

Tae Kuk Ko

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.

111
papers

861
citations

14
h-index

25
g-index

111
ext. papers

978
ext. citations

1.8
avg, IF

3.58
L-index

#	Paper	IF	Citations
111	Thermal and Electrical Characteristics of Hollow Former with Fault Current Limiting Function for Superconducting Power Cable. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
110	Measurement of Magnetic Field Properties of a 3.0 T/m Air-Core HTS Quadrupole Magnet and Optimal Shape Design to Increase the Critical Current Reduced by the Incident Magnetic Field. <i>Electronics (Switzerland)</i> , 2020 , 9, 450	2.6	2
109	Charging Characteristics of Series Connected Insulation and No-Insulation HTS Coils by Rotary HTS Flux Pump. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	1
108	A Novel Fault Diagnosis Method for High-Temperature Superconducting Field Coil of Superconducting Rotating Machine. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 223	2.6	3
107	Optimal Design and Performance Evaluation of Dual-Capacitor Switching (DCS) Quench Protection System for Superconducting Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	1
106	Effect of Crossover Turns in Double-Pancake Winding on Magnetic Field Homogeneity of HTS NMR Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	
105	A New Quench Protection System Using Dual-Capacitor Switching for Fast Energy Extraction From HTS Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	2
104	Fabrication and Charging Test of HTS Field Windings Using HTS Contactless Rotary Excitation Device. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-7	1.8	7
103	. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	2
102	Charging Characteristics of Rotary HTS Flux Pump With Several Superconducting Wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	4
101	Degradation of Critical Current in an HTS Tape With Combined Bending and Torsion Considering Curvature of Elliptical Shape. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	2
100	Experimental Analysis of Charging Characteristics of HTS Field Coils With HTS Contactless Rotary Excitation Device Considering Various HTS Loads. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	6
99	Characteristic Analysis of a 1-kW-Class HTS Motor Considering Armature Current Information. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	5
98	Analytic Study of the Active Quench Detection Method for High-Temperature Superconducting Magnet Using Resonance Circuit. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-4	1.8	1
97	PID Control of an Electromagnet-Based Rotary HTS Flux Pump for Maintaining Constant Field in HTS Synchronous Motors. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	11
96	A Study on the YBCO-Coated Conductor Current Lead With Asymmetric Structure Tape Considering Temperature Distribution. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	1
95	Design and Test of HTS Power Converting System With Multiple Magnets Considering Various Sequential Controls of Heater-Triggered Switches. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	

94	Experimental Analysis of Thermally and Magnetically Triggered Switch for High-T _c Superconducting Power Converting System. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	1
93	Experimental Analysis on AC Loss and Fault Current Test of HTS Coils Co-Wound With Various Inserted Materials. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 1-1	1.8	6
92	Discharge Voltage Effects on High-T _c Superconducting Tapes With Respect to Tensile Stress. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 1-1	1.8	
91	Test and Analysis of Electromagnetic and Mechanical Properties of HTS Coil During Quench State. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	4
90	Analysis of the Notch Effect on Flux Diverters for High-Temperature Superconducting Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	2
89	Operational Characteristics of HTS Coils With Flux Diverters in Semipersistent Mode Under Alternating Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	4
88	Quench Analysis of a Superconducting Magnet for RISP 28 GHz ECR Ion Source. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	6
87	Degradation Characteristics of Superconducting Wires With Respect to Electrical Breakdown Tests. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	2
86	Analysis of a High-T _c Superconducting Power Converting System. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	4
85	Evaluation of Electrical and Thermal Properties of Stacked YBCO Coated Conductors for Current Lead Application. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	5
84	A Numerical and Experimental Analysis of the Temperature Dependence of the n-Index for 2G HTS Tape Surrounding the 77 K Temperature Range. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	1
83	Experimental Analysis on Initial Current Decay Characteristics of Persistent-Mode HTS Coil by External Alternating Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	17
82	Operational Characteristics of a Small-Scale Novel Hybrid Resistive-Type SFCL With Controlled Power Electronics. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-5	1.8	6
81	Analysis of the Current Charge and Discharge Characteristics of a Small-Scale Turn-to-Turn Soldered HTS Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	1
80	Fabrication and Experimental Analysis of 6.6 kV/100 A Class Single-Phase Superconducting Fault Current Controller With Superconducting DC Reactor Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-5	1.8	0
79	Dielectric Characteristics of Solid Insulation Materials With Respect to Surface Roughness. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	6
78	Quench Detection Method for HTS Coils Using Electromagnetically Coupled Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	6
77	Proof-of-Concept of a Millisecond-Scale Electromagnetic Levitator Using High-Temperature Superconducting Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	

