List of Publications by Year in descending order

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		230014	299063
231	3,164	27	42
papers	citations	h-index	g-index
232	232	232	1273
all docs	docs citations	times ranked	citing authors

Ι ΑΠΟΛ ΚΑΝΟΙ ΟΙ

#	Article	lF	CITATIONS
1	A new cooling method for photovoltaic panels using brine from reverse osmosis units to increase efficiency and improve productivity. Energy Conversion and Management, 2022, 251, 115031.	4.4	10
2	Thermal-hydraulic models for the cooling of HTS power-transmission cables: status and needs. Superconductor Science and Technology, 2022, 35, 044001.	1.8	2
3	The DEMO magnet system – Status and future challenges. Fusion Engineering and Design, 2022, 174, 112971.	1.0	37
4	Design of a Module for a 10 MJ Toroidal YBCO Superconducting Magnetic Energy Storage. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	2
5	Current Distribution Modeling in the Open-Source OPENSC ² Tool for the Multi-Physics Analysis of HTS and LTS Cables. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	3
6	Evaluation of the Thermal Performance of the SC Feeders for the Magnetic System of the Divertor Tokamak Test Facility. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	3
7	Thermal-hydraulic analysis of superconducting cables for energy applications with a novel open object-oriented software: OPENSC2. Cryogenics, 2022, 124, 103457.	0.9	4
8	DTT: A Challenging Framework for a Sound Superconducting Magnets Design. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	4
9	Optimization of the flow distribution in a gyrotron cavity using evolutionary CFD simulations driven by a genetic algorithm. International Journal of Heat and Fluid Flow, 2022, 96, 108987.	1.1	1
10	Assessment of different RANS turbulence models in mini-channels for the cooling of MW-class gyrotron resonators. International Journal of Heat and Mass Transfer, 2022, 193, 122922.	2.5	7
11	Techno-economic optimisation of a sodium–chloride salt heat exchanger for concentrating solar power applications. Solar Energy, 2022, 239, 252-267.	2.9	7
12	Biogeography-Based Optimization of the Resonator Cooling in a MW-Class Gyrotron for Fusion Applications. IEEE Transactions on Plasma Science, 2022, , 1-6.	0.6	0
13	Assessment of the Performance of Different Cooling Configurations for the Launcher Mirrors of the ECRH System of the DTT Facility. IEEE Transactions on Plasma Science, 2022, 50, 4054-4059.	0.6	5
14	A New Lumped Approach for the Simulation of the Magnetron Injection Gun for MegaWatt-Class EU Gyrotrons. Energies, 2021, 14, 2068.	1.6	1
15	Techno-economic and environmental characterization of industrial technologies for transparent bottom-up energy modeling. Renewable and Sustainable Energy Reviews, 2021, 140, 110742.	8.2	14
16	Engineering design of a Permeator Against Vacuum mock-up with niobium membrane. Fusion Engineering and Design, 2021, 166, 112313.	1.0	16
17	First Numerical Evaluation of the Thermal Performance of a Tubular Receiver Equipped With Raschig Rings for CSP Applications. , 2021, , .		1
18	Analysis of the effects of thermal anchors on the reduction of the parasitic load to the EU-DEMO TF coils. Fusion Engineering and Design, 2021, 169, 112485.	1.0	2

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19	Projection of Post-Pandemic Italian Industrial Production through Vector AutoRegressive Models. Energies, 2021, 14, 5458.	1.6	3
20	Metamodeling and On-Line Clustering for Loss-of-Flow Accident Precursors Identification in a Superconducting Magnet Cryogenic Cooling Circuit. Energies, 2021, 14, 5552.	1.6	1
21	Calibration of the KIT test setup for the cooling tests of a gyrotron cavity full-size mock-up equipped with mini-channels. Fusion Engineering and Design, 2021, 172, 112744.	1.0	2
