



**Elenco dei titoli e delle pubblicazioni  
scientifiche**

**Settore Concorsuale:09/E2 - INGEGNERIA  
DELL'ENERGIA ELETTRICA**

**Prima Fascia**

**Alfonso DAMIANO**

**Posizione accademica**

<b>Settore Scientifico Disciplinare:</b>	ING-IND/32 - Convertitori, macchine e azionamenti elettrici
<b>Qualifica:</b>	Professore Ordinario
<b>Anzianità nel ruolo:</b>	17/09/2018
<b>Sede Universitaria:</b>	Università degli Studi di CAGLIARI
<b>Struttura di afferenza (dipartimento o altro):</b>	Ingegneria Elettrica ed Elettronica

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

<b>Periodo</b>	<b>Fascia</b>	<b>Ateneo</b>
18/01/1994	Ricercatore Universitario	Università degli Studi di CAGLIARI
15/01/2002	Professore II Fascia	Università degli Studi di CAGLIARI
17/09/2018	Professore I Fascia	Università degli Studi di CAGLIARI



## Pubblicazioni scientifiche

1	2020	<p>Articolo in rivista            Andrea Salimbeni, Mario Porru, Luca Massidda, Alfonso Damiano (2020). A Forecasting-Based Control Algorithm for Improving Energy Management in High Concentrator Photovoltaic Power Plant Integrated with Energy Storage Systems. ENERGIES, vol. 13, p. 1-20, ISSN: 1996-1073, doi: 10.3390/en13184697</p>
2	2020	<p>Articolo in rivista            Filippo Pellitteri, Nicola Campagna, Vincenzo Castiglia, Alfonso Damiano, Rosario Miceli (2020). Design, implementation and experimental results of an inductive power transfer system for electric bicycle wireless charging. IET RENEWABLE POWER GENERATION, vol. 14, p. 2908-2915, ISSN: 1752-1416, doi: 10.1049/iet-rpg.2020.0056</p>
3	2020	<p>Articolo in rivista            Porru M., Serpi A., Mureddu M., Damiano A. (2020). A multistage design procedure for planning and implementing public charging infrastructures for electric vehicles. SUSTAINABILITY, vol. 12, p. 1-17, ISSN: 2071-1050, doi: 10.3390/su12072889</p>
4	2020	<p>Contributo in Atti di convegno            Casu F, Korjani S, Pilloni V, Serpi A, Damiano A, Giusto D (2020). Designing Nearly Zero Energy Buildings: a Recommendation Tool for Optimal Sizing of Renewable Energy Source Systems. In: Proc. IEEE 2nd International Conference on Industrial Electronics for Sustainable Energy Systems (IESES 2020). p. 305-310, ISBN: 978-1-7281-4016-2, Cagliari (Italy), Sept. 1-3, 2020, doi: 10.1109/IESES45645.2020.9210701</p>
5	2020	<p>Contributo in Atti di convegno            Floris A, Porru M, Damiano A, Serpi A (2020). Design of a High-Speed Electric Propulsion System for Electric Vehicles. In: Proc. 5th AEIT International Conference of Electrical and Electronic Technologies for Automotive (AUTOMOTIVE 2020). ISBN: 978-8-8872-3749-8, Turin (Italy), Virtual Conf., Nov. 18-20, 2020, doi: 10.23919/AEITAUTOMOTIVE50086.2020.9307376</p>
6	2020	<p>Contributo in Atti di convegno            Floris A, Paderi M, Damiano A, Aymerich F, Serpi A (2020). Design criteria and methodology of a Multi-Rim Carbon-fibre Flywheel to be integrated within a Large-Airgap PMSM. In: Proc. 46th Annual Conference of the IEEE Industrial Electronics Society (IECON 2020). p. 913-919, ISBN: 978-1-7281-5413-8, Singapore, Virtual Conf., Oct. 18-21, 2020, doi: 10.1109/IECON43393.2020.9255025</p>
7	2020	<p>Contributo in Atti di convegno            A. Damiano, E. A. Scano, A. Varone (2020). Design and Economic Assessment of a RES-Based Microgrid for an Energy Community. In: Proc. of 2nd International Conference on Industrial Electronics for Sustainable Energy Systems (IESES 2020). IEEE, ISBN: 978-1-7281-4016-2, Cagliari, Italy, 1-3 Sept. 2020</p>



