

# Fedor Gmry

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Formation of hot spots in coated conductors during static and dynamic DC loading. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2022</b> , 1-1	1.8	2
203	Normal zone propagation in various REBCO tape architectures. <i>Superconductor Science and Technology</i> , <b>2022</b> , 35, 055009	3.1	1
202	Some Results of the EU Project FASTGRID. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2022</b> , 32, 1-6	1.8	2
201	Probability of premature quenching of HTS coil due to local reduction of critical current. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2022</b> , 1-1	1.8	1
200	Current-voltage curve of the high temperature superconductor with local reduction of critical current. <i>Superconductor Science and Technology</i> , <b>2021</b> , 34, 12LT01	3.1	3
199	Superconducting Wireless Power Transfer Beyond 5 kW at High Power Density for Industrial Applications and Fast Battery Charging. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-10	1.8	4
198	Improvement of the first flux entry field by laser post-treatment of the thin Nb film on Cu. <i>Superconductor Science and Technology</i> , <b>2021</b> , 34, 065001	3.1	2
197	Electromagnetic Modeling of Superconductors With Commercial Software: Possibilities With Two Vector Potential-Based Formulations. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-9	1.8	13
196	Design of Magnetic Cloak for an Alternating Magnetic Field With Multilayer ReBCO Insert. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-5	1.8	0
195	Influence of Current Change Rate During DC Current Limitation on the Coated Conductor Degradation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-5	1.8	2
194	Stability of DC transport in HTS conductor with local critical current reduction. <i>Superconductor Science and Technology</i> , <b>2021</b> , 34, 025005	3.1	15
193	Influence of local deformation on critical current of high temperature superconductor tape. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1559, 012050	0.3	1
192	No-Insulation High-Temperature Superconductor Winding Technique for Electrical Aircraft Propulsion. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 1613-1624	7.6	21
191	Composite Heat Sink Material for Superconducting Tape in Fault Current Limiter Applications. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
190	Advance in the conceptual design of the European DEMO magnet system. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 044013	3.1	22
189	Impact of local geometrical irregularities on critical currents of REBCO tapes in round cables. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 115008	3.1	4
188	Superconducting properties and surface roughness of thin Nb samples fabricated for SRF applications. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1559, 012040	0.3	3

187	Analysis of critical current anisotropy in commercial coated conductors in terms of the maximum entropy approach. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 095004	3.1	4
186	Lift-Factor Analysis of Multifilamentary Coated Conductor Produced Using Two Level Undercut-Profile Substrates. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-4	1.8	
185	AN formulation for numerical modelling of superconductor magnetization in true 3D geometry. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 115001	3.1	8
184	Status of the European Union Project FASTGRID. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	33
183	Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 095008	3.1	17
182	Impact of critical current fluctuations on the performance of a coated conductor tape. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 124001	3.1	16
181	CORC-like cable production and characterization of the solenoid made from it. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 035007	3.1	4
180	Design optimization of superconducting coils based on asymmetrical characteristics of REBCO tapes. <i>Physica C: Superconductivity and Its Applications</i> , <b>2018</b> , 550, 74-77	1.3	7
179	Induction Soldering of Coated Conductor High-Temperature Superconducting Tapes With Lead-Free Solder Alloys. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	11
178	Effect of Mechanical Loading on Coated Conductor Tapes Due to Winding Onto Round Cables. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	7
177	Experimental and Numerical Investigation of Shielding Performance of Superconducting Magnetic Shields Using Coated Conductor Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	6
176	Critical current density of coated conductors determined from rescaled magnetic moment at temperatures close to 77 K. <i>Physica C: Superconductivity and Its Applications</i> , <b>2018</b> , 551, 66-71	1.3	0
175	AC Losses in Superconducting Fault Current Limiters. <i>Asian Journal of Social Science Studies</i> , <b>2018</b> , 45-60	1.3	
174	Structural Modeling of REBCO Coated Conductor Tapes in TORT Cables. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	5
173	Spark-Discharge Plasma as a Method to Produce Low AC Loss Multifilamentary (RE)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-5	1.8	
172	Design and Testing of Coils Wound Using the Conductor-On-Round-Tube (CORT) Cable. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-5	1.8	9
171	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-5	1.8	32
170	Two methods of AC loss calculation in numerical modelling of superconducting coils. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 064005	3.1	10