22	Could clean industrial progresses and the rise of electricity demand foster the penetration of nuclear fusion in the European energy mix?. Fusion Engineering and Design, 2021, 172, 112880.	1.0	2
23	A Modelica dynamic model of a supercritical CO2 energy conversion system for EU-DEMO. Fusion Engineering and Design, 2021, 173, 112826.	1.0	3
24	Application of a Stochastic Multicriteria Acceptability Analysis to support decision-making within a macro-scale energy model: Case study of the electrification of the road European transport sector. Energy, 2021, 236, 121444.	4.5	6
25	Recycling Behaviour of Italian Citizens in Connection with the Clarity of On-Pack Labels. A Bottom-Up Survey. Sustainability, 2021, 13, 10846.	1.6	6
26	A Validation Roadmap of Multi-Physics Simulators of the Resonator of MW-Class CW Gyrotrons for Fusion Applications. Energies, 2021, 14, 8027.	1.6	7
27	The DEMO Water-Cooled Lead–Lithium Breeding Blanket: Design Status at the End of the Pre-Conceptual Design Phase. Applied Sciences (Switzerland), 2021, 11, 11592.	1.3	54
28	Status of the EU DEMO breeding blanket manufacturing R&D activities. Fusion Engineering and Design, 2020, 152, 111420.	1.0	12
29	Analysis of the effects of primary heat transfer system isolation valves in case of in-vessel loss-of-coolant accidents in the EU DEMO. Fusion Engineering and Design, 2020, 159, 111926.	1.0	9
30	Modeling Quench Propagation in the ENEA HTS Cable-In-Conduit Conductor. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-7.	1.1	15
31	Experimental and numerical investigation of a porous receiver equipped with Raschig Rings for CSP applications. Solar Energy, 2020, 212, 309-325.	2.9	8
32	Numerical Assessment of Heat Transfer and Entropy Generation of a Porous Metal Heat Sink for Electronic Cooling Applications. Energies, 2020, 13, 3851.	1.6	6
33	Hybrid 1D + 2D Modelling for the Assessment of the Heat Transfer in the EU DEMO Water-Cooled Lithium-Lead Manifolds. Energies, 2020, 13, 3525.	1.6	3
34	Analysis of the Effects of Electrification of the Road Transport Sector on the Possible Penetration of Nuclear Fusion in the Long-Term European Energy Mix. Energies, 2020, 13, 3634.	1.6	9
35	One-side heating test and modeling of tubular receivers equipped with turbulence promoters for solar tower applications. Applied Energy, 2020, 277, 115519.	5.1	12
36	Megawatt power generation of the dual-frequency gyrotron for TCV at 84 and 126â€GHz, in long pulses. AIP Conference Proceedings, 2020, , .	0.3	3

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37	Design methodology for a prototype helical receiver adopted in the MOSAIC solar bowl system. Solar Energy, 2020, 208, 905-916.	2.9	5
38	Test and Modeling of the Hydraulic Performance of High-Efficiency Cooling Configurations for Gyrotron Resonance Cavities. Energies, 2020, 13, 1163.	1.6	8
39	Integrated deterministic and probabilistic safety assessment of a superconducting magnet cryogenic cooling circuit for nuclear fusion applications. Reliability Engineering and System Safety, 2020, 201, 106945.	5.1	7
40	Analysis of flow channel insert deformations influence on the liquid metal flow in DCLL blanket channels. Fusion Engineering and Design, 2020, 157, 111639.	1.0	7
41	Advance in the conceptual design of the European DEMO magnet system. Superconductor Science and Technology, 2020, 33, 044013.	1.8	38
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. Superconductor Science and Technology, 2020, 33, 065004.	1.8	22
43	The Impact of Stakeholder Preferences in Multicriteria Evaluation for the Retrofitting of Office Buildings in Italy. Smart Innovation, Systems and Technologies, 2020, , 581-591.	0.5	0
44	Advanced Methods for Loss-Of-Flow Accident Precursors Identification in a Superconducting Magnet Cryogenic Cooling Circuit. , 2020, , .		0
45	Overview of the 2018 Workshop on Iterative Errors in Unsteady Flow Simulations. Journal of Verification, Validation and Uncertainty Quantification, 2020, 5, .	0.3	1
