

Curriculum Vitae of Research and Teaching Activities
(prepared pursuant to Articles 46 and 47 of Presidential Decree No. 445 of 28
December 2000)

I, the undersigned Tommaso Scimone, born in Messina on 6 June 1981, aware, pursuant to Article 76 of Presidential Decree No. 445/2000, that false declarations and the creation or use of false documents are punishable under the Criminal Code and the applicable special laws,

HEREBY DECLARE

that I have carried out the following activities during my career:

1. EDUCATION AND QUALIFICATIONS

- **ASN 2021/2023 – Italian National Scientific Qualification as Associate Professor in competition sector 09/E2 – ELECTRICAL ENERGY ENGINEERING. Valid from 9 June 2023 to 9 June 2034;**
- **PhD in Energy Engineering, 23rd cycle, Scuola Superiore di Catania.**
Thesis: “Energy Storage in Electric Power Generation Plants from Renewable Sources”.
Awarded on: 15 March 2011
- **Second-level University Master’s Degree in “Hydrogen Production Systems and Fuel-Cell Vehicles”, University of Messina and CNR-ITAE.**
- **Degree in Electronic Engineering under the former Italian university system (Laurea, Vecchio Ordinamento), University of Messina.**
Thesis: “Micromagnetic Modelling of Spintronic Nano-Oscillators Based on Materials with Perpendicular Anisotropy”.
Final grade: 109/110
Awarded on: 10 May 2007
- **ECDL Advanced certification in Word and Excel**
- **Registered with the Order of Engineers of Messina since 2007**

2. RESEARCH ASSIGNMENTS

- **Full-time fixed-term researcher (RTDA), pursuant to Article 24, paragraph 3(a), Law No. 240/2010, University of Catania, competition sector 09/E2, academic discipline ING-IND/32, from 1 January 2022 to 31 December 2024. Contract renewed from 1 December 2025 to 31 December 2026;**
- **Research fellowship at University of Messina – Department of Engineering, period 15 April 2018 - April 2019, research programme entitled "Advanced Converters for Charging Electric Vehicle Batteries" within the European project "ECSEL WINSIC4AP" (funded under H2020-EU.2.1.1.7 Project ID 737483). Supervisor: Professor Salvatore De Caro.**
- **Research scholarship at University of Messina – Department of Engineering, period 15 March 2018 -14 April 2018, research programme entitled “Low-Frequency Devices for**

Energy Harvesting Applications" within the project Italy–China Project of Major Significance 2016-2018 (code CN16GR09) entitled "Nanoscale broadband spin-transfer-torque microwave detector". Supervisor: Professor Salvatore De Caro.

- **Research scholarship at University of Messina – Department of Engineering, period November 2017 - February 2018, research programme entitled “Power Conversion Systems for Energy Harvesting” within the project Italy–China Project of Major Significance 2016-2018 (code CN16GR09) entitled "Nanoscale broadband spin-transfer-torque microwave detector". Supervisor: Professor Salvatore De Caro.**
- **Research scholarship at University of Messina – Department of Engineering, period August 2017 – September 2017, research programme entitled “Low-Power Converters for Energy Harvesting” " within the project Italy–China Project of Major Significance 2016-2018 (code CN16GR09) entitled "Nanoscale broadband spin-transfer-torque microwave detector". Supervisor: Professor Antonio Testa.**
- **Research scholarship at University of Messina – Department of Engineering, period June 2017 – July 2017, research programme entitled “Energy Harvesting Techniques for Sensors” within the project Italy–China Project of Major Significance 2016-2018 (code CN16GR09) entitled "Nanoscale broadband spin-transfer-torque microwave detector". Supervisor: Professor Antonio Testa.**
- **Research scholarship at University of Messina – Department of Engineering, period 15 May 2016- 14 May 2017, research programme entitled “Energy Harvesting Techniques for Mobile Devices” within the project Italy–China Project of Major Significance 2016-2018 (code CN16GR09) entitled "Nanoscale broadband spin-transfer-torque microwave detector". Supervisor: Professor Salvatore De Caro.**
- **Research scholarship at University of Messina – Department of Engineering, period February 2016 - April 2017, research programme ” Investigation of Power Converters for Industrial Applications” within the project ” Innovative Power Converters”. Supervisor: Professor Antonio Testa.**
- **Research scholarship at University of Messina - Department of Industrial Chemistry and Materials Engineering, period November 2015 – December 2015 research programme entitled “Investigation of Power Converters for Marine Applications”, within the research project “TESEO” -CUP B61C12000850005. Supervisor: Professor Antonio Testa.**
- **Research scholarship at University of Messina - Department of Industrial Chemistry and Materials Engineering, period July 2015 – October 2015 research programme entitled “Investigation of Power Converters for Marine Applications”, within the research project “TESEO” -CUP B61C12000850005. Supervisor: Professor Antonio Testa.**
- **Research scholarship at University of Messina - Department of Industrial Chemistry and Materials Engineering, period February 2015 – June 2015 research programme entitled “Investigation of Power Converters for Marine Applications”, within the research project “TESEO” -CUP B61C12000850005. Supervisor: Professor Antonio Testa.**
- **Research scholarship at University of Messina - Department of Industrial Chemistry and Materials Engineering, period December 2014 – January 2015, research programme entitled “Investigation of Power Converters for Marine Applications”, within the research project PON02_00153_2939551 “SEAPORT” CUP B61C12000900005. Supervisor: Professor Salvatore De Caro.**

- **Research fellowship at University of Messina - Department of Industrial Chemistry and Materials Engineering, period December 2010 – November 2014, research project entitled “Converters for Renewable Energy and Fuel-Cell Generation Systems”. Supervisor: Professor Antonio Testa.**

