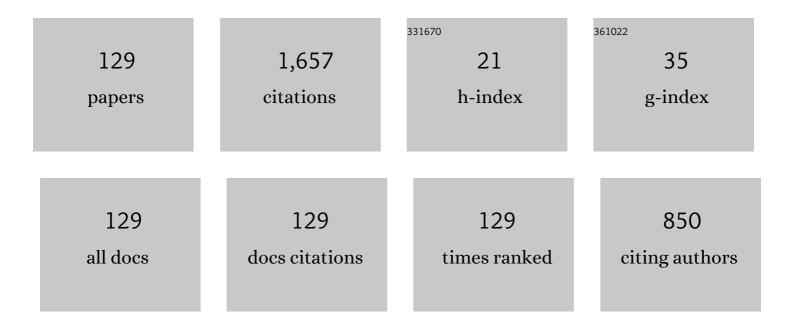
vysotskyieeeorg Vysotsky

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Super-FRS project at GSI. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 71-85.	1.4	257
2	Development and production of second generation high <i>T</i> _c superconducting tapes at SuperOx and first tests of model cables. Superconductor Science and Technology, 2014, 27, 044022.	3.5	85
3	Universal scaling law for quench development in HTSC devices. Cryogenics, 2000, 40, 19-27.	1.7	82
4	Quench development in superconducting cable having insulated strands with high resistive matrix. I. Experiment. IEEE Transactions on Magnetics, 1992, 28, 735-738.	2.1	50
5	Hybrid Energy Transfer Line With Liquid Hydrogen and Superconducting \$hbox{MgB}_{2}\$ Cable—First Experimental Proof of Concept. IEEE Transactions on Applied Superconductivity, 2013, 23, 5400906-5400906.	1.7	48
6	New method of current distribution studies for ramp rate stability of multistrand superconducting cables. IEEE Transactions on Applied Superconductivity, 1995, 5, 580-583.	1.7	40
7	Quench development in superconducting cable having insulated strands with high resistive matrix. II. Analysis. IEEE Transactions on Magnetics, 1992, 28, 739-742.	2.1	39
8	30 m HTS Power Cable Development and Witness Sample Test. IEEE Transactions on Applied Superconductivity, 2009, 19, 1702-1705.	1.7	33
9	AC Loss and Other Researches with 5 m HTS Model Cables. IEEE Transactions on Applied Superconductivity, 2011, 21, 1001-1004.	1.7	31
10	Thermal quench study in HTSC pancake coil. Cryogenics, 2000, 40, 9-17.	1.7	28
11	Quench characteristics in HTSC devices. IEEE Transactions on Applied Superconductivity, 1999, 9, 1073-1076.	1.7	27
12	Stability and quench development study in small HTSC magnet. Cryogenics, 2001, 41, 665-674.	1.7	27
13	Experimental hybrid power transmission line with liquid hydrogen and MgB2-based superconducting cable. Technical Physics Letters, 2012, 38, 279-282.	0.7	27
14	New 30-m Flexible Hybrid Energy Transfer Line With Liquid Hydrogen and Superconducting <inline-formula> <tex-math notation="TeX">\$hbox{MgB}_{2}\$</tex-math </inline-formula> Cable—Development and Test Results. IEEE Transactions on Applied Superconductivity, 2015,	1.7	27
15	25, 1-5. HTS Tapes Cooled by Liquid Nitrogen at Current Overloads. IEEE Transactions on Applied Superconductivity, 2011, 21, 1323-1327.	1.7	26
16	Study of the First Russian Triaxial HTS Cable Prototypes. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	26
17	Heat propagation and stability in a small high Tc superconductor coil. Physica C: Superconductivity and Its Applications, 1998, 310, 372-376.	1.2	25
18	Cryogenic design and test results of 30-m flexible hybrid energy transfer line with liquid hydrogen and superconducting MgB2 cable. Cryogenics, 2015, 66, 34-42.	1.7	23

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19	Spike voltages seen during "quick charge" ramp limitation tests on Nb/sub 3/Sn cable-in-conduit conductors. IEEE Transactions on Applied Superconductivity, 1997, 7, 150-154.	1.7	22
20	The AC Loss Analysis in the 5 m HTS Power Cables. IEEE Transactions on Applied Superconductivity, 2009, 19, 1706-1709.	1.7	22
21	Ramp-rate limitation experiments using a hybrid superconducting cable. Cryogenics, 1996, 36, 623-629.	1.7	21
22	Quench development analysis in HTSC coils by use of the universal scaling theory. IEEE Transactions on Applied Superconductivity, 2001, 11, 1824-1827.	1.7	21
23	Influences of voltage–current characteristic difference on quench development in low-Tc and high-Tc superconducting devices (Review). Physica C: Superconductivity and Its Applications, 2004, 401, 57-65.	1.2	20
24	First Russian long length HTS power cable. Physica C: Superconductivity and Its Applications, 2012, 482, 87-91.	1.2	19