46	Analysis of the Flow Distribution in the Back Supporting Structure Manifolds of the HCPB Breeding Blanket for the EU DEMO Fusion Reactor. Fusion Science and Technology, 2019, 75, 365-371.	0.6	1
47	Modeling the ITER CS AC Losses Based on the CS Insert Analysis. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.1	5
48	Coupling superconducting magnet and refrigerator thermal-hydraulic models for nuclear fusion applications. IOP Conference Series: Materials Science and Engineering, 2019, 502, 012130.	0.3	0
49	Thermal-Hydraulic Analysis of the JT-60SA Central Solenoid Operation. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	7
50	From W7-X Towards ITER and Beyond: 2019 Status on EU Fusion Gyrotron Developments. , 2019, , .		2
51	Manufacturing and Test of the 1 MW Long-Pulse 84/126 GHz Dual-Frequency Gyrotron for TCV. , 2019, , .		8
52	Multi-scale modular analysis of open volumetric receivers for central tower CSP systems. Solar Energy, 2019, 190, 195-211.	2.9	18
53	A critical assessment of thermal–hydraulic modeling of HTS twisted-stacked-tape cable conductors for fusion applications. Superconductor Science and Technology, 2019, 32, 084004.	1.8	29
54	Identification of the Postulated Initiating Events of Accidents Occurring in a Toroidal Field Magnet of the EU DEMO. Fusion Science and Technology, 2019, 75, 412-421.	0.6	3

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55	Optimization and Multicriteria Evaluation of Carbon-neutral Technologies for District Heating. Energies, 2019, 12, 1653.	1.6	12
56	Self-consistent modelling of a liquid metal box-type divertor with application to the divertor tokamak test facility: Li versus Sn. Nuclear Fusion, 2019, 59, 066020.	1.6	11
57	Recent progress in developing a feasible and integrated conceptual design of the WCLL BB in EUROfusion project. Fusion Engineering and Design, 2019, 146, 1805-1809.	1.0	126
58	Tritium Extraction From HCLL/WCLL/DCLL PbLi BBs of DEMO and HCLL TBS of ITER. IEEE Transactions on Plasma Science, 2019, 47, 1464-1471.	0.6	18
59	A CFD-supported dynamic system-level model of a sodium-cooled billboard-type receiver for central tower CSP applications. Solar Energy, 2019, 177, 576-594.	2.9	24
60	Analysis of an actively-cooled coaxial cavity in a 170 GHz 2 MW gyrotron using the multi-physics computational tool MUCCA. Fusion Engineering and Design, 2019, 146, 74-77.	1.0	2
61	Analysis of a Protected Loss of Flow Accident (LOFA) in the ITER TF Coil Cooling Circuit. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-9.	1.1	4
62	Performance Analysis of the NbTi PF Coils for the EU DEMO Fusion Reactor. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	6
63	Thermal-Hydraulic Analysis of the EU DEMO Helium-Cooled Pebble Bed Breeding Blanket Using the GETTHEM Code. IEEE Transactions on Plasma Science, 2018, 46, 1436-1445.	0.6	9
64	Prediction, experimental results and analysis of the ITER TF insert coil quench propagation tests, using the 4C code. Superconductor Science and Technology, 2018, 31, 035004.	1.8	16
65	Numerical Studies on the Influence of Cavity Thermal Expansion on the Performance of a High-Power Gyrotron. IEEE Transactions on Electron Devices, 2018, 65, 2308-2315.	1.6	17
66	Analysis of the performance of linear Fresnel collectors: Encapsulated vs. evacuated tubes. Solar Energy, 2018, 164, 119-138.	2.9	27
67	Full-core coupled neutronic/thermal-hydraulic modelling of the EBR-II SHRT-45R transient. International Journal of Energy Research, 2018, 42, 134-150.	2.2	5
68	Parametric thermal-hydraulic analysis of the EU DEMO Water-Cooled Lithium-Lead First Wall using the GETTHEM code. Fusion Engineering and Design, 2018, 137, 257-267.	1.0	4
69	Assessment of the performance of a 20†kA REBCO current lead. Cryogenics, 2018, 95, 95-101.	0.9	7