8	2020	Contributo in Atti di convegno Salimbeni A, Porru M, Damiano A, Serpi A (2020). A Smart Energy Management System of a Highly-Integrated Battery-Ultracapacitor System. In: Proc. IEEE 2nd International Conference on Industrial Electronics for Sustainable Energy Systems (IESES 2020). p. 27-32, ISBN: 978-1-7281-4016-2, Cagliari (Italy), Sept. 1-3, 2020, doi: 10.1109/IESES45645.2020.9210655
9	2020	Contributo in Atti di convegno Korjani S, Serpi A, Damiano A (2020). A Genetic Algorithm Approach for Sizing Integrated PV-BESS Systems for Prosumers. In: Proc. IEEE 2nd International Conference on Industrial Electronics for Sustainable Energy Systems (IESES 2020). p. 151-156, ISBN: 978-1-7281-4016-2, Cagliari (Italy), Sept. 1-3, 2020, doi: 10.1109/IESES45645.2020.9210700
10	2020	Contributo in Atti di convegno Floris A, Damiano A, Serpi A (2020). Design and Performance Assessment of an Integrated Flywheel Energy Storage Systems based on an Inner-Rotor Large-Airgap SPM. In: Proc. 24th International Conference on Electrical Machines (ICEM 2020). p. 633-639, ISBN: 978-1-7281-9944-3, Gothenburg (Sweden), Virtual Conf., Aug. 23-26, 2020, doi: 10.1109/ICEM49940.2020.9271069
11	2019	Articolo in rivista Alessandro Serpi, Mario Porru, Giuseppe Fois, Alfonso Damiano (2019). Design of flux-weakening space vector control algorithms for permanent magnet brushless DC machines on suitable synchronous reference frames. IET ELECTRICAL SYSTEMS IN TRANSPORTATION, vol. 9, p. 215-225, ISSN: 2042-9738, doi: 10.1049/iet-est.2018.5108
12	2019	Articolo in rivista Damiano A., Rieger C., Vyatkin V., Manic M. (2019). Guest Editorial: Resilience in Energy Industries-Recent Advances, Open Challenges, and Future Directions. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 15, p. 4315-4318, ISSN: 1551-3203, doi: 10.1109/TII.2019.2918383
13	2019	Articolo in rivista Mauro Boi, Daniele Battaglia, Andrea Salimbeni, Alfonso Damiano (2019). A Novel Electrical Model for Iron Doped Sodium Metal Halide Batteries. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 55, p. 6247-6255, ISSN: 0093-9994, doi: 10.1109/TIA.2019.2938479
14	2019	Contributo in Atti di convegno Serpi A, Fois G, Porru M, Damiano A (2019). Flux-Weakening Space Vector Control Algorithm for Permanent Magnet Brushless DC Machines. In: 2018 IEEE Vehicle Power and Propulsion Conference, VPPC 2018 - Proceedings. ISBN: 978-1-5386-6203-8, Chicago, USA, Aug. 27-30, 2018, doi: 10.1109/VPPC.2018.8604971
15	2019	Contributo in Atti di convegno Filippo Pellitteri, Nicola Campagna, Vincenzo Castiglia, Alfonso Damiano, Rosario Miceli (2019). Design, implementation and experimental results of a wireless charger for E-bikes. In: Proc. of 7th International Conference on Clean Electric Power (ICCEP 2019). p. 387-392, ISBN: 978-1-7281-1356-2, Otranto (Italy), 2-4 July 2019



