



Domenico Alessandro Lampasi



WORK EXPERIENCE

Responsible of Divertor Tokamak Test facility (DTT) Coil Power Supplies

DTT S. c. a r. l. (seconded by ENEA) [28/02/2021 – Current]

City: Frascati (RM)

Country: Italy

Website: <https://www.dtt-project.it/>

- Responsible of the DTT Coil Power Supply Team, including members from 11 research and industry partners. Budget: 80 M€.
- Coordinator and Leader of the EUROfusion Task "In-vessel Coils Power Supply" (DIV-IDTT), supported by the European Agency EUROfusion in the framework of the Horizon Europe (2021-2027) Program. Budget: 1 M€.
- External reviewer for the design of electrical power supply systems of the tokamak SPARC under development in Massachusetts, USA, by Commonwealth Fusion Systems (CFS).

Project Manager and Director of the Contract

DTT S. c. a r. l. and ENEA [2012 – Current]

City: Frascati

Country: Italy

- Project Manager (RUP) for the procurement of the DTT In-Vessel Power Supply Systems, started in 2023. Budget: 15 M€.
- Director of the Contract (DEC) with the Company OCEM Energy Technology for the procurement of the DTT TF Fast Discharge Units, started in 2021. Budget: 8 M€.
- Director of the Contract (DEC) with the Company Mont-Ele for the procurement of a high-efficiency 5-kA power supply for the ARDECO project in ENEA Casaccia, delivered in 2019. Budget: 200 k€.
- Director of the Contract with the Company OCEM Energy Technology for the procurement of an arbitrary current generator up to 2 kA with integrated energy storage, delivered in 2017. Budget: 200 k€.
- Assisting the Contract with the companies POSEICO and JEMA for the procurement of the JT-60SA Superconducting Magnet Power Supplies and transformers, delivered in 2017. Budget: 10 M€.
- Director of the Contract with the Company OCEM Energy Technology for the procurement of the JT-60SA Centrale Solenoid (CS) Switching Network Units, delivered in 2016. Budget: 4.4 M€.
- Director of the Contract with the Company EEI for the procurement of the power supply system (up to 10 kA) of the experimental plant PROTO-SPHERA, delivered in 2013. Budget: 650 k€.

Senior Researcher

Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)

[01/01/2023 – Current]

City: Frascati

Country: Italy

Website: <https://www.enea.it>

- Responsible of the characterization of electrical “stun guns” in collaboration with the Italian Forensic Police Service.

Researcher

Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)

[26/05/2010 – 31/12/2022]

City: Frascati

Country: Italy

- Responsible for the design of the Power Supply and Electrical Distribution System in the Divertor Tokamak Test (DTT) facility.
- Coordinator for EUROfusion Task “DEMO Steady State Electrical Network, HV Switchyard configuration and generator operation” for the DEMO Work Package Balance of Plant (BoP).
- Responsible of ENEA electrical engineering contribution to JT-60SA. Budget: 15 M€.
- Coordinator of the task “High-Voltage Power Supply and Modulator” of the Task Force “Cyclotron Auto-Resonance Maser (CARM)”.
- Responsible for the SLD and CCL deliverables in the Grant Agreement for the Radial Neutron Camera and Radial Gamma-Ray Spectrometer for ITER, supported by the European Agency F4E.
- Responsible of the ENEA Frascati laboratories to test transformer losses according to the European Union Regulation EU 548/2014.
- ENEA Contact Person for the Goal Oriented Training in Power Supply Engineering (GOT-PSE), supported by the European Fusion Development Agreement (EFDA).
- ENEA Work Package Manager of the Grant Agreement for the “Design Verification of the Electron Cyclotron Power Supply System for ITER”, supported by F4E.
- Member of the Task Force “Energy from metal-hydrogen systems” (ENERSISMI).