70	Modelling an in-vessel loss of coolant accident in the EU DEMO WCLL breeding blanket with the GETTHEM code. Fusion Engineering and Design, 2018, 136, 1226-1230.	1.0	11
71	Hydraulic modeling of a segment of the EU DEMO HCPB breeding blanket back supporting structure. Fusion Engineering and Design, 2018, 136, 1186-1190.	1.0	6
72	Thermal–Hydraulic Test and Analysis of the ENEA TF Conductor Sample for the EU DEMO Fusion Reactor. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-9.	1.1	9

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73	Design, Test and Analysis of a Gyrotron Cavity Mock-Up Cooled Using Mini Channels. IEEE Transactions on Plasma Science, 2018, 46, 2207-2215.	0.6	5
74	Progress in the design of the superconducting magnets for the EU DEMO. Fusion Engineering and Design, 2018, 136, 1597-1604.	1.0	67
75	Progress in EU Breeding Blanket design and integration. Fusion Engineering and Design, 2018, 136, 782-792.	1.0	50
76	Characterization of Particle Flow in a Free-Falling Solar Particle Receiver. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.1	67
77	Analysis of the cooldown of the ITER central solenoid model coil and insert coil. Superconductor Science and Technology, 2017, 30, 015015.	1.8	13
78	Analysis of AC Losses in the ITER Central Solenoid Insert Coil. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	16
79	DTT device: Conceptual design of the superconducting magnet system. Fusion Engineering and Design, 2017, 122, 299-312.	1.0	21
80	Analysis of Quench Propagation in the ITER Central Solenoid Insert (CSI) Coil. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-8.	1.1	9
81	Tritium Extraction from Lithium-Lead in the EU DEMO Blanket Using Permeator Against Vacuum. Fusion Science and Technology, 2017, 71, 537-543.	0.6	8
82	Analysis of the ITER central solenoid insert (CSI) coil stability tests. Cryogenics, 2017, 85, 8-14.	0.9	2
83	Dynamic thermal-hydraulic modelling of the EU DEMO WCLL breeding blanket cooling loops. Fusion Engineering and Design, 2017, 124, 887-891.	1.0	13
84	Identification of accident sequences for the DEMO plant. Fusion Engineering and Design, 2017, 124, 1277-1280.	1.0	30
85	Analysis of the DC performance of the ITER CSI coil using the 4C code. Fusion Engineering and Design, 2017, 124, 159-162.	1.0	3
86	Performance analysis of a graded winding pack design for the EU DEMO TF coil in normal and off-normal conditions. Fusion Engineering and Design, 2017, 124, 45-48.	1.0	15
87	Characterization of the ITER CS conductor and projection to the ITER CS performance. Fusion Engineering and Design, 2017, 124, 1-5.	1.0	15
88	Modeling the lithium loop in a liquid metal pool-type divertor. Fusion Engineering and Design, 2017, 125, 206-215.	1.0	4
89	Modelling of the test of the JT-60SA HTS current leads. Cryogenics, 2017, 85, 78-87.	0.9	4
90	Coupled optical and CFD parametric analysis of an open volumetric air receiver of honeycomb type for central tower CSP plants. Solar Energy, 2017, 155, 523-536.	2.9	31

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91	Overview of the hydraulic characteristics of the ITER Central Solenoid Model Coil conductors after 15 years of test campaigns. IOP Conference Series: Materials Science and Engineering, 2017, 278, 012178.	0.3	1
92	Numerical studies on the influence of cavity thermal expansion on the performance of a high-power gyrotron. , 2017, , .		5
93	European research activities towards a future DEMO gyrotron. EPJ Web of Conferences, 2017, 149, 04007.	0.1	3
94	Multi-physics analysis of a 1 MW gyrotron cavity cooled by mini-channels. Fusion Engineering and Design, 2017, 123, 313-316.	1.0	22
95	Design of a Permeator-Against-Vacuum mock-Up for the tritium extraction from PbLi at low speed. Fusion Engineering and Design, 2017, 121, 198-203.	1.0	11
96	Economic analysis in risk management. , 2017, , 179-216.		3
