting Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4.	1.1	12
15	Low AC Loss Inkjet-Printed Multifilamentary YBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-5.	1.1	11
16	Magnetic cloak for low frequency AC magnetic field. <i>IEEE Transactions on Applied Superconductivity</i> , 2014, , 1-1.	1.1	10
17	Superconducting HTS coil made from round cable cooled by liquid nitrogen flow. <i>Superconductor Science and Technology</i> , 2017, 30, 105014.	1.8	10
18	Bulk and CC-Tape Based Superconducting Shields for Magnetic Cloaks. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.1	10

#	ARTICLE	IF	CITATIONS
19	Experimental and Numerical Investigation of Shielding Performance of Superconducting Magnetic Shields Using Coated Conductor Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	10
20	CORC-like cable production and characterization of the solenoid made from it. Superconductor Science and Technology, 2019, 32, 035007.	1.8	8
21	Modelling and Performance Analysis of MgB2 and Hybrid Magnetic Shields. Materials, 2022, 15, 667.	1.3	7
22	Investigation of defects in functional layer of high temperature superconducting tapes. Physica C: Superconductivity and Its Applications, 2014, 497, 24-29.	0.6	6
23	Design of Magnetic Cloak for Experiments in AC Regime. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	6
24	Magnetic Field Mapping Above the Superconducting Tape With Ni-Covered Edges. IEEE Transactions on Applied Superconductivity, 2009, 19, 3049-3052.	1.1	5
25	Investigation of Superconductor Uniformity in CC Tapes by Magnetic Field Mapping. Physics Procedia, 2012, 36, 617-622.	1.2	5
26	Dissipation in Superconductor/Ferromagnet Multilayers for AC Magnetic Cloaking. Journal of Superconductivity and Novel Magnetism, 2015, 28, 725-729.	0.8	5
27	Hiding objects in AC magnetic fields of power grid frequency by two-shell ferromagnetic/superconducting cloak. Applied Physics Letters, 2016, 109, 033507.	1.5	5
28	Numerical Simulation of Magnetic Flux Penetration and AC Loss in HTSC Coated Conductor Tapes. Journal of Superconductivity and Novel Magnetism, 2011, 24, 69-74.	0.8	4
29	AC susceptibility as a characterization tool for coated conductor tapes. Superconductor Science and Technology, 2017, 30, 114001.	1.8	4
30	D-Stability of the Initial Value Problem for Symmetric Nonlinear Functional Differential Equations. Symmetry, 2020, 12, 1761.	1.1	4
31	Screening of magnetic fields by superconducting and hybrid shields with a circular cross-section. Superconductor Science and Technology, 2022, 35, 044002.	1.8	4
32	Study of YBCO Tape Non-Uniformity Based on the AC Loss and the Magnetic Field Distribution in Current Transport. IEEE Transactions on Applied Superconductivity, 2011, 21, 3277-3280.	1.1	3
33	Lift-Factor Analysis of Multifilamentary Coated Conductor Produced Using Two Level Undercut-Profile Substrates. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	2
34	Influence of Current Change Rate During DC Current Limitation on the Coated Conductor Degradation. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	2
35	Symmetric nonlinear functional differential equations at resonance. Electronic Journal of Qualitative Theory of Differential Equations, 2019, , 1-16.	0.2	2
36	Improving the numerical model for high temperature coated conductors using the Hall-probe measurement. Journal of Physics: Conference Series, 2010, 234, 022035.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Layered Superconductor/Ferromagnet Structures for Magnetic Field Cloaking. Materials Research Society Symposia Proceedings, 2014, 1684, 28.	0.1	1
38	Design of Magnetic Cloak for an Alternating Magnetic Field With Multilayer ReBCO Insert. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	1
39	Structural study of commercially produced (RE)BCO films. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	0