

Reinhard Heller

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47
papers

1,038
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47
ext. papers

1,123
ext. citations

1.9
avg, IF

4.01
L-index

#	Paper	IF	Citations
47	ROEBEL Assembled Coated Conductors (RACC): Preparation, Properties and Progress. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3398-3401	1.8	116
46	Status of high transport current ROEBEL assembled coated conductor cables. <i>Superconductor Science and Technology</i> , 2009 , 22, 034003	3.1	97
45	HTS CroCo: A Stacked HTS Conductor Optimized for High Currents and Long-Length Production. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 19-24	1.8	71
44	Experimental results of a 70 kA high temperature superconductor current lead demonstrator for the ITER magnet system. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 1496-1499	1.8	69
43	High-Current HTS Cables: Status and Actual Development. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	55
42	Progress in the design of the superconducting magnets for the EU DEMO. <i>Fusion Engineering and Design</i> , 2018 , 136, 1597-1604	1.7	54
41	Prospects of High Temperature Superconductors for fusion magnets and power applications. <i>Fusion Engineering and Design</i> , 2013 , 88, 440-445	1.7	46
40	High Temperature Superconductor Current Leads for WENDELSTEIN 7-X and JT-60SA. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 2202-2205	1.8	46
39	. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	38
38	High temperature superconductor current leads for fusion machines. <i>Fusion Engineering and Design</i> , 2011 , 86, 1422-1426	1.7	38
37	Conceptual Design Improvement of a Toroidal Field Coil for EU DEMO Using High-Temperature Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	30
36	The Superconducting Magnet System of the Stellarator Wendelstein 7-X. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 769-776	1.3	30
35	Design of high-temperature superconductor current leads for ITER. <i>Fusion Engineering and Design</i> , 2007 , 82, 1385-1390	1.7	30
34	70 kA High Temperature Superconductor Current Lead Operation at 80 K. <i>IEEE Transactions on Applied Superconductivity</i> , 2006 , 16, 823-826	1.8	25
33	Test Results of the High Temperature Superconductor Prototype Current Leads for Wendelstein 7-X. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 1062-1065	1.8	24
32	Advance in the conceptual design of the European DEMO magnet system. <i>Superconductor Science and Technology</i> , 2020 , 33, 044013	3.1	22
31	A critical assessment of thermal-hydraulic modeling of HTS twisted-stacked-tape cable conductors for fusion applications. <i>Superconductor Science and Technology</i> , 2019 , 32, 084004	3.1	19

30	Development of a 20 kA high temperature superconductor current lead. <i>Cryogenics</i> , 2001 , 41, 539-547	1.8	16
29	Conceptual Design of a Toroidal Field Coil for a Fusion Power Plant Using High Temperature Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	15
28	FBI Measurement Facility for High Temperature Superconducting Cable Designs. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-4	1.8	15
27	Thermal-hydraulic analysis of an HTS DEMO TF coil. <i>Cryogenics</i> , 2018 , 96, 125-132	1.8	15
26	Overview of results from Wendelstein7-X HTS current lead testing. <i>Fusion Engineering and Design</i> , 2013 , 88, 1585-1588	1.7	14
25	The DEMO magnet system status and future challenges. <i>Fusion Engineering and Design</i> , 2022 , 174, 11297-11307	1.7	14
24	Quench Analysis of the HTS CrossConductor for a Toroidal Field Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-11	1.8	13
23	A new model for the analysis of quench in HTS cable-in-conduit conductors based on the twisted-stacked-tape cable concept for fusion applications. <i>Superconductor Science and Technology</i> , 2020 , 33, 065004	3.1	13
22	Design and analysis of HTS subsize-conductors for quench investigations towards future HTS fusion magnets. <i>Cryogenics</i> , 2019 , 104, 102980	1.8	12
21	Development of forced flow cooled current leads for fusion magnets. <i>Cryogenics</i> , 2001 , 41, 201-211	1.8	12
20	Overview of JT-60SA HTS Current Lead Manufacture and Testing. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	11
19	Toward a High-Current Conductor Made of HTS CrossConductor Strands. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	9
18	Status of series production and test of the HTS current leads for Wendelstein 7-X. <i>Fusion Engineering and Design</i> , 2013 , 88, 1482-1485	1.7	8
17	Use of Nb3Sn inserts in a forced flow cooled 30 kA current lead. <i>Applied Superconductivity</i> , 1994 , 2, 21-27		8
16	Towards a 20 kA high temperature superconductor current lead module using REBCO tapes. <i>Superconductor Science and Technology</i> , 2018 , 31, 015021	3.1	8
15	Investigation of HTS Current Leads Under Pulsed Operation for JT-60SA. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 4801704-4801704	1.8	6
14	Design, construction and performance of the current lead test facility CuLTka. <i>Cryogenics</i> , 2017 , 86, 22-28		5
13	Test results of a 20 kA high temperature superconductor current lead using REBCO tapes. <i>Superconductor Science and Technology</i> , 2018 , 31, 055014	3.1	4

12	Electromagnetic and mechanical analysis of a toroidal field coil winding pack for EU DEMO. <i>Fusion Engineering and Design</i> , 2015 , 98-99, 1068-1071	1.7	4
11	Hydraulic characterization of conductor prototypes for fusion magnets. <i>Cryogenics</i> , 2020 , 105, 103013	1.8	4
10	High temperature superconductors for fusion applications and new developments for the HTS CroCo conductor design. <i>Fusion Engineering and Design</i> , 2021 , 172, 112739	1.7	4
9	Monitoring and control of the magnet system of JT-60SA. <i>Fusion Engineering and Design</i> , 2019 , 146, 411-416	1.7	3
8	Investigation of Stabilizer Material Properties Used With REBCO Coated Conductor Tapes for the Application in a 20-kA High-Temperature Superconductor Current Lead. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 1-1	1.8	3
7	Modelling of the test of the JT-60SA HTS current leads. <i>Cryogenics</i> , 2017 , 85, 78-87	1.8	3
6	Analysis and Performance Assessment for a 68 kA HTS Current Lead Heat Exchanger. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 4801104-4801104	1.8	3
5	The superconducting magnet system of the stellarator Wendelstein 7-X 2011 ,		2
4	Assessment of the performance of a 20 kA REBCO current lead. <i>Cryogenics</i> , 2018 , 95, 95-101	1.8	2
3	Operation Experience of the Wendelstein 7-X High-Temperature Superconductor Current Leads. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	1
2	Overview and first operation of the high temperature superconductor current leads during integrated commissioning of JT-60SA. <i>Fusion Engineering and Design</i> , 2021 , 172, 112910	1.7	1
1	Thermal Resistance Between Metallic Surfaces of Copper and Stainless Steel at Different Temperatures and Applied Forces for High Current HTS Cable-in-Conduit Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 32, 1-5	1.8	