16	2019	Contributo in Atti di convegno Mauro Boi, Daniele Battaglia, Andrea Salimbeni, Alfonso Damiano (2019). Energy storage systems based on sodium metal halides batteries. In: Proc. of IEEE Energy Conversion Congress & Expo (ECCE 2019). p. 2452-2459, IEEE, ISBN: 978-1-7281-0394-5, Baltimore (USA), 29 Sept.-03 Oct. 2019, doi: 10.1109/ECCE.2019.8913257
17	2019	Contributo in Atti di convegno Andrea Floris, Alessandro Serpi, Alfonso Damiano, Ingo Hahn (2019). Torque Harmonics Minimization of Double-Stage Magnetic Gear Transmission System. In: Proc. 45th Annual Conference of the IEEE Industrial Electronics Society (IECON 2019). p. 2751-2757, ISBN: 978-1-7281-4878-6, Lisbon (Portugal), Oct. 14-17, 2019, doi: 10.1109/IECON.2019.8926636
18	2019	Contributo in Atti di convegno A. Facchini, KORJANI, SAMAN, A. Damiano (2019). A multi-microgrid aging cost optimisation of battery storage systems in presence of fluctuating renewable energy sources. In: Proc. of IEEE 28th International Symposium on Industrial Electronics (ISIE 2019). p. 2433-2439, IEEE, ISBN: 978-1-7281-3666-0, Vancouver, BC, Canada, 12-14 June 2019, doi: 10.1109/ISIE.2019.8781333
19	2018	Articolo in rivista Porru, M, Serpi, A, Marongiu, I, Damiano, A. (2018). Suppression of DC-link voltage unbalance in three-level neutral-point clamped converters. JOURNAL OF THE FRANKLIN INSTITUTE, vol. 355, p. 728-752, ISSN: 0016-0032, doi: 10.1016/j.jfranklin.2017.11.039
20	2018	Articolo in rivista Saman Korjani, Angelo Facchini, Mario Mureddu, Guido Caldarelli, Alfonso Damiano (2018). Optimal positioning of storage systems in microgrids based on complex networks centrality measures. SCIENTIFIC REPORTS, vol. 8, p. 1-8, ISSN: 2045-2322, doi: 10.1038/s41598-018-35128-6
21	2018	Articolo in rivista Mureddu M., Facchini A., Damiano A. (2018). A Statistical Approach for Modeling the Aging Effects in Li-Ion Energy Storage Systems. IEEE ACCESS, vol. 6, p. 42196-42206, ISSN: 2169-3536, doi: 10.1109/ACCESS.2018.2859817
22	2018	Articolo in rivista Mario Mureddu, Angelo Facchini, Antonio Scala, Guido Caldarelli, Alfonso Damiano (2018). A Complex Network Approach for the Estimation of the Energy Demand of Electric Mobility. SCIENTIFIC REPORTS, vol. 8, p. 1-8, ISSN: 2045-2322, doi: 10.1038/s41598-017-17838-5
23	2018	Contributo in volume (Capitolo o Saggio) Alessandro Serpi, Mario Porru, Alfonso Damiano (2018). A Novel Highly Integrated Hybrid Energy Storage System for Electric Propulsion and Smart Grid Applications. In: Adio Miliozzi et al.. (a cura di): Xiangping Chen Wenping Cao, Advancements in Energy Storage Technologies. p. 79-101, London, UK: IntechOpen, ISBN: 978-1-78923-055-0, doi: 10.5772/intechopen.73671