169	Superconducting HTS coil made from round cable cooled by liquid nitrogen flow. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 105014	3.1	8
168	Numerical study of AC loss of two-layer HTS power transmission cables composed of coated conductors with a ferromagnetic substrate. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , <b>2017</b> , 25, 3528-3539	0.9	3
167	AC susceptibility as a characterization tool for coated conductor tapes. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 114001	3.1	2
166	AC loss characterization of single pancake BSCCO coils by measured different methods. <i>Physica C: Superconductivity and Its Applications</i> , <b>2017</b> , 541, 45-49	1.3	3
165	AC loss characteristics of CORC cable with a Cu former. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 085012	3.1	11
164	Bulk and CC-Tape Based Superconducting Shields for Magnetic Cloaks. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-4	1.8	7
163	AC losses in Bi-2223 Single-Pancake Coils From 72 to 1152 Hz Modeling and Measurements. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-7	1.8	3
162	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	3
161	Structural study of commercially produced (RE)BCO films. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 1-1	1.8	
160	Design of Magnetic Cloak for Experiments in AC Regime. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-6	1.8	6
159	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	38
158	Can Resistive-Type Fault Current Limiter Operate in Cryogen-Free Environment?. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	2
157	Hiding objects in AC magnetic fields of power grid frequency by two-shell ferromagnetic/superconducting cloak. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 033507	3.4	5
156	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	9
155	Round Conductor With Low AC Loss Made From High-Temperature Superconducting Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-4	1.8	7
154	The 4th international workshop on numerical modelling of high temperature superconductors. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 050201	3.1	
153	Dissipation in Superconductor/Ferromagnet Multilayers for AC Magnetic Cloaking. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2015</b> , 28, 725-729	1.5	5
152	Contactless Loop Method for Measurement of AC Losses in HTS Coils. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-4	1.8	7

151	Magnetization ac loss reduction in HTS CORC <sup>®</sup> cables made of striated coated conductors. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 104006	3.1	33
150	Two level undercut-profile substrate for filamentary YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> coated conductors. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 072001	3.1	18
149	Magnetization loop modelling for superconducting/ferromagnetic tube of an ac magnetic cloak. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 044001	3.1	15
148	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 78-110	1.8	204
147	Split coil made of (RE)BCO pancake coils for IC(B) anisotropy measurements of superconductors. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 507, 012014	0.3	
146	AC loss properties of single-layer CORC cables. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 507, 022034	0.3	8
145	Magnetic Cloak for Low Frequency AC Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 1-1	1.8	5
144	Layered Superconductor/Ferromagnet Structures for Magnetic Field Cloaking. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1684, 28		1
143	Investigation of defects in functional layer of high temperature superconducting tapes. <i>Physica C: Superconductivity and Its Applications</i> , <b>2014</b> , 497, 24-29	1.3	5
142	AC Losses and Material Degradation Effects in a Superconducting Tape for SMES Applications. <i>IFIP Advances in Information and Communication Technology</i> , <b>2014</b> , 417-424	0.5	3
141	AC Loss in Pancake Coil Made From 12 mm Wide REBCO Tape. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 5900406-5900406	1.8	36
140	Experimental study of magnetization AC loss in MgB <sub>2</sub> wires and cables with non-magnetic sheath. <i>Physica C: Superconductivity and Its Applications</i> , <b>2013</b> , 495, 182-186	1.3	17
139	Low AC loss cable produced from transposed striated CC tapes. <i>Superconductor Science and Technology</i> , <b>2013</b> , 26, 075020	3.1	52
138	Experimentally Determined Magnetization ac Losses of Mono and Multifilamentary MgB <sub>2</sub> Wires. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2013</b> , 26, 1557-1561	1.5	6
137	A quasistatic magnetic cloak. <i>New Journal of Physics</i> , <b>2013</b> , 15, 053019	2.9	36
136	Non-uniformity of coated conductor tapes. <i>Superconductor Science and Technology</i> , <b>2013</b> , 26, 115013	3.1	21
135	Alternating-current losses in two-layer superconducting cables consisting of second-generation superconductors coated by U-shaped ferromagnetic materials. <i>Chinese Physics B</i> , <b>2013</b> , 22, 128403	1.2	
134	Investigation of Superconductor Uniformity in CC Tapes by Magnetic Field Mapping. <i>Physics Procedia</i> , <b>2012</b> , 36, 617-622		5