3. TEACHING ACTIVITIES

- **Academic year 2025/2026, ongoing – Course lecturer**
Industrial Electrical Devices (6 ECTS credits) Bachelor’s programme in Industrial Engineering (Management Engineering track), University of Catania
- **Academic year 2024/2025 – Course lecturer**
Industrial Electrical Devices (6 ECTS credits) Bachelor’s programme in Industrial Engineering (Management Engineering track), University of Catania
Renewable generation and energy conversion (3 ECTS credits) Master’s programme in Electrical Engineering for Sustainable Green Energy Transition.
- **Academic year 2023/2024 – Course lecturer**
Industrial Electrical Devices (6 ECTS credits) Bachelor’s programme in Industrial Engineering (Management Engineering track), University of Catania
- **Academic year 2022/2023 – Course lecturer**
Modelling and Control of Electromechanical Systems (6 ECTS credits, co-teaching), degree programme in Engineering and Control of Complex Systems.
- **Academic year 2018/2019 – Teaching support for the following courses:**
Electromechanical Systems (12 ECTS credits- “Electrical Machines and Drives” and “Industrial Power Electronics” modules) Bachelor’s programme in Electronic and Computer Engineering, University of Messina.
Power Electronics (6 ECTS credits) Bachelor’s programme in Electronic and Computer Engineering, University of Messina.
Renewable Energy Generation (6 ECTS credits) Master’s programme in Mechanical Engineering, University of Messina.
- **Academic year 2017/2018 – Teaching support for the following courses:**
Electromechanical Systems (12 ECTS credits- “Electrical Machines and Drives” and “Industrial Power Electronics” modules) Bachelor’s programme in Electronic and Computer Engineering, University of Messina.
Power Electronics (6 ECTS credits) Bachelor’s programme in Electronic and Computer Engineering, University of Messina.
- **Academic year 2017/2018 – Teaching support**
Electromechanical Systems (12 ECTS credits- “Electrical Machines and Drives” and “Industrial Power Electronics” modules) Bachelor’s programme in Electronic and Computer Engineering, University of Messina.
Power Electronics (6 ECTS credits) Bachelor’s programme in Electronic and Computer Engineering, University of Messina.
- **Appointed subject expert (cultore della materia) for courses in academic discipline ING-IND/32 since 2 August 2016**

- Teaching on the advanced training course “Innovative Energy Technologies Applied to the Marine Sector – TESEO”, PON02_00153_2939517_F TESEO, CUP B68J12000300007: “Power Electronics” module – L3.2 and “Electrical Energy Storage” module – L3.3.

Co-supervisor of theses for the Bachelor’s degree in Electronic and Computer Engineering and Industrial Engineering and the Master’s degree in Electronic Engineering at the University of Messina, and for the Master’s degree in Electrical Engineering for Sustainable Green Energy Transition at the University of Catania.

4. SCIENTIFIC COLLABORATIONS AND RESEARCH PROJECTS

- From 2008 to 2019, collaboration with the Power Converters, Electrical Machines and Drives research group of the Department of Electrical, Electronic and Computer Engineering (DIEEI), University of Catania, coordinated by Professors Giuseppe Scarcella, Mario Cacciato and Giacomo Scelba. Activities involved the study and design of converters for renewable energy generation, reliability analysis of power electronic devices, and switching converters for automotive applications. Responsibilities included the design and construction of DC/AC and DC/DC power converters, development of control strategies, and experimental validation of prototypes. The collaboration resulted in numerous scientific publications indexed in SCOPUS or Web of Science, including:
 - Foti, Salvatore, Testa, Antonio, Scelba, Giacomo, De Caro, Salvatore, Cacciato, Mario, Scarcella, Giuseppe, Scimone, Tommaso (2018). An Open-End Winding Motor Approach to Mitigate the Phase Voltage Distortion on Multilevel Inverters. IEEE TRANSACTIONS ON POWER ELECTRONICS, vol. 33, p. 2404-2416, ISSN: 0885-8993, doi: 10.1109/TPEL.2017.2695244
 - Foti, Salvatore, De Caro, Salvatore, Scelba, Giacomo, Scimone, Tommaso, Testa, Antonio, Cacciato, Mario, Scarcella, Giuseppe (2018). An Optimal Current Control Strategy for Asymmetrical Hybrid Multilevel Inverters. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 54, p. 4425-4436, ISSN: 0093-9994, doi: 10.1109/TIA.2018.2832024
 - G. Scelba, G. Scarcella, M. Pulvirenti, M. Cacciato, TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso (2014). Current sharing strategies for fault tolerant AC multi-drives. In: 2014 IEEE Energy Conversion Congress and Exposition (ECCE). p. 3802-3810, New York: Institute of Electrical and Electronic Engineers (IEEE), ISBN: 9781479957767, Pittsburgh (USA), 14-18 September, doi: 10.1109/ECCE.2014.6953918
- Since 2022, collaboration with the Power Converters and Electrical Drives Laboratory, led by Professor Antonio Testa and Professor Salvatore De Caro, at the Department of Engineering, University of Messina, conducting research in power electronics, electrical drives and electrical machines. Activities focus on the study and implementation of innovative multilevel converters. The collaboration has resulted in the following scientific publications indexed in SCOPUS:
 - S. Foti, T. Scimone, O. Giordano, S. D. Caro and A. Testa, "A Resonant hybrid multilevel inverter," 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Sorrento, Italy, 2022, pp. 377-382, doi: 10.1109/SPEEDAM53979.2022.9842029.
 - S. Foti, T. Scimone, A. Oteri, G. Scelba and A. Testa, "A Reduced Switch Count, Self-Balanced, 13-Level Inverter Based on a Dual T-Type Configuration," in IEEE Transactions on Power Electronics, vol. 38, no. 9, pp. 11010-11022, Sept. 2023, doi: 10.1109/TPEL.2023.3281679.
 - S. Foti, S. De Caro, A. Oteri, T. Scimone and A. Testa, "Single-phase Resonant DC Link Inverter with integrated isolation for PV generators," 2023 International Conference on Clean Electrical Power (ICCEP), Terrasini, Italy, 2023, pp. 721-728, doi: 10.1109/ICCEP57914.2023.10247373.

