Fedor Gmry

List of Publications by Citations

204 papers	3,135 citations	26 h-index	48 g-index
211 ext. papers	3,380 ext. citations	2.2 avg, IF	5.29 L-index

#	Paper	IF	Citations
204	Experimental realization of a magnetic cloak. *Science*, **2012**, 335, 1466-8	33.3	273
203	Characterization of high-temperature superconductors by AC susceptibility measurements. *Superconductor Science and Technology*, **1997**, 10, 523-542	3.1	239
202	. *IEEE Transactions on Applied Superconductivity*, **2014**, 24, 78-110	1.8	204
201	Determination of shielding current density in bulk cylindrical samples of high-Tc superconductors from AC susceptibility measurements. *Solid State Communications*, **1988**, 66, 645-649	1.6	108
200	AC losses in coated conductors. *Superconductor Science and Technology*, **2010**, 23, 034012	3.1	104
199	Calibration free method for measurement of the AC magnetization loss. *Superconductor Science and Technology*, **2005**, 18, 592-595	3.1	88
198	Theoretical and experimental study of AC loss in high temperature superconductor single pancake coils. *Superconductor Science and Technology*, **2009**, 22, 015006	3.1	79
197	Transport and magnetization ac losses of ROEBEL assembled coated conductor cables: measurements and calculations. *Superconductor Science and Technology*, **2010**, 23, 014023	3.1	75
196	Magnetic flux penetration and AC loss in a composite superconducting wire with ferromagnetic parts. *Superconductor Science and Technology*, **2009**, 22, 034017	3.1	74
195	Current distribution and ac loss for a superconducting rectangular strip with in-phase alternating current and applied field. *Superconductor Science and Technology*, **2007**, 20, 351-364	3.1	67
194	Low-magnetic-field dependence and anisotropy of the critical current density in coated conductors. *Superconductor Science and Technology*, **2011**, 24, 065007	3.1	64
193	Low AC loss cable produced from transposed striated CC tapes. *Superconductor Science and Technology*, **2013**, 26, 075020	3.1	52
192	Transport AC losses in round superconducting wire consisting of two concentric shells with different critical current density. *Physica C: Superconductivity and Its Applications*, **1997**, 280, 151-157	1.3	42
191	Magnetic flux shielding in superconducting strip arrays. *Physical Review B*, **2000**, 61, 6413-6421	3.3	39
190	. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	38
189	AC Loss in Pancake Coil Made From 12 mm Wide REBCO Tape. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 5900406-5900406	1.8	36
188	A quasistatic magnetic cloak. *New Journal of Physics*, **2013**, 15, 053019	2.9	36

187	Flux pinning in Bi-2212/Ag-based wires and coils. *Physical Review B*, **1996**, 54, 12543-12550	3.3	36
186	Magnetization ac loss reduction in HTS CORC cables made of striated coated conductors. *Superconductor Science and Technology*, **2015**, 28, 104006	3.1	33
185	Status of the European Union Project FASTGRID. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	33
184	Ac losses in multifilamentary high-TCtapes due to a perpendicular ac magnetic field. *Superconductor Science and Technology*, **2000**, 13, 1327-1337	3.1	33
183	. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	32
182	Self-field critical current of a conductor with an elliptical cross-section. *Superconductor Science and Technology*, **2006**, 19, 732-737	3.1	31
181	Irreversibility line and non-linearity in the AC response caused by flux pinning in high-Tc superconductors. *Physica C: Superconductivity and Its Applications*, **1993**, 217, 297-312	1.3	30
180	Improvement of the self-field critical current of a high-Tc superconducting tape by the edge cover from soft ferromagnetic material. *Applied Physics Letters*, **2006**, 89, 072506	3.4	29
179	Critical state and magnetization loss in multifilamentary superconducting wire solved through the commercial finite element code ANSYS. *Superconductor Science and Technology*, **2010**, 23, 115004	3.1	26
178	Self-field loss of BSCCO/Ag tape in external AC magnetic field. *Physica C: Superconductivity and Its Applications*, **1998**, 300, 1-5	1.3	24
177	Predicting AC loss in practical superconductors. *Superconductor Science and Technology*, **2006**, 19, S60-S66	3.1	24
176	Phenomenological description of flux pinning in non-uniform high-temperature superconductors in magnetic fields lower than the self-field. *Superconductor Science and Technology*, **2007**, 20, S271-S277	3.1	24
175	Influence of viscous flux flow on AC magnetisation of high-Tcsuperconductors. *Superconductor Science and Technology*, **1990**, 3, 94-99	3.1	24
174	A.c. losses in Bi-2223 tapes for power applications. *Superconductor Science and Technology*, **1997**, 10, 909-913	3.1	22
173	Modeling of current density distributions in critical state by commercial FE codes. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2867-2870	1.8	22
172	Advance in the conceptual design of the European DEMO magnet system. *Superconductor Science and Technology*, **2020**, 33, 044013	3.1	22
171	No-Insulation High-Temperature Superconductor Winding Technique for Electrical Aircraft Propulsion. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1613-1624	7.6	21
170	Non-uniformity of coated conductor tapes. *Superconductor Science and Technology*, **2013**, 26, 115013	3.1	21