133	Experimental realization of a magnetic cloak. <i>Science</i> , <b>2012</b> , 335, 1466-8	33.3	273
132	AC Losses in Coil Wound From Round Wire Coated by a Superconducting Layer. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 4704704-4704704	1.8	12
131	Coated conductor arrangement for reduced AC losses in a resistive-type superconducting fault current limiter. <i>Superconductor Science and Technology</i> , <b>2012</b> , 25, 014005	3.1	13
130	Electromagnetic modeling of high temperature superconductor (HTS) materials and applications <b>2012</b> , 216-256		
129	Study of YBCO Tape Non-Uniformity Based on the AC Loss and the Magnetic Field Distribution in Current Transport. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 3277-3280	1.8	3
128	AC Transport Loss of Coated Conductors in Anti-Parallel Arrangement. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 3307-3310	1.8	3
127	Low-magnetic-field dependence and anisotropy of the critical current density in coated conductors. <i>Superconductor Science and Technology</i> , <b>2011</b> , 24, 065007	3.1	64
126	Toroidal high temperature superconducting coils for ISTTOK. <i>Fusion Engineering and Design</i> , <b>2011</b> , 86, 1458-1461	1.7	
125	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 3293-3296	1.8	6
124	Numerical Simulation of Magnetic Flux Penetration and AC Loss in HTSC Coated Conductor Tapes. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 69-74	1.5	2
123	Transport AC Loss Measurements and Simulations in Bi-2223/Ag Tape with Ni Cover at the Edges. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 391-394	1.5	2
122	AC Losses of Monofilament Ti-clad MgB <sub>2</sub> Wire. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 437-441	1.5	
121	Critical current and AC loss analysis of a superconducting power transmission cable with ferromagnetic diverters. <i>Superconductor Science and Technology</i> , <b>2011</b> , 24, 075001	3.1	9
120	AC loss in stacks of Bi-2223/Ag tapes modified with ferromagnetic covers at the edges. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 105003	3.1	8
119	Transport and magnetization ac losses of ROEBEL assembled coated conductor cables: measurements and calculations. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 014023	3.1	75
118	Critical state and magnetization loss in multifilamentary superconducting wire solved through the commercial finite element code ANSYS. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 115004	3.1	26
117	Experimentally determined transport and magnetization ac losses of small cable models constructed from YBCO coated conductors. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 045029	3.1	21
116	AC losses in coated conductors. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 034012	3.1	104

