

PERSONAL INFORMATION

Laura SAVOLDI

POSITION Full Professor of Nuclear Engineering

WORK EXPERIENCE

(2017-) Full Professor of Nuclear Engineering

Politecnico di Torino, Italy

- Research in nuclear fusion, nuclear fission, concentrated solar power, see attached list of 140+ paper published in international journals
- Several teaching responsibilities, including
 - Computational methods for thermal fluid dynamics (MSc and PhD levels)
 - Thermal-hydraulics (BSc level)
 - Models and scenarios for energy planning (MSc level)

(2014-2017) [Business or sector](#) Research and education
Associate Professor of Nuclear Engineering

Politecnico di Torino, Italy

- Research in nuclear fusion, nuclear fission, concentrated solar power
- Several teaching responsibilities, including
 - Computational methods for thermal fluid dynamics (MSc and PhD levels)
 - Thermal-hydraulics (BSc level)

(2011-) [Business or sector](#) Research and education
Member of the Board of graduate program in Energy Engineering

Politecnico di Torino, Italy

(2006-2014) [Business or sector](#) Research and education
Assistant Professor of Nuclear Engineering

Politecnico di Torino, Italy

- Research and teaching responsibilities

(2002-2006) [Business or sector](#) Research and education
Assistant Professor of Technical Physics

Politecnico di Torino, Italy

- Research in nuclear fusion
- Several teaching responsibilities, including
 - Applied Thermodynamics (BSc level)
 - Computational thermal fluid dynamics (MSc level)

(2001-2002) [Business or sector](#) Research and education
Post-doc fellowship

Politecnico di Torino, Italy

- Research in nuclear fusion

[Business or sector](#) Research

EDUCATION AND TRAINING

- 1997-2001 **PhD in Energy Engineering**
Politecnico di Torino, Italy
- 1992-1997 **Master of Science in Nuclear Engineering (110/110 cum laude)**
Politecnico di Torino, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Communication skills Good communication skills gained through my experience as teacher and technical responsible of several contracts.

Organisational / managerial skills Excellent organisational and managerial skills gained through my experience as technical responsible of several contracts.

Computer skills ANSYS Fluent, STARCCM+, OpenFOAM for CFD analysis at the component level. Dymola/Modelica for thermal-hydraulic analysis at the system level. Development, validation and application of in-house thermal-hydraulic codes, based on the FORTRAN programming language, for special applications.

Memberships Member of the Institute of Electrical and Electronic Engineers (IEEE)
Member of the American Society of Mechanical Engineering (ASME)

Torino, September 3, 2019

Publications by L. Savoldi on international journals (published or accepted for publication)

