

Pavel Degtyarenko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8489880/publications.pdf>

Version: 2024-02-01

30
papers

183
citations

1163117

8
h-index

1125743

13
g-index

30
all docs

30
docs citations

30
times ranked

232
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Investigation of soldered low-resistance joints for coated conductors. Progress in Superconductivity and Cryogenics (PSAC), 2015, 17, 25-27. | 0.3 | 8 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Investigation of HTS Power Transmission Lines Stability Conditions in Short-Circuit Mode. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.7 | 6 |
| 13 | Modeling of superconductors based on the time-dependent Ginzburg-Landau equations. Russian Physics Journal, 2009, 52, 1212-1223. | 0.4 | 4 |
| 14 | Thermal behavior of 2G HTS tape for use in resistive fault current limiters. Journal of Physics: Conference Series, 2010, 234, 032001. | 0.4 | 4 |
| 15 | Thermoelectric instability induced by single pulses and alternating currents in second-generation superconducting tapes. Low Temperature Physics, 2011, 37, 101-106. | 0.6 | 4 |
| 16 | Superconducting dc Current Limiting Vacuum Circuit Breaker. Physics Procedia, 2012, 36, 1264-1267. | 1.2 | 4 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Superconductivity in Cu-Nb with extremely fine structure. Journal of Physics: Conference Series, 2008, 97, 012024. | 0.4 | 2 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Superconducting DC breaker. Thermal Engineering (English Translation of Teploenergetika), 2011, 58, 1126-1130. | 0.9 | 1 |
| 25 | Investigation of Electro-physical and Physical-mechanical Properties of HTS 2G Tapes. Physics Procedia, 2015, 71, 417-422. | 1.2 | 1 |
| 26 | 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 |
| 27 | Design optimization of high-voltage HTS three-phase cables with screened phases. Journal of Physics: Conference Series, 2020, 1559, 012133. | 0.4 | 0 |
| 28 | 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 |
| 29 | Design optimization of flat HTS three-phase cables. , 2020, , . | | 0 |
| 30 | 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 |