Monika L Lewandowska

List of Publications by Year
in descending order

51 papers	642 citations	643344 15 h-index	685536 24 g-index
52 all docs	52 docs citations	52 times ranked	376 citing authors

#	Article	IF	Citations
1	Parametric study and optimization of the cryo-magnetic system for EU DEMO at the pre-conceptual design phase. Cryogenics, 2022, , 103475.	0.9	1
2	Friction factor of a forced-flow cooled HTS subsize-conductor for fusion magnets. Cryogenics, 2022, 124, 103474.	0.9	3
3	Design and optimization of the secondary circuit for the WCLL BB option of the EU-DEMO power plant. Fusion Engineering and Design, 2021, 169, 112642.	1.0	4
4	Thermal-hydraulic analysis of the DEMO CS coil designed by CEA. Fusion Engineering and Design, 2021, 171, 112557.	1.0	3
5	Hydraulic characterization of conductor prototypes for fusion magnets. Cryogenics, 2020, 105, 103013.	0.9	5
6	Steady-state transverse heat transfer in a single channel CICC. Cryogenics, 2020, 110, 103124.	0.9	1
7	Quench analysis of the DEMO CS1 coil. Cryogenics, 2020, 112, 103194.	0.9	6
8	Design and analysis of the secondary circuit of the DEMO fusion power plant for the HCPB BB option without the energy storage system and with the auxiliary boiler. Fusion Engineering and Design, 2020, 160, 112003.	1.0	7
9	Design and analysis of the improved configuration of the secondary circuit for the EU-DEMO power plant. Fusion Engineering and Design, 2019, 146, 1035-1038.	1.0	6
10	Thermal-hydraulic analysis of the upgraded EU-DEMO CS1 coil. , 2019, , .		3
11	Thermal-hydraulic analysis of an HTS DEMO TF coil. Cryogenics, 2018, 96, 125-132.	0.9	21
12	Design and analysis of a new configuration of secondary circuit of the EU-DEMO fusion power plant using GateCycle. Fusion Engineering and Design, 2018, 136, 1149-1152.	1.0	9
13	Experimental Study of Steady-State Transverse Heat Transfer in a Single Channel CICC. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	4
14	Thermal-Hydraulic Analysis of the DEMO CS Coil. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	16
15	Progress in the design of the superconducting magnets for the EU DEMO. Fusion Engineering and Design, 2018, 136, 1597-1604.	1.0	67
16	Thermal-hydraulic and quench analysis of the DEMO toroidal field winding pack WP1. Fusion Engineering and Design, 2017, 124, 110-113.	1.0	15
17	Analysis of the secondary circuit of the DEMO fusion power plant using GateCycle. Fusion Engineering and Design, 2017, 124, 1237-1240.	1.0	19
18	Experimental stand for thermal-hydraulic tests of forced flow conductors using water at room temperature. Fusion Engineering and Design, 2017, 124, 1191-1194.	1.0	5

#	Article	IF	Citations
19	Thermal-hydraulic analysis of different design concepts of the LTS TF coil winding pack for EU-DEMO. , 2017, , .		2
20	Helium flow and temperature distribution in the CS1 module of the DEMO CS coil. , 2017, , .		3
21	Thermal-hydraulic analysis of LTS cables for the DEMO TF coil using simplified models. Nukleonika, 2017, 62, 23-28.	0.3	5
22	Thermal-Hydraulic Analysis of the Low- <inline-formula> <tex-math notation="LaTeX">T_{c}</tex-math> </inline-formula> Superconductor (LTS) Winding Pack Design Concepts for the DEMO Toroidal Field (TF) Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	18
23	Thermo-hydraulic analyses associated with a CEA design proposal for a DEMO TF conductor. Cryogenics, 2016, 80, 317-324.	0.9	24
24	Transverse heat transfer coefficient in the dual channel ITER TF CICCs. Part III: Direct method of assessment. Cryogenics, 2016, 73, 91-100.	0.9	10
25	Overview of Progress on the EU DEMO Reactor Magnet System Design. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	46
26	Thermal-hydraulic analysis of the improved LTS conductor design concepts for the DEMO TF coil. Przeglad Elektrotechniczny, 2016, 1, 181-184.	0.1	5
27	Upgrade of SULTAN/EDIPO for HTS Cable Test. Physics Procedia, 2015, 67, 762-767.	1.2	6
28	Transverse heat transfer coefficient in the dual channel ITER TF CICCs Part II. Analysis of transient temperature responses observed during a heat slug propagation experiment. Cryogenics, 2015, 65, 38-48.	0.9	1
29	Minimum quench energies of uncooled low temperature superconductors with temperature dependent thermophysical parameters. Applied Mathematical Modelling, 2014, 38, 4733-4746.	2.2	1
30	Comparative analysis of crystal-field parameters for rare-earth ions at monoclinic sites in AB(WO4)2crystals: II. Pr3+and Nd3+ions in KRE(WO4)2(RE = Y or Gd), Pr3+ions in M+Bi(XO4)2(M+= Li or) Tj ETQq0 0 0 rgBT /Overlock Matter, 2014, 26, 065501.	0.7	3
31	Thermal-Hydraulic Analysis of LTS Cables for the DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	22
32	Parametric Study for the Cooling of HTS Current Leads Using a Liquid Nitrogen Bath. IEEE Transactions on Applied Superconductivity, 2013, 23, 4800304-4800304.	1.1	4
33	Analytical model-based energy and exergy analysis of a gas microturbine at part-load operation. Applied Thermal Engineering, 2013, 57, 125-132.	3.0	31
34	Trends in orthorhombic crystal field parameters for trivalent rare-earth ions in high-Tc superconductors REBa2Cu3O7âˆ'Î´â€“ Correct interpretation based on standardization. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 103, 282-286.	2.0	1
35	Parametric study for the cooling of high temperature superconductor (HTS) current leads. Cryogenics, 2013, 53, 31-36.	0.9	12
36	Alternative crystal field parameters for rare-earth ions obtained from various techniques: IV. Comparative analysis of crystal field parameters obtained from inelastic neutron scattering and related studies of RE ions (RE=Er3+, Ho3+, Nd3+, Pr3+) in REBa2Cu3O7âˆ'Î´ high-Tc superconductors. Journal of Alloys and Compounds, 2012, 540, 279-289.	2.8	8