25	Development and Characterization of a 2G HTS Roebel Cable for Aircraft Power Systems. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	19
26	Voltage spike observation in superconducting cable-in-conduit conductor under ramped magnetic fields: 1. Experiment. Cryogenics, 1997, 37, 299-304.	1.7	17
27	Manufacturing and Testing of AC HTS-2 Coil for Small Electrical Motor. Journal of Superconductivity and Novel Magnetism, 2020, 33, 355-359.	1.8	17
28	Current non-uniformity in multistrand superconducting cables. Experimental studies and its influence on stability of superconducting magnets. IEEE Transactions on Applied Superconductivity, 2000, 10, 1190-1195.	1.7	15
29	Status and Achievements in Production of ITER TF Conductors and PF Cables in Russian Cable Institute. IEEE Transactions on Applied Superconductivity, 2012, 22, 4200505-4200505.	1.7	15
30	Test Results of RF ITER TF Conductors in the SULTAN Test Facility. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	15
31	The possibility of using high-Tcsuperconducting films as elements of a rectifier. Superconductor Science and Technology, 1990, 3, 259-262.	3.5	14
32	Voltage spikes in superconducting Cable-In-Conduit Conductor under ramped magnetic fields. Part 2: Analysis of loop inductances and current variations associated with the spikes. Cryogenics, 1998, 38, 387-395.	1.7	14
33	Analysis of critical current reduction in self-field in stacked twisted 2G HTS tapes. Journal of Physics: Conference Series, 2014, 507, 022001.	0.4	14
34	Numerical Simulation and Cold Test of a Compact 2G HTS Power Cable. IEEE Transactions on Applied Superconductivity, 2018, , 1-1.	1.7	14
35	Quench characteristics of a two-strand superconducting cable and the influence of its length. IEEE Transactions on Magnetics, 1992, 28, 743-746.	2.1	13
36	The critical current in a NbTi tape measured in different directions of magnetic field and the current reduction due to the self field. IEEE Transactions on Magnetics, 1992, 28, 755-758.	2.1	13

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37	Quench protection of very large superconducting magnets. IEEE Transactions on Applied Superconductivity, 1995, 5, 226-229.	1.7	13
38	Current distribution in a 12 strand Nb/sub 3/Sn CICC and its influence on ramp rate limitation. IEEE Transactions on Applied Superconductivity, 1997, 7, 774-777.	1.7	13
39	The 5 m HTS Power Cable Development and Test. IEEE Transactions on Applied Superconductivity, 2007, 17, 1684-1687.	1.7	13
40	Quench propagation in large area YBCO films. IEEE Transactions on Applied Superconductivity, 1999, 9, 1089-1092.	1.7	12
41	Hysteresis Loss in Power Cables Made of 2G HTS Wires With NiW Alloy Substrate. IEEE Transactions on Applied Superconductivity, 2011, 21, 988-990.	1.7	12
42	Progress with the ITER project activity in Russia. Nuclear Fusion, 2015, 55, 104007.	3.5	12
43	Development and Test Results of HTS Windings for Superconducting Transformer With 1 MVA Rated Power. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	12
44	The quench velocity in multifilament superconductor after fast current increasing. Cryogenics, 1992, 32, 435-438.	1.7	11
45	Acceleration of normal zone propagation in superconductors with changing current. Superconductor Science and Technology, 1994, 7, 154-159.	3.5	11
46	Stability and quench development in HTS magnets: Influence of cooling and material parameters. AIP Conference Proceedings, 2002, , .	0.4	11
47	Measurements of current distribution in a 12-strand Nb3Sn cable-in-conduit conductor. Cryogenics, 1997, 37, 431-439.	1.7	10
48	Test of HTS Tapes Cooled by Liquid Nitrogen at Overloading Conditions. IEEE Transactions on Applied Superconductivity, 2009, 19, 2411-2414.	1.7	10
49	AC loss of a model 5m 2G HTS power cable using wires with NiW substrates. Journal of Physics: Conference Series, 2010, 234, 032061.	0.4	10
50	Protection of superconducting magnets with high current density. IEEE Transactions on Magnetics, 1989, 25, 1541-1544.	2.1	9
