

# Ji Hyung Kim

## List of Publications by Year in descending order

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times ranked

214  
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#	ARTICLE	IF	CITATIONS
1	Electromagnetic characteristic analysis of a REBCO magnet with a current bypass/distribution winding technique under an asynchronous rotating magnetic field. Superconductor Science and Technology, 2022, 35, 045017.	3.5	6
2	Effects of stainless steel thickness and winding tension on electrical and thermal characteristics of metal insulation racetrack coils for 10-MW-class HTS wind generator. Cryogenics, 2021, 115, 103256.	1.7	8
3	Charging Characteristics of Series Connected Insulation and No-Insulation HTS Coils by Rotary HTS Flux Pump. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	3
4	Critical Temperature Prediction for a Superconductor: A Variational Bayesian Neural Network Approach. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	19
5	Design and Analysis of HTS Rotor-Field Coils of a 10-MW-Class HTS Generator Considering Various Electric Insulation Techniques. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-7.	1.7	9
6	Fabrication and performance testing of a 1-kW-class high-temperature superconducting generator with a high-temperature superconducting contactless field exciter. Superconductor Science and Technology, 2020, 33, 095003.	3.5	17
7	Fabrication and Charging Test of HTS Field Windings Using HTS Contactless Rotary Excitation Device. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.7	9
8	Analysis on Electrical and Thermal Characteristics of a No-Insulation HTS Coil Considering Heat Generation in Steady and Transient States. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	12
9	Charging Characteristics of Rotary HTS Flux Pump With Several Superconducting Wires. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
10	Electrical Characteristics of Smart Insulation 2G HTS Coils Based on Three Fabrication Methods. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	8
11	Design, analysis, and fabrication of salient field-pole for a 1-kW-class HTS rotating machine. Cryogenics, 2019, 97, 126-132.	1.7	13
12	Degradation of Critical Current in an HTS Tape With Combined Bending and Torsion Considering Curvature of Elliptical Shape. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	4
13	Experimental Analysis of Charging Characteristics of HTS Field Coils With HTS Contactless Rotary Excitation Device Considering Various HTS Loads. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	9
14	Quench Behavior of 2G HTS Coils With Polyimide Film and MIT Material Under Over Pulse-Current. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	11
15	Methods for Increasing the Saturation Current and Charging Speed of a Rotary HTS Flux-Pump to Charge the Field Coil of a Synchronous Motor. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	19
16	Degradation of critical current in an HTS coated conductor considering curvature of ellipse for rotating flux pump. Cryogenics, 2018, 89, 141-146.	1.7	9
17	Characteristic Analysis of a 1-kW-Class HTS Motor Considering Armature Current Information. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	7
18	PID Control of an Electromagnet-Based Rotary HTS Flux Pump for Maintaining Constant Field in HTS Synchronous Motors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Thermal stability analysis of second-generation high-temperature superconductor according to stabilizer thickness. , 2018, , .		0
20	Study on Thermal-Quench Behaviors of GdBCO Coils Wound With Silicon Grease as an Insulation Material. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
21	Design and Analysis of Cooling Structure on Advanced Air-Core Stator for Megawatt-Class HTS Synchronous Motor. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-7.	1.7	12
22	A Study on Charge&quot;Discharge Characteristics of No-Insulation GdBCO Magnets Energized via a Flux Injector. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.	1.7	11
23	Electrical Characteristic Analysis According to Contact Resistance Between Turns of HTS Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	6
24	Effects of Stabilizer Thickness of 2G HTS Wire on the Design of a 1.5-MW-Class HTS Synchronous Machine. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	7
25	Economic Analysis of a 1.5-MW-Class HTS Synchronous Machine Considering Various Commercial 2G CC Tapes. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	6
26	Cooling Performance and Thermal Characteristics of No-Insulation GdBCO Magnet Cooled by a Mixed Cryogen Cooling System. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	5
27	Analysis of the Mechanical Characteristics of a 17-MW-Class High-Temperature Superconducting Synchronous Motor. Journal of Superconductivity and Novel Magnetism, 2015, 28, 671-679.	1.8	11
28	Characteristic Analysis of Various Structural Shapes of Superconducting Field Coils. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	8
29	Thermal Quench Behaviors of No-Insulation Coils Wound Using GdBCO Coated Conductor Tapes With Various Lamination Materials. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	14