- J1. Bonifetto, R.; Savoldi, L.; Zanino, R. (2019) Thermal-Hydraulic Analysis of the JT-60SA Central Solenoid Operation, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 29, n. 5, 8678439.
- J2. Bonifetto, R.; Bianchi, M.; Breschi, M.; Brighenti, A.; Martovetsky, N.; Savoldi, L.; Zanino, R. (2019) Modeling the ITER CS AC Losses Based on the CS Insert Analysis, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 29, n. 5, 4200907.
- J3. Del Nevo, A.; Arena, P.; Caruso, G.; Chiovaro, P.; Di Maio, P. A.; Eboli, M.; Edemetti, F.; Forgione, N.; Forte, R.; Froio, A.; Giannetti, F.; Di Gironimo, G.; Jiang, K.; Liu, S.; Moro, F.; Mozzillo, R.; Savoldi, L.; Tarallo, A.; Tarantino, M.; Tassone, A.; Utili, M.; Villari, R.; Zanino, R.; Martelli, E. (2019) Recent progress in developing a feasible and integrated conceptual design of the WCLL BB in EUROfusion project, FUSION ENGINEERING AND DESIGN.
- J4. Nallo, G.F.; Maazitelli, G.; Savoldi, L.; Subba, F.; Zanino, R. (2019) Self-consistent modelling of a liquid metal box-type divertor with application to the Divertor Tokamak Test (DTT) facility: Li vs. Sn, NUCLEAR FUSION, vol. 59, n. 6, 066020.
- J5. Pinto, G.; Abdollahi, E.; Capozzoli, A.; Savoldi, L.; Lahdelma, R. (2019) Optimization and Multicriteria Evaluation of Carbon-neutral Technologies for District Heating, ENERGIES, vol. 12:9, pp. 1653.
- J6. Froio, A.; Bertinetti, A.; Ghidersa, B. -E.; Hernández, F. A.; Savoldi, L.; Zanino, R. (2019) 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, vol. 75, pp. 365-371.
- J7. Bonifetto, R.; Pedroni, N.; Savoldi, L.; Zanino, R. (2019) Identification of the Postulated Initiating Events of Accidents Occurring in a Toroidal Field Magnet of the EU DEMO, FUSION SCIENCE AND TECHNOLOGY, vol. 75, pp. 412-421.
- J8. Utili, M.; Tincani, A.; Candido, L.; Savoldi, L.; Zanino, R.; Zucchetti, M.; Martelli, D.; Venturini, A. (2019) Tritium Extraction from HCLL/WCLL/DCLL PbLi BBs of DEMO and HCLL TBS of ITER, IEEE TRANSACTIONS ON PLASMA SCIENCE, vol. 47, pp. 1464-1471.
- J9. Zappatore, A.; Fietz, W.H.; Heller, R.; Savoldi, L.; Wolf, M.J.; Zanino, R. (2019) A critical assessment of thermal-hydraulic modeling of HTS Twisted-Stacked-Tape-Cable conductors for fusion applications, SUPERCONDUCTOR SCIENCE & TECHNOLOGY.
- J10. Cagnoli, M.; Froio, A.; Savoldi, L.; Zanino, R. (2019) Multi-scale modular analysis of open volumetric receivers for central tower CSP systems, SOLAR ENERGY, vol. 190, pp. 195-211.
- J11. Bertinetti, A.; Albajar, F.; Avramidis, K. A.; Cau, F.; Cismondi, F.; Gentenbein, G.; Jelonnek, J.; Kalaria, P.C.; Ruess, S.; Rzesnicki, T.; Savoldi, L.; Zanino, R. (2019) 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.
- J12. Cagnoli, M.; de la Calle, A.; Pye, J.; Savoldi, L.; Zanino, R. (2019) A CFD-supported dynamic system-level model of a sodium-cooled billboard-type receiver for central tower CS applications, SOLAR ENERGY, vol. 177, pp. 576-594.
- J13. Corato, V.; Bagni, T.; Biancolini, M.E.; Bonifetto, R.; Bruzzone, P.; Bykovsky, N.; Ciazynski, D.; Coleman, M.; della Corte, A.; Dembowska, A.; Di Zenobio, A.; Eisterer, M.; Fietz, W.H.; Fischer, D.X.; Gaio, E.; Giannini, L.; Giorgetti, F.; Heller, R.; Ivashov, I.; Lacroix, B.; Lewandowska, M.; Maistrello, A.; Morici, L.; Muzzi, L.; Nijhuis, A.; Nunio, F.; Panin, A.; Sarasola, X.; Savoldi, L.; Sedlak, K.; Stepanov, B.; Tomassetti, G.; Torre, A.; Turtù, S.; Uglietti, D.; Vallcorba, R.; Weiss, K.-P.; Wesche, R.; Wolf, M.J.; Yagotintsev, K.; Zani, L.; Zanino, R. (2018), Progress in the design of the superconducting magnets for the EU DEMO, FUSION ENGINEERING AND DESIGN, vol. 136, pp. 1597-1604.
- J14. Zappatore, A.; Heller, R.; Savoldi, L.; Zanino, R. (2018) Assessment of the performance of a 20 kA REBCO current lead, CRYOGENICS, vol. 95, pp. 95-101.
- J15. Froio, A.; Del Nevo, A.; Martelli, E.; Savoldi, L.; Zanino, R. (2018) Parametric thermal-hydraulic analysis of the EU DEMO Water-Cooled Lithium-Lead First Wall using the GETTHEM code, FUSION ENGINEERING AND DESIGN, vol. 137, pp. 257-267.
- J16. Savoldi, L.; Bonifetto, R.; Pedroni, N.; Zanino, R. (2018), Analysis of a protected Loss Of Flow Accident (LOFA) in the ITER TF coil cooling circuit, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 28, n.3, 4202009.
- J17. Zappatore, A.; Bonifetto, R.; Bruzzone, P.; Corato, V.; Di Zenobio, A.; Savoldi, L.; Sedlak, K.; Turtu, S.; Zanino, R. (2018), Performance analysis of the NbTi PF coils for the EU DEMO fusion reactor, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 28, n. 4, 4901005.
- J18. Caron, D.; Bonifetto, R.; Dulla, S.; Mascolino, V.; Ravetto, P.; Savoldi, L.; Valerio, D.; Zanino, R. (2018), Full-core coupled neutronic/thermal-hydraulic modelling of the EBR-II SHRT-45R transient, INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol. 42, n. 1, pp. 134-150.
- J19. Cagnoli, M.; Mazzei, D.; Procopio, M.; Russo, V.; Savoldi, L.; Zanino, R. (2018) Analysis of the performance of linear Fresnel collectors: Encapsulated vs. evacuated tubes, SOLAR ENERGY, vol. 164, pp. 119-138.