Contract Researcher

Research Centre for Nanotechnology Applied to Engineering (CNIS), University of Rome Sapienza [

2007 – 2010]

City: Rome

Country: Italy

- International project “Carbon Nanotube Technology for High-speed Next-generation Nano-interconnects” (CATHERINE), under the European Union Seventh Framework Programme (FP7).
- Webmaster of the Integrated Database for Nano-Interconnect Design, formerly known as www.younanotube.eu, and of all the Internet services related to the EMC Laboratory of the University of Rome Sapienza.
- Sviluppo e caratterizzazione elettromagnetica di nanocompositi polimerici basati su strutture di carbonio", supported by the Italian University and Research Ministry (PRIN 2008).

Contract Researcher

Department of Electrical Engineering, University of Rome Sapienza [2005 – 2007]

City: Rome

Country: Italy

- International project "High Intensity Radiated Field - Synthetic Environment" (HIRF-SE) for the certification of aircrafts against electromagnetic interference, under the European Union Seventh Framework Programme (FP7).
- "Electromagnetic detection system of cellular phones and portable electronic devices aboard an aircraft" supported by the Italian University and Research Ministry (PRIN 2004).

Internship

ABB Energy Automation [2001]

City: Ariccia

Country: Italy

- Railway power supplies.
- High voltage and high current measurements, data acquisition and LabVIEW.

EDUCATION AND TRAINING

Ph.D. degree in Electrical Engineering

University of Rome Sapienza [12/04/2006]

City: Rome

Country: Italy

Website: <http://www.uniroma1.it>

Professional Engineering Qualification

[2003]

Website: <https://www.cni.it/en>

M.Sc. degree in Electronic Engineering

University of Rome Sapienza [02/06/2002]

City: Rome

Country: Italy

Website: <http://www.uniroma1.it>

Final grade: 110/110

Corso "Il Nuovo Responsabile di Procedimento"

SDA Bocconi School of Management [13/06/2017 – 16/06/2017]

City: Milan

Country: Italy

Website: <http://www.sdabocconi.it/>

SERVICES

Committees

Member of the Working Group for Electromagnetic Shielding Enclosures that issued the "IEEE Standard Method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having all Dimensions between 0.1 m and 2 m (299.1-2013)".

Link: <https://standards.ieee.org/ieee/299.1/4061/>

Expert for Italian Ministry

[2020 – Current]

- Listed as expert for the evaluation of the electrical research projects of the Italian Ministry of Economic Development (MiSE, MiTE MASE).
- Member of the Working Group for Electromagnetic Shielding Enclosures that issued the "IEEE Standard Method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having all Dimensions between 0.1 m and 2 m (299.1-2013)".

Journal editing

- Guest Editor of the Special Issue "SOFT 2018" for the journal "Fusion Engineering and Design".
- Topic Editor for the Topic "Energy Storage and Conversion Systems" for the journals "Energies", "Electronics", "Processes", "Electricity" and "Solar".
- Guest Editor of the Special Issue "Control and Stability of Electrical Power Systems" for the journal "Energies".
- Guest Editor of the Special Issues "Nuclear Fusion Engineering" and "Nuclear Fusion Engineering II" for the journal "Applied Sciences".

- Guest Editor of the Special Issues “Advances in Supercapacitor Technology and Applications” and “Advances in Supercapacitor Technology and Applications II” for the journal “Energies”.
- Former Member of the Editorial Advisory Board of the Journal Recent Patents on Electrical Engineering published by Bentham Science.

Reviewing

Reviewer for the following Journals:

- Fusion Engineering and Design, published by Elsevier.
- IEEE Transactions on Instrumentation and Measurements, published by the Institute of Electrical and Electronics Engineers (IEEE).
- IEEE Transactions on Plasma Science, published by the Institute of Electrical and Electronics Engineers (IEEE).
- IEEE Transactions on Magnetics, published by the Institute of Electrical and Electronics Engineers (IEEE).
- Measurement, published by Elsevier.
- Measurement Science and Technology, published by the Institute of Physics (IOP).
- Energies, published by MDPI.
- Applied Energy, published by Elsevier.

Selection for positions

Member of the selection board for the following positions:

- Electronic Technicians for the University of Rome Sapienza in 2019.
- Electrical Engineer for the Italian National Institute for Nuclear Physics (INFN) in 2022.