- o S. Foti, T. Scimone, M. Cacciato, A. Testa, H. H. Khan and S. De Caro, "A Reduced Switch Count, Self-Balanced, N-Level Inverter Based on a Dual T-Type Configuration," 2024 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Napoli, Italy, 2024, pp. 924-929, doi: 10.1109/SPEEDAM61530.2024.10609049.
- o L. D. Tornello, T. Scimone, G. Scarcella, G. Scelba, S. Foti and A. Testa, "Unbalanced Current Control in Electric Drives for Thermal Management of Inverter Power Devices," 2024 IEEE Energy Conversion Congress and Exposition (ECCE), Phoenix, AZ, USA, 2024, pp. 6301-6307, doi: 10.1109/ECCE55643.2024.10861812.
- From 2013 to 2019, collaboration with STMicroelectronics research groups coordinated by engineers Sebastiano Russo and Romeo Letor. Research concerned the reliability of power electronic devices, power converters, and the development of sensorless positioning systems for electromechanical actuators in automotive applications. Responsibilities included analysis of thermographic data from power devices, development of the associated reliability model, and development and experimental validation of innovative modulation techniques to reduce overvoltages in electrical machines driven by systems using SiC devices. The collaboration resulted in the following scientific publications indexed in SCOPUS or Web of Science:
 - o De Caro S., Foti S., Scimone T., Testa A., Scelba G., Pulvirenti M., Russo S. (2019). Motor overvoltage mitigation on SiC MOSFET drives exploiting an open-end winding configuration. IEEE TRANSACTIONS ON POWER ELECTRONICS, vol. 34, p. 11128-11138, ISSN: 0885-8993, doi: 10.1109/TPEL.2019.2902254.
 - o De Caro, S., Foti, S., Scimone, T., Testa, A., Scelba, G., Pulvirenti, M., Russo, S. (2017). Over-voltage mitigation on SiC based motor drives through an open end winding configuration. In: 2017 IEEE Energy Conversion Congress and Exposition, ECCE 2017. vol. 2017-, p. 4332-4337, NEW YORK: Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509029983, USA, 2017, doi: 10.1109/ECCE.2017.8096746.
 - o Russo, Sebastiano, TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso, PANARELLO, SAVERIO, PATANE', Salvatore, Scelba, Giacomo, Scarcella, Giuseppe (2016). Reliability Assessment of Power MOSFETs Working in Avalanche Mode Based on a Thermal Strain Direct Measurement Approach. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 52, p. 1688-1697, ISSN: 0093-9994, doi: 10.1109/TIA.2015.2500890.
 - o S. Russo, TESTA, Antonio, DE CARO, SALVATORE, PANARELLO, SAVERIO, PATANE', Salvatore, SCIMONE, Tommaso, G. Scelba, G. Scarcella (2014). Reliability Assessment of Power MOSFETs Working in Avalanche Mode Based on a Thermal Strain Direct Measurement Approach. In: ENERGY CONVERSION CONGRESS & EXPOSITION (ECCE). p. 5487-5494, New York: Institute of Electrical and Electronic Engineers (IEEE), ISBN: 9781479957767, Pittsburgh (USA), 14-18 September, doi: 10.1109/ECCE.2014.6954153.
 - o CANNATA', GIANLUCA, DE CARO, SALVATORE, PANARELLO, SAVERIO, SCIMONE, Tommaso, TESTA, Antonio, S. Russo (2014). Reliability Assessment of Avalanche Mode Operating Power MOSFETs through Coffin Manson Law based Mathematical Models. In: 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 139-145, New York: IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781479947492, Ischia (Italy), 18-20 June 2014, doi: 10.1109/SPEEDAM.2014.6872071.
 - o TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso, Romeo Letor (2014). Pulse Counting Sensorless Detection of the Shaft Speed and Position of DC Motor Based Electromechanical Actuators. JOURNAL OF POWER ELECTRONICS, vol. 14, p. 957-966, ISSN: 1598-2092, doi: 10.6113/JPE.2014.14.5.957