- J20. Zanino, R.; Bonifetto, R.; Brighenti, A.; Isono, T.; Ozeki, H.; Savoldi, L. (2018) Prediction, experimental results and analysis of the ITER TF insert coil quench propagation tests, using the 4C code, SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol. 31, 035004.
- J21. Bonifetto, R.; Bruzzone, P.; Corato, V.; Muzzi, L.; Savoldi, L.; Stepanov, B.; Zanino, R.; Zappatore, A. (2018), Thermal-hydraulic test and analysis of the ENEA TF conductor sample for the EU DEMO fusion reactor, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 28, n. 4, 4205909.
- J22. Bertinetti, A.; Froio, A.; Ghidersa, B.E.; Hernández G.; Francisco, A.; Savoldi, L.; Zanino, R. (2018), Hydraulic modeling of a segment of the EU DEMO HCPB breeding blanket back supporting structure, FUSION ENGINEERING AND DESIGN, vol. 136, pp. 1186-1190.
- J23. Froio, A.; Bertinetti, A.; Ciattaglia, S.; Cismondi, F.; Savoldi, L.; Zanino, R. (2018), Modelling an in-vessel loss of coolant accident in the EU DEMO WCLL breeding blanket with the GETTHEM code, FUSION ENGINEERING AND DESIGN, vol. 136, pp. 1226-1230.
- J24. Bertinetti, A.; Albajar, F.; Cau, F.; Leggieri, A.; Legrand, F.; Perial, E.; Ritz, G.; Savoldi, L.; Zanino, R.; Zappatore, A. (2018) Design, Test and Analysis of a Gyrotron Cavity Mock-Up Cooled Using Mini Channels, IEEE TRANSACTIONS ON PLASMA SCIENCE, vol. 46, n. 6, pp. 2207 -2215.
- J25. Cismondi, F.; Boccaccini, L. V.; Aiello, G.; Aubert, J.; Bachmann, C.; Barrett, T.; Barucca, L.; Bubelis, E.; Ciattaglia, S.; Del Nevo, A.; Diegele, E.; Gasparotto, M.; Di Gironimo, G.; Di Maio, P. A.; Hernandez, F.; Federici, G.; Fernández-Berqueruelo, I.; Franke, T.; Froio, A.; Gliss, C.; Keep, J.; Loving, A.; Martelli, E.; Maviglia, F.; Moscato, I.; Mozzillo, R.; Poitevin, Y.; Rapisarda, D.; Savoldi, L.; Tarallo, A.; Utili, M.; Vala, L.; Veres, G.; Zanino, R. (2018) Progress in EU Breeding Blanket design and integration, FUSION ENGINEERING AND DESIGN, vol. 136, pp. 782-792.
- J26. Froio, A.; Cismondi, F.; Savoldi, L.; Zanino, R. (2018) Thermal-Hydraulic Analysis of the EU DEMO Helium-Cooled Pebble Bed Breeding Blanket Using the GETTHEM Code, IEEE TRANSACTIONS ON PLASMA SCIENCE, vol. 46, n. 5, 1436 – 1445.
- J27. Avramidis, K. A.; Bertinetti, A.; Albajar, F.; Cau, F.; Cismondi, F.; Gantenbein, G.; Illy, S.; Ioannidis, Z. C.; Jelonnek, J.; Legrand, F.; Pagonakis, I. G.; Rozier, Y.; Rzesnicki, T.; Savoldi, L.; Thumm, M.; Zanino, R. (2018) Numerical Studies on the Influence of Cavity Thermal Expansion on the Performance of a High-Power Gyrotron, IEEE TRANSACTIONS ON ELECTRON DEVICES, vol. 65, n. 6, pp. 2308-2315.
