

Pavel Degtyarenko

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Additional Opportunities of AC Losses Minimization in HTS Cables Caused By the Enhancement of HTS Tapes Critical Characteristics. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	0
2	Influence of the Structure of Ion Tracks in YBCO on the Superconducting Properties of Composite Wires. Journal of Surface Investigation, 2022, 16, 112-117.	0.5	0
3	Investigation of an Opportunity of Using 2G HTS Tapes for High-Current Cables With a Current-Carrying Capacity More Than 10 kA. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	4
4	A Family of Lanthanide Hydroxo Carboxylates with 1D Polymeric Topology and Ln ₄ Butterfly Core Exhibits Switchable Supramolecular Arrangement. Inorganic Chemistry, 2021, 60, 8049-8061.	4.0	18
5	A 3D-Coordination Polymer Assembled from Copper Propionate Paddlewheels and Potassium Propionate 1D-Polymeric Rods Possessing a Temperature-Driven Single-Crystal-to-Single-Crystal Phase Transition. Crystal Growth and Design, 2021, 21, 6183-6194.	3.0	7
6	Design optimization of high-voltage HTS three-phase cables with screened phases. Journal of Physics: Conference Series, 2020, 1559, 012133.	0.4	0
7	The influence of BaSnO ₃ artificial pinning centres on the resistive transition of 2G high-temperature superconductor wire in magnetic field. Superconductor Science and Technology, 2020, 33, 045003.	3.5	4
8	Design optimization of flat HTS three-phase cables. , 2020, , .		0
9	Energy dependent structure of Xe ion tracks in YBCO and the effect on the superconductive properties in magnetic fields. Journal of Applied Physics, 2019, 126, .	2.5	12
10	Investigation of HTS Power Transmission Lines Stability Conditions in Short-Circuit Mode. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
11	Microstructure and superconducting properties of high-rate PLD-derived GdBa ₂ Cu ₃ O _{7-δ} coated conductors with BaSnO ₃ and BaZrO ₃ pinning centers. Scientific Reports, 2019, 9, 15235.	3.3	12
12	Low-Resistance Soldered Joints of Commercial 2G HTS Wire Prepared at Various Values of Applied Pressure. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	8
13	Design versions of HTS three-phase cables with the minimized value of AC losses. Journal of Physics: Conference Series, 2018, 969, 012049.	0.4	11
14	Optimization of Three- and Single-Phase AC HTS Cables Design by Numerical Simulation. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.	1.7	9
15	On the possible separation of the phase enriched with Nb in superconducting intermetallic Nb ₃ Sn irradiated with fast protons. Bulletin of the Lebedev Physics Institute, 2017, 44, 118-121.	0.6	2
16	Variation of T_c , lattice parameter and atomic ordering in Nb ₃ Sn platelets irradiated with 12 MeV protons: correlation with the number of induced Frenkel defects. Superconductor Science and Technology, 2017, 30, 054003.	3.5	13
17	Introduction of BaSnO ₃ and BaZrO ₃ artificial pinning centres into 2G HTS wires based on PLD-GdBCO films. Phase I of the industrial R&D programme at SuperOx. Superconductor Science and Technology, 2017, 30, 124001.	3.5	36
18	Effect of irradiation with 32-MeV protons on critical parameters of modern Nb ₃ Sn-based superconducting composite wires. Technical Physics Letters, 2017, 43, 574-576.	0.7	2

#	ARTICLE	IF	CITATIONS
19	Influence of fast proton irradiation with energies of 12.4 and 12.8 MeV on magnetic characteristics and microstructure changes of superconducting intermetallic compound Nb ₃ Sn. Journal of Physics: Conference Series, 2016, 747, 012030.	0.4	0
20	Variation of critical current and n-value of 2G HTS tapes in external magnetic fields of different orientation. Journal of Physics: Conference Series, 2016, 747, 012048.	0.4	3
21	Investigation of Electro-physical and Physical-mechanical Properties of HTS 2G Tapes. Physics Procedia, 2015, 71, 417-422.	1.2	1
22	Investigation of soldered low-resistance joints for coated conductors. Progress in Superconductivity and Cryogenics (PSAC), 2015, 17, 25-27.	0.3	8
23	Time Dependent Ginzburg-Landau Equations for Modeling Vortices Dynamics in Type-II Superconductors with Defects Under A Transport Current. Physics Procedia, 2012, 36, 1206-1210.	1.2	6
24	Superconducting dc Current Limiting Vacuum Circuit Breaker. Physics Procedia, 2012, 36, 1264-1267.	1.2	4
25	Thermoelectric instability induced by single pulses and alternating currents in second-generation superconducting tapes. Low Temperature Physics, 2011, 37, 101-106.	0.6	4
26	Superconducting DC breaker. Thermal Engineering (English Translation of Teploenergetika), 2011, 58, 1126-1130.	0.9	1
27	Heat transfer features from copper and HTS tapes to liquid nitrogen by a step-wise current pulse. Thermal Engineering (English Translation of Teploenergetika), 2011, 58, 1192-1195.	0.9	2
28	Thermal behavior of 2G HTS tape for use in resistive fault current limiters. Journal of Physics: Conference Series, 2010, 234, 032001.	0.4	4
29	Modeling of superconductors based on the time-dependent Ginzburg-Landau equations. Russian Physics Journal, 2009, 52, 1212-1223.	0.4	4
30	Superconductivity in Cu-Nb with extremely fine structure. Journal of Physics: Conference Series, 2008, 97, 012024.	0.4	2