Mykola Solovyov

List of Publications by Year
in descending order

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	Screening of magnetic fields by superconducting and hybrid shields with a circular cross-section. Superconductor Science and Technology, 2022, 35, 044002.	1.8	4
2	Modelling and Performance Analysis of MgB2 and Hybrid Magnetic Shields. Materials, 2022, 15, 667.	1.3	7
3	Electromagnetic Modeling of Superconductors With Commercial Software: Possibilities With Two Vector Potential-Based Formulations. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-9.	1.1	17
4	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
5	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
6	D-Stability of the Initial Value Problem for Symmetric Nonlinear Functional Differential Equations. Symmetry, 2020, 12, 1761.	1.1	4
7	Aâ€“V formulation for numerical modelling of superconductor magnetization in true 3D geometry. Superconductor Science and Technology, 2019, 32, 115001.	1.8	26
8	Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality. Superconductor Science and Technology, 2019, 32, 095008.	1.8	19
9	Impact of critical current fluctuations on the performance of a coated conductor tape. Superconductor Science and Technology, 2019, 32, 124001.	1.8	21
10	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
11	CORC-like cable production and characterization of the solenoid made from it. Superconductor Science and Technology, 2019, 32, 035007.	1.8	8
12	Symmetric nonlinear functional differential equations at resonance. Electronic Journal of Qualitative Theory of Differential Equations, 2019, , 1-16.	0.2	2
13	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
14	Superconducting HTS coil made from round cable cooled by liquid nitrogen flow. Superconductor Science and Technology, 2017, 30, 105014.	1.8	10
15	AC susceptibility as a characterization tool for coated conductor tapes. Superconductor Science and Technology, 2017, 30, 114001.	1.8	4
16	Bulk and CC-Tape Based Superconducting Shields for Magnetic Cloaks. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	10
17	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
18	Low AC Loss Inkjet-Printed Multifilamentary YBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	11

#	Article	IF	Citations
19	Structural study of commercially produced (RE)BCO films. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	0
20	Design of Magnetic Cloak for Experiments in AC Regime. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	6
21	Two level undercut-profile substrate for filamentary YBa₂Cu₃O₇coated conductors. Superconductor Science and Technology, 2015, 28, 072001.	1.8	22
22	Magnetization loop modelling for superconducting/ferromagnetic tube of an ac magnetic cloak. Superconductor Science and Technology, 2015, 28, 044001.	1.8	18
23	Round Conductor With Low AC Loss Made From High-Temperature Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	12
24	Dissipation in Superconductor/Ferromagnet Multilayers for AC Magnetic Cloaking. Journal of Superconductivity and Novel Magnetism, 2015, 28, 725-729.	0.8	5
25	Magnetic cloak for low frequency AC magnetic field. IEEE Transactions on Applied Superconductivity, 2014, , 1-1.	1.1	10
26	Ripple field losses in direct current biased superconductors: Simulations and comparison with measurements. Journal of Applied Physics, 2014, 115, .	1.1	38
27	Layered Superconductor/Ferromagnet Structures for Magnetic Field Cloaking. Materials Research Society Symposia Proceedings, 2014, 1684, 28.	0.1	1
28	Investigation of defects in functional layer of high temperature superconducting tapes. Physica C: Superconductivity and Its Applications, 2014, 497, 24-29.	0.6	6
29	AC loss properties of single-layer CORC cables. Journal of Physics: Conference Series, 2014, 507, 022034.	0.3	13
30	AC Loss in Pancake Coil Made From 12 mm Wide REBCO Tape. IEEE Transactions on Applied Superconductivity, 2013, 23, 5900406-5900406.	1.1	39
31	A quasistatic magnetic cloak. New Journal of Physics, 2013, 15, 053019.	1.2	39
32	Non-uniformity of coated conductor tapes. Superconductor Science and Technology, 2013, 26, 115013.	1.8	30
33	Investigation of Superconductor Uniformity in CC Tapes by Magnetic Field Mapping. Physics Procedia, 2012, 36, 617-622.	1.2	5
34	Experimental Realization of a Magnetic Cloak. Science, 2012, 335, 1466-1468.	6.0	334
35	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
36	Numerical Simulation of Magnetic Flux Penetration and AC Loss inÂHTSC Coated Conductor Tapes. Journal of Superconductivity and Novel Magnetism, 2011, 24, 69-74.	0.8	4

#	Article	IF	Citations
37	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
38	AC losses in coated conductors. Superconductor Science and Technology, 2010, 23, 034012.	1.8	120
39	Magnetic Field Mapping Above the Superconducting Tape With Ni-Covered Edges. IEEE Transactions on Applied Superconductivity, 2009, 19, 3049-3052.	1.1	5