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37	Thermo-hydraulic analysis of the cool-down of the EDIPO test facility. Cryogenics, 2011, 51, 485-493.	0.9	1
38	Modified friction factor correlation for CICCâ€™s based on a porous media analogy. Cryogenics, 2011, 51, 541-545.	0.9	28
39	Transverse heat transfer coefficient in the dual channel ITER TF CICCs. Cryogenics, 2011, 51, 598-608.	0.9	9
40	Helium flow and temperatures in a heated sample of a final ITER TF cable-in-conduit conductor. Journal of Physics: Conference Series, 2010, 234, 032022.	0.3	3
41	Comment on Numerical Deficiencies in the Paper by Al-Odat and Al-Hussien (Int. J. Thermophys. 29, 1523) Tj ETQq1 1 0.784314 rgBT	1.0	1
42	Alternative crystal-field parameters for rare-earth ions obtained from various techniques: III. Low symmetry aspects inherent in monoclinic parameters obtained by MÃ¶ssbauer spectroscopy for Tm3+ ions in Tm2BaXO5 (X=Co, Cu, Ni). Journal of Alloys and Compounds, 2010, 497, 32-37.	2.8	10
43	Helium Flow and Temperature Distribution in a Heated Dual-Channel CICC Sample for ITER. IEEE Transactions on Applied Superconductivity, 2009, 19, 1488-1491.	1.1	7
44	Alternative crystal-field parameters for rare-earth ions obtained from various techniques: II. Reanalysis of spectroscopic data for Eu3+ and Er3+ ions in RE2BaXO5 (X=Co, Cu, Ni, Zn) high temperature superconductors and related systems. Journal of Alloys and Compounds, 2009, 467, 106-111.	2.8	13
45	Alternative crystal field parameters for rare-earth ions obtained from various techniques. Journal of Alloys and Compounds, 2009, 467, 98-105.	2.8	22
46	An analytical solution of the hyperbolic heat conduction equation for the case of a finite medium symmetrically heated on both sides. International Communications in Heat and Mass Transfer, 2006, 33, 61-69.	2.9	75
47	Thermal waves propagation due to localised heat inputs - the Laplace transforms method analysis. Heat and Mass Transfer, 2002, 38, 459-466.	1.2	3
48	Analytical method for determining critical energies of uncooled superconductors based on the hyperbolic model of heat conduction. Cryogenics, 2001, 41, 267-273.	0.9	9
49	Hyperbolic heat conduction in the semi-infinite body with a time-dependent laser heat source. Heat and Mass Transfer, 2001, 37, 333-342.	1.2	39
50	Hyperbolic heat conduction in the semi-infinite body with the heat source which capacity linearly depends on temperature. Heat and Mass Transfer, 1998, 33, 389-393.	1.2	18
51	Mass and charge release by the evaporation of particles from compound nuclei around mass 60. Zeitschrift FÃ¼r Physik A, 1992, 342, 61-66.	0.9	7