- J28. Cagnoli, M.; Savoldi, L.; Zanino R.; Zaversky F. (2017) Coupled optical and CFD parametric analysis of an open volumetric air receiver of honeycomb type for central tower CSP plants, SOLAR ENERGY, vol. 155, pp. 523-536.
- J29. Bonifetto, R.; Isono, T.; Martovetsky, N.; Savoldi, L.; Zanino, R. (2017) Analysis of the quench propagation in the ITER central solenoid insert (CSI) Coil, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 27 n. 4, 7801882
- J30. Ho, C.K. ; Christian, J.M. ; Romano, D.; Yellowhair J.; Siegel, N.; Savoldi, L.; Zanino, R. (2017) Characterization of particle flow in a free-falling solar particle receiver, JOURNAL OF SOLAR ENERGY ENGINEERING, TRANSACTIONS OF THE ASME, vol. 139 n. 2, pp 021011.
- J31. Breschi, M.; Bianchi, M.; Bonifetto, R.; Carli, S.; Devred, A.; Martovetsky, N.; Ribani, P. L.; Savoldi, L.; Isono T.; Zanino, R. (2017) Analysis of AC Losses in the ITER Central Solenoid Insert Coil, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 27 n. 4, 4200605.
- J32. Bonifetto, R.; Brighenti, A.; Isono, T.; Martovetsky, N.; Kawano, K.; Savoldi, L.; Zanino, R. (2017) Analysis of the cooldown of the ITER central solenoid model coil and insert coil, SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol. 30 n. 1, 015015.
- J33. Nallo, G.F.; Carli, S.; Caruso, G.; Crisanti, F.; Mazzitelli, G.; Savoldi, L.; Subba, F.; Zanino, R. (2017) Modeling the lithium loop in a liquid metal pool-type divertor, FUSION ENGINEERING AND DESIGN, vol. 125, pp. 206-215.
- J34. D'Auria, V.; Dulla, S.; Ravetto, P.; Savoldi, L.; Utili, M.; Zanino, R., (2017) Design of a Permeator-Against-Vacuum mock-Up for the tritium extraction from PbLi at low speed, FUSION ENGINEERING AND DESIGN, vol. 121, pp 198-203.
- J35. D'Auria, V.; Dulla, S.; Ravetto, P.; Savoldi, L.; Utili, M.; Zanino, R., (2017) Tritium extraction from lithium-lead in the EU DEMO blanket using Permeator Against Vacuum, FUSION SCIENCE AND TECHNOLOGY, vol. 71, n. 4, pp 537-543.
- J36. Pinna, T.; Carloni, D.; Carpignano, A.; Ciattaglia, S.; Johnston, J.; Porfiri, M.T.; Savoldi, L.; Taylor, N.; Sobrero, G.; Ugenti, A.C.; Vaisnoras, M.; Savoldi, L.; Zanino, R.(2017) Identification of accident sequences for the DEMO plant, FUSION ENGINEERING AND DESIGN, vol.124, 2017, pp 1277-1280.
- J37. Savoldi, L.; Bonifetto, R.; Breschi, M.; Isono, T.; Martovetsky, N.; Ozeki, H.; Zanino, R. (2017) Analysis of the ITER central solenoid insert (CSI) coil stability tests, CRYOGENICS, vol. 85, pp 8-14.
- J38. Zappatore, A.; Heller, R.; Savoldi, L.; Zanino, R. (2017) Modelling of the test of the JT-60SA HTS current leads, CRYOGENICS, vol. 85, pp 78-87.