51	Current redistribution between strands and quench process in a superconducting cable. Cryogenics, 1996, 36, 275-281.	1.7	9
52	Heating Development Analysis in Long HTS Objects With Cooling. IEEE Transactions on Applied Superconductivity, 2005, 15, 1655-1658.	1.7	9
53	Analysis of Nb3Sn Strand Microstructure After Full-size SULTAN Test of ITER TF Conductor Sample. Physics Procedia, 2015, 67, 914-919.	1.2	9
54	Hysteresis Losses Analysis in 2G HTS Cables. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	9

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55	Optimization and Cold Test of a Triaxial 2G HTS Power Cable With High Current Capacity. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	9
56	Quench development in long HTS objects-the possibility of "blow-up" regimes and a heat localization. IEEE Transactions on Applied Superconductivity, 2003, 13, 1942-1945.	1.7	8
57	Current distribution and voltage–current relation in multi-layered LTS and HTS power cable core: a review. Physica C: Superconductivity and Its Applications, 2004, 401, 47-56.	1.2	8
58	Development and Test of a Miniature Novel Cable-In-Conduit-Conductor for Use in Fast Ramping Accelerators With Superconducting Magnets. IEEE Transactions on Applied Superconductivity, 2006, 16, 1176-1179.	1.7	8
59	Analysis of stability and quench in HTS devices—New approaches. Fusion Engineering and Design, 2006, 81, 2417-2424.	1.9	8
60	1G versus 2G-comparison from the practical standpoint for HTS power cables use. Journal of Physics: Conference Series, 2008, 97, 012058.	0.4	8
61	Testing of RF 100 m TF Qualification Conductor in the SULTAN Test Facility. IEEE Transactions on Applied Superconductivity, 2013, 23, 9500805-9500805.	1.7	8
62	VNIIKP RF TF Cable Untwisting and Elongation Under Tensile Force. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.7	8
63	First 1 MVA and 10/0.4 kV HTSC transformer in Russia. Thermal Engineering (English Translation of) Tj ETQq1 1	0.784314	rgBgT /Overloc
64	Compact 2G HTS power cable: new cold tests results. Journal of Physics: Conference Series, 2020, 1559, 012081.	0.4	8
65	Cryogenic Tests of 30 m Flexible Hybrid Energy Transfer Line with Liquid Hydrogen and Superconducting MgB2 Cable. Physics Procedia, 2015, 67, 189-194.	1.2	7
66	Heat Transfer Simulation to Liquid Nitrogen from HTS Tapes at the Overload Currents. Physics Procedia, 2015, 67, 619-624.	1.2	7
67	Design study of the superconducting magnet for a large acceptance spectrometer. IEEE Transactions on Applied Superconductivity, 2002, 12, 353-357.	1.7	6
68	Losses in Power Cables Made of 2G HTS Wires with Different Substrates. Physics Procedia, 2012, 36, 1319-1323.	1.2	6
69	First Model Power Cables Made of Russian 2G HTS Wires and their Test Results. Journal of Physics: Conference Series, 2014, 507, 032063.	0.4	6
70	Investigation of HTS Power Transmission Lines Stability Conditions in Short-Circuit Mode. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
71	Normal zone origination and propagation in superconducting wire with fast changing current. IEEE Transactions on Magnetics, 1994, 30, 1998-2001.	2.1	5
72	Anomalous quench propagation in superconductors under fast current decrease. IEEE Transactions on Applied Superconductivity, 1995, 5, 560-563.	1.7	5

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73	Experimental study of the current redistribution in pulsed operation inside the Nb/sub 3/Sn CICC of an ITER relevant magnet. IEEE Transactions on Applied Superconductivity, 2000, 10, 1598-1602.	1.7	5
74	Heating Development Analysis in Long HTS Objects - Updated Results. Journal of Physics: Conference Series, 2006, 43, 877-880.	0.4	5
75	The Effect of Sectioning on Superconducting Fault Current Limiter Operation. IEEE Transactions on Applied Superconductivity, 2007, 17, 1799-1802.	1.7	5