CONFERENCES AND SEMINARS

International Workshop on Supercapacitors and Energy Storage

Creator, organizer and chairman of the Workshops on Supercapacitors and Energy Storage held in:

- Frascati, Italy, on 13 May 2016;
- Valsamoggia, Italy, on 23 May 2017;
- Salerno, Italy, on 31 May and 1 June 2018;
- Bologna, Italy, on 27-28 June 2019;
- Viterbo, Italy, on 27-28 May 2020;
- Bologna, Italy, on 19-20 April 2023.

Link: <https://www.supercap.org/>

Round Table on Nuclear Fusion

[Rome, 11/06/2015]

Organizer and chairman of the “Round Table on Nuclear Fusion” at the IEEE International Conference on Environment and Electrical Engineering (EEEIC 2015), Rome, 12 June 2015.

IEEE International Conference on Environment and Electrical Engineering

Member of the Program Committee of the IEEE International Conference on Environment and Electrical Engineering:

- In 2015 (EEEIC 2015), Rome, June 2015;
- In 2016 (EEEIC 2016), Florence, June 2016;
- In 2017 (EEEIC 2017), Milan, June 2017;
- In 2018 (EEEIC 2018), Palermo, June 2018;
- In 2020 (EEEIC 2020), Madrid, June 2020.

Link: <https://www.eeeic.net/eeeic/>

International Symposium on Enhanced Electrochemical Capacitors (ISEECap)

[Bologna, Italy, 11/07/2022 – 15/07/2022]

Member of the International Advisory Board

Chairman

Chairman in the following events:

- Session "Power Quality" at the IEEE Instrumentation and Measurement Technology Conference (IMTC/2005), Ottawa, Canada, 18 May 2005.
- Session "Unconventional Energy Conversion" at the IEEE International Conference on Environment and Electrical Engineering (EEEIC 2015), Rome, 12 June 2015.
- Plenary Session at the 29th Symposium on Fusion Technology (SOFT), Prague, 7 September 2016.
- Session "Electrical Engineering for Nuclear Fusion" at the IEEE International Conference on Environment and Electrical Engineering (EEEIC 2017), Milan, 7 June 2017.
- Session "State of the art and success factors of supercapacitor applications" at E-TECH Europe 2022, Bologna, Italy, 13 April 2022.
- Session "Tecnologie superconduttive per la transizione energetica" at ZeroEmission Mediterranean 2022, Rome, Italy, 12 October, 2022.

TEACHING AND TUTORING

Board of PhD School

[2017 – Current]

- Member of the Board of the PhD School in "Engineering and Applied Science for Energy and Industry" at University of Rome Sapienza, Rome, Italy.
- Member of the Board of the former PhD School in "Science and Technology for Complex Systems" at University of Rome Sapienza, Rome, Italy.

Contract Professor in "Experimental Physics" at University of Tuscia

[2019 – 2023]

EUROfusion Engineering Grant

[2017 – Current]

- Mentor of an Engineering Grant (from 2024) in "Scalable high-power Modular Multilevel Converters (MMCs) for DEMO Central Solenoid and Poloidal Field coils Power Supplies" programmed by the European Agency EUROfusion.
- Mentor of an Engineering Grant (2017-2020) in "Engineer in support of the DEMO Plant Electrical System" programmed by the European Agency EUROfusion.

EFDA Training

[2010 – 2013]

- Contact Person for the Goal Oriented Training in Power Supply Engineering (GOT-PSE), supported by the European Fusion Development Agreement (EFDA).

External referee for Ph.D. theses

External referee for the Ph.D. theses:

- Ph.D. in Industrial Engineering at University of Salerno in 2018.
- Ph.D. in Physics at University of Naples "Federico II" in 2021.
- Ph.D. Award 2020 at University of Rome Sapienza in 2022.