- J39. Froio, A.; Casella, F.; Cismondi, F.; Del Nevo, A.; Savoldi, L.; Zanino, R. (2017), Dynamic thermal-hydraulic modelling of the EU DEMO WCLL breeding blanket cooling loops, FUSION ENGINEERING AND DESIGN, vol. 124, pp 887-891.
- J40. Savoldi, L.; Bonifetto, R.; Brighenti, Alberto; Corato, V.; Muzzi, L.; Turtu', S.; Zanino, R.; Zappatore, A. (2017), Quench propagation in a TF coil of the EU DEMO, FUSION SCIENCE AND TECHNOLOGY, vol. 72, n. 3, pp 439-448.
- J41. Bonifetto, R.; Isono, Takaaki; Martovetsky, Nicolai; Savoldi, L.; Zanino, R. (2017) Analysis of the DC performance of the ITER CSI coil using the 4C code, FUSION ENGINEERING AND DESIGN, vol. 124, pp. 159-162.
- J42. Di Zenobio, A.; Albanese, R.; Anemona, A.; Biancolini, M. E.; Bonifetto, R.; Brutti, C.; Corato, V.; Crisanti, F.; della Corte, A.; De Marzi, G.; Fiamozzi Zignani, C.; Giorgetti, F.; Messina, G.; Muzzi, L.; Savoldi, L.; Tomassetti, G.; Turtù, S.; Villone, F.; Zappatore, A. (2017), DTT device: Conceptual design of the superconducting magnet system, FUSION ENGINEERING AND DESIGN, vol. 122, pp. 299-312.
- J43. Martovetsky, N.; Isono, T.; Bessette, D.; Devred, A.; Nabara, Y.; Zanino, R.; Savoldi, L.; Bonifetto, R.; Bruzzone, P.; Breschi, M.; Zani, L. (2017), Characterization of the ITER CS conductor and projection to the ITER CS performance, FUSION ENGINEERING AND DESIGN, vol. 124, pp. 1-5.
- J44. Bertinetti, A.; Avramidis, K. A.; Albajar, F.; Cau, F.; Cismondi, F.; Rozier, Y.; Savoldi, L.; Zanino, R. (2017) Multi-physics analysis of a 1MW gyrotron cavity cooled by mini-channels, FUSION ENGINEERING AND DESIGN, vol. 123, pp. 313-316.
- J45. Savoldi, L.; Brighenti, Alberto; Bonifetto, R.; Corato, V.; Muzzi, L.; Turtu', S.; Zanino, R. (2017), Performance analysis of a graded winding pack design for the EU DEMO TF coil in normal and off-normal conditions, FUSION ENGINEERING AND DESIGN, vol. 124, pp. 45-48.
- J46. Heller, R.; Bauer, P.; Savoldi, L.; Zanino, R.; Zappatore, A. (2016) Predictive 1-D thermal-hydraulic analysis of the prototype HTS current leads for the ITER correction coils. CRYOGENICS, vol. 80, pp. 325-332.
- J47. Savoldi, L.; Bonifetto, R.; Muzzi, L.; Zanino, R. (2016), Analyses of low- and high-margin Quench Propagation in the European DEMO TF Coil Winding Pack. IEEE TRANSACTIONS ON PLASMA SCIENCE, vol. 44 n. 9, pp. 1564-1570.
- J48. Li, J.; Bonifetto, R.; Savoldi, L.; Zanino, R. (2016), Analysis of AC losses in the EAST superconducting magnets using the 4C code. IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 26 n. 4, 4204605-.