169	Experimentally determined transport and magnetization ac losses of small cable models constructed from YBCO coated conductors. *Superconductor Science and Technology*, **2010**, 23, 045029	3.1	21
168	Study of ac loss in Bi-2223/Ag tape under the simultaneous action of ac transport current and ac magnetic field shifted in phase. *Superconductor Science and Technology*, **2006**, 19, 397-404	3.1	21
167	A study of coupling loss on bi-columnar BSCCO/Ag tapes through ac susceptibility measurements. *Superconductor Science and Technology*, **2004**, 17, 501-511	3.1	21
166	Partitioning of transport AC loss in a superconducting tape into magnetic and resistive components. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 2967-2970	1.8	20
165	Frequency dependence of AC susceptibility due to the viscous motion of flux lines. *IEEE Transactions on Magnetics*, **1991**, 27, 1057-1060	2	20
164	AC magnetization of high Tc superconductors at low superimposed DC magnetic fields. *Physica C: Superconductivity and Its Applications*, **1989**, 160, 1-7	1.3	19
163	Two level undercut-profile substrate for filamentary YBa2Cu3O7coated conductors. *Superconductor Science and Technology*, **2015**, 28, 072001	3.1	18
162	Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality. *Superconductor Science and Technology*, **2019**, 32, 095008	3.1	17
161	Experimental study of magnetization AC loss in MgB2 wires and cables with non-magnetic sheath. *Physica C: Superconductivity and Its Applications*, **2013**, 495, 182-186	1.3	17
160	Impact of critical current fluctuations on the performance of a coated conductor tape. *Superconductor Science and Technology*, **2019**, 32, 124001	3.1	16
159	Magnetization loop modelling for superconducting/ferromagnetic tube of an ac magnetic cloak. *Superconductor Science and Technology*, **2015**, 28, 044001	3.1	15
158	Reduction of ac transport and magnetization loss of a high-Tc superconducting tape by placing soft ferromagnetic materials at the edges. *Applied Physics Letters*, **2007**, 90, 092506	3.4	15
157	The voltage signal on a superconducting wire in AC transport. *Superconductor Science and Technology*, **2005**, 18, 694-700	3.1	15
156	Non-uniform current distribution as the cause of false voltage signals in the ac loss measurement on a superconducting cable. *Superconductor Science and Technology*, **2005**, 18, 780-790	3.1	15
155	Electrical and mechanical properties of Bi-2223/Ag/barrier/Ag composite tapes. *Superconductor Science and Technology*, **2000**, 13, 378-384	3.1	15
154	The complex AC susceptibility of superconducting Y?Ba?CuO thin film and bulk samples. *Physica Status Solidi A*, **1988**, 109, 205-210		15
153	Stability of DC transport in HTS conductor with local critical current reduction. *Superconductor Science and Technology*, **2021**, 34, 025005	3.1	15
152	Critical state and AC losses in multifilamentary BiSrCaCuO-2223/Ag tapes studied by transport and magnetic measurements. *Physica C: Superconductivity and Its Applications*, **1997**, 279, 39-46	1.3	14