Theses

[2003 – Current]

Supervisor and co-supervisor of many theses for students from University of Rome Sapienza, University of Rome Tor Vergata, University of Cassino, University of Tuscia, University of Tuscia School for Italian Air Force, University of Naples Federico II, University of Bologna, University of Sannio, Politecnico di Bari.

List of Publications

By Domenico Alessandro Lampasi

International Journals

- [1] C. Terlizzi, S. Bifaretti, A. Lampasi, "*Current Sharing Control Modelling and Design for Power Supplies in Nuclear Fusion Applications*", IEEE Transactions on Industry Applications, 2024. DOI: [10.1109/TIA.2023.3337069](https://doi.org/10.1109/TIA.2023.3337069)
- [2] M. Di Pietrantonio, G. Russo, E. Guerra, S. Minucci, A. Lampasi, A. Trotta, M. Parisi, A. Morandi, "*Design and Performance of a Linear Flux Pump for the Frascati Coil Cold Test Facility*", IEEE Transactions on Applied Superconductivity, 2024. DOI: [10.1109/TASC.2024.3357052](https://doi.org/10.1109/TASC.2024.3357052)
- [3] T. Galvin, A. Lampasi, P. Zito, D. Coll, G. Kirby, "*Characterisation of SiC Varistors at ambient and elevated temperatures for protection of superconducting magnets*", IEEE Transactions on Applied Superconductivity, 2024. DOI: [10.1109/TASC.2024.3356478](https://doi.org/10.1109/TASC.2024.3356478)
- [4] G. Griva, S. Musumeci, F. Stella, R. J. Bojoi, A. Lampasi, P. Zito, S. Bifaretti, "*HIL Investigation of a Single-Phase Inverter for a Tokamak Non-Axisymmetric In-Vessel Coil Power Supply*", IEEE Transactions on Industry Applications, 2024. DOI: [10.1109/TIA.2024.3360026](https://doi.org/10.1109/TIA.2024.3360026)
- [5] F. Alladio, P. Micozzi, L. Boncagni, A. Pau, S. Naghinajad, S. Macera, Y. Damizia, P. Buratti, F. Filippi, G. Galatola Teka, F. Giammanco, E. Giovannozzi, M. Iafrati, A. Lampasi, P. Marsili, "*PROTO-SPHERA: a magnetic confinement experiment which emulates the jet + torus astrophysical plasmas*", Plasma Physics and Controlled Fusion, 2024. DOI: [10.1088/1361-6587/ad20f6](https://doi.org/10.1088/1361-6587/ad20f6)
- [6] P. Micozzi, F. Alladio, A. Mancuso, V. Zanza, G. Apruzzese, F. Bombarda, L. Boncagni, P. Buratti, F. Filippi, G. Galatola Teka, F. Giammanco, E. Giovannozzi, A. Grosso, M. Iafrati, A. Lampasi, V. Lazic, S. Magagnino, S. Mannori, P. Marsili, V. Piergotti, G. Rocchi, A. Sibio, B. Tilia, O. Tudisco, "*Final results of the first phase of the PROTO-SPHERA experiment: obtainment of the full current stable Screw Pinch and first evidences of the jet + torus combined plasma configuration*", Plasma Science and Technology, 2024. DOI: [10.1088/2058-6272/ad0d4a](https://doi.org/10.1088/2058-6272/ad0d4a)
- [7] R. Ambrosino, R. Albanese, E. Acampora, A. Castaldo, F. Crisanti, R. Iervolino, A. Lampasi, "*Conceptual design of the DTT in-vessel equatorial coils*", Fusion Engineering and Design, Volume 194, September 2023, 113714. DOI: [10.1016/j.fusengdes.2023.113714](https://doi.org/10.1016/j.fusengdes.2023.113714)
- [8] P. Zito, M. Manganelli, A. Lampasi, S. Pipolo, R. Lopes, "*Final design of the DTT toroidal power supply circuit*", Fusion Engineering and Design, Volume 192, July 2023, 113595. DOI: [10.1016/j.fusengdes.2023.113595](https://doi.org/10.1016/j.fusengdes.2023.113595)
- [9] G. Griva, S. Musumeci, R. Bojoi, P. Zito, S. Bifaretti, A. Lampasi, "*Cascaded multilevel inverter for vertical stabilization and radial control power supplies*", Fusion Engineering and Design, Volume 189, April 2023, 113473. DOI: [10.1016/j.fusengdes.2023.113473](https://doi.org/10.1016/j.fusengdes.2023.113473)
- [10] R. Albanese, T. Bolzonella, A. G. Chiariello, A. Cucchiaro, A. Iaiunese, A. Lampasi, R. Martone, L. Piron, A. Pizzuto, P. Zumbolo, "*Error Field and Correction Coils in DTT: a preliminary analysis*", Fusion Engineering and Design, Volume 189, April 2023, 113437. DOI: [10.1016/j.fusengdes.2023.113437](https://doi.org/10.1016/j.fusengdes.2023.113437)
- [11] A. Lampasi, S. Pipolo, R. Albanese, R. Ambrosino, S. Bifaretti, R. Bojoi, V. Bonaiuto, A. Castaldo, M. Caldora, A. Cocchi, M. Di Pietrantonio, G. Griva, C. Lopes, M. Manganelli, S. Minucci, S. Musumeci, R. Romano, C. Terlizzi, A. Trotta, P. Zito, "*Overview of the Divertor Tokamak Test (DTT) coil power supplies*", Fusion Engineering and Design, Volume 188, March 2023, 113442. DOI: [10.1016/j.fusengdes.2023.113442](https://doi.org/10.1016/j.fusengdes.2023.113442)
- [12] A. Lampasi, "*Benefits of high-energy varistors in breakdown and fast discharge units*", Fusion Engineering and Design, Volume 187, Feb. 2023, 113366. DOI: [10.1016/j.fusengdes.2022.113366](https://doi.org/10.1016/j.fusengdes.2022.113366)