- From 2016 to 2019, collaboration with the Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) on the study and design of power converters for pulsed electric field (PEF) generation. Responsibilities included the design, construction and experimental validation of a system for generating high-intensity electric fields. This collaboration resulted in the grant of an industrial invention patent.
- Since 2022, collaboration with the Enel X Hub & Lab group, coordinated by engineer Massimiliano De Benedetti, on the characterization, modelling and diagnostics of energy storage systems. The collaboration resulted in the following scientific publication indexed in SCOPUS:
 - Vasta, E.; Scimone, T.; Nobile, G.; Eberhardt, O.; Dugo, D.; De Benedetti, M.M.; Lanuzza, L.; Scarcella, G.; Patanè, L.; Arena, P.; et al. Models for Battery Health Assessment: A Comparative Evaluation. *Energies* 2023, 16, 632. <https://doi.org/10.3390/en16020632>.
- Since 2023, collaboration with the STMicroelectronics APMS P&D Applications Laboratory CAD and Modelling teams on the study and development of techniques to emulate Active Short Circuit conditions for testing power electronic devices in automotive applications. The collaboration has resulted in the following scientific publications indexed in SCOPUS or Web of Science:
 - T. Scimone et al., "Experimental Investigation of Parallel-Connected SiC Power Devices During Active Short Circuit Events," 2025 IEEE Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED), Dallas, TX, USA, 2025, pp. 1-6, doi: 10.1109/SDEMPED53223.2025.11154344.
 - T. Scimone, A. Lanzafame, L. D. Tornello, B. Amata, G. Scelba and M. Cacciato, "Active Short-Circuit Analysis of SiC Power Devices in Electric Traction Systems using a new Low-Cost Test Bench," 2023 IEEE Energy Conversion Congress and Exposition (ECCE), Nashville, TN, USA, 2023, pp. 5806-5812, doi: 10.1109/ECCE53617.2023.10362815.
- Participant in the MIUR PON02 project “Technologies for Energy and Energy Efficiency (ENERGETIC)”, PON02_00355_3391233. Funding allocated to the University of Messina unit: €983,100.00. The ENERGETIC project addresses photovoltaic system technologies and energy efficiency through a broad approach covering materials, devices and ICT.
- Participant in the MIUR-funded PON02 project “SEAPORT – Development of Innovative Technologies for the Energy and Environmental Sustainability of Shipyards and Port Areas”. Total project cost: €8,393,913.00; funding allocated to the University of Messina unit: €326,471.00; project code: PON02_00153_2939551; duration: 36 months (Decree No. 1139/2013, protocol No. 24277 of 26 April 2013). The SEAPORT project comprises several work objectives addressing different aspects of the energy and environmental upgrading of shipyards and port areas.
- Participant in the MIUR PON02 project “High-Efficiency Technologies for On-board Energy and Environmental Sustainability (TESEO)”, PON02_00153_2939517. Funding allocated to the University of Messina unit: €989,107.00; total funding: €15,088,936.00. TESEO aims both to integrate new energy technologies, representing the state of the art in high-efficiency and low-environmental-impact research, on board different types of vessels, including yachts, megayachts, sailing boats and fishing vessels, and to develop highly innovative energy technologies specifically for marine applications. The project results are intended to enable more effective on-board implementation in the medium and long term.
- Collaboration on the ITALY–CHINA bilateral scientific and technological cooperation project 2016–2018 (grant No. CN16GR09), “Nanoscale Broadband Spin-Transfer-Torque Microwave Detector”, funded by the Italian Ministry of Foreign Affairs and International Cooperation. The project involves three research units: the University of Messina, the Polytechnic University of Bari and the University of Perugia.

- Participant in the WInSiC4AP (Wide Band Gap Innovative SiC for Advanced Power) research project, funded by the European Union under the H2020-ECSEL-2016-1-RIA Joint Undertaking program (Project ID: 737483), the European public–private partnership for the development of next-generation microelectronic components and systems. Funding allocated to the University of Messina: €950,000.00. The project received total European funding of approximately €6.4 million and involves 24 partners from five countries, including research institutions and major industrial companies such as CNR, STMicroelectronics, Valeo and ENEL Distribuzione, as well as the University of Messina and the University of Catania.

5. CONFERENCE PARTICIPATION

- Participation in the European Conference on Power Electronics and Applications (EPE 2009) Barcelona (Spain) as presenter of the papers - A. Testa, S. De Caro, T. Scimone "High efficiency field oriented control of an induction generator for a tidal current turbine" - A. Testa, S. De Caro, T. Scimone "Analysis of a VRB energy storage system for a tidal turbine generator"
- Participation in the International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2010), Pisa(Italy) as presenter of the papers - A. Testa, S. De Caro, R. La Torre, T. Scimone "Optimal Design of Energy Storage Systems for Stand-Alone Hybrid Wind/PV Generators" - A. Testa, T. Scimone, S. De Caro "A Solar AC Module with active filter capabilities"
- Participation in the European Conference on Power Electronics and Applications (EPE 2011), Birmingham (UK) as presenter of the paper A. Testa, S. De Caro, T. Scimone "Optimal Structure Selection for Small-Size Hybrid Renewable Energy Plants"
- Participation in the 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2012), Sorrento, (Italy) as presenter of the papers - De Caro, S., Scimone, T., Testa, A., Yasin, A. "Optimal size selection for step-up transformers for wind generation plants" - Testa, A., De Caro, S., Scimone, T., Panarello, S. "A buck-boost based DC/AC converter for residential PV applications"
- Participation in the 22nd International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2014), Ischia (Italy) as presenter of the paper - De Caro, S., Scimone, T., Testa, A., Cacciato, M., Scarcella, G. "A NPC transformerless single phase inverter with inner voltage boosting capability"
- Participation in the 9th International Symposium on Sensorless Control for Electrical Drives (SLED 2018), Helsinki (Finland) as presenter of the paper - Foti, S., Testa, A., De Caro, S., Scimone, T., Scelba, G. Scarcella, G. "Rotor Time Constant Identification on Sensorless Induction Motor Drives by low Frequency Signal Injection"
- Participation as Session Chair at the Energy Conversion Congress and Exposition (ECCE 2022) for the session “Select Topics on EMI and Multilevel Topologies”.

6. PATENT

Industrial invention patent No. 102020000011284, entitled “APPARATUS AND METHOD FOR GENERATING HIGH-INTENSITY PULSED ELECTRIC FIELDS”, developed in collaboration with the Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA).

7. TRAINING SCHOOLS

Participation in the first edition of the IEEE Italy Section School on Future Energy Systems, organised by the IEEE Italy Section in collaboration with the Department of Industrial Engineering of the University of Trento (Italy) and the university associations CMAEL, GMEE and GUSEE.