76	The Effect of Bobbin Material on the Thermal Stability of a Conduction-Cooled HTS Racetrack Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	1
75	Conceptual Design of Superconducting Linear Synchronous Motor for 600-km/h Wheel-Type Railway. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	33
74	Design and Experimental Evaluation on kA-Class HTS Binary Superconducting Current Lead Using a Liquid Nitrogen Bath Under Short-Term Current Test. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	1
73	Numerical Analysis and Design of Damper Layer for MW-Class HTS Synchronous Wind Turbine Generator. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	0
72	Electromagnetic Design of a 15 MW-Class HTS Flux Switching Synchronous Generator considering Mechanical Stress of the Rotor Core. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	0
71	Design and Test of a High-Tc Superconducting Power Conversion System With the GdBCO Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	1
70	Evaluation on Electrical and Thermal Characteristics of Multi-Stacked HTS Coated Conductor With Various Stabilizers. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	2
69	Corrections to Evaluations on AC Electrical Characteristics of No-Insulation Coil for Power Devices [Jun 13 4700604]. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 9700201-9700201	1.8	7
68	A Study on an Algorithm for Finding Magnetic Center of an Asymmetric HTS Magnet With 3-Axis Mapper. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 4900204-4900204	1.8	
67	HTS Wire Consumption Reduction in a Coil With an Actively Controllable Magnetic Core for a Fault Current Controller. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5604004-5604004	1.8	
66	A Study on the Superconducting Synchronous Generator With the Fixed-Type Field Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5200305-5200305	1.8	5
65	Evaluations on AC Electrical Characteristics of No-Insulation Coil for Power Devices. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 4700604-4700604	1.8	4
64	A Novel and Smart Design of Superconducting Fault Current Controller: Implementation and Verification for Various Fault Condition. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5602904-5602904	1.8	2
63	A Study on the Shape of Iron-Core for a Hybrid Electro-Magnetic Suspension System. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 3600204-3600204	1.8	0
62	A Study on the Loss in a Superconducting Magnet by the Control Current in a Hybrid Electro-Magnetic Suspension System. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 3600105-3600105	1.8	0
61	Design, Fabrication, and Operating Test of the Prototype HTS Electromagnet for EMS-Based Maglev. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 3600504-3600504	1.8	4
60	A Study on Recovery Characteristics of Joined Tapes From the View of Thermal and Electrical Variation for Superconducting Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 4703505-4703505	1.8	3
59	Experimental Study of the New Type of HTS Elements for Current Leads to be Applied to the Nuclear Fusion Devices. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 4801204-4801204	1.8	2