24	2018	Contributo in Atti di convegno Alfonso Damiano, Mario Porru, Andrea Salimbeni, Alessandro Serpi, Vincenzo Castiglia, Antonino Oscar Di Tommaso, Rosario Miceli, Giuseppe Schettino (2018). Batteries for Aerospace: a Brief Review. In: 2018 AEIT International Annual Conference. IEEE (Institute of Electrical and Electronics Engineers), ISBN: 978-8-8872-3740-5, Bari, Italy, Oct. 3-5, 2018, doi: 10.23919/AEIT.2018.8577355
25	2018	Contributo in Atti di convegno Buccella Concettina, Cecati Carlo, Cimatori, Maria Gabriella, Damiano Alfonso, Korjani Saman, Porru Mario, Serpi Alessandro (2018). A Cascade Multilevel Configuration for Commercial Transport Aircraft. In: 2018 AEIT International Annual Conference. ISBN: 978-8-8872-3740-5, Bari, Italy, Oct. 3-5, 2018, doi: 10.23919/AEIT.2018.8577404
26	2018	Contributo in Atti di convegno Mauro Boi, BATTAGLIA, DANIELE, Andrea Salimbeni, Alfonso Damiano (2018). A Non-Linear Electrical Model for Iron Doped Sodium Metal Halides Batteries. In: Proc. of 10th IEEE Energy Conversion Congress and Expo. p. 2039-2046, IEEE, ISBN: 978-1-4799-7312-5, Portland OR -USA, 23-27 Sept. 2018, doi: 10.1109/ECCE.2018.8557585
27	2018	Contributo in Atti di convegno Umberto Abronzini, Ciro Attaianesi, Mauro Di Monaco, Giuseppe Tomasso, Alfonso Damiano, Mario Porru, Alessandro Serpi (2018). A Dual-Source DHB-NPC Power Converter for Grid Connected Split Battery Energy Storage System. In: 2018 IEEE Energy Conversion Congress and Exposition (ECCE). p. 2483-2488, IEEE (Institute of Electrical and Electronics Engineers), ISBN: 978-1-4799-7312-5, Portland, USA, Sept. 23-27, 2018, doi: 10.1109/ECCE.2018.8557563
28	2018	Contributo in Atti di convegno Mario Mureddu, Alfonso Damiano (2018). Real-time integration of E-Mobility data for the implementation of novel energy paradigms. In: Proc. of 14th Workshop on Positioning, Navigation and Communications. vol. 2018-, p. 1-5, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538630891, Bremen, Germany, 25-26 Oct. 2017, doi: 10.1109/WPNC.2017.8250075
29	2018	Contributo in Atti di convegno Salimbeni A, Serpi A, Porru M, Damiano A (2018). Integration of Sodium Metal Halides Batteries in Microgrids for Providing Active Filtering Services. In: SPEEDAM 2018 - Proceedings: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 473-478, ISBN: 978-1-5386-4941-1, Amalfi, Italy, June 20-22, 2018, doi: 10.1109/SPEEDAM.2018.8445376
30	2018	Contributo in Atti di convegno Porru M, Serpi A, Mureddu M, Damiano A (2018). A Combined Planning and Design Approach of a Public Charging Infrastructure for Electric Vehicles. In: 2018 IEEE Vehicle Power and Propulsion Conference (VPPC). ISBN: 978-1-5386-6203-8, Chicago, USA, Aug. 27-30, 2018, doi: 10.1109/VPPC.2018.8605006



31	2018	Contributo in Atti di convegno Floris A, Serpi A, Porru M, Fois G, Damiano A (2018). Design of a Double-Stage Magnetic Gear for High-Speed Electric Propulsion Systems. In: Proceedings - 2018 23rd International Conference on Electrical Machines, ICEM 2018. p. 670-676, ISBN: 978-1-5386-2477-7, Alexandroupoli, Greece, Sept. 3-6, 2018, doi: 10.1109/ICELMACH.2018.8506911
32	2018	Contributo in Atti di convegno Floris Andrea, Serpi Alessandro, Porru Mario, Damiano Alfonso (2018). A Comparative Analysis of Different Double-Stage Magnetic Gear Transmission Systems with High Gear Ratio. In: 2018 8th International Electric Drives Production Conference (EDPC). ISBN: 978-1-7281-0148-4, Schweinfurt, Germany, Dec. 4-5, 2018, doi: 10.1109/EDPC.2018.8658327
33	2017	Articolo in rivista Alessandro Serpi, Mario Porru, Alfonso Damiano (2017). An Optimal Power and Energy Management by Hybrid Energy Storage Systems in Microgrids. ENERGIES, vol. 10, ISSN: 1996-1073, doi: 10.3390/en10111909
34	2017	Articolo in rivista Saman Korjani, Mario Mureddu, Angelo Facchini, Alfonso Damiano (2017). Aging cost optimization for planning and management of energy storage systems. ENERGIES, vol. 10, 1916, ISSN: 1996-1073, doi: 10.3390/en10111916
35	2017	Contributo in Atti di convegno FOIS, GIUSEPPE, FLORIS, ANDREA, SERPI, ALESSANDRO, PORRU, MARIO, DAMIANO, ALFONSO (2017). Design Criteria for Ferrite-Based High-Speed Permanent Magnet Synchronous Machines. In: 2017 7th International Electric Drives Production Conference (EDPC). vol. 2017, p. 1-7, IEEE (Institute of Electrical and Electronics Engineers), ISBN: 978-1-5386-1069-5, Wuerzburg, Germany, Dec. 5-6, 2017, doi: 10.1109/EDPC.2017.8328162
36	2017	Contributo in Atti di convegno Malgorzata Gawronska, Carla Sanna, Renato Rizzo, BOI, MAURO, Alfonso Damiano (2017). Outdoor characterisation of high concentration photovoltaic modules. In: Proc. of AEIT International Annual Conference. vol. 2017-, p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 9788887237375, Cagliari, Italy, 20-22 Sept. 2017, doi: 10.23919/AEIT.2017.8240556
37	2017	Contributo in Atti di convegno Mauro Boi, Andrea Salimbeni, Alfonso Damiano (2017). A Thévenin circuit modelling approach for sodium metal halides batteries. In: Proc. of 43rd Annual Conference of the IEEE Industrial Electronics Society. vol. 2017-, p. 7611-7616, IEEE, ISBN: 9781538611272, Beijing, China, 29 Oct - 01 Nov 2017, doi: 10.1109/IECON.2017.8217334
38	2017	Contributo in Atti di convegno Saman Korjani, Angelo Facchini, Mario Mureddu, Alfonso Damiano (2017). A genetic algorithm approach for the identification of microgrids partitioning into distribution networks. In: Proceedings IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society. IEEE, ISBN: 978-1-5386-1127-2, Beijing, China, 29 Oct - 01 Nov 2017, doi: 10.1109/IECON.2017.8216008



