

Dongkeun Park

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Assembly and Test of a 3-Nested-Coil 800-MHz REBCO Insert (H800) for the MIT 1.3 GHz LTS/HTS NMR Magnet. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	58
2	Magnetization and screening current in an 800 MHz (18.8 T) REBCO nuclear magnetic resonance insert magnet: experimental results and numerical analysis. Superconductor Science and Technology, 2019, 32, 105007.	3.5	55
3	Screening-Current-Induced Strain Gradient on REBCO Conductor: An Experimental and Analytical Study With Small Coils Wound With Monofilament and Striated Multifilament REBCO Tapes. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	36
4	MIT 1.3-GHz LTS/HTS NMR Magnet: Post Quench Analysis and New 800-MHz Insert Design. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	31
5	Quench Analyses of the MIT 1.3-GHz LTS/HTS NMR Magnet. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	25
6	Design Overview of the MIT 1.3-GHz LTS/HTS NMR Magnet with a New REBCO Insert. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	25
7	Construction and Test Results of Coils 2 and 3 of a 3-Nested-Coil 800-MHz REBCO Insert for the MIT 1.3-GHz LTS/HTS NMR Magnet. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	23
8	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
9	A Tabletop Persistent-Mode, Liquid Helium-Free 1.5-T MgB ₂ “Finger” MRI Magnet: Construction and Operation of a Prototype Magnet. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	13
10	Design of a Tabletop Liquid-Helium-Free 23.5-T Magnet Prototype Toward 1-GHz Microcoil NMR. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	12
11	HTS Shim Coils Energized by a Flux Pump for the MIT 1.3-GHz LTS/HTS NMR Magnet: Design, Construction, and Results of a Proof-of-Concept Prototype. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	10
12	A Cryogen-Free 25-T REBCO Magnet With the Extreme-No-Insulation Winding Technique. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	10
13	A Field-Shaking System to Reduce the Screening-Current-Induced Field in the 800-MHz HTS Insert of the MIT 1.3-GHz LTS/HTS NMR Magnet: A Small-Model Study. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	9
14	Persistent-mode operation and magnetization behavior of a solid-nitrogen-cooled MgB ₂ small-scale test coil towards a tabletop 1.5-T osteoporosis MRI. Superconductor Science and Technology, 2020, 33, 125007.	3.5	9
15	A Tabletop Persistent-Mode, Liquid-Helium-Free, 1.5-T/90-mm MgB ₂ “Finger” MRI Magnet for Osteoporosis Screening: Two Design Options. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	7
16	A simple screening current simulation method using equivalent circuit model for REBCO pancake coils. Superconductor Science and Technology, 2020, 33, 115005.	3.5	7
17	Experimental and Numerical Studies on a Method to Mitigate Screening Current-Induced Field for No-Insulation REBCO Coils. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	5
18	An MgB ₂ Superconducting Joint With Its Own Heat-Treatment Schedule. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5

#	ARTICLE	IF	CITATIONS
19	Design of a Magnet and Gradient Coils for a Tabletop Liquid-Helium-Free, Persistent-Mode 1.5-T MgB ₂ Osteoporosis MRI. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	3
20	Hot-Spot Modeling of REBCO NI Pancake Coil: Analytical and Experimental Approaches. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	3
21	Prototype REBCO Z1 and Z2 shim coils for ultra high-field high-temperature superconducting NMR magnets. Scientific Reports, 2020, 10, 21946.	3.3	3
22	Partial-Insulation HTS Magnet for Reduction of Quench-Induced Peak Currents. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
23	Quench Analysis of an LTS Quadrupole Triplet Magnet System for the IBS RAON In-Flight Fragment Separator. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.7	1