76	The Study of Mechanical Properties of HTS Tapes for Power Cables Use. IEEE Transactions on Applied Superconductivity, 2009, 19, 1770-1773.	1.7	5
77	CRYOGENIC AND ELECTRICAL TEST RESULTS OF 30 M HTS POWER CABLE. , 2010, , .		5
78	Residual Resistance Ratio in <formula formulatype="inline"><tex Notation="TeX">\$hbox{Nb}_{3}hbox{Sn}\$ </tex </formula> Strands During ITER TF Conductor Manufacture and After SULTAN Tests. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	5
79	Russia's Contribution to the ITER TF Magnets. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	5
80	Influence of Cabling on Current Carrying Capabilities of MgB ₂ Superconductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	5
81	Advanced Variants of HTSC Wires for ТRТ Electromagnetic System. Plasma Physics Reports, 2021, 47, 1204-1219.	0.9	5
82	The stability margins of superconducting cables with two insulated strands. Cryogenics, 1992, 32, 419-422.	1.7	4
83	Normal zone propagation velocity in high current NbTi/CuNi superconductor with fast changing current. Cryogenics, 1994, 34, 517-520.	1.7	4
84	On stability of multistrand cables with insulated or highly resistive matrix strands. IEEE Transactions on Applied Superconductivity, 1995, 5, 572-575.	1.7	4
85	Temperature and electric field distribution measurement inside of the LHD helical conductor. IEEE Transactions on Applied Superconductivity, 2000, 10, 1259-1262.	1.7	4
86	Peculiarities on voltage - current characteristics of HTS tapes at overloading conditions cooled by liquid nitrogen. Journal of Physics: Conference Series, 2008, 97, 012015.	0.4	4
87	Review of Scientific Results Obtained During Production of ITER TF and PF Conductors in Russia. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	4
88	The Feasibility Design Study and Cold Test of the First Model of HTS Cable With the Longitudinal Magnetic Field Effect. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
89	Energy Transfer with Hydrogen and Superconductivity – The Review of the First Experimental Results. Physics Procedia, 2015, 65, 299-302.	1.2	3
90	Residual Resistances Ratio in NbTi Strands Extracted From the ITER PF1/6 Conductor Sample After SULTAN Tests. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-3.	1.7	3

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91	Influence of Cabling on Current Characteristics of Round MgB ₂ Wires With Different Design. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
92	Cold test and numerical analysis of the compact 2G HTS power cable. IOP Conference Series: Materials Science and Engineering, 2019, 502, 012179.	0.6	3
93	Analysis of behaviour of HTS tapes cooled by liquid nitrogen under currents more than the critical current. IOP Conference Series: Materials Science and Engineering, 2019, 502, 012178.	0.6	3
94	Design and Coil Protection of the High Current Density Autonomous Superconducting Magnets for Mine Sweeping. Advances in Cryogenic Engineering, 1996, , 1069-1076.	0.3	3
95	Superconducting System With 100 kW Output Power for Experimental Research. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	3
96	Superferric microundulator with high field. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 331, 748-751.	1.6	2
97	Influence of a mutltistrand cable design on its quench development process and stability. Cryogenics, 1997, 37, 517-522.	1.7	2
98	Current distribution in multistrand superconducting cables $\hat{a} \in $ " experimental methods and results. Physica C: Superconductivity and Its Applications, 1998, 310, 351-357.	1.2	2
99	Quench development and ultimate normal zone propagation "velocity" in superconductors under fast current change. IEEE Transactions on Applied Superconductivity, 2001, 11, 2118-2121.	1.7	2
100	Study of HTS Conductors Made From Combinations of HTS Tapes. Journal of Physics: Conference Series, 2006, 43, 1059-1062.	0.4	2