151	Coated conductor arrangement for reduced AC losses in a resistive-type superconducting fault current limiter. *Superconductor Science and Technology*, **2012**, 25, 014005	3.1	13
150	Use of a phase-sensitive detector for measuring magnetic hysteresis loops. *Review of Scientific Instruments*, **1991**, 62, 2019-2021	1.7	13
149	Fast inductive method for determination of macroscopic critical current density in bulk high-Tc superconductors. *Solid State Communications*, **1989**, 70, 879-883	1.6	13
148	Electromagnetic Modeling of Superconductors With Commercial Software: Possibilities With Two Vector Potential-Based Formulations. *IEEE Transactions on Applied Superconductivity*, **2021**, 31, 1-9	1.8	13
147	Magnetic Flux Penetration and Transport AC Loss in Superconductor Coated Conductor on Ferromagnetic Substrate. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 3102-3105	1.8	12
146	AC Losses in Coil Wound From Round Wire Coated by a Superconducting Layer. *IEEE Transactions on Applied Superconductivity*, **2012**, 22, 4704704-4704704	1.8	12
145	Comparison of transport and magnetic AC losses in Bi-2223/Ag tapes the role of superconducting core geometry. *Physica C: Superconductivity and Its Applications*, **1998**, 310, 168-172	1.3	12
144	Design of a 30 m long 1 kA 10 kV YBCO cable. *Superconductor Science and Technology*, **2006**, 19, 418-422	3.1	12
143	Magnetic hysteresis loss in Bi-2223/Ag tapes with different filament arrangement. *Physica C: Superconductivity and Its Applications*, **2002**, 371, 229-236	1.3	12
142	Microstructure-dependent magnetoresistance in La1MnO3 thin films. *Journal of Magnetism and Magnetic Materials*, **2000**, 211, 67-72	2.8	12
141	Experimental study of the effect of filament orientation on transport and magnetic ac loss in Bi-2223/Ag multifilamentary tapes. *Superconductor Science and Technology*, **2000**, 13, 1580-1586	3.1	12
140	Structural and electrical properties of Bi(Pb)?Sr?Ca?Cu?O obtained by hot pressing. *Physica C: Superconductivity and Its Applications*, **1995**, 248, 29-41	1.3	12
139	Induction Soldering of Coated Conductor High-Temperature Superconducting Tapes With Lead-Free Solder Alloys. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	11
138	AC loss characteristics of CORC cable with a Cu former. *Superconductor Science and Technology*, **2017**, 30, 085012	3.1	11
137	Modification of critical current in HTSC tape conductors by a ferromagnetic layer. *Journal of Physics: Conference Series*, **2008**, 97, 012096	0.3	11
136	Performance Improvement of Superconducting Tapes Due to Ferromagnetic Cover on Edges. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3083-3086	1.8	11
135	Application of electrical and calorimetric methods to the AC loss characterization of cable conductors. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1053-1056	1.8	11
134	Study of flux flow in high T c superconductors. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 681-682	1.3	11