115	Critical Current and AC Loss of DI-BSCCO Tape Modified by the Deposition of Ferromagnetic Layer on Edges. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 2294-2300	1.8	8
114	AC Loss and Voltage Signal in a Pancake Coil Made of Coated Conductor With Ferromagnetic Substrate. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 2223-2227	1.8	6
113	Magnetic Flux Penetration and Transport AC Loss in Superconductor Coated Conductor on Ferromagnetic Substrate. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 3102-3105	1.8	12
112	Magnetic flux penetration and AC loss in a composite superconducting wire with ferromagnetic parts. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 034017	3.1	74
111	Theoretical and experimental study of AC loss in high temperature superconductor single pancake coils. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 015006	3.1	79
110	Magnetic Field Mapping Above the Superconducting Tape With Ni-Covered Edges. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 3049-3052	1.8	4
109	Experimental and numerical study of influence of ferromagnetic cover on critical current of BiSCCO-2223/Ag tape superconductor. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 153, 012032	0.3	2
108	A special sample holder for AC susceptibility measurements of superconducting samples in high magnetic fields at various temperatures. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 105009	3.1	1
107	AC loss of the short coaxial superconducting cable model made from ReBCO coated tapes. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 97, 012198	0.3	3
106	Modification of critical current in HTSC tape conductors by a ferromagnetic layer. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 97, 012096	0.3	11
105	Influence of DC Magnetic Field on AC Loss of YBCO Coated Conductor with Ferromagnetic Substrate. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 359-362	0.6	3
104	Influence of Ferromagnetic Layer on Critical Current of a Superconducting Wire. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 605-608	0.6	2
103	DC Characterization of the Coaxial Superconducting Cable. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 375-378	0.6	
102	Performance Improvement of Superconducting Tapes Due to Ferromagnetic Cover on Edges. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 3083-3086	1.8	11
101	Study of BSSCO/Ag Tapes With the Help of Voltage Signal Analysis. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 3129-3132	1.8	2
100	Universal correlation between critical current density and normal-state resistivity in porous YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films. <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, 895-899	3.1	10
99	Phenomenological description of flux pinning in non-uniform high-temperature superconductors in magnetic fields lower than the self-field. <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, S271-S277	3.1	24
98	Current distribution and ac loss for a superconducting rectangular strip with in-phase alternating current and applied field. <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, 351-364	3.1	67

97	Reduction of ac transport and magnetization loss of a high-Tc superconducting tape by placing soft ferromagnetic materials at the edges. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 092506	3.4	15
96	AC Loss Measurement of YBCO Cable Model. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 1718-1721	1.8	5
95	AC Losses and Current Sharing in an YBCO Cable. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 1688-1691	1.8	4
94	Predicting AC loss in practical superconductors. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, S60-S66	3.1	24
93	Design of a 30 m long 1 kA 10 kV YBCO cable. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, 418-422	3.1	12
92	Study of ac loss in Bi-2223/Ag tape under the simultaneous action of ac transport current and ac magnetic field shifted in phase. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, 397-404	3.1	21
91	Self-field critical current of a conductor with an elliptical cross-section. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, 732-737	3.1	31
90	Theoretical Estimation of Electromagnetic Loss From the Movement of Superconducting Coil in the W7-X Stellarator. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2006</b> , 16, 123-126	1.8	3
89	Improvement of the self-field critical current of a high-Tc superconducting tape by the edge cover from soft ferromagnetic material. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 072506	3.4	29
88	Influence of gaps in monolayer superconducting cable on AC losses. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 43, 897-900	0.3	9
87	Modelling of the flux penetration into a superconducting strip with magnetic sheath. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 43, 9-13	0.3	2
86	Losses in Bi-2223/Ag tape at simultaneous action of AC transport and AC magnetic field shifted in phase. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 43, 63-66	0.3	5
85	AC loss of YBCO coated tape prepared by laser ablation. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 43, 127-129	0.3	3
84	Calibration free method for measurement of the AC magnetization loss. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 592-595	3.1	88
83	The voltage signal on a superconducting wire in AC transport. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 694-700	3.1	15
82	Hysteresis and coupling losses of superconducting cables at additional change of the applied magnetic field. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 340-345	3.1	6
81	Non-uniform current distribution as the cause of false voltage signals in the ac loss measurement on a superconducting cable. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 780-790	3.1	15
80	Transport versus magnetization technique for determination of critical current densities in superconducting tapes with macroscopic defects. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 388-394	3.1	7