8. PEER REVIEW ACTIVITIES

Reviewer for the following international journals:

- IEEE Transactions on Industry Applications;
- IEEE Transactions on Power Electronics;
- IEEE Transactions on Industrial Electronics,
- Electric Power Components and Systems,
- Energies open access journal;
- IEEE Journal of Emerging and Selected Topics in Power Electronics;
- Elsevier Applied Energy;

9. PUBLICATIONS

1. S. Foti, G. Ruggeri, T. Scimone, G. Baia, A. Testa and S. De Caro, "A Dual T-Type Self-Balanced Modular N-Level Inverter With Reduced Switch Count," in *IEEE Open Journal of Power Electronics*, vol. 7, pp. 1911-1928, 2026, doi: 10.1109/OJPEL.2026.3705086.
2. T. Scimone et al., "Experimental Investigation of Parallel-Connected SiC Power Devices During Active Short Circuit Events," 2025 IEEE Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED), Dallas, TX, USA, 2025, pp. 1-6, doi: 10.1109/SDEMPED53223.2025.11154344.
3. L. D. Tornello, T. Scimone, G. Scarcella, G. Scelba, S. Foti and A. Testa, "Unbalanced Current Control in Electric Drives for Thermal Management of Inverter Power Devices," 2024 IEEE Energy Conversion Congress and Exposition (ECCE), Phoenix, AZ, USA, 2024, pp. 6301-6307, doi: 10.1109/ECCE55643.2024.10861812.
4. S. Foti, T. Scimone, M. Cacciato, A. Testa, H. H. Khan and S. De Caro, "A Reduced Switch Count, Self-Balanced, N-Level Inverter Based on a Dual T-Type Configuration," 2024 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Napoli, Italy, 2024, pp. 924-929, doi: 10.1109/SPEEDAM61530.2024.10609049.
5. S. Foti, T. Scimone, A. Oteri, G. Scelba and A. Testa, "A Reduced Switch Count, Self-Balanced, 13-Level Inverter Based on a Dual T-Type Configuration," in *IEEE Transactions on Power Electronics*, vol. 38, no. 9, pp. 11010-11022, Sept. 2023, doi: 10.1109/TPEL.2023.3281679.
6. S. Foti, S. De Caro, A. Oteri, T. Scimone and A. Testa, "Single-phase Resonant DC Link Inverter with integrated isolation for PV generators," 2023 International Conference on Clean Electrical Power (ICCEP), Terrasini, Italy, 2023, pp. 721-728, doi: 10.1109/ICCEP57914.2023.10247373.
7. T. Scimone, A. Lanzafame, L. D. Tornello, B. Amata, G. Scelba and M. Cacciato, "Active Short-Circuit Analysis of SiC Power Devices in Electric Traction Systems using a new Low-Cost Test Bench," 2023 IEEE Energy Conversion Congress and Exposition (ECCE), Nashville, TN, USA, 2023, pp. 5806-5812, doi: 10.1109/ECCE53617.2023.10362815.

8. Vasta, E.; Scimone, T.; Nobile, G.; Eberhardt, O.; Dugo, D.; De Benedetti, M.M.; Lanuzza, L.; Scarcella, G.; Patanè, L.; Arena, P.; et al. Models for Battery Health Assessment: A Comparative Evaluation. *Energies* **2023**, *16*, 632. <https://doi.org/10.3390/en16020632>.
9. S. Foti et al., "Rotor Position Error Compensation in Sensorless Synchronous Reluctance Motor Drives," in *IEEE Transactions on Power Electronics*, vol. 37, no. 4, pp. 4442-4452, April 2022, doi: 10.1109/TPEL.2021.3122532.
10. S. Foti, T. Scimone and A. Testa, "An isolated resonant DC link inverter for single-phase PV generators," 13th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2022), Hybrid Conference, Valletta, Malta, 2022, pp. 490-495, doi: 10.1049/icp.2023.0041.
11. S. Foti, T. Scimone, O. Giordano, S. D. Caro and A. Testa, "A Resonant hybrid multilevel inverter," 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Sorrento, Italy, 2022, pp. 377-382, doi: 10.1109/SPEEDAM53979.2022.9842029.
12. S. Foti, A. Testa, S. D. Caro, T. Scimone, G. Scelba and G. Scarcella, "Hybrid Multilevel T-Type Inverter exploiting a Nearest Level Modulation Technique," 2021 IEEE Energy Conversion Congress and Exposition (ECCE), Vancouver, BC, Canada, 2021, pp. 2613-2620, doi: 10.1109/ECCE47101.2021.9596030.
13. Quattrocchi, Antonino, Montanini, Roberto, De Caro, Salvatore, Panarello, Saverio, Scimone, Tommaso, Foti, Salvatore, Testa, Antonio (2020). A New Approach for Impedance Tracking of Piezoelectric Vibration Energy Harvesters Based on a Zeta Converter. *SENSORS*, vol. 20, p. 5862-5873, ISSN: 1424-8220, doi: 10.3390/s20205862
14. Foti S., Testa A., De Caro S., Scimone T., Scelba G., Scarcella G. (2019). Multi-level open end windings multi-motor drives. *ENERGIES*, vol. 12, p. 1-19, ISSN: 1996-1073, doi: 10.3390/en12050861
15. De Caro S., Foti S., Scimone T., Testa A., Scelba G., Pulvirenti M., Russo S. (2019). Motor overvoltage mitigation on SiC MOSFET drives exploiting an open-end winding configuration. *IEEE TRANSACTIONS ON POWER ELECTRONICS*, vol. 34, p. 11128-11138, ISSN: 0885-8993, doi: 10.1109/TPEL.2019.2902254
16. Foti S., Testa A., De Caro S., Scimone T., Pulvirenti M. (2019). Rotor Flux Position Correction and Parameters Estimation on Sensorless Multiple Induction Motors Drives. *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, vol. 55, p. 3759-3769, ISSN: 0093-9994, doi: 10.1109/TIA.2019.2906862
17. De Caro S., Foti S., Scimone T., Testa A., Tornello L. D., Scelba G. (2019). A New Self-Commissioning Technique for Sensorless Synchronous Reluctance Motor Drives. In: 2019 IEEE 10th International Symposium on Sensorless Control for Electrical Drives, SLED 2019. p. 1-6, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0766-0, Italy, 2019, doi: 10.1109/SLED.2019.8896340
18. S. Foti, A. Testa, S. De Caro, T. Scimone, L. D. Tornello, G. Scarcella, G. Scelba (2019). A Novel Three-Phase Multilevel Inverter Topology with Reduced Device Count for Open-end Winding Motor Drives. In: 2019 IEEE Energy Conversion Congress and Exposition (ECCE). p. 3624-3630, Piscataway:Institute of Electrical and Electronics Engineers, ISBN: 978-1-7281-0395-2, Baltimore, MD, 29 Sept.-3 Oct. 2019, doi: 10.1109/ECCE.2019.8913140
19. S. Foti, A. Testa, T. Scimone, S. De Caro, L. D. Tornello, G. Scarcella, G. Scelba (2019). A novel Hybrid N-Level T-Type Inverter Topology. In: 2019 IEEE Energy Conversion Congress and Exposition (ECCE). p. 5507-5513, Piscataway:Institute of Electrical and Electronics Engineers, ISBN: 978-1-7281-0395-2, Baltimore, MD, 29 Sept.-3 Oct. 2019, doi: 10.1109/ECCE.2019.8913149