133	Magnetic field dependence of critical current density of Bi?Pb?Sr?Ca?Cu?O polycrystalline superconductor. *Solid State Communications*, **1990**, 73, 349-352	1.6	11
132	Two methods of AC loss calculation in numerical modelling of superconducting coils. *Superconductor Science and Technology*, **2017**, 30, 064005	3.1	10
131	Universal correlation between critical current density and normal-state resistivity in porous YBa2Cu3O7⊠thin films. *Superconductor Science and Technology*, **2007**, 20, 895-899	3.1	10
130	Design and Testing of Coils Wound Using the Conductor-On-Round-Tube (CORT) Cable. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	9
129	Critical current and AC loss analysis of a superconducting power transmission cable with ferromagnetic diverters. *Superconductor Science and Technology*, **2011**, 24, 075001	3.1	9
128	Influence of gaps in monolayer superconducting cable on AC losses. *Journal of Physics: Conference Series*, **2006**, 43, 897-900	0.3	9
127	. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	9
126	Superconducting HTS coil made from round cable cooled by liquid nitrogen flow. *Superconductor Science and Technology*, **2017**, 30, 105014	3.1	8
125	A⊽ formulation for numerical modelling of superconductor magnetization in true 3D geometry. *Superconductor Science and Technology*, **2019**, 32, 115001	3.1	8
124	AC loss properties of single-layer CORC cables. *Journal of Physics: Conference Series*, **2014**, 507, 022034	0.3	8
123	AC loss in stacks of Bi-2223/Ag tapes modified with ferromagnetic covers at the edges. *Superconductor Science and Technology*, **2010**, 23, 105003	3.1	8
122	Critical Current and AC Loss of DI-BSCCO Tape Modified by the Deposition of Ferromagnetic Layer on Edges. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 2294-2300	1.8	8
121	Pinning potential, its relativity and dependence on temperature and magnetic field studied on the basis of theI-Vcharacteristics of multifilamentary superconductors. *Superconductor Science and Technology*, **1996**, 9, 184-191	3.1	8
120	Contactless measurement of hysteretic transport AC losses in multifilamentary BiSrCaCuO-2223/Ag tapes. *Physica C: Superconductivity and Its Applications*, **1998**, 308, 203-214	1.3	8
119	The influence of filament arrangement on current distribution and AC loss in Bi-2223/Ag tapes. *Superconductor Science and Technology*, **2004**, 17, S150-S154	3.1	8
118	Shielding and losses in multifilamentary tapes exposed to perpendicular AC magnetic fields. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 2776-2779	1.8	8
117	AC losses in multilayer superconducting tapes. *Cryogenics*, **1984**, 24, 119-126	1.8	8
116	Round Conductor With Low AC Loss Made From High-Temperature Superconducting Tapes. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	7

115	Contactless Loop Method for Measurement of AC Losses in HTS Coils. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	7
114	Design optimization of superconducting coils based on asymmetrical characteristics of REBCO tapes. *Physica C: Superconductivity and Its Applications*, **2018**, 550, 74-77	1.3	7
113	Effect of Mechanical Loading on Coated Conductor Tapes Due to Winding Onto Round Cables. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	7
112	Bulk and CC-Tape Based Superconducting Shields for Magnetic Cloaks. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-4	1.8	7
111	Numerical modelling of a HTS cable in AC regime. *Physica C: Superconductivity and Its Applications*, **2004**, 401, 176-181	1.3	7
110	Critical current and ac susceptibility in superconducting tapes with elliptical cross-section. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1788-1791	1.3	7
109	Measurement of DC critical current in superconducting cable with non-uniformities. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 1968-1971	1.8	7
108	Transport versus magnetization technique for determination of critical current densities in superconducting tapes with macroscopic defects. *Superconductor Science and Technology*, **2005**, 18, 388-394	3.1	7
107	Current and voltage distribution in composite superconductors with resistive barriers - symmetric case. *Superconductor Science and Technology*, **2000**, 13, 1450-1460	3.1	7
106	Variable temperature insert for a.c. susceptibility measurements at a.c. field amplitudes up to 0.1 T. *Cryogenics*, **1994**, 34, 837-838	1.8	7
105	Magnetic irreversibility in superconductors characterised by shielding current density. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2753-2754	1.3	7
104	Low frequency magnetic measurements on high-Tc superconducting materials. *Thermochimica Acta* , **1991**, 174, 299-320	2.9	7
103	A simple digital system for ac magnetic measurements on superconductors. *Review of Scientific Instruments*, **1991**, 62, 1796-1800	1.7	7
102	Experimental and Numerical Investigation of Shielding Performance of Superconducting Magnetic Shields Using Coated Conductor Tapes. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	6
101	Design of Magnetic Cloak for Experiments in AC Regime. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-6	1.8	6
100	Experimentally Determined Magnetization ac Losses of Mono and Multifilamentary MgB2 Wires. *Journal of Superconductivity and Novel Magnetism*, **2013**, 26, 1557-1561	1.5	6
99	. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 3293-3296	1.8	6
98	AC Loss and Voltage Signal in a Pancake Coil Made of Coated Conductor With Ferromagnetic Substrate. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 2223-2227	1.8	6