79	Modeling of current density distributions in critical state by commercial FE codes. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 2867-2870	1.8	22
78	Analysis of coupling losses in multifilamentary untwisted BSCCO/Ag tapes through a.c. susceptibility measurements. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 2903-2906	1.8	3
77	Phase shifts of parallel currents in a single-Layer model of Superconducting cables. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 1779-1782	1.8	3
76	A study of coupling loss on bi-columnar BSCCO/Ag tapes through ac susceptibility measurements. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, 501-511	3.1	21
75	Contactless jcdetermination and magnetic coupling in multifilament Bi-2223/Ag tapes. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, 549-554	3.1	
74	Waveform of resistive voltage on superconducting wire at AC current overload. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, 1395-1400	3.1	1
73	The influence of filament arrangement on current distribution and AC loss in Bi-2223/Ag tapes. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, S150-S154	3.1	8
72	Modelling of Magnetic-flux Penetration into Multifilamentary Superconducting Wire with the Help of Magnetic-energy Minimization. <i>European Physical Journal D</i> , <b>2004</b> , 54, 493-496		
71	Measurement of E(I) Characteristic of Superconducting Cable. <i>European Physical Journal D</i> , <b>2004</b> , 54, 497-500		2
70	Study of AC Transport in Superconducting Wire with the Help of Pick-up Coils. <i>European Physical Journal D</i> , <b>2004</b> , 54, 501-504		
69	Cold Core Transformer System for AC Tests of Short Superconducting Cable models. <i>European Physical Journal D</i> , <b>2004</b> , 54, 509-512		
68	A Comparison of Numerical Methods for Superconducting Tapes in the Critical State with Transverse Applied Field. <i>European Physical Journal D</i> , <b>2004</b> , 54, 513-516		
67	Numerical modelling of a HTS cable in AC regime. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 401, 176-181	1.3	7
66	Higher harmonics in voltage on superconductor carrying AC current due to non-linear $I\propto V$ curve. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 401, 191-195	1.3	3
65	Influence of spread in tape properties on $I\propto V$ characteristics measured on superconducting cables. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 401, 227-230	1.3	3
64	$I\propto V$ curve of Bi-2223/Ag tapes in overload conditions determined from AC transport data. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 401, 75-79	1.3	3
63	NUMERICAL CALCULATION OF THE CRITICAL STATE IN SUPERCONDUCTING TAPES ABOVE THE FULL PENETRATION FIELD. <i>International Journal of Modern Physics B</i> , <b>2003</b> , 17, 916-921	1.1	2
62	NUMERICAL INVESTIGATION ON AC PROPERTIES IN HIGH TC SUPERCONDUCTING TAPES. <i>International Journal of Modern Physics B</i> , <b>2003</b> , 17, 528-533	1.1	4

61	Generation of higher harmonics in voltage on superconducting wire carrying cosine-like AC current. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 3622-3625	1.8	2
60	Measurement of DC critical current in superconducting cable with non-uniformities. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1968-1971	1.8	7
59	Magnetic hysteresis loss in Bi-2223/Ag tapes with different filament arrangement. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 371, 229-236	1.3	12
58	Apparent strip-like behavior of superconducting tape due to $j_c(B)$ dependence. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 372-376, 977-979	1.3	1
57	Numerical investigations of the mutual magnetic coupling in superconducting tapes in z-stack arrangement with external AC magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 372-376, 998-1000	1.3	5
56	Behavior of Bi-2223/Ag multifilamentary tapes at AC current overload. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 372-376, 1028-1031	1.3	
55	Critical current and ac susceptibility in superconducting tapes with elliptical cross-section. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 372-376, 1788-1791	1.3	7
54	Magnetic interaction between two superconducting filaments. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 372-376, 1797-1799	1.3	1
53	AC loss and critical current density in Bi-2223 tapes with oxide additives and reinforced Ag sheaths. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 378-381, 1143-1147	1.3	5
52	Contactless electrical measurements of transport ac losses in a 3 m long superconducting cable. <i>Superconductor Science and Technology</i> , <b>2002</b> , 15, 898-901	3.1	2
51	Partitioning of transport AC loss in a superconducting tape into magnetic and resistive components. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 2967-2970	1.8	20
50	Shielding and losses in multifilamentary tapes exposed to perpendicular AC magnetic fields. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 2776-2779	1.8	8
49	Microstructure-dependent magnetoresistance in $\text{La}_{1-x}\text{MnO}_3$ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 211, 67-72	2.8	12
48	Experimental study of the effect of filament orientation on transport and magnetic ac loss in Bi-2223/Ag multifilamentary tapes. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, 1580-1586	3.1	12
47	Current and voltage distribution in composite superconductors with resistive barriers - symmetric case. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, 1450-1460	3.1	7
46	Electrical and mechanical properties of Bi-2223/Ag/barrier/Ag composite tapes. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, 378-384	3.1	15
45	Ac losses in multifilamentary high-T <sub>c</sub> tapes due to a perpendicular ac magnetic field. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, 1327-1337	3.1	33
44	Magnetic flux shielding in superconducting strip arrays. <i>Physical Review B</i> , <b>2000</b> , 61, 6413-6421	3.3	39