39	2017	Contributo in Atti di convegno Carla Sanna, Malgorzata Gawronska, Andrea Salimbeni, Mario Porru, Alfonso Damiano (2017). Experimental assessment of ESS integration in a microgrid supplied by photovoltaic. In: Proc. of AEIT International Annual Conference. vol. 2017-, p. 1-6, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISBN: 9788887237375, Cagliari, Italy, 20-22 Sept. 2017, doi: 10.23919/AEIT.2017.8240514
40	2017	Contributo in Atti di convegno M. Gawronska, C. Sanna, S. Casula, SALIMBENI, ANDREA, DAMIANO, ALFONSO (2017). A test bench for microgrids powered by Concentrator photovoltaic systems. In: Proc. of 6th International Conference on Clean Electrical Power (ICCEP 2017). p. 262-268, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISBN: 9781509046829, Santa Margherita Ligure (Italy), 27-29 June 2017, doi: 10.1109/ICCEP.2017.8004825
41	2017	Contributo in Atti di convegno MUREDDU, MARIO, DAMIANO, ALFONSO (2017). A statistical approach for resilience analysis of ESS deployment in RES-based power systems. In: Proc. of 26th IEEE International Symposium on Industrial Electronics. p. 2069-2074, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISBN: 9781509014125, Edinburgh, Scotland, UK, 19-21 June 2017, doi: 10.1109/ISIE.2017.8001574
42	2017	Contributo in Atti di convegno PORRU, MARIO, SERPI, ALESSANDRO, SALIMBENI, ANDREA, DAMIANO, ALFONSO (2017). An advanced frequency-based energy management of hybrid energy storage systems for microgrids. In: Proceedings IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society. p. 7617-7622, IEEE, ISBN: 978-1-5386-1128-9, Beijing (China), Oct. 29-Nov. 1, 2017, doi: 10.1109/IECON.2017.8217335
43	2017	Contributo in Atti di convegno PORRU, MARIO, SERPI, ALESSANDRO, LAI, ANDREA, GATTO, GIANLUCA, DAMIANO, ALFONSO (2017). Modelling, Sizing and Control of Hybrid Energy Storage Systems for Electric Vehicles. In: IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society. p. 5260-5265, IEEE (Institute of Electrical and Electronics Engineers), ISBN: 978-1-5386-1128-9, Beijing, China, Oct. 29-Nov. 1, 2017, doi: 10.1109/IECON.2017.8216911
44	2016	Articolo in rivista DAMIANO, ALFONSO, Mario Mureddu, Guido Caldarelli, Antonio Scala, Hildegard Meyer Ortmanns (2016). Islanding the power grid on the transmission level: less connections for more security. SCIENTIFIC REPORTS, vol. 6, ISSN: 2045-2322, doi: doi:10.1038/srep34797
45	2016	Contributo in Atti di convegno DAMIANO, ALFONSO, FLORIS, ANDREA, FOIS, GIUSEPPE, MARONGIU, IGNAZIO, PORRU, MARIO, SERPI, ALESSANDRO (2016). Design of a High-Speed Ferrite-based Brushless DC Machine for Electric Vehicles. In: 2016 XXII International Conference on Electrical Machines (ICEM). p. 715-721, ISBN: 978-1-5090-2538-1, Lausanne, Switzerland, Sept. 4-7, 2016, doi: 10.1109/ICELMACH.2016.7732605



