

Masataka Iwakuma

List of Publications by Year in descending order

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papers

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200
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#	ARTICLE	IF	CITATIONS
1	REBCO Trapezoidal Armature Windings for Superconducting Induction Motors. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-6.	1.7	3
2	<i>J</i> and Composition Distribution of YBCO Coated Conductors Fabricated by the TFA-MOD Process. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	1
3	Experimental Evaluation of Current Distribution in Three-Strand Transposed Parallel Conductors Composed of REBCO Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
4	Experimental Evaluation of 1 kW-class Prototype REBCO Fully Superconducting Synchronous Motor Cooled by Subcooled Liquid Nitrogen for E-Aircraft. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	25
5	Additional AC Loss Properties of Three-Strand Transposed Parallel Conductors Composed of REBa ₂ Cu ₃ O _y Tapes. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	2
6	Conceptual Design of Superconducting Induction Motors Using REBa ₂ Cu ₃ O _y Superconducting Tapes for Electric Aircraft. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	8
7	Conceptual Design and Numerical Analysis of 10MW Fully Superconducting Synchronous Generators Installed With a Novel Casing Structure. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-7.	1.7	7
8	Conceptual Design and Electromagnetic Analysis of 2 MW Fully Superconducting Synchronous Motors With Superconducting Magnetic Shields for Turbo-Electric Propulsion System. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	15
9	Lightweight Design of Tens-MW Fully-Superconducting Wind Turbine Generators With High-Performance REBa ₂ Cu ₃ O _y Wires. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6.	1.7	17
10	Economic Evaluation of 23 kV Tri-Axial HTS Cable Application to Power System. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.7	18
11	Design Study of 10 MW REBCO Fully Superconducting Synchronous Generator for Electric Aircraft. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	35
12	Theoretical Investigation of Current-Sharing Properties of Three-Strand Parallel Conductors Composed of REBa ₂ Cu ₃ O _y Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	0
13	Numerical Analysis of Current-Limiting Cooperation of a 20 MVA Superconducting Transformer and Cable. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
14	Commercial Design and Operating Characteristics of a 300 kW Superconducting Induction Heater (SIH) Based on HTS Magnets. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	19
15	Experimental Validation of Theoretical Expressions on Additional AC Loss of Two-Strand Parallel Conductors Composed of REBa ₂ Cu ₃ O _y Tapes via Pick-Up-Coil Method. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	4
16	Sudden Short-Circuit Test of 22-kV YBCO Triaxial Superconducting Cable. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	10
17	Difference of AC Losses Between Nonstriated and Striated Tape and Applicability of Temperature Scaling Law to Stacked Striated Tape. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	3
18	Improved Flux Pinning for High-Field Applications in BaHfO ₃ -Doped SmBa ₂ Cu ₃ O _y -Coated Conductors With High Density of Random Pinning Centers Induced by BaHfO ₃ Nanorods. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	4

#	ARTICLE	IF	CITATIONS
19	Design Study of 2-MW Fully Superconducting Synchronous Motors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	22