43	Application of electrical and calorimetric methods to the AC loss characterization of cable conductors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 1053-1056	1.8	11
42	Magnetic measurement of transport AC losses in Bi-2223/Ag tapes. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 310, 48-51	1.3	3
41	Comparison of transport and magnetic AC losses in Bi-2223/Ag tapes [the role of superconducting core geometry. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 310, 168-172	1.3	12
40	Self-field loss of BSCCO/Ag tape in external AC magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 300, 1-5	1.3	24
39	Estimation of Jc(B) dependence from self-field alternating current (AC) losses measured on Bi-2223/Ag tapes. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 310, 52-56	1.3	1
38	Low frequency impedance of a round superconducting wire. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 310, 116-121	1.3	6
37	Contactless measurement of hysteretic transport AC losses in multifilamentary BiSrCaCuO-2223/Ag tapes. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 308, 203-214	1.3	8
36	A.c. losses in Bi-2223 tapes for power applications. <i>Superconductor Science and Technology</i> , <b>1997</b> , 10, 909-913	3.1	22
35	Characterization of high-temperature superconductors by AC susceptibility measurements. <i>Superconductor Science and Technology</i> , <b>1997</b> , 10, 523-542	3.1	239
34	Critical state and AC losses in multifilamentary BiSrCaCuO-2223/Ag tapes studied by transport and magnetic measurements. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 279, 39-46	1.3	14
33	Transport AC losses in round superconducting wire consisting of two concentric shells with different critical current density. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 280, 151-157	1.3	42
32	Temperature dependence of the surface barrier on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> grains detected by AC susceptibility measurements. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 2379-2380 <sup>1-3</sup>		
31	Pinning potential, its relativity and dependence on temperature and magnetic field studied on the basis of the I-V characteristics of multifilamentary superconductors. <i>Superconductor Science and Technology</i> , <b>1996</b> , 9, 184-191	3.1	8
30	Texturing of pressed and sintered BiSrCaCuO studied by AC susceptibility. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1483-1484		1
29	Treating the I-V characteristics of low as well as high Tc superconductors in context with the pinning potential. <i>Applied Superconductivity</i> , <b>1996</b> , 4, 277-290		6
28	Flux pinning in Bi-2212/Ag-based wires and coils. <i>Physical Review B</i> , <b>1996</b> , 54, 12543-12550	3.3	36
27	Structural and electrical properties of Bi(Pb) <sub>x</sub> Sr <sub>y</sub> Ca <sub>z</sub> Cu <sub>2</sub> O obtained by hot pressing. <i>Physica C: Superconductivity and Its Applications</i> , <b>1995</b> , 248, 29-41	1.3	12
26	Variable temperature insert for a.c. susceptibility measurements at a.c. field amplitudes up to 0.1 T. <i>Cryogenics</i> , <b>1994</b> , 34, 837-838	1.8	7