- [13] G. Messina, C. R. Lopes, P. Zito, A. Di Zenobio C. Fiamozzi Zignani, A. Lampasi, L. Morici, G. Ramogida, G. Tomassetti, G. Ala, G. Zizzo "Transient Electrical Behaviour of the TF Superconducting Coils of Divertor Tokamak Test Facility During a Fast Discharge", IEEE Transactions on Applied Superconductivity, vol. 32, no. 7, pp. 1-10, Oct. 2022, Art no. 4901610. DOI: [10.1109/TASC.2022.3179873](https://doi.org/10.1109/TASC.2022.3179873)
- [14] E. Gaio, A. Ferro, A. Lampasi, A. Maistrello, M. Dan, M.C. Falvo, F. Gasparini, F. Lunardon, A. Magnanimo, M. Manganelli, S. Minucci, S. Panella, M. Proietti Cosimi, D. Ratti, L. Barucca, S. Ciattaglia, T. Franke, G. Federici, R. Piovan, "Status and challenges for the concept design development of the EU DEMO Plant Electrical System", Fusion Engineering and Design, Volume 177, April 2022, 113052. DOI: [10.1016/j.fusengdes.2022.113052](https://doi.org/10.1016/j.fusengdes.2022.113052)
- [15] Y. Kamada, et al., "Completion of JT-60SA construction and contribution to ITER", Nuclear Fusion, 62 (4), April 2022, 113052. DOI: [10.1088/1741-4326/ac10e7](https://doi.org/10.1088/1741-4326/ac10e7)
- [16] C. R. Lopes, P. Zito, C. Fiamozzi Zignani, G. Messina, L. Morici, G. Tomassetti, A. Lampasi, G. Ala, G. Zizzo "Design optimization for the quench protection of DTT's superconducting toroidal field magnets", Fusion Engineering and Design, Volume 172, November 2021, 112748. DOI: [10.1016/j.fusengdes.2021.112748](https://doi.org/10.1016/j.fusengdes.2021.112748)
- [17] A. Cocchi, G. De Marzi, A. Lampasi, R. Romano, "Electrothermal design of DC busbars for fusion facilities", Fusion Engineering and Design, Volume 170, September 2021, 112662. DOI: [10.1016/j.fusengdes.2021.112662](https://doi.org/10.1016/j.fusengdes.2021.112662)
- [18] M. Melchiorre, R. Esposito, M. Di Serio, G. Abbate, A. Lampasi, A. Balducci, F. Ruffo, "Lactic Acid-Based Solvents for Sustainable EDLC Electrolytes", Energies 2021, 14, 4250. DOI: [10.3390/en14144250](https://doi.org/10.3390/en14144250)
- [19] M. Caldora, M. C. Falvo, A. Lampasi, G. Marelli, "Preliminary design of the electrical power systems for DTT nuclear fusion plant", Applied Sciences, 2021, 11(12), 5446. DOI: [10.3390/app11125446](https://doi.org/10.3390/app11125446)
- [20] A. Morandi, A. Lampasi, A. Cocchi, F. Gherdovich, U. Melaccio, P. L. Ribani, C. Rossi, F. Soavi, "Characterization and model parameters of large commercial supercapacitor cells", IEEE Access, vol. 9, pp. 20376-20390, 2021. DOI: [10.1109/ACCESS.2021.3053626](https://doi.org/10.1109/ACCESS.2021.3053626)