20. S. Foti, A. Testa, S. de Caro, T. Scimone, G. Scelba, L. D. Tornello (2019). A Fault Tolerant AC/DC Converter for Electrical Gen-Set Applications. In: 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe). p. 1-10, Piscataway:Institute of Electrical and Electronics Engineers, ISBN: 978-9-0758-1531-3, Genoa, Italy, 3-5 Sept. 2019
21. S. Foti, A. Testa, T. Scimone, S. de Caro, G. Scelba, L. D. Tornello (2019). An Integrated Battery Charger for EV applications based on an Open End Winding Multilevel Converter configuration. In: 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe). p. 1-8, Piscataway:Institute of Electrical and Electronics Engineers, ISBN: 978-9-0758-1531-3, Genoa, Italy, 3-5 Sept. 2019
22. De Caro S., Foti S., Scimone T., Testa A., Tornello L. D., Scelba G. (2019). A New Self-Commissioning Technique for Sensorless Synchronous Reluctance Motor Drives. In: 2019 IEEE 10th International Symposium on Sensorless Control for Electrical Drives, SLED 2019. p. 1-6, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0766-0, Italy, 2019, doi: 10.1109/SLED.2019.8896340
23. Foti, Salvatore, Testa, Antonio, Scelba, Giacomo, De Caro, Salvatore, Cacciato, Mario, Scarcella, Giuseppe, Scimone, Tommaso (2018). An Open-End Winding Motor Approach to Mitigate the Phase Voltage Distortion on Multilevel Inverters. IEEE TRANSACTIONS ON POWER ELECTRONICS, vol. 33, p. 2404-2416, ISSN: 0885-8993, doi: 10.1109/TPEL.2017.2695244
24. Scaffidi, Carlo, De Caro, Salvatore, Foti, Salvatore, Scimone, Tommaso, Testa, Antonio (2018). Electrically Assisted Internal Combustion Engines: A Comparative Analysis. INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, vol. 19, p. 1091-1101, ISSN: 1229-9138, doi: 10.1007/s12239-018-0107-z
25. Foti, Salvatore, De Caro, Salvatore, Scelba, Giacomo, Scimone, Tommaso, Testa, Antonio, Cacciato, Mario, Scarcella, Giuseppe (2018). An Optimal Current Control Strategy for Asymmetrical Hybrid Multilevel Inverters. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 54, p. 4425-4436, ISSN: 0093-9994, doi: 10.1109/TIA.2018.2832024
26. Testa, A, De Caro, S, Foti, S, Scimone, T, Scelba, G (2018). On-line Rotor Time Constant Estimation in IFOC Induction Motor Drives. In: Proceedings: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 944-949, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISBN: 978-153864941-1, Amalfi - Italy, 20 June 2018 - 22 June 2018
27. Foti, S., Testa, A., De Caro, S., Scimone, T., Scelba, G., Scarcella, G. (2018). Rotor Time Constant Identification on Sensorless Induction Motor Drives by low Frequency Signal Injection. In: 2018 IEEE 9th International Symposium on Sensorless Control for Electrical Drives, SLED 2018. p. 150-155, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538644553, Helsinki; Finland, 2018, doi: 10.1109/SLED.2018.8486082
28. Perna, S., TOMASELLO, Rosa, SCIMONE, Tommaso, D'Aquino, M., Serpico, C., Carpentieri, M., FINOCCHIO, Giovanni (2017). Influence of the Second-Order Uniaxial Anisotropy on the Dynamical Proprieties of Magnetic Tunnel Junctions. IEEE TRANSACTIONS ON MAGNETICS, vol. 53, p. 1-7, ISSN: 0018-9464, doi: 10.1109/TMAG.2016.2628521
29. DE CARO, SALVATORE, MONTANINI, Roberto, PANARELLO, SAVERIO, QUATTROCCHI, ANTONINO, SCIMONE, Tommaso, TESTA, Antonio (2017). A PZT-based Energy Harvester with Working Point Optimization. In: 6th International Conference on Clean Electrical Power Renewable Energy Resources Impact. p. 745-750, NEW YORK:IEEE, ISBN: 978-1-5090-4682-9, Santa Margherita Ligure (Italy), 27-29 June 2017, doi: 10.1109/ICCEP.2017.8004767
30. De Caro, S., Foti, S., Sceiba, G., Scimone, T., Testa, A. (2017). A six-level asymmetrical Hybrid Photovoltaic Inverter with inner MPPT capability. In: 2017 6th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2017. p. 631-635, NEW

YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509046829, Italy, 2017, doi: 10.1109/ICCEP.2017.8004755