46	2016	Contributo in Atti di convegno SERPI, ALESSANDRO, FOIS, GIUSEPPE, PORRU, MARIO, DAMIANO, ALFONSO, MARONGIU, IGNAZIO (2016). Space Vector Control of Permanent Magnet Brushless DC Machines. In: 2016 XXII International Conference on Electrical Machines (ICEM). p. 1194-1200, ISBN: 978-1-5090-2538-1, Lausanne, Switzerland, Sept. 4-7, 2016, doi: 10.1109/ICELMACH.2016.7732676
47	2016	Contributo in Atti di convegno DAMIANO, ALFONSO, FLORIS, ANDREA, MARONGIU, IGNAZIO, PORRU, MARIO, SERPI, ALESSANDRO (2016). Efficiency assessment of electric propulsion systems for electric vehicles. In: 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM). p. 1232-1237, ISBN: 978-1-5090-2067-6, Anacapri, Italy, June 22-24, 2016, doi: 10.1109/SPEEDAM.2016.7525934
48	2016	Contributo in Atti di convegno Camerada M, CAU, GIORGIO, COCCO, DANIELE, DAMIANO, ALFONSO, Demontis V, Melis T, Musio M. (2016). Villacidro Solar Demo Plant: integration of small-scale CSP and biogas power plants in an industrial microgrid. In: Proceedings of SolarPACES 2015. AIP CONFERENCE PROCEEDINGS, vol. 1734, p. 1-8, 2 HUNTINGTON QUADRANGLE, STE 1N01, MELVILLE, NY 11747-4501 USA:American Institute of Physics Inc., ISBN: 9780735413863, ISSN: 0094-243X, Cape Town, South Africa, October 13-16, 2015, doi: 10.1063/1.4949192
49	2016	Contributo in Atti di convegno Andrea Salimbeni, Mauro Boi, Ignazio Marongiu, Mario Porru, Alfonso Damiano (2016). Integration of active filter and energy storage system for power quality improvement in microgrids. In: Proc. of International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2016). ISBN: 978-1-5090-2067-6, Anacapri, Italy, 22-24 June 2016
50	2016	Contributo in Atti di convegno Simone Casula, Carla Sanna, Malgorzata Gawronska, DAMIANO, ALFONSO (2016). Surface polarization effect and recovery process of crystalline-Si photovoltaic modules. In: Proc. of 5th International Conference on Renewable Energy Research and Applications (ICRERA 2016). p. 364-369, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISBN: 9781509033881, Birmingham (UK), 20-23 Nov. 2016, doi: 10.1109/ICRERA.2016.7884361
51	2016	Contributo in Atti di convegno DAMIANO, ALFONSO, FLORIS, ANDREA, FOIS, GIUSEPPE, PORRU, MARIO, SERPI, ALESSANDRO (2016). Modelling and Design of PM Retention Sleeves for High-Speed PM Synchronous Machines. In: 2016 6th International Electric Drives Production Conference, EDPC 2016 - Proceedings. p. 118-125, ISBN: 978-1-5090-2909-9, Nuremberg, Germany, Nov. 30-Dec. 1, 2016, doi: 10.1109/EDPC.2016.7851323
52	2016	Contributo in Atti di convegno KORJANI, SAMAN, PORRU, MARIO, SERPI, ALESSANDRO, DAMIANO, ALFONSO (2016). A Genetic Algorithm for the Definition of Nodal Load Time Evolutions in Micro Grids Assessment. In: 2016 IEEE International Conference on Renewable Energy Research and Applications (ICRERA). p. 633-638, IEEE (Institute of Electrical and Electronics Engineers), ISBN: 978-1-5090-3388-1, Birmingham, UK, Nov. 20-23, 2016, doi: 10.1109/ICRERA.2016.7884412