- [21] S. Ciattaglia, M. C. Falvo, A. Lampasi, M. Proietti Cosimi, "Energy Analysis for the Connection of the Nuclear Reactor DEMO to the European Electrical Grid", Energies 2020, 13, 2157. DOI: [10.3390/en13092157](https://doi.org/10.3390/en13092157)
- [22] S. Minucci, S. Panella, S. Ciattaglia, M. C. Falvo, A. Lampasi, "Electrical Loads and Power Systems for the DEMO Nuclear Fusion Project", Energies 2020, 13, 2269. DOI: [10.3390/en13092269](https://doi.org/10.3390/en13092269)
- [23] F. Gherdovich, G. Taddia, S. M. Tenconi, M. Pretelli, A. Lampasi, F. Soavi, M. L. Di Vona, "Comparison and Modeling of Commercial Supercapacitors via Standardized Potentiostatic Electrochemical Impedance Spectroscopy", Lecture Notes in Electrical Engineering, vol. 604. Springer, Cham, 2020. DOI: [10.1007/978-3-030-37161-6_51](https://doi.org/10.1007/978-3-030-37161-6_51)
- [24] A. Lampasi, S. Tenconi, G. Taddia, F. Gherdovich, L. Rinaldi, "A new generation of power supplies for pulsed loads", Fusion Engineering and Design, Volume 146, Part B, September 2019, pp. 1921-1925. DOI: [10.1016/j.fusengdes.2019.03.066](https://doi.org/10.1016/j.fusengdes.2019.03.066)
- [25] A. Lampasi, A. De Santis, S. Minucci, F. Starace, P. Zito, "Conceptual design of the power supply systems for the Divertor Tokamak Test facility", Fusion Engineering and Design, Volume 146, Part A, September 2019, pp. 937-941. DOI: [10.1016/j.fusengdes.2019.01.118](https://doi.org/10.1016/j.fusengdes.2019.01.118)
- [26] S. Hatakeyama, K. Shimada, K. Yamauchi, M. Matsukawa, S. Moriyama, L. Novello, G. Frello, O. Baulaigue, E. Gaio, A. Maistrello, A. Ferro, A. Lampasi, P. Zito, "Development of Supervisory Control System for Magnet Power Supplies in JT-60SA", Fusion Engineering and Design, Volume 146, Part B, September 2019, pp. 1652-1656. DOI: [10.1016/j.fusengdes.2019.03.009](https://doi.org/10.1016/j.fusengdes.2019.03.009)
- [27] G. Mazzitelli, R. Albanese, F. Crisanti, P. Martin, A. Pizzuto, A. Tuccillo, R. Ambrosino, A. Appi, G. Di Gironimo, A. Di Zenobio, A. Frattolillo, G. Granucci, P. Innocente, A. Lampasi, R. Martone, G. M. Polli, G. Ramogida, P. Rossi, S. Sandri, M. Valisa, R. Villari, V. Vitale, "Role of Italian DTT in the power exhaust implementation strategy", Fusion Engineering and Design, Volume 146, Part A, September 2019, Pages 932-936.
- [28] R. Albanese, F. Crisanti, P. Martin, A. Pizzuto, G. Mazzitelli, A.A. Tuccillo, R. Ambrosino, A. Appi, G. Di Gironimo, A. Di Zenobio, A. Frattolillo, G. Granucci, P. Innocente, A. Lampasi, R. Martone, G.M. Polli,