31. De Caro, S., Foti, S., Scimone, T., Testa, A., Scelba, G., Pulvirenti, M., Russo, S. (2017). Over-voltage mitigation on SiC based motor drives through an open end winding configuration. In: 2017 IEEE Energy Conversion Congress and Exposition, ECCE 2017. vol. 2017-, p. 4332-4337, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509029983, USA, 2017, doi: 10.1109/ECCE.2017.8096746
32. Foti, S., Testa, A., De Caro, S., Scimone, T., Pulvirenti, M. (2017). Sensorless field oriented control of multiple-motors fed by multiple-converters systems. In: Conference Proceedings - 2017 8th International Symposium on Sensorless Control for Electrical Drives, SLED 2017. p. 237-242, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509065875, Italy, 2017, doi: 10.1109/SLED.2017.8078456
33. Russo, Sebastiano, TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso, PANARELLO, SAVERIO, PATANE', Salvatore, Scelba, Giacomo, Scarcella, Giuseppe (2016). Reliability Assessment of Power MOSFETs Working in Avalanche Mode Based on a Thermal Strain Direct Measurement Approach. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 52, p. 1688-1697, ISSN: 0093-9994, doi: 10.1109/TIA.2015.2500890
34. Scelba, G., Scarcella, G., FOTI, SALVATORE, TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso (2016). An open-end winding approach to the design of multi-level multi-motor drives. In: IECON Proceedings (Industrial Electronics Conference). p. 5026-5032, NEW YORK:IEEE Computer Society, ISBN: 9781509034741, Palazzo dei Congressi, Italy, 2016, doi: 10.1109/IECON.2016.7793869
35. De Caro, S., Giordano, O., Scimone, T., Testa, A., Cacciato, M. (2016). A dual boost-NPC inverter working in time sharing mode. In: 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2016. p. 962-967, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509020676, Italy, 2016, doi: 10.1109/SPEEDAM.2016.7525979
36. DE CARO, SALVATORE, FOTI, SALVATORE, SCIMONE, Tommaso, TESTA, Antonio, Cacciato, M., Scarcella, G., Scelba, G. (2016). THD and efficiency improvement in multi-level inverters through an open end winding configuration. In: Energy Conversion Congress and Exposition (ECCE). p. 1-7, NEW YORK:IEEE, ISBN: 978-1-5090-0737-0, Milwaukee, WI (USA), 18-22 Sept. 2016, doi: 10.1109/ECCE.2016.7855496
37. MONTANINI, Roberto, SCIMONE, Tommaso, DE CARO, SALVATORE, TESTA, Antonio (2015). Full-frame infrared thermal imaging of power electronics devices by means of multiple time-delayed measurements. QUANTITATIVE INFRARED THERMOGRAPHY JOURNAL, vol. 12, p. 149-161, ISSN: 1768-6733, doi: 10.1080/17686733.2015.1039292
38. Scelba, Giacomo, Scarcella, Giuseppe, Pulvirenti, Mario, Cacciato, Mario, TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso (2015). Current-Sharing Strategies for Fault-Tolerant AC Multidrives. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 51, p. 3943-3953, ISSN: 0093-9994, doi: 10.1109/TIA.2015.2439644
39. BONANNO, Gabriele, DE CARO, SALVATORE, SCIAMMETTA, ANGELA, SCIMONE, Tommaso, TESTA, Antonio (2015). An Analytic Approach to Pay-Back Time Assessment of Grid-Connected PV Plants with ESS. In: Second International Conference on Mathematics and Computers in Sciences and in Industry (MCSI). p. 1-6, NEW YORK:IEEE, ISBN: 978-1-4799-8673-6, Sliema, Malta, 17-19 August, doi: 10.1109/MCSI.2015.20
40. CAMPOBELLO, Giuseppe, DE CARO, SALVATORE, GIORDANO, ORAZIO, Russo, A., SEGRETO, ANTONINO, SERRANO, Salvatore, SCIMONE, Tommaso, TESTA, Antonio (2015). Efficiency assessment of MIC PV plants using Wireless Sensor Networks. In: 5th International Conference on Clean Electrical Power: Renewable Energy Resources Impact,

ICCEP 2015. p. 793-799, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781479987047, Italy, 2015, doi: 10.1109/ICCEP.2015.7177583

41. DE CARO, SALVATORE, SCAFFIDI, CARLO ALESSIO, SCIMONE, Tommaso, TESTA, Antonio (2015). Energy balance assessment on vehicles with electrically assisted internal combustion engines. In: 5th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2015. p. 786-792, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781479987047, Italy, 2015, doi: 10.1109/ICCEP.2015.7177582
42. TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso, Cacciato, M., Scelba, G. (2015). A NPC step-up inverter for thermo-electric generators. In: 5th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2015. p. 780-785, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781479987047, Italy, 16-18/06/2015, doi: 10.1109/ICCEP.2015.7177581
43. FOTI, SALVATORE, TESTA, Antonio, Scelba, G., DE CARO, SALVATORE, Cacciato, M., Scarcella, G., Bazzano, D., SCIMONE, Tommaso (2015). A new approach to improve the current harmonic content on open-end winding AC motors supplied by multi-level inverters. In: IEEE ENERGY CONVERSION CONGRESS AND EXPO. p. 4040-4047, Piscataway (NJ):IEEE, ISBN: 978-1-4673-7151-3, MONTREAL, CANADA, 20-24/09/2015, doi: 10.1109/ECCE.2015.7310230
44. FOTI, SALVATORE, TESTA, Antonio, Scelba, G., Cacciato, M., Scarcella, G., DE CARO, SALVATORE, SCIMONE, Tommaso (2015). Overvoltage mitigation in open-end winding AC motor drives. In: 2015 International Conference on Renewable Energy Research and Applications, ICRERA 2015. p. 238-245, NEW YORK:Institute of Electrical and Electronics Engineers Inc., ISBN: 9781479999828, Italy, 2015, doi: 10.1109/ICRERA.2015.7418702
45. TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso, Romeo Letor (2014). Pulse Counting Sensorless Detection of the Shaft Speed and Position of DC Motor Based Electromechanical Actuators. JOURNAL OF POWER ELECTRONICS, vol. 14, p. 957-966, ISSN: 1598-2092, doi: 10.6113/JPE.2014.14.5.957
46. DE CARO, SALVATORE, SCIMONE, Tommaso, TESTA, Antonio, M. Cacciato, G. Scarcella (2014). A NPC transformerless single phase inverter with inner voltage boosting capability. In: 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 653-658, New York:Institute of Electrical and Electronic Engineers (IEEE), ISBN: 9781479947492, Ischia (Italy), 18-20 June 2014, doi: 10.1109/SPEEDAM.2014.6872072
47. G. Scelba, G. Scarcella, M. Pulvirenti, M. Cacciato, TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso (2014). Current sharing strategies for fault tolerant AC multi-drives. In: 2014 IEEE Energy Conversion Congress and Exposition (ECCE). p. 3802-3810, New York:Institute of Electrical and Electronic Engineers (IEEE), ISBN: 9781479957767, Pittsburgh (USA), 14-18 September, doi: 10.1109/ECCE.2014.6953918
48. S. Russo, TESTA, Antonio, DE CARO, SALVATORE, PANARELLO, SAVERIO, PATANE', Salvatore, SCIMONE, Tommaso, G. Scelba, G. Scarcella (2014). Reliability Assessment of Power MOSFETs Working in Avalanche Mode Based on a Thermal Strain Direct Measurement Approach. In: ENERGY CONVERSION CONGRESS & EXPOSITION (ECCE). p. 5487-5494, New York:Institute of Electrical and Electronic Engineers (IEEE), ISBN: 9781479957767, Pittsburgh (USA), 14-18 September, doi: 10.1109/ECCE.2014.6954153
49. CANNATA', GIANLUCA, DE CARO, SALVATORE, PANARELLO, SAVERIO, SCIMONE, Tommaso, TESTA, Antonio, S. Russo (2014). Reliability Assessment of Avalanche Mode Operating Power MOSFETs through Coffin Manson Law based Mathematical Models. In: 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p.