53	2016	Contributo in Atti di convegno PORRU, MARIO, SERPI, ALESSANDRO, FLORIS, ANDREA, DAMIANO, ALFONSO (2016). Modelling and Real-Time Simulations of Electric Propulsion Systems. In: 2016 International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles and International Transportation Electrification Conference, ESARS-ITEC 2016. ISBN: 978-1-5090-0813-1, Toulouse, France, Nov. 2-4, 2016, doi: 10.1109/ESARS-ITEC.2016.7841438
54	2016	Contributo in Atti di convegno PORRU, MARIO, SERPI, ALESSANDRO, DAMIANO, ALFONSO (2016). Smart Energy Management of HESS-based Electric Propulsion Systems for Urban Mobility. In: IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society. p. 4453-4458, ISBN: 978-1-5090-3474-1, Florence, Italy, Oct. 24-27, 2016, doi: 10.1109/IECON.2016.7793591
55	2015	Articolo in rivista D'Agostino R, Baumann L, DAMIANO, ALFONSO, Boggasch E. (2015). A Vanadium-Redox-Flow-Battery Model for Evaluation of Distributed Storage Implementation in Residential Energy Systems. IEEE TRANSACTIONS ON ENERGY CONVERSION, vol. 30, p. 421-430, ISSN: 0885-8969, doi: 10.1109/TEC.2014.2369437
56	2015	Articolo in rivista CAMERADA, MARCO, Cau, Giorgio, Cocco, Daniele, Damiano, Alfonso, DEMONTIS, VALERIA, Melis, Tiziana, Musio, Maura (2015). A pilot power plant based on concentrating solar and energy storage technologies for improving electricity dispatch. ENERGY PROCEDIA, vol. 81, p. 165-172, ISSN: 1876-6102, doi: 10.1016/j.egypro.2015.12.071
57	2015	Articolo in rivista Mureddu Mario, Caldarelli Guido, Chessa Alessandro, Scala Antonio, Damiano Alfonso (2015). Green power grids: How energy from renewable sources affects networks and markets. PLOS ONE, vol. 10, ISSN: 1932-6203, doi: 10.1371/journal.pone.0135312
58	2015	Contributo in volume (Capitolo o Saggio) SERPI, ALESSANDRO, GATTO, GIANLUCA, DAMIANO, ALFONSO, MARONGIU, IGNAZIO (2015). Model Predictive Control with Input and Output Constraints. In: Corrine Wade. (a cura di): Corrine Wade, Model Predictive Control: Theory, Practices and Future Challenges. p. 1-39, New York (USA):Nova Science Publishers, ISBN: 978-1-63463-859-3
59	2015	Contributo in Atti di convegno Musio C, Damiano A (2015). Analysis of the effects of gear transmission structure on the electric vehicle performances. In: Proc. of International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles (ESARS), 2015 . p. 1-6, Aachen, 3-5 March 2015, doi: 10.1109/ESARS.2015.7101482
60	2015	Contributo in Atti di convegno MUSIO, MAURA, SERPI, ALESSANDRO, MUSIO, CLAUDIA, DAMIANO, ALFONSO (2015). Optimal Management Strategy of Energy Storage Systems for RES-based Microgrids. In: Proc. 41st Annual Conference of the IEEE Industrial Electronics Society (IECON 2015). p. 5044-5049, ISBN: 978-1-4799-1762-4, Yokohama (Japan), Nov. 9-12, 2015, doi: 10.1109/IECON.2015.7392891