- J49. Savoldi, L.; Bertinetti, A.; Nallo, G. F.; Zappatore, A.; Zanino, R.; Cau, F.; Cismondi, F.; Rozier, Y. (2016), CFD Analysis of Different Cooling Options for a Gyrotron Cavity. IEEE TRANSACTIONS ON PLASMA SCIENCE, vol. 44 n. 12, pp. 3432-3438.
- J50. Froio, A.; Bonifetto, R.; Carli, S.; Quartararo, A.; Savoldi, L.; Zanino, R. (2016), Design and optimization of Artificial Neural Networks for the modelling of superconducting magnets operation in tokamak fusion reactors. JOURNAL OF COMPUTATIONAL PHYSICS, vol. 321, pp. 476-491.
- J51. Zanino, R.; Bonifetto, R.; Dicuonzo, O.; Muzzi, L.; Nallo, G. F.; Savoldi, L.; Turtù, S. (2016), Development of a Thermal-Hydraulic Model for the European DEMO TF Coil. IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 26 n. 3, 4201606-.
- J52. Froio, A.; Bachmann, C.; Cismondi, F.; Savoldi, L.; Zanino, R. (2016), Dynamic thermal-hydraulic modelling of the EU DEMO HCPB breeding blanket cooling loops. PROGRESS IN NUCLEAR ENERGY, vol. 93, pp. 116-132.
- J53. Martovetsky, N.; Isono, T.; Bessette, D.; Takahashi, Y.; Nunoya, Y.; Nabara, Y.; Ozeki, H.; Kawano, K.; Saito, T.; Suwa, T.; Okuno, K.; Devred, A.; Gauthier, F.; Mitchell, N.; Zanino, R.; Savoldi, L.; Bonifetto, R.; Breschi, M.; Ciazynski, D.; Reiersen, W.; Smirnov, A.; Khodak, A.; Bruzzone, P.; Rodin, I.; Tronza, V.; Torre, A.; Nicollet, S.; Zani, L.; Louzguiti, A.; Duchateau, J.-L. (2016), ITER Central Solenoid Insert Test Results. IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 26 n. 4, 4200605-.
- J54. Brighenti, A.; Bonifetto, R.; Drotziger, S.; Heller, R.; Savoldi, L.; Zanino, R. (2016), Numerical analysis of propagation of thermal disturbances in brass-stabilized REBCO tapes. CRYOGENICS, vol. 80 n. 3, pp. 390-399.
- J55. Zani, L.; Bayer, C.; Biancolini, M.; Bonifetto, R.; Bruzzone, P.; Brutti, C.; Ciazynski, D.; Coleman, M.; Duran, I.; Eisterer, M.; Fietz, W.; Gade, P.; Gaio, E.; Giorgetti, F.; Goldacker, W.; Gomory, F.; Granados, X.; Heller, R.; Hertout, P.; Hoa, C.; Kario, A.; Lacroix, B.; Lewandowska, M.; Maistrello, A.; Muzzi, L.; Nijhuis, A.; Nunio, F.; Panin, A.; Petrisor, T.; Poncet, J.-M.; Prokopec, R.; Sanmarti Cardona, M.; Savoldi, L.; Schlachter, S.; Sedlak, K.; Stepanov, B.; Tiseanu, I.; Torre, A.; Turtu', S.; Vallcorba, R.; Vojenciak, M.; Weiss, K.; Wesche, R.; Yagotintsev, K.; Zanino, R. (2016), Overview of Progress on the EU DEMO Reactor Magnet System Design. IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 26 n. 4, 4204505-.
- J56. Carpignano, A.; Pinna, T.; Savoldi, L.; Sobrero, G.; Ugenti, A. C.; Zanino, R. (2016), Safety Issues related to the Intermediate Heat Storage for the EU DEMO. FUSION ENGINEERING AND DESIGN, vol. 109-111, pp. 135-140.