97	Low frequency impedance of a round superconducting wire. *Physica C: Superconductivity and Its Applications*, **1998**, 310, 116-121	1.3	6
96	Hysteresis and coupling losses of superconducting cables at additional change of the applied magnetic field. *Superconductor Science and Technology*, **2005**, 18, 340-345	3.1	6
95	Treating the I-V characteristics of low as well as high Tc superconductors in context with the pinning potential. *Applied Superconductivity*, **1996**, 4, 277-290		6
94	Dissipation in Superconductor/Ferromagnet Multilayers for AC Magnetic Cloaking. *Journal of Superconductivity and Novel Magnetism*, **2015**, 28, 725-729	1.5	5
93	Composite Heat Sink Material for Superconducting Tape in Fault Current Limiter Applications. *Materials*, **2020**, 13,	3.5	5
92	Magnetic Cloak for Low Frequency AC Magnetic Field. *IEEE Transactions on Applied Superconductivity*, **2014**, 1-1	1.8	5
91	Investigation of defects in functional layer of high temperature superconducting tapes. *Physica C: Superconductivity and Its Applications*, **2014**, 497, 24-29	1.3	5
90	Investigation of Superconductor Uniformity in CC Tapes by Magnetic Field Mapping. *Physics Procedia*, **2012**, 36, 617-622		5
89	AC Loss Measurement of YBCO Cable Model. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 1718-1721	1.8	5
88	Losses in Bi-2223/Ag tape at simultaneous action of AC transport and AC magnetic field shifted in phase. *Journal of Physics: Conference Series*, **2006**, 43, 63-66	0.3	5
87	Numerical investigations of the mutual magnetic coupling in superconducting tapes in z-stack arrangement with external AC magnetic field. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 998-1000	1.3	5
86	AC loss and critical current density in Bi-2223 tapes with oxide additives and reinforced Ag sheaths. *Physica C: Superconductivity and Its Applications*, **2002**, 378-381, 1143-1147	1.3	5
85	Losses in transformer-like coils wound from a very fine filament Nb?Ti superconductor. *Cryogenics*, **1988**, 28, 386-393	1.8	5
84	Hiding objects in AC magnetic fields of power grid frequency by two-shell ferromagnetic/superconducting cloak. *Applied Physics Letters*, **2016**, 109, 033507	3.4	5
83	Structural Modeling of REBCO Coated Conductor Tapes in TORT Cables. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	5
82	Analysis of critical current anisotropy in commercial coated conductors in terms of the maximum entropy approach. *Superconductor Science and Technology*, **2019**, 32, 095004	3.1	4
81	Magnetic Field Mapping Above the Superconducting Tape With Ni-Covered Edges. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 3049-3052	1.8	4
80	AC Losses and Current Sharing in an YBCO Cable. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 1688-1691	1.8	4

