

KÃ©vin Berger

List of Publications by Year in descending order

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72
docs citations

72
times ranked

461
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and modelling tools for DC HTS cables for the future railway network in France. Superconductor Science and Technology, 2022, 35, 024003.	3.5	12
2	Flux Pinning Docking Interfaces in Satellites Using Superconducting Foams as Trapped Field Magnets. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
3	Microstructural Parameters for Modelling of Superconducting Foams. Materials, 2022, 15, 2303.	2.9	1
4	Magnetic phases in superconducting, polycrystalline bulk FeSe samples. AIP Advances, 2021, 11, .	1.3	16
5	3-D Semi-Analytical Model of a Superconducting Axial Flux Modulation Machine. IEEE Transactions on Magnetics, 2021, 57, 1-15.	2.1	3
6	Characterization of High-Temperature Superconductor Bulks for Electrical Machine Application. Materials, 2021, 14, 1636.	2.9	13
7	Review on the Use of Superconducting Bulks for Magnetic Screening in Electrical Machines for Aircraft Applications. Materials, 2021, 14, 2847.	2.9	19
8	Shielding Effect on Flux Trapping in Pulsed-Field Magnetizing for Mg-B Bulk Magnet. Journal of Physics: Conference Series, 2021, 1975, 012019.	0.4	0
9	Thermal and Electromagnetic Design of DC HTS Cables for the Future French Railway Network. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-8.	1.7	9
10	Overview of High Temperature Superconductor Machines. Elektrichestvo, 2021, 4, 25-33.	0.2	0
11	Modelling of the pulsed field magnetisation of a REBaCuO bulk with a superconducting weld. Journal of Physics: Conference Series, 2021, 2043, 012001.	0.4	2
12	Design and Testing of a New Cooling System using Solid Nitrogen for Pulsed Field Magnetization and Characterization of HTS Bulks. Journal of Physics: Conference Series, 2021, 2043, 012002.	0.4	0
13	Investigation of flux jumps during pulsed field magnetization in graphene-added MgB ₂ bulks. Journal of Physics: Conference Series, 2020, 1559, 012080.	0.4	2
14	Reproducibility of small Ge ₂ C ₆ H ₁₀ O ₇ -added MgB ₂ bulks fabricated by ex situ Spark Plasma Sintering used in compound bulk magnets with a trapped magnetic field above 5ÅT. Scientific Reports, 2020, 10, 10538.	3.3	5
15	On the origin of the sharp, low-field pinning force peaks in MgB ₂ superconductors. AIP Advances, 2020, 10, 015035.	1.3	9
16	The Erasmus+ÅStrategic Partnership as a Way to Attract Young People to Engineering. Advances in Intelligent Systems and Computing, 2020, , 252-259.	0.6	4
17	EDUTECH - Good Practices in Cooperation between Schools and Academia Attracting Candidates for Technical Education. , 2020, , .		0
18	Current Flow and Flux Pinning Properties of YBCO Foam Struts. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	7

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19	Comparison of Temperature and Field Dependencies of the Critical Current Densities of Bulk YBCO, MgB ₂ , and Iron-Based Superconductors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
20	2-D Numerical Modeling of a Bulk HTS Magnetization Based on \mathbf{H} Formulation Coupled With Electrical Circuit. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
21	Determination of the Complete Penetration Magnetic Field of a HTS Pellet From the Measurements of the Magnetic Field at Its Top-Center Surface. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	2
22	3-D Modeling of Coils for Pulsed Field Magnetization of HTS Bulk Pellets in an Electrical Machine. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	14
23	Distribution of Current Density, Temperature, and Mechanical Deformation in YBCO Bulks Under Field-Cooling Magnetization. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	9
24	3D Magnetic field modeling of a new superconducting synchronous machine using reluctance network method. Physica C: Superconductivity and Its Applications, 2018, 548, 5-13.	1.2	6
25	Analytical Modeling of an Inductor in a Magnetic Circuit for Pulsed Field Magnetization of HTS Bulks. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	7
26	Stator Design and Performance of Superconducting Motors for Aerospace Electric Propulsion Systems. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	31
27	The Use of a Small Single Fuel Cell to Feed a 10-H Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	1
28	PEM single fuel cell as a dedicated power source for high-inductive superconducting coils. International Journal of Hydrogen Energy, 2018, 43, 5913-5921.	7.1	7
29	Calcul analytique de l'inductance d'une bobine dans un circuit ferromagnétique en présence d'une pastille supraconductrice. , 2018, , .		0
30	Modeling of a Superconducting Radial Flux Inductor by a 3D Reluctance Network. , 2018, , .		0
31	3D COMPUTATION OF ELECTRIC FIELD BY A STOCHASTIC METHOD. Progress in Electromagnetics Research M, 2018, 67, 119-128.	0.9	0
32	Eddy current modeling in linear and nonlinear multifilamentary composite materials. Open Physics, 2018, 16, 183-187.	1.7	1
33	Solar Electric Motor on Superconducting Bearings: Design and Tests in Liquid Nitrogen. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	4
34	Increase of Stability Margin in Embedded DC Electric Grid With Superconducting Stabilizer. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	5
35	Design of a Vector Magnet Generating Up to 3 T With Three-Axis Orientation. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	0
36	EBSO analysis of MgB ₂ bulk superconductors. Superconductor Science and Technology, 2016, 29, 044007.	3.5	14