- G. Ramogida, P. Rossi, S. Sandri, M. Valisa, R. Villari, V. Vitale, *"Design review for the Italian Divertor Tokamak Test facility"*, Fusion Engineering and Design, 2019.
- [29] F. Causa, et al., *"Analysis of runaway electron expulsion during tokamak instabilities detected by a single-channel Cherenkov probe in FTU"*, Nuclear Fusion, Volume 59, 046013, 2019.
- [30] G. Pucella, et al., *"Overview of the FTU results"*, Nuclear Fusion, Volume 59, Number 11, 2019.
- [31] A. Lampasi, G. Taddia, S. Tenconi, F. Gherdovich, *"Compact Power Supply with Integrated Energy Storage and Recovery Capabilities for Arbitrary Currents up to 2 kA"*, IEEE Transactions on Plasma Science, vol. 46, no. 10, pp. 3393-3400, Oct. 2018. DOI: [10.1109/TPS.2018.2859178](https://doi.org/10.1109/TPS.2018.2859178)
- [32] P. Zito, A. Lampasi, L. Novello, M. Matsukawa, K. Shimada, S. Hatakeyama, M. Portesine, A. Dorronsoro, D. Vian, K. Celaya, *"Type Tests of JT-60SA Central Solenoid/Equilibrium Field (CS/EF) Super-Conducting Magnet Power Supplies"*, IEEE Transactions on Plasma Science, vol. 46, no. 5, pp. 1489-1496, May 2018. DOI: [10.1109/TPS.2018.2805104](https://doi.org/10.1109/TPS.2018.2805104)
- [33] M. Riva, B. Esposito, D. Marocco, M. Cecconello, J. Kotula, F. Moro, F. Belli, D. Bocian, P. Carvalho, C. Centioli, T. Cieslik, S. Conroy, N. Cruz, M. Curylo, A. Fernandes, L. Di Pace, A. Hjalmarsson, R. Kantor, A. Lampasi, G. Mazzone, F. Pompili, R. C. Pereira, S. Podda, F. Pollastrone, B. Santos, A. Zimbal, B. Brichard, *"High priority prototype testing in support of System Level Design development of the ITER Radial Neutron Camera"*, IEEE Transactions on Plasma Science, vol. 46, no. 5, pp. 1291-1297, May 2018.
- [34] A. Lampasi, F. Burini, G. Taddia, S. Tenconi, M. Matsukawa, K. Shimada, L. Novello, A. Jokinen, P. Zito, *"Installation, Commissioning and Tests of Four Fast Switching Units of up to 20 kA for the JT-60SA Nuclear Fusion Experiment"*, Energies 2018, 11(4), 996. DOI: [10.3390/en11040996](https://doi.org/10.3390/en11040996)
- [35] N. Aiba, et al., *"Analysis of ELM stability with extended MHD models in JET, JT-60U and future JT-60SA tokamak plasmas"*, 2018 Plasma Phys. Control. Fusion 60 014032. DOI: [10.1088/1361-6587/aa8bec](https://doi.org/10.1088/1361-6587/aa8bec)
- [36] A. Lampasi, P. Zito, F. Starace, P. Costa, G. Maffia, S. Minucci, E. Gaio, V. Toigo, L. Zanotto, S. Ciattaglia, *"The DTT device: power supplies and electrical distribution system"*, Fusion Engineering and Design, Volume 122, November 2017, Pages 356-364. DOI: [10.1016/j.fusengdes.2017.01.036](https://doi.org/10.1016/j.fusengdes.2017.01.036)
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Selected Invited Talks