79	NUMERICAL INVESTIGATION ON AC PROPERTIES IN HIGH TC SUPERCONDUCTING TAPES. *International Journal of Modern Physics B*, **2003**, 17, 528-533	1.1	4
78	A.c. susceptibility of melt-processed high Tc superconductors. *Cryogenics*, **1993**, 33, 133-137	1.8	4
77	The influence of viscous flux flow on AC losses of high Tc superconductors. *Physica B: Condensed Matter*, **1990**, 165-166, 1399-1400	2.8	4
76	Impact of local geometrical irregularities on critical currents of REBCO tapes in round cables. *Superconductor Science and Technology*, **2020**, 33, 115008	3.1	4
75	Superconducting Wireless Power Transfer Beyond 5 kW at High Power Density for Industrial Applications and Fast Battery Charging. *IEEE Transactions on Applied Superconductivity*, **2021**, 31, 1-10	1.8	4
74	CORC-like cable production and characterization of the solenoid made from it. *Superconductor Science and Technology*, **2019**, 32, 035007	3.1	4
73	Numerical study of AC loss of two-layer HTS power transmission cables composed of coated conductors with a ferromagnetic substrate. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2017**, 25, 3528-3539	0.9	3
72	AC losses in Bi-2223 Single-Pancake Coils From 72 to 1152 Hz—Modeling and Measurements. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-7	1.8	3
71	. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-4	1.8	3
70	AC loss characterization of single pancake BSCCO coils by measured different methods. *Physica C: Superconductivity and Its Applications*, **2017**, 541, 45-49	1.3	3
69	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	1.8	3
68	AC Transport Loss of Coated Conductors in Anti-Parallel Arrangement. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 3307-3310	1.8	3
67	Magnetic measurement of transport AC losses in Bi-2223/Ag tapes. *Physica C: Superconductivity and Its Applications*, **1998**, 310, 48-51	1.3	3
66	AC loss of the short coaxial superconducting cable model made from ReBCO coated tapes. *Journal of Physics: Conference Series*, **2008**, 97, 012198	0.3	3
65	Theoretical Estimation of Electromagnetic Loss From the Movement of Superconducting Coil in the W7-X Stellarator. *IEEE Transactions on Applied Superconductivity*, **2006**, 16, 123-126	1.8	3
64	AC loss of YBCO coated tape prepared by laser ablation. *Journal of Physics: Conference Series*, **2006**, 43, 127-129	0.3	3
63	Higher harmonics in voltage on superconductor carrying AC current due to non-linear IV curve. *Physica C: Superconductivity and Its Applications*, **2004**, 401, 191-195	1.3	3
62	Influence of spread in tape properties on IV characteristics measured on superconducting cables. *Physica C: Superconductivity and Its Applications*, **2004**, 401, 227-230	1.3	3

61	IV curve of Bi-2223/Ag tapes in overload conditions determined from AC transport data. *Physica C: Superconductivity and Its Applications*, **2004**, 401, 75-79	1.3	3
60	Analysis of coupling losses in multifilamentary untwisted BSCCO/Ag tapes through a.c. susceptibility measurements. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2903-2906	1.8	3
59	Phase shifts of parallel currents in a single-Layer model of Superconducting cables. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 1779-1782	1.8	3
58	Influence of conductor temperature on the real voltage-current characteristic of composite superconductors. *Superconductor Science and Technology*, **1991**, 4, 172-178	3.1	3
57	Penetration field in superconductors with considerable flux creep and flux flow. *Superconductor Science and Technology*, **1992**, 5, S452-S455	3.1	3
56	Loss and magnetization measurement of superconducting magnets pulsed at very low ramp rates. *Cryogenics*, **1985**, 25, 375-380	1.8	3
55	Influence of DC Magnetic Field on AC Loss of YBCO Coated Conductor with Ferromagnetic Substrate. *Acta Physica Polonica A*, **2008**, 113, 359-362	0.6	3
54	Current–voltage curve of the high temperature superconductor with local reduction of critical current. *Superconductor Science and Technology*, **2021**, 34, 12LT01	3.1	3
53	AC Losses and Material Degradation Effects in a Superconducting Tape for SMES Applications. *IFIP Advances in Information and Communication Technology*, **2014**, 417-424	0.5	3
52	Superconducting properties and surface roughness of thin Nb samples fabricated for SRF applications. *Journal of Physics: Conference Series*, **2020**, 1559, 012040	0.3	3
51	Can Resistive-Type Fault Current Limiter Operate in Cryogen-Free Environment?. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-4	1.8	2
50	AC susceptibility as a characterization tool for coated conductor tapes. *Superconductor Science and Technology*, **2017**, 30, 114001	3.1	2
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48	Transport AC Loss Measurements and Simulations in Bi-2223/Ag Tape with Ni Cover at the Edges. *Journal of Superconductivity and Novel Magnetism*, **2011**, 24, 391-394	1.5	2
47	Experimental and numerical study of influence of ferromagnetic cover on critical current of BiSCCO-2223/Ag tape superconductor. *Journal of Physics: Conference Series*, **2009**, 153, 012032	0.3	2
46	Study of BSSCO/Ag Tapes With the Help of Voltage Signal Analysis. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3129-3132	1.8	2
45	Modelling of the flux penetration into a superconducting strip with magnetic sheath. *Journal of Physics: Conference Series*, **2006**, 43, 9-13	0.3	2
44	NUMERICAL CALCULATION OF THE CRITICAL STATE IN SUPERCONDUCTING TAPES ABOVE THE FULL PENETRATION FIELD. *International Journal of Modern Physics B*, **2003**, 17, 916-921	1.1	2