- 139-145, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781479947492, Ischia (Italy), 18-20 June 2014, doi: 10.1109/SPEEDAM.2014.6872071
50. ANTONIO TESTA, SALVATORE DE CARO, TOMMASO SCIMONE (2013). Sizing of Step-Up Transformers for PV Plants through a Probabilistic Approach. WSEAS TRANSACTIONS ON POWER SYSTEMS, vol. 8, p. 114-123, ISSN: 1790-5060
 51. A. Yasin, SCIMONE, Tommaso, DE CARO, SALVATORE (2013). Efficiency analysis of stand alone Wind/Photovoltaic hybrid plant architectures. In: 2013 International Conference on Clean Electrical Power (ICCEP). p. 783-788, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781467344296, Alghero (Italy), 11-13 June 2013, doi: 10.1109/ICCEP.2013.6586948
 52. TESTA, Antonio, DE CARO, SALVATORE, R. La Torre, SCIMONE, Tommaso (2012). A probabilistic approach to size step-up transformers for grid connected PV plants. RENEWABLE ENERGY, vol. 48, p. 42-51, ISSN: 0960-1481, doi: 10.1016/j.renene.2012.04.012
 53. A. Testa, S. De Caro, T. Scimone, S. Panarello (2012). A Buck-Boost based DC/AC Converter for Residential PV Applications. In: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 114-119, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781467313001, Sorrento, Italy, June, 20-22, doi: 10.1109/SPEEDAM.2012.6264606
 54. S. De Caro, T. Scimone, A. Testa, A. Yasin (2012). Optimal Size Selection for Step-Up Transformers for Wind Generation Plants. In: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 571-576, NEW YORK :IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS , ISBN: 9781467313001, Sorrento, Italy, June, 20-22, doi: 10.1109/SPEEDAM.2012.6264605
 55. TESTA, Antonio, DE CARO, SALVATORE, SCIMONE, Tommaso (2011). Optimal Structure Selection for Small-Size Hybrid Renewable Energy Plants. In: Proceedings of the 2011-14th European Conference on Power Electronics and Applications (EPE 2011),. p. 1-10, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781612841670, Birmingham (UK), 30 august - 01 september
 56. A. Testa, S.De Caro, R. La Torre, T. Scimone (2010). Optimal Design of Energy Storage Systems for Stand-Alone Hybrid Wind/PV Generators. In: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 1291-1296, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781424449873, Pisa, Italy, June 14-16, 2010, doi: 10.1109/SPEEDAM.2010.5542078
 57. A. Testa, S. De Caro, R. La Torre, T. Scimone (2010). Optimal size selection of Step-Up Transformers for PV plants. In: ICEM 2010 - XIX International Conference on Electrical Machines. p. 1-6, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781424441754, Rome, Italy, September 6 - 8, 2010, doi: 10.1109/ICELMACH.2010.5607819
 58. A. Testa, S.De Caro, T. Scimone (2010). A Solar AC Module with active filter capabilities. In: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 616-621, New York:IEEE - Institute of Electrical and Electronics Engineers, ISBN: 9781424449873, Pisa, Italy, June 14-16, 2010, doi: 10.1109/SPEEDAM.2010.5542190.
 59. A. Testa, S. De Caro and T. Scimone, "Analysis of a VRB energy storage system for a tidal turbine generator," 2009 13th European Conference on Power Electronics and Applications, Barcelona, Spain, 2009, pp. 1-10.
 60. A. Testa, S. De Caro and T. Scimone, "High efficiency field oriented control of an induction generator for a tidal current turbine," 2009 13th European Conference on Power Electronics and Applications, Barcelona, Spain, 2009, pp. 1-10.

10. SCOPUS PROFILE (AS OF 30 SEPTEMBER 2026)

- *Publications: 60*
- *Citations: 714*
- *H-index 17*

11. GOOGLE SCHOLAR PROFILE (AS OF 30 SEPTEMBER 2026)

- *Publications: 66*
- *Citations: 840*
- *H-index 19*

I, the undersigned, declare that I have been informed, pursuant to Legislative Decree No. 196/2003, that the data provided above will be used for the procedure for which this declaration is submitted.

Messina, 30/09/2026

Tommaso Scimone, Engineer