97	Foundational issues in risk assessment and management. , 2017, , 217-260.		1
98	Preliminary discrete element modeling of a falling particle curtain for CSP central tower receivers. AIP Conference Proceedings, 2016, , .	0.3	4
99	Numerical evaluation of an innovative cup layout for open volumetric solar air receivers. AIP Conference Proceedings, 2016, , .	0.3	4
100	Safety issues related to the intermediate heat storage for the EU DEMO. Fusion Engineering and Design, 2016, 109-111, 135-140.	1.0	6
101	Development of a Thermal-Hydraulic Model for the European DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	23
102	Design and optimization of Artificial Neural Networks for the modelling of superconducting magnets operation in tokamak fusion reactors. Journal of Computational Physics, 2016, 321, 476-491.	1.9	9
103	Analyses of Low- and High-Margin Quench Propagation in the European DEMO TF Coil Winding Pack. IEEE Transactions on Plasma Science, 2016, 44, 1564-1570.	0.6	9
104	Numerical analysis of propagation of thermal disturbances in brass-stabilized REBCO tapes. Cryogenics, 2016, 80, 390-399.	0.9	0
105	Dynamic thermal-hydraulic modelling of the EU DEMO HCPB breeding blanket cooling loops. Progress in Nuclear Energy, 2016, 93, 116-132.	1.3	12
106	CFD Analysis of Different Cooling Options for a Gyrotron Cavity. IEEE Transactions on Plasma Science, 2016, 44, 3432-3438.	0.6	8
107	Predictive 1-D thermal-hydraulic analysis of the prototype HTS current leads for the ITER correction coils. Cryogenics, 2016, 80, 325-332.	0.9	4
108	ITER Central Solenoid Insert Test Results. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	37

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109	Thermal–Hydraulic Modeling of a Novel HTS CICC for Nuclear Fusion Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.1	9
110	Overview of Progress on the EU DEMO Reactor Magnet System Design. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	46
111	Analysis of AC Losses in the EAST Superconducting Magnets Using the 4C Code. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	3
112	Perspective and criticalities of CFD modelling for the analysis of oil and gas offshore accident scenarios. , 2016, , 195-201.		0
113	CFD analysis of mini-channel cooling for a gyrotron cavity. , 2015, , .		2
114	4C code analysis of high-margin quench propagation in a DEMO TF coil. , 2015, , .		3
115	Artificial Neural Network Model for the Thermal-Hydraulic Response of a TF Superconducting Magnet in ITER. Fusion Science and Technology, 2015, 68, 336-340.	0.6	6
116	Thermal-Hydraulic and Structural Analysis of a Helium-Cooled First Wall Mock-Up. Fusion Science and Technology, 2015, 68, 507-511.	0.6	2
117	Thermal-hydraulic analysis of transients in the HELIOS loop including a CICC section representative of the JT-60SA Central Solenoid. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012147.	0.3	Ο
118	Artificial Neural Networks: a viable tool to design heat load smoothing strategies for the ITER Toroidal Field coils. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012149.	0.3	0
119	A simplified model for the electrical energy consumption of washing machines. Journal of Building Engineering, 2015, 2, 69-76.	1.6	8
120	Multiscale Hydraulic Modeling of the ITER TF He Inlets During Nominal and Off-Normal Operation. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	0
121	Numerical investigation of collector cooling for a 1 MW ITER gyrotron operated with vertical sweeping. Fusion Engineering and Design, 2015, 100, 112-119.	1.0	7
122	Towards the optimization of the thermal–hydraulic performance of gyrotron collectors. Fusion Engineering and Design, 2015, 100, 120-132.	1.0	11
123	3D thermal-hydraulic analysis of two irregular field joints for the ITER vacuum vessel. Fusion Engineering and Design, 2015, 98-99, 1605-1609.	1.0	3