101	Overload and High Voltage Tests of Witness Samples of 200m HTS Power Cable. Physics Procedia, 2012, 36, 1127-1130.	1.2	2
102	1-G HTS Split Coil Magnet for Research Purposes. IEEE Transactions on Applied Superconductivity, 2012, 22, 3900404-3900404.	1.7	2
103	Current Density Distribution in 2G HTS Tape in an External Magnetic Field. Physics Procedia, 2015, 67, 931-938.	1.2	2
104	Possible Reasons of Lorentz Force Direction Influence on Anisotropy of 2G HTS Tapes Critical Currents. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	2
105	Study of Heat Localization in HTS Wires at Overload Conditions. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	2
106	Further Developments of Fusion-Enabling System in Russia: Suggestions on Superconductors and Current Leads for DEMO-FNS Reactor. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	2
107	Critical current capacity of superconductors at different AC frequencies. IEEE Transactions on Magnetics, 1991, 27, 2186-2189.	2.1	1
108	Possible solution of the "single strand stability" problem-special cable design. IEEE Transactions on Applied Superconductivity, 1999, 9, 1121-1124.	1.7	1

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109	Correlation between voltage–current characteristics of superconducting filaments, single wires and multistrand cables. Physica C: Superconductivity and Its Applications, 2004, 401, 107-112.	1.2	1
110	Voltage-current characteristics of two soldered 2G HTS tapes. Journal of Physics: Conference Series, 2010, 234, 022042.	0.4	1
111	Investigation of ITER TF Conductor Hydraulic Resistance. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	1
112	Thermal Stability of Bi-2223 Wires. Asian Journal of Social Science Studies, 2016, , 105-122.	0.1	1
113	Optimization of 2G HTS Current Leads Working at External Magnetic Field. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	1
114	HTS generator, cable and rectifier as a system for hybrid propulsion system. Journal of Physics: Conference Series, 2021, 1891, 012004.	0.4	1
115	The First Mine Countermeasure Devices with Superconducting Magnets. Advances in Cryogenic Engineering, 1996, , 1057-1068.	0.3	1
116	Persistent Mode Switches and Automatic Power Supplies for Autonomous Superconducting Magnets. Advances in Cryogenic Engineering, 1996, , 1077-1085.	0.3	1
117	Test Set-Up to Study Current Distribution in AC Multistrand Superconducting Cables. , 1998, , 1043-1050.		1
118	Superconducting pulse coil set for stability test of superconducting cables. IEEE Transactions on Applied Superconductivity, 1997, 7, 211-214.	1.7	0
119	Direct observation of Hall voltage inside the LHD helical conductor. IEEE Transactions on Applied Superconductivity, 2002, 12, 1109-1112.	1.7	0
120	Test and Analysis of Spliced DI-BSCCO HTS Tapes. Physics Procedia, 2012, 36, 1605-1608.	1.2	0
121	Hydrogen Cooled MgB2 Cables. Asian Journal of Social Science Studies, 2016, , 593-609.	0.1	0
122	Research and Development of Bi-2223-Based AC Power Cables in Russia. Asian Journal of Social Science Studies, 2016, , 289-300.	0.1	0
123	The General Appearance of the Superconducting Magnet System for the Gas-Dynamic Multimirror Trap. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.7	0
124	Universal Model for Quench Development in HTSC Devices. , 2000, , 866-868.		0
125	From Russia to Japan with Love. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society) Tj ETQq1	1 0.78431 0.1	4 rgBT /Ove

#	Article	IF	CITATIONS
127	EXPERIMENTAL STUDY OF SUPERCONDUCTING TRANSPORT LINES COOLING PROCESSES. , 2021, 13, 196-205.		0
128	THE INFLUENCE OF THE INTRINSIC MAGNETIC FIELD ON THE CURRENT-CARRYING CAPACITY OF MULTI-LAYER DC HIGH-TEMPERATURE SUPERCONDUCTING CABLES. Kabeli I Provoda, 2021, , 3-7.	0.0	0
129	Possible Designs of Mobile Cryomagnets for Novel Microwave Technologies. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	0