58	Characteristic Comparison for the Various Winding Methods of HTS Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 4902907-4902907	1.8	6
57	Numerical Analysis and Electrical Insulation Design of a Single-Phase 154 kV Class Non-Inductively Wound Solenoid Type Superconducting Fault Current Limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5602104-5602104	1.8	2
56	Transition Criteria for Critical Current Measurement of High Temperature Superconductor in AC Circumstance. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 6400204-6400204	1.8	2
55	Characteristics of Contactless Power Transfer for HTS Coil Based on Electromagnetic Resonance Coupling. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5400604-5400604	1.8	23
54	The Effect of Operating Temperature on Transport AC Loss According to an YBCO Superconducting Tape Array Geometry. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 3329-3333	1.8	1
53	Over-Current Characteristics Influenced by Ag Stabilizer Thickness in a GdBCO Coated Conductor (CC). <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 3029-3032	1.8	3
52	Conceptual Design for HTS Coil in Superconducting Electromagnet for Maglev. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 1560-1563	1.8	7
51	Experimental Analysis of Unequal Voltage Distribution on a Single YBCO Coated Conductor Affected by Inhomogeneous Critical Currents in Liquid Nitrogen and Sub-Cooled Liquid Nitrogen. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 2992-2996	1.8	2
50	Theoretical Analysis and Design Consideration of Advanced Linear Type Magnetic Flux Pump. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 1097-1100	1.8	5
49	A Research on Design Method and Theoretical Analysis of Electromagnetic Suspension System Considering Magnetic Interface Between Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 1523-1527	1.8	4
48	Experimental Test and Numerical Analysis to Estimate Permissible Transport Current Considering Protection of High-Tc Superconducting Tapes in Adiabatic Condition. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 1665-1669	1.8	
47	Experimental Study on the Lightning Impulse Dielectric Characteristics of Sub-Cooled Liquid Nitrogen for a High Voltage Superconducting Fault Current Limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 1336-1339	1.8	2
46	A Research About Bending Strain Effect on Splice Characteristics in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Coated Conductors Under Various Pressures in Splicing. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 3001-3004	1.8	4
45	A Study on the Non-Inductive Coils for Hybrid Fault Current Limiter Using Experiment and Numerical Analysis. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1151-1154	1.8	9
44	Experimental Analysis of Flux Pump for Compensating Current Decay in the Persistent Current Mode Using HTS Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1693-1696	1.8	4
43	Estimation of Current Decay Performance of HTS Electromagnet for Maglev. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 907-910	1.8	5
42	Longitudinal and Transverse Quench Propagation in Pancake Coils Using Coated Conductors With Additional Copper Tape in Liquid Helium. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 2160-2163	1.8	3
41	Proposal and Fundamental Analysis of Cylindrical Type Magnetic Flux Pump for High Field Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1685-1688	1.8	1

40	Experimental Study on the Electrical Breakdown Characteristics of Sub-Cooled Liquid Nitrogen for Designing a High Voltage Superconducting Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1662-1666	1.8	7
39	Parameter Determination of a Condition for Simultaneous Quench in Series-Connected YBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1207-1210	1.8	2
38	Resistive switching characteristics of TiN/MnO ₂ /Pt memory devices. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 233-235	2.5	9
37	Bipolar resistive switching behavior in Ti/MnO ₂ /Pt structure for nonvolatile memory devices. <i>Applied Physics Letters</i> , 2009 , 95, 042105	3.4	122
36	Study on Optimal Location of a Resistive SFCL Applied to an Electric Power Grid. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 2048-2052	1.8	41
35	Experimental Analysis of Bifilar Pancake Type Fault Current Limiting Coil Using Stabilizer-Free Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 1797-1800	1.8	5
34	Characteristics of Simultaneous Quenches in Series-Connected YBaCuO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 1814-1817	1.8	1
33	Analytical and Experimental Studies on the Hybrid Fault Current Limiter Employing Asymmetric Non-Inductive Coil and Fast Switch. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 1896-1899	1.8	19
32	Study on a Series Resistive SFCL to Improve Power System Transient Stability: Modeling, Simulation, and Experimental Verification. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2412-2419	8.9	73
31	Theoretical and Experimental Analysis of AC Loss Characteristic of Bifilar Pancake Coil With Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2008 , 18, 1232-1235	1.8	13
30	Determination of Maximum Permissible Temperature Rise Considering Repetitive Over-Current Characteristics of YBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2008 , 18, 660-663	1.8	20
29	Design and Test of a Superconducting Power Supply With YBCO Coated Conductor Load. <i>IEEE Transactions on Applied Superconductivity</i> , 2008 , 18, 1415-1418	1.8	3
28	Recovery Characteristics of Resistive SFCL Wound With YBCO Coated Conductor in a Power System. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 1859-1862	1.8	26
27	Electrical Breakdown Characteristics of Superconducting Magnet System in Sub-Cooled Liquid Nitrogen. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 1509-1512	1.8	14
26	Characteristic Analysis of HTSC Persistent Current Switch for Maglev Application. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 2099-2102	1.8	8
25	Current-Lead Design for Cryocooled HTS Fault Current Limiters. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 2244-2247	1.8	1
24	Analysis of the Operational Characteristics of a Resistive SFCL by Using the YBCO Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 1851-1854	1.8	18
23	Analysis of a Joint Method Between Superconducting YBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3266-3269	1.8	49