124	Thermo-mechanical study of high heat flux component mock-ups for ITER TBM. Fusion Engineering and Design, 2015, 98-99, 1723-1727.	1.0	2
125	Incorporating Artificial Neural Networks in the dynamic thermal–hydraulic model of a controlled cryogenic circuit. Cryogenics, 2015, 70, 9-20.	0.9	7
126	CFD analysis of the ITER first wall 06 panel. Part I: Model set-up and flow distribution. Fusion Engineering and Design, 2014, 89, 442-455.	1.0	2

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127	4C modeling of the supercritical helium loop HELIOS in isobaric configuration. Cryogenics, 2014, 64, 51-62.	0.9	3
128	Analysis of the Effects of the Nuclear Heat Load on the ITER TF Magnets Temperature Margin. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.1	8
129	Application of the 4C code to the thermal–hydraulic analysis of the CS superconducting magnets in EAST. Cryogenics, 2014, 63, 255-262.	0.9	6
130	Computational Fluid Dynamics (CFD) Analysis of the Helium Inlet Mock-Up for the ITER TF Superconducting Magnets. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	3
131	Artificial Neural Network (ANN) modeling of the pulsed heat load during ITER CS magnet operation. Cryogenics, 2014, 63, 231-240.	0.9	16
132	3D thermal-hydraulic analysis of an ITER vacuum vessel regular Field Joint. Fusion Engineering and Design, 2014, 89, 1848-1853.	1.0	2
133	Effects of RANS-type Turbulence Models on the Convective Heat Loss Computed by CFD in the Solar Two Power Tower. Energy Procedia, 2014, 49, 569-578.	1.8	3
134	CFD analysis of the ITER first wall 06 panel. Part II: Thermal-hydraulics. Fusion Engineering and Design, 2014, 89, 431-441.	1.0	5
135	Evaluation of the neutron activation of JET in-vessel components following DT irradiation. Fusion Engineering and Design, 2014, 89, 2071-2075.	1.0	4
136	Verification of the predictive capabilities of the 4C code cryogenic circuit model. AIP Conference Proceedings, 2014, , .	0.3	19
137	A full-core coupled neutronic/thermal-hydraulic code for the modeling of lead-cooled nuclear fast reactors. Nuclear Engineering and Design, 2013, 261, 85-94.	0.8	20
138	CtFD-based correlations for the thermal–hydraulics of an HTS current lead meander-flow heat exchanger in turbulent flow. Cryogenics, 2013, 53, 51-60.	0.9	9
139	Modeling of pulsed heat load in a cryogenic SHe loop using Artificial Neural Networks. Cryogenics, 2013, 57, 173-180.	0.9	10
140	1-D thermal-hydraulic analysis of the high temperature superconducting current leads for the ITER magnet system from 5K to 300K. Fusion Engineering and Design, 2013, 88, 3125-3131.	1.0	2
141	CFD analysis of a regular sector of the ITER vacuum vessel. Part II: Thermal-hydraulic effects of the nuclear heat load. Fusion Engineering and Design, 2013, 88, 3248-3262.	1.0	11
142	CFD analysis of a regular sector of the ITER vacuum vessel. Part I: Flow distribution and pressure drop. Fusion Engineering and Design, 2013, 88, 3272-3279.	1.0	12
143	4C code analysis of thermal–hydraulic transients in the KSTAR PF1 superconducting coil. Cryogenics, 2013, 53, 37-44.	0.9	26
144	Validation of the 4C code against data from the HELIOS loop at CEA Grenoble. Cryogenics, 2013, 53, 25-30.	0.9	19

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145	Multiscale Approach and Role of Validation in the Thermal-Hydraulic Modeling of the ITER Superconducting Magnets. IEEE Transactions on Applied Superconductivity, 2013, 23, 4900607-4900607.	1.1	12
146	Mitigation of the Temperature Margin Reduction due to the Nuclear Radiation on the ITER TF Coils. IEEE Transactions on Applied Superconductivity, 2013, 23, 4201305-4201305.	1.1	17
147	4C modeling of pulsed-load smoothing in the HELIOS facility using a controlled bypass valve. Cryogenics, 2013, 57, 31-44.	0.9	12
