

# Reinhard Heller

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

1,038  
citations

17  
h-index

31  
g-index

47  
ext. papers

1,123  
ext. citations

1.9  
avg, IF

4.01  
L-index

#	Paper	IF	Citations
47	The DEMO magnet system status and future challenges. <i>Fusion Engineering and Design</i> , <b>2022</b> , 174, 11297-11307	1.7	14
46	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> , <b>2022</b> , 32, 1-5	1.8	
45	Overview and first operation of the high temperature superconductor current leads during integrated commissioning of JT-60SA. <i>Fusion Engineering and Design</i> , <b>2021</b> , 172, 112910	1.7	1
44	High temperature superconductors for fusion applications and new developments for the HTS CroCo conductor design. <i>Fusion Engineering and Design</i> , <b>2021</b> , 172, 112739	1.7	4
43	Advance in the conceptual design of the European DEMO magnet system. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 044013	3.1	22
42	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> , <b>2020</b> , 33, 065004	3.1	13
41	Hydraulic characterization of conductor prototypes for fusion magnets. <i>Cryogenics</i> , <b>2020</b> , 105, 103013	1.8	4
40	Operation Experience of the Wendelstein 7-X High-Temperature Superconductor Current Leads. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	1
39	A critical assessment of thermal-hydraulic modeling of HTS twisted-stacked-tape cable conductors for fusion applications. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 084004	3.1	19
38	Quench Analysis of the HTS CrossConductor for a Toroidal Field Coil. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-11	1.8	13
37	Monitoring and control of the magnet system of JT-60SA. <i>Fusion Engineering and Design</i> , <b>2019</b> , 146, 411-416	1.7	3
36	Design and analysis of HTS subsize-conductors for quench investigations towards future HTS fusion magnets. <i>Cryogenics</i> , <b>2019</b> , 104, 102980	1.8	12
35	Overview of JT-60SA HTS Current Lead Manufacture and Testing. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	11
34	Test results of a 20 kA high temperature superconductor current lead using REBCO tapes. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 055014	3.1	4
33	Progress in the design of the superconducting magnets for the EU DEMO. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 1597-1604	1.7	54
32	Towards a 20 kA high temperature superconductor current lead module using REBCO tapes. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 015021	3.1	8
31	Thermal-hydraulic analysis of an HTS DEMO TF coil. <i>Cryogenics</i> , <b>2018</b> , 96, 125-132	1.8	15

30	Assessment of the performance of a 20 kA REBCO current lead. <i>Cryogenics</i> , <b>2018</b> , 95, 95-101	1.8	2
29	Modelling of the test of the JT-60SA HTS current leads. <i>Cryogenics</i> , <b>2017</b> , 85, 78-87	1.8	3
28	Design, construction and performance of the current lead test facility CuLTKa. <i>Cryogenics</i> , <b>2017</b> , 86, 22-208		5
27	Toward a High-Current Conductor Made of HTS CrossConductor Strands. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	9
26	Conceptual Design Improvement of a Toroidal Field Coil for EU DEMO Using High-Temperature Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	30
25	High-Current HTS Cables: Status and Actual Development. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	55
24	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	38
23	HTS CroCo: A Stacked HTS Conductor Optimized for High Currents and Long-Length Production. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 19-24	1.8	71
22	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> , <b>2016</b> , 1-1	1.8	3
21	Electromagnetic and mechanical analysis of a toroidal field coil winding pack for EU DEMO. <i>Fusion Engineering and Design</i> , <b>2015</b> , 98-99, 1068-1071	1.7	4
20	Conceptual Design of a Toroidal Field Coil for a Fusion Power Plant Using High Temperature Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 1-5	1.8	15
19	FBI Measurement Facility for High Temperature Superconducting Cable Designs. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 1-4	1.8	15
18	Prospects of High Temperature Superconductors for fusion magnets and power applications. <i>Fusion Engineering and Design</i> , <b>2013</b> , 88, 440-445	1.7	46
17	Overview of results from Wendelstein7-X HTS current lead testing. <i>Fusion Engineering and Design</i> , <b>2013</b> , 88, 1585-1588	1.7	14
16	Status of series production and test of the HTS current leads for Wendelstein 7-X. <i>Fusion Engineering and Design</i> , <b>2013</b> , 88, 1482-1485	1.7	8
15	Analysis and Performance Assessment for a 68 kA HTS Current Lead Heat Exchanger. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 4801104-4801104	1.8	3
14	The Superconducting Magnet System of the Stellarator Wendelstein 7-X. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 769-776	1.3	30
13	Investigation of HTS Current Leads Under Pulsed Operation for JT-60SA. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 4801704-4801704	1.8	6

12	High temperature superconductor current leads for fusion machines. <i>Fusion Engineering and Design</i> , <b>2011</b> , 86, 1422-1426	1.7	38
11	Test Results of the High Temperature Superconductor Prototype Current Leads for Wendelstein 7-X. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 1062-1065	1.8	24
10	The superconducting magnet system of the stellarator Wendelstein 7-X <b>2011</b> ,		2
9	High Temperature Superconductor Current Leads for WENDELSTEIN 7-X and JT-60SA. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 2202-2205	1.8	46
8	Status of high transport current ROEBEL assembled coated conductor cables. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 034003	3.1	97
7	Design of high-temperature superconductor current leads for ITER. <i>Fusion Engineering and Design</i> , <b>2007</b> , 82, 1385-1390	1.7	30
6	ROEBEL Assembled Coated Conductors (RACC): Preparation, Properties and Progress. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 3398-3401	1.8	116
5	70 kA High Temperature Superconductor Current Lead Operation at 80 K. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2006</b> , 16, 823-826	1.8	25
4	Experimental results of a 70 kA high temperature superconductor current lead demonstrator for the ITER magnet system. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 1496-1499	1.8	69
3	Development of forced flow cooled current leads for fusion magnets. <i>Cryogenics</i> , <b>2001</b> , 41, 201-211	1.8	12
2	Development of a 20 kA high temperature superconductor current lead. <i>Cryogenics</i> , <b>2001</b> , 41, 539-547	1.8	16
1	Use of Nb <sub>3</sub> Sn inserts in a forced flow cooled 30 kA current lead. <i>Applied Superconductivity</i> , <b>1994</b> , 2, 21-27		8