25	Magnetic irreversibility in superconductors characterised by shielding current density. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 2753-2754	1.3	7
24	A.c. susceptibility of melt-processed high T <sub>c</sub> superconductors. <i>Cryogenics</i> , <b>1993</b> , 33, 133-137	1.8	4
23	Irreversibility line and non-linearity in the AC response caused by flux pinning in high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 217, 297-312	1.3	30
22	Field dependence of critical current density determined from a.c. susceptibility measurements. <i>Cryogenics</i> , <b>1993</b> , 33, 277-280	1.8	1
21	Hysteresis loops and critical currents determined by means of lock-in technique. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, S137-S140	3.1	2
20	Penetration field in superconductors with considerable flux creep and flux flow. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, S452-S455	3.1	3
19	Low frequency magnetic measurements on high-T <sub>c</sub> superconducting materials. <i>Thermochimica Acta</i> , <b>1991</b> , 174, 299-320	2.9	7
18	Influence of conductor temperature on the real voltage-current characteristic of composite superconductors. <i>Superconductor Science and Technology</i> , <b>1991</b> , 4, 172-178	3.1	3
17	A simple digital system for ac magnetic measurements on superconductors. <i>Review of Scientific Instruments</i> , <b>1991</b> , 62, 1796-1800	1.7	7
16	Use of a phase-sensitive detector for measuring magnetic hysteresis loops. <i>Review of Scientific Instruments</i> , <b>1991</b> , 62, 2019-2021	1.7	13
15	Frequency dependence of AC susceptibility due to the viscous motion of flux lines. <i>IEEE Transactions on Magnetics</i> , <b>1991</b> , 27, 1057-1060	2	20
14	The flux distribution and hysteresis losses in high T <sub>c</sub> superconductors including viscous forces on flux lines. <i>European Physical Journal D</i> , <b>1990</b> , 40, 556-568		1
13	The influence of viscous flux flow on AC losses of high T <sub>c</sub> superconductors. <i>Physica B: Condensed Matter</i> , <b>1990</b> , 165-166, 1399-1400	2.8	4
12	Magnetic field dependence of critical current density of Bi <sub>2</sub> Pb <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>2</sub> O polycrystalline superconductor. <i>Solid State Communications</i> , <b>1990</b> , 73, 349-352	1.6	11
11	Influence of viscous flux flow on AC magnetisation of high-T <sub>c</sub> superconductors. <i>Superconductor Science and Technology</i> , <b>1990</b> , 3, 94-99	3.1	24
10	Voltage versus current characteristics of high T <sub>c</sub> superconductors described by a statistical series-parallel model. <i>Cryogenics</i> , <b>1989</b> , 29, 731-735	1.8	2
9	AC magnetization of high T <sub>c</sub> superconductors at low superimposed DC magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 160, 1-7	1.3	19
8	Study of flux flow in high T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 162-164, 681-682	1.3	11

7	Fast inductive method for determination of macroscopic critical current density in bulk high-Tc superconductors. <i>Solid State Communications</i> , <b>1989</b> , 70, 879-883	1.6	13
6	Losses in transformer-like coils wound from a very fine filament Nb <sub>3</sub> Ti superconductor. <i>Cryogenics</i> , <b>1988</b> , 28, 386-393	1.8	5
5	The complex AC susceptibility of superconducting Y <sub>2</sub> BaCuO thin film and bulk samples. <i>Physica Status Solidi A</i> , <b>1988</b> , 109, 205-210		15
4	Determination of shielding current density in bulk cylindrical samples of high-Tc superconductors from AC susceptibility measurements. <i>Solid State Communications</i> , <b>1988</b> , 66, 645-649	1.6	108
3	Measurement of magnetization curves and losses in superconducting magnets at pulse durations of $\mu$ s. <i>Cryogenics</i> , <b>1986</b> , 26, 273-280	1.8	1
2	Loss and magnetization measurement of superconducting magnets pulsed at very low ramp rates. <i>Cryogenics</i> , <b>1985</b> , 25, 375-380	1.8	3
1	AC losses in multilayer superconducting tapes. <i>Cryogenics</i> , <b>1984</b> , 24, 119-126	1.8	8