22	A Study on the Design of the Stabilizer of Coated Conductor for Applying to SFCL. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 1855-1858	1.8	23
21	Development of 220 V/300 A Class Non-Inductive Winding Type Fault Current Limiter Using 2G HTS Wire. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 1863-1866	1.8	27
20	Dielectric Tests of Superconducting Coils for Development of High Voltage Superconducting Machines. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 1493-1496	1.8	11
19	Characteristics Analysis of a High-T _c Persistent Current System With Double Pancake Magnet Using Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3282-3285	1.8	1
18	The short-circuit characteristics of a DC reactor type superconducting fault current limiter with fault detection and signal control of the power converter. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 2102-2105	1.8	13
17	Design and manufacturing of the large scale high-T/sub c/ superconducting DC magnet for the 2.3 MVA SFCL. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 1965-1969	1.8	5
16	DC critical current estimate of the short HTS cable consisted of Bi-2223 tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 670-673	1.8	2
15	Determination of heater triggering parameters of superconducting power supply with series-connected double-pancake load. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 650-653 ^{1.8}		
14	Design and cooling characteristic results of cryogenic system for 6.6 kV/200 A inductive fault current limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 883-886	1.8	6
13	Development of 6.6 kV-200 A DC reactor type superconducting fault current limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 867-870	1.8	13
12	Design, fabrication, and test of high-T _c superconducting DC reactor for inductive superconducting fault current limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 827-830	1.8	17
11	Electrical degradation of a high-T/sub c/ superconductor by continuous current transport. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 2949-2952	1.8	5
10	Characteristic analysis of a heater-triggered switching system for the charging of Bi-2223 double-pancake load. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 2227-2230	1.8	2
9	Design and test of modified bridge type superconducting fault current limiter with reverse magnetized core. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 2016-2019	1.8	4
8	Characteristics of critical current of high-T/sub c/ superconducting magnets wound with various tensions. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 2080-2083	1.8	5
7	A study on the efficiency of low-T _c superconducting power supply considering the series-parallel connections of superconducting circuits. <i>IEEE Transactions on Applied Superconductivity</i> , 2002 , 12, 804-807 ^{1.8}		2
6	Test of DC reactor type fault current limiter using SMES magnet for optimal design. <i>IEEE Transactions on Applied Superconductivity</i> , 2002 , 12, 850-853	1.8	11
5	The short circuit analysis of integrated three phase superconducting fault current limiter with two phase superconducting circuits. <i>IEEE Transactions on Applied Superconductivity</i> , 2002 , 12, 854-858	1.8	

4	A variation of impedance of a high-Tc superconducting fault current limiter with an open core. <i>IEEE Transactions on Applied Superconductivity</i> , 2002 , 12, 846-849	1.8	2
3	Design, fabrication and testing of a high-Tc superconducting power supply with the Bi-2223 load. <i>IEEE Transactions on Applied Superconductivity</i> , 2002 , 12, 837-841	1.8	1
2	Design and characteristic analysis of a rod type high-Tc superconducting fault current limiter through electromagnetic analysis. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 2102-2105	1.8	10
1	Analysis of the operational characteristics of a high-Tc superconducting power supply with the Bi-2223 pancake load. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 4071-4077	1.8	1