

KÃ©vin Berger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1840907/publications.pdf>

Version: 2024-02-01

68
papers

620
citations

623734

14
h-index

677142

22
g-index

72
all docs

72
docs citations

72
times ranked

461
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	First Tests of a 800 kJ HTS SMES. IEEE Transactions on Applied Superconductivity, 2008, 18, 774-778.	1.7	52
3	Stator Design and Performance of Superconducting Motors for Aerospace Electric Propulsion Systems. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	31
4	Design and preliminary tests of a twin coil HTS SMES for pulse power operation. Superconductor Science and Technology, 2011, 24, 055010.	3.5	26
5	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
6	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
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	Thermal-electromagnetic modeling of superconductors. Cryogenics, 2007, 47, 539-545.	1.7	18
9	Development of MgB ₂ -Based Bulk Supermagnets. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	18
10	Relaxation and pinning in spark-plasma sintered MgB ₂ superconductor. Superconductor Science and Technology, 2016, 29, 025006.	3.5	16
11	Magnetic phases in superconducting, polycrystalline bulk FeSe samples. AIP Advances, 2021, 11, .	1.3	16
12	Improvement of the Magnetization of a Superconducting Bulk using an Iron Core. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	15
13	EBSD analysis of MgB ₂ bulk superconductors. Superconductor Science and Technology, 2016, 29, 044007.	3.5	14
14	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
15	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
16	Loop Antennas for Near-Field Multipolar-Expansion Identification: First Experimental Validations. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 3086-3092.	4.7	13
17	Determination of J_C and n Value of HTS Pellets by Measurement and Simulation of Magnetic Field Penetration. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-8.	1.7	13
18	Characterization of High-Temperature Superconductor Bulks for Electrical Machine Application. Materials, 2021, 14, 1636.	2.9	13

#	ARTICLE	IF	CITATIONS
19	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
20	Identification of Equivalent Multipolar Electromagnetic Sources by Spatial Filtering. IEEE Transactions on Magnetics, 2010, 46, 2815-2818.	2.1	10
21	Improvement of YBCO Superconductor Magnetic Shielding by Using Multiple Bulks. Journal of Superconductivity and Novel Magnetism, 2014, 27, 903-907.	1.8	10
22	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
23	A New Direct Magnetic Method for Determining J_{mC} in Bulk Superconductors From Magnetic Field Diffusion Measurements. IEEE Transactions on Applied Superconductivity, 2012, 22, 9001604-9001604.	1.7	9
24	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
25	On the origin of the sharp, low-field pinning force peaks in MgB2 superconductors. AIP Advances, 2020, 10, 015035.	1.3	9
26	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
27	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
28	Modeling the near-field coupling of EMC filter components. , 2010, , .		8
29	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
30	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
31	Current Flow and Flux Pinning Properties of YBCO Foam Struts. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	7
32	Magnetization and Demagnetization Studies of an HTS Bulk in an Iron Core. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	6
33	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
34	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
35	2-D Numerical Modeling of a Bulk HTS Magnetization Based on H Formulation Coupled With Electrical Circuit. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
36	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

#	ARTICLE	IF	CITATIONS
37	Increase of Stability Margin in Embedded DC Electric Grid With Superconducting Stabilizer. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	5
38	Improved Method for Determining the $\langle n \rangle$ Value of HTS Bulks. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	5
39	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 5ÄT. Scientific Reports, 2020, 10, 10538.	3.3	5
40	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
41	Self Field Effect Compensation in an HTS Tube. IEEE Transactions on Applied Superconductivity, 2008, 18, 1698-1703.	1.7	4
42	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
43	Solar Electric Motor on Superconducting Bearings: Design and Tests in Liquid Nitrogen. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	4
44	The Erasmus+ÄStrategic Partnership as a Way to Attract Young People to Engineering. Advances in Intelligent Systems and Computing, 2020, , 252-259.	0.6	4
45	Superconducting coil fed by PEM fuel cell. International Journal of Hydrogen Energy, 2013, 38, 6773-6779.	7.1	3
46	3-D Semi-Analytical Model of a Superconducting Axial Flux Modulation Machine. IEEE Transactions on Magnetics, 2021, 57, 1-15.	2.1	3
47	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
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	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
51	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
52	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
53	Near-field coupling between EMC filter components. , 2010, , .		1
54	Using Equivalent Emission Sources to Evaluate the Coupling Between Components. IEEE Transactions on Magnetics, 2012, 48, 439-442.	2.1	1

#	ARTICLE	IF	CITATIONS
55	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
56	Eddy current modeling in linear and nonlinear multifilamentary composite materials. Open Physics, 2018, 16, 183-187.	1.7	1
57	Microstructural Parameters for Modelling of Superconducting Foams. Materials, 2022, 15, 2303.	2.9	1
58	Critical current density determination of superconducting material. , 2014, , .		0
59	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
60	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
61	Calcul analytique de lâ™inductance dâ™une bobine dans un circuit ferromagnetique en prÃ©sence dâ™une pastille supraconductrice. , 2018, , .		0
62	Modeling of a Superconducting Radial Flux Inductor by a 3D Reluctance Network. , 2018, , .		0
63	3D COMPUTATION OF ELECTRIC FIELD BY A STOCHASTIC METHOD. Progress in Electromagnetics Research M, 2018, 67, 119-128.	0.9	0
64	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
65	Overview of High Temperature Superconductor Machines. Elektrichestvo, 2021, 4, 25-33.	0.2	0
66	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
67	Identification de sources Å©lectromagnÃ©tiques multipolaires par filtrage spatial. Simplification du contour des capteurs. European Journal of Electrical Engineering, 2012, 15, 613-632.	0.3	0
68	EDUTECH - Good Practices in Cooperation between Schools and Academia Attracting Candidates for Technical Education. , 2020, , .		0