43	Measurement of E(I) Characteristic of Superconducting Cable. *European Physical Journal D*, **2004**, 54, 497-500		2
42	Generation of higher harmonics in voltage on superconducting wire carrying cosine-like AC current. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 3622-3625	1.8	2
41	Contactless electrical measurements of transport ac losses in a 3 m long superconducting cable. *Superconductor Science and Technology*, **2002**, 15, 898-901	3.1	2
40	Hysteresis loops and critical currents determined by means of lock-in technique. *Superconductor Science and Technology*, **1992**, 5, S137-S140	3.1	2
39	Voltage versus current characteristics of high Tc superconductors described by a statistical series-parallel model. *Cryogenics*, **1989**, 29, 731-735	1.8	2
38	Formation of hot spots in coated conductors during static and dynamic DC loading. *IEEE Transactions on Applied Superconductivity*, **2022**, 1-1	1.8	2
37	Influence of Ferromagnetic Layer on Critical Current of a Superconducting Wire. *Acta Physica Polonica A*, **2008**, 113, 605-608	0.6	2
36	Improvement of the first flux entry field by laser post-treatment of the thin Nb film on Cu. *Superconductor Science and Technology*, **2021**, 34, 065001	3.1	2
35	Influence of Current Change Rate During DC Current Limitation on the Coated Conductor Degradation. *IEEE Transactions on Applied Superconductivity*, **2021**, 31, 1-5	1.8	2
34	Some Results of the EU Project FASTGRID. *IEEE Transactions on Applied Superconductivity*, **2022**, 32, 1-6	1.8	2
33	Influence of local deformation on critical current of high temperature superconductor tape. *Journal of Physics: Conference Series*, **2020**, 1559, 012050	0.3	1
32	Layered Superconductor/Ferromagnet Structures for Magnetic Field Cloaking. *Materials Research Society Symposia Proceedings*, **2014**, 1684, 28		1
31	Estimation of Jc(B) dependence from self-field alternating current (AC) losses measured on Bi-2223/Ag tapes. *Physica C: Superconductivity and Its Applications*, **1998**, 310, 52-56	1.3	1
30	A special sample holder for AC susceptibility measurements of superconducting samples in high magnetic fields at various temperatures. *Superconductor Science and Technology*, **2008**, 21, 105009	3.1	1
29	Waveform of resistive voltage on superconducting wire at AC current overload. *Superconductor Science and Technology*, **2004**, 17, 1395-1400	3.1	1
28	Apparent strip-like behavior of superconducting tape due to jc(B) dependence. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 977-979	1.3	1
27	Magnetic interaction between two superconducting filaments. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1797-1799	1.3	1
26	Texturing of pressed and sintered BiSrCaCuO studied by AC susceptibility. *European Physical Journal D*, **1996**, 46, 1483-1484		1

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