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37	Relaxation and pinning in spark-plasma sintered MgB ₂ superconductor. Superconductor Science and Technology, 2016, 29, 025006.	3.5	16
38	Magnetization and Demagnetization Studies of an HTS Bulk in an Iron Core. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	6
39	High Magnetic Field Generated by Bulk MgB ₂ Prepared by Spark Plasma Sintering. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	23
40	Comparison Between Modeling and Experimental Results of Magnetic Flux Trapped in YBCO Bulks. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	10
41	Improved Method for Determining the J_C Value of HTS Bulks. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	5
42	Management of a Proton Exchange Membrane Fuel Cell System to Feed a Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	0
43	Improvement of the Magnetization of a Superconducting Bulk using an Iron Core. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	15
44	Determination of J_C and J_C and J_C Value of HTS Pellets by Measurement and Simulation of Magnetic Field Penetration. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-8.	1.7	13
45	Development of MgB ₂ -Based Bulk Supermagnets. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	18
46	Critical current density determination of superconducting material. , 2014, , .		0
47	Improvement of YBCO Superconductor Magnetic Shielding by Using Multiple Bulks. Journal of Superconductivity and Novel Magnetism, 2014, 27, 903-907.	1.8	10
48	Influence of the inductor shape, and the magnetization processes on a trapped magnetic flux in a superconducting bulk. Physica C: Superconductivity and Its Applications, 2014, 503, 1-6.	1.2	2
49	Using Fuel Cell as a Power Supply for Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-6.	1.7	2
50	Field mapping measurements to determine spatial and field dependence of critical current density in YBCO tapes. Physica C: Superconductivity and Its Applications, 2013, 492, 158-164.	1.2	4
51	Superconducting coil fed by PEM fuel cell. International Journal of Hydrogen Energy, 2013, 38, 6773-6779.	7.1	3
52	A New Direct Magnetic Method for Determining J_C in Bulk Superconductors From Magnetic Field Diffusion Measurements. IEEE Transactions on Applied Superconductivity, 2012, 22, 9001604-9001604.	1.7	9
53	Enhancement of the $E(J,B)$ Power Law Characterization for Superconducting Wires from Electrical Measurements on a Coil. IEEE Transactions on Applied Superconductivity, 2012, 22, 6400504-6400504.	1.7	5
54	INDUCTANCE AND FORCE CALCULATION FOR AXISYMMETRIC COIL SYSTEMS INCLUDING AN IRON CORE OF FINITE LENGTH. Progress in Electromagnetics Research B, 2012, 41, 377-396.	1.0	22

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55	Using Equivalent Emission Sources to Evaluate the Coupling Between Components. IEEE Transactions on Magnetics, 2012, 48, 439-442.	2.1	1
56	Identification de sources Électromagnétiques multipolaires par filtrage spatial. Simplification du contour des capteurs. European Journal of Electrical Engineering, 2012, 15, 613-632.	0.3	0
57	Design and preliminary tests of a twin coil HTS SMES for pulse power operation. Superconductor Science and Technology, 2011, 24, 055010.	3.5	26
58	Loop Antennas for Near-Field Multipolar-Expansion Identification: First Experimental Validations. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 3086-3092.	4.7	13
59	Identification of Equivalent Multipolar Electromagnetic Sources by Spatial Filtering. IEEE Transactions on Magnetics, 2010, 46, 2815-2818.	2.1	10
60	Modeling the near-field coupling of EMC filter components. , 2010, , .		8
61	Near-field coupling between EMC filter components. , 2010, , .		1
62	Analytical Calculation of the Instantaneous Power in a Current Carrying Superconducting Tube With $J_c(B)$. IEEE Transactions on Applied Superconductivity, 2008, 18, 1717-1723.	1.7	4
63	Self Field Effect Compensation in an HTS Tube. IEEE Transactions on Applied Superconductivity, 2008, 18, 1698-1703.	1.7	4
64	First Tests of a 800 kJ HTS SMES. IEEE Transactions on Applied Superconductivity, 2008, 18, 774-778.	1.7	52
65	Influence of Temperature and/or Field Dependences of the $E-J$ Power Law on Trapped Magnetic Field in Bulk YBaCuO. IEEE Transactions on Applied Superconductivity, 2007, 17, 3028-3031.	1.7	81
66	Thermal-electromagnetic modeling of superconductors. Cryogenics, 2007, 47, 539-545.	1.7	18
67	Influence of $J_c(B)$ on the full penetration current of superconducting tube. Physica C: Superconductivity and Its Applications, 2006, 443, 23-28.	1.2	8
68	AC Transport Losses Calculation in a Bi-2223 Current Lead Using Thermal Coupling With an Analytical Formula. IEEE Transactions on Applied Superconductivity, 2005, 15, 1508-1511.	1.7	13