- [245] *"Il progetto italiano Divertor Tokamak Test facility (DTT) nell'ambito della Roadmap Europea per la Fusione Nucleare"*, Seminario "Nucleare: Presente e Futuro", Palermo, 15 dicembre 2022.
- [246] *"Tecnologie innovative per l'accumulo di energia elettrica integrato tramite supercondensatori"*, Convegno Annuale Ordine dei Chimici e dei Fisici "Ambiente in Scienza e Coscienza", Roma, 7 ottobre 2022.
- [247] *"Tecnologie innovative per l'immagazzinamento di energia elettrica mediante supercondensatori"*, Seminario "Processi e metodi innovativi per sistemi energetici sostenibili", Ordine degli Ingegneri della Provincia di Napoli, 30 settembre 2022.
- [248] *"Coil power supplies in DTT"*, Industrial Opportunity Days 2022, Naples, Italy, 9 June 2022.
- [249] *"Tecnologie innovative per l'immagazzinamento di energia elettrica mediante supercondensatori"*, Seminario "Processi e metodi innovativi per sistemi energetici sostenibili", Ordine degli Ingegneri della Provincia di Roma, 23 maggio 2022.
- [250] *"Simulations for the design of supercapacitor-based energy storage in large scientific facilities"*, 2020 Powersys Conference "Simulation Solutions for Electrification", 8 October 2020 and 22 June 2021.
- [251] *"DTT power supplies and process: Short-time requirements"*, VSC Technology for Fusion High Current Power Supply, Online, 23 March 2021.
- [252] *"Power supplies in DTT"*, ILO Industrial Opportunities Days, Naples, Italy, 7 June 2019.
- [253] *"Power Supply System for DTT"*, DTT Industry Day, Monte Porzio Catone, Italy, 14 December 2018.
- [254] *"Power electronics simulations from nuclear fusion research to industry applications"*, Powersys User Group 2016, Aix-en-Provence, France, 9-10 May 2016.
- [255] *"Supercapacitors and Energy Storage for Dummies"*, Workshop Supercapacitors and Energy Storage, ENEA, Frascati, Italy, 13 May 2016.
- [256] *"Realizzazione degli Switching Network Unit per la generazione del plasma"*, Attività di Fisica della Fusione complementari a ITER, ENEA Sede Legale, Rome, 19 July 2015.
- [257] *"Avanzamenti nell'ingegneria e costruzione della macchina Tokamak JT-60SA"*, ENEA, Frascati, 30 June 2014.
- [258] *"Progressi nell'ingegneria dei 4 Switching Network Unit (SNU) del Solenoide Centrale (CS) dell'esperimento internazionale JT-60SA"*, ENEA, Frascati, 12 December 2013.
- [259] *"Measurement of the performances of multifunctional glasses"* (Misura delle prestazioni di vetri multifunzionali), Italian National Institute for the Environment Protection and Research (ISPRA), Rome, 1 July 2009.
- [260] *"Can solar-control films be used as shields against electromagnetic fields?"*, SMX European Distributor Meeting, Bergamo, 29 May 2009.
- [261] *"Nanotechnology and electromagnetic shielding"* (Nanotecnologie e schermatura elettromagnetica), Sun-Gard Seminar on Building, Bergamo, 12 December 2008.
- [262] *"Technical course in measurement and virtual instrumentation"*, Oerlikon Contraves, Rome, January-February 2007.
- [263] *"Binary sequences for the generation of high spectral purity signals"* (Sequenze binarie per la generazione di segnali ad elevata purezza spettrale), XXII Electrical and Electronic Measurement Group (GMEE) National Congress, Palermo, 6 September 2005.
- [264] *"Measurement Uncertainty in Virtual Instrumentation"* (Incertezza nella misura con la Strumentazione Virtuale), NIDays 2004-2005 Worldwide Virtual Instrumentation Conference, Rome, 22 February 2005.