- J57. Savoldi, L.; Augieri, A.; Bonifetto, R.; Bruzzone, P.; Carli, S.; Celentano, G.; Della Corte, A.; De Marzi, G.; Muzzi, L.; Piras, V.; Zanino, R. (2016), Thermal-hydraulic modeling of a novel HTS CICC for nuclear fusion applications. *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*, vol. 26 n. 3, 4203407-.
- J58. Ho, C. K.; Christian, J. M.; Romano, D.; Yellowhair, J.; Siegel, N.; Savoldi, L.; Zanino, R. (2016), Characterization of Particle Flow in a Free-Falling Solar Particle Receiver. IN: *JOURNAL OF SOLAR ENERGY ENGINEERING*, vol. 139, 021011-.
- J59. Savoldi, L.; Bonifetto, R.; Izquierdo, J.; Le Barbier, R.; Utin, Yu.; Zanino, R. (2015), 3D thermal-hydraulic analysis of two irregular field joints for the ITER vacuum vessel. *FUSION ENGINEERING AND DESIGN*, vol. 98-99, pp. 1605-1609.
- J60. Carli, S.; Bonifetto, R.; Pomella Lobo, T.; Savoldi, L.; Zanino, R. (2015), Artificial neural network model for the thermal-hydraulic response of a TF superconducting magnet in ITER. *FUSION SCIENCE AND TECHNOLOGY*, vol. 68 n. 2, pp. 336-340.
- J61. Carli, S.; Bonifetto, R.; Savoldi, L.; Zanino, R. (2015), Incorporating Artificial Neural Networks in the dynamic thermal-hydraulic model of a controlled cryogenic circuit. *CRYOGENICS*, vol. 70, pp. 9-20.
- J62. Savoldi, L.; Bonifetto, R.; Foussat, A.; Nenni, M.; Santoro, V.; Zanino, R. (2015), Multiscale Hydraulic Modeling of the ITER TF He Inlets During Nominal and Off-Normal Operation. *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*, vol. 25 n. 3, 4202405-.
- J63. Savoldi, L.; Bertani, C.; Cau, F.; Cismondi, F.; Gantenbein, G.; Illy, S.; Monni, G.; Zanino, R. (2015), Numerical investigation of collector cooling for a 1MW ITER gyrotron operated with vertical sweeping. *FUSION ENGINEERING AND DESIGN*, vol. 100, pp. 112-119.
- J64. Bonelli, F.; Boccaccini, L. V.; Ghidersa, B.-E.; Savoldi, L.; Zanino, R. (2015), Thermal-hydraulic and structural analysis of a helium-cooled first wall mock-up. *FUSION SCIENCE AND TECHNOLOGY*, vol. 68, pp. 507-511.
- J65. Bonelli, F.; Boccaccini, L. V.; Kunze, A.; Maione, I. A.; Savoldi, L.; Zanino, R. (2015), Thermo-mechanical study of high heat flux component mock-ups for ITER TBM. *FUSION ENGINEERING AND DESIGN*, vol. 98-99, pp. 1723-1727.
- J66. Savoldi, L.; Bertani, C.; Cau, F.; Cismondi, F.; Gantenbein, G.; Illy, S.; Monni, G.; Rozier, Y.; Zanino, R. (2015), Towards the optimization of the thermal-hydraulic performance of gyrotron collectors. *FUSION ENGINEERING AND DESIGN*, vol. 100, pp. 120-132.
- J67. Carpignano, A.; Pinna, T.; Savoldi, L.; Sobrero, G.; Ugenti, A.C.; Zanino, R. (2015) Safety issues related to the intermediate heat storage for the EU DEMO. *FUSION ENGINEERING AND DESIGN*, vol. 109-111, pp. 135-140.
- J68. Savoldi, L.; Bonifetto, R.; Corpino, S.; Izquierdo, J.; Le Barbier, R.; Utin, Yu.; Zanino, R. (2014), 3D thermal-hydraulic analysis of an ITER vacuum vessel regular Field Joint. *FUSION ENGINEERING AND DESIGN*, vol. 89, pp. 1848-1853.
- J69. Guelfi, F.; Bonifetto, R.; Hoa, C.; Savoldi, L.; Zanino, R. (2014), 4C modeling of the supercritical helium loop HELIOS in isobaric configuration. *CRYOGENICS*, vol. 64, pp. 51-62.
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