

# Ji Hyung Kim

## List of Publications by Year in descending order

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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        |
| 2  | Critical Temperature Prediction for a Superconductor: A Variational Bayesian Neural Network Approach. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.   | 1.7 | 19        |
| 3  | 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        |
| 4  | 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        |
| 5  | 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        |
| 6  | Design, analysis, and fabrication of salient field-pole for a 1-kW-class HTS rotating machine. Cryogenics, 2019, 97, 126-132.  | 1.7 | 13        |
| 7  | 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        |
| 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  | 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        |
| 10 | A Study on Charge-Discharge Characteristics of No-Insulation GdBCO Magnets Energized via a Flux Injector. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.   | 1.7 | 11        |
| 11 | 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        |
| 12 | 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         |
| 13 | 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         |
| 14 | 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         |
| 15 | 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         |
| 16 | Characteristic Analysis of Various Structural Shapes of Superconducting Field Coils. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.  | 1.7 | 8         |
| 17 | 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         |
| 18 | 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         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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         |
| 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 | 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         |
| 22 | Electrical Characteristic Analysis According to Contact Resistance Between Turns of HTS Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.   | 1.7 | 6         |
| 23 | 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         |
| 24 | Charging Characteristics of Rotary HTS Flux Pump With Several Superconducting Wires. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.  | 1.7 | 6         |
| 25 | 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         |
| 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 | 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         |
| 28 | 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         |
| 29 | Thermal stability analysis of second-generation high-temperature superconductor according to stabilizer thickness. , 2018, , .   |     | 0         |