148	Computational thermal-fluid dynamics analysis of the laminar flow regime in the meander flow geometry characterizing the heat exchanger used in high temperature superconducting current leads. Fusion Engineering and Design, 2013, 88, 2749-2756.	1.0	7
149	Dynamic modeling of a supercritical helium closed loop with the 4C code. , 2012, , .		5
150	Parametric Analysis of the ITER TF Fast Discharge Using the 4C Code. IEEE Transactions on Applied Superconductivity, 2012, 22, 4704104-4704104.	1.1	25
151	Progress in Multi-Physics Modeling of Innovative Lead-Cooled Fast Reactors. Fusion Science and Technology, 2012, 61, 293-297.	0.6	1
152	Thermal-Hydraulic Simulation of 80 kA Safety Discharge in the ITER Toroidal Field Model Coil (TFMC) Using the 4C Code. IEEE Transactions on Plasma Science, 2012, 40, 782-787.	0.6	11
153	Simulation of Thermal–Hydraulic Transients in the KSTAR PF1 Coil Using the 4C Code. IEEE Transactions on Plasma Science, 2012, 40, 710-714.	0.6	10
154	CFD analysis of flow boiling in the ITER first wall. Fusion Engineering and Design, 2012, 87, 556-560.	1.0	22
155	Analysis and Performance Assessment for a 68 kA HTS Current Lead Heat Exchanger. IEEE Transactions on Applied Superconductivity, 2012, 22, 4801104-4801104.	1.1	3
156	Computational Thermal-Hydraulic Analysis of the Helium Inlet Options for the ITER Central Solenoid. IEEE Transactions on Applied Superconductivity, 2012, 22, 4902505-4902505.	1.1	7
157	4C Code Simulation and Benchmark of ITER TF Magnet Cool-Down From 300 K to 80 K. IEEE Transactions on Applied Superconductivity, 2012, 22, 4902604-4902604.	1.1	12
158	Thermal-hydraulic simulation of 80 kA safety discharge in the ITER Toroidal Field Model Coil (TFMC) using the 4C code. , 2011, , .		1
159	Simulation of thermal-hydraulic transients in the KSTAR PF1 coil using the 4C code. , 2011, , .		Ο
160	Modeling of W7-X superconducting coil cool-down using the 4C code. Fusion Engineering and Design, 2011, 86, 1549-1552.	1.0	27
161	Computation of JT-60SA TF coil temperature margin using the 4C code. Fusion Engineering and Design, 2011, 86, 1493-1496.	1.0	19
162	Heat exchanger CFD analysis for the W7-X high temperature superconductor current lead prototype. Fusion Engineering and Design, 2011, 86, 1571-1574.	1.0	10

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163	Effects of Mass Flow Rate Imbalance Among Petals During \${m T}_{m CS}\$ Measurements of ITER TF Short Samples in SULTAN. IEEE Transactions on Applied Superconductivity, 2011, 21, 1978-1981.	1.1	2
164	Analysis of sudden quench of an ITER superconducting NbTi full-size short sample using the THELMA code. Superconductor Science and Technology, 2011, 24, 105001.	1.8	6
165	Validation of the 4C Thermal-Hydraulic Code Against 25 kA Safety Discharge in the ITER Toroidal Field Model Coil (TFMC). IEEE Transactions on Applied Superconductivity, 2011, 21, 1948-1952.	1.1	35
166	Quench analysis of an ITER TF coil. Fusion Engineering and Design, 2010, 85, 752-760.	1.0	37
167	The 4C code for the cryogenic circuit conductor and coil modeling in ITER. Cryogenics, 2010, 50, 167-176.	0.9	95
168	CFD model of ITER CICC. Part VI: Heat and mass transfer between cable region and central channel. Cryogenics, 2010, 50, 158-166.	0.9	18
169	Analysis of Quench Propagation in the ITER Poloidal Field Conductor Insert (PFCI). IEEE Transactions on Applied Superconductivity, 2010, 20, 491-494.	1.1	9
170	CtFD Analysis of HTS Current Lead Fin-Type Heat Exchanger for Fusion Applications. IEEE Transactions on Applied Superconductivity, 2010, 20, 1733-1736.	1.1	7
171	STABILITY ANALYSIS OF THE ITER CS COIL CONDUCTORS. , 2010, , .		3
172	EU contribution to the test and analysis of the ITER poloidal field conductor insert and the central solenoid model coil. Superconductor Science and Technology, 2009, 22, 085006.	1.8	15
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