61	2015	Contributo in Atti di convegno PORRU, MARIO, SERPI, ALESSANDRO, MARONGIU, IGNAZIO, DAMIANO, ALFONSO (2015). A Novel Hybrid Energy Storage System for Electric Vehicles. In: IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society. p. 3732-3737, ISBN: 978-1-4799-1762-4, Yokohama, Japan, Nov. 9-12, 2015, doi: 10.1109/IECON.2015.7392682
62	2015	Contributo in Atti di convegno Sanna, Carla, Gawronska, Malgorzata, DAMIANO, ALFONSO (2015). Energy performance of concentrator and flat plate photovoltaics in the mediterranean area. In: Proc. of 4th International Conference on Renewable Energy Research and Applications (ICRERA 2015). p. 760-765, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISBN: 9781479999828, Palermo (Italy), 24-27 Nov. 2015, doi: 10.1109/ICRERA.2015.7418513
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### **Responsabilità scientifica per progetti di ricerca internazionali e nazionali, ammessi al finanziamento sulla base di bandi competitivi che prevedano la revisione tra pari**

- Coordinatore scientifico di Unità Operativa dell'Università degli Studi di Cagliari del progetto Europeo "Adaptive Cooperative Control in Urban (sub) Systems-ACCUS" finanziato dalla Comunità Europea con Grant Agreement no: 333020 Artemis 2012 - tema SP1-JTI-ARTEMIS-2012-ASP7e SP1-JTI-ARTEMIS-2012  
dal 01-01-2013 al 01-01-2016
- Coordinatore Scientifico dell'Unità Operativa di Cagliari del progetto europeo H2020 "Energy and Economic efficiency for today smart communities through integrated multi storage technologies"- Netfficient Grant Agreement n° 646463  
dal 01-01-2015 al 31-12-2018
- Coordinatore scientifico dell'Unità di Ricerca del DIEE dell'Università di Cagliari componente del Consorzio proponente il progetto "Sviluppo di anodi in Germanio Nanoporoso per Batterie al Litio per Applicazioni Aereospaziali" (ANGELS) presentato al Bando pubblicato dall'Agenzia Spaziale Italiana (ASI) "Nuove idee per la componentistica spaziale del futuro"  
dal 01-05-2018 al 01-12-2019
- Coordinatore Scientifico dell'Unità operativa di Cagliari del Progetto di Rilevante Interesse Nazionale (PRIN 2017) dal titolo: Advanced power-trains and -systems for full electric aircrafts  
dal 27-01-2020 a oggi

### **Direzione o partecipazione a comitati editoriali di riviste, collane editoriali, enciclopedie e trattati di riconosciuto prestigio**

- Guest Editor della Special Session delle Transaction on Industry Informatics –dal titolo "Resilience in Energy Industries– Recent Advances, Open Challenges, and Future Directions" pubblicata sulle IEEE Transaction on Industry Informatics  
dal 01-01-2018 al 01-07-2019
- Associate Editor of IEEE Industrial Electronic Technology News  
dal 01-07-2018 al 01-01-2020
- Associate Editor of IEEE Journal of Emerging and Selected Topics in Industrial Electronics  
dal 01-01-2019 a oggi

### **Premi e riconoscimenti per l'attività scientifica, inclusa l'affiliazione ad accademie di riconosciuto prestigio nel settore**

- Second "Prize Paper Award", conferito da "The Power Electronics Technical Committee of the IEEE Industrial Electronics Society" per l'articolo scientifico intitolato "A Suitable PWM for DC-link Voltage Equalization of Three-Level Neutral-Point Clamped Converters", 39th IECON, Vienna (Austria), Nov. 10-13, 2013.  
dal 10-11-2013 a oggi
- Menzione speciale al Premio 2017 Italiadecide "Amministrazione, Cittadini, Imprese", nell'ambito "Ricerca applicata innovativa o di dimostrazione", per il progetto di ricerca: "Impianto sperimentale di generazione elettrica da solare termodinamico e da fotovoltaico a concentrazione da 1 MW realizzato presso il Consorzio Industriale di Ottana".  
dal 01-11-2019 a oggi
- Best Poster Presentation Award conferito dall' International Conference on Electrical Machines Awards Committee Chair nel 2020 per l'articolo Design and Performance Assessment on an Integrated Flywheel



Energy Storage Systems based on an Inner-Rotor Large Airgap SPM"  
dal 26-08-2020 a oggi

**Altri titoli che contribuiscano a una migliore definizione del profilo scientifico**

- General Chair della International Conference on Industrial Electronics for Sustainable Energy Systems (IESES-2020)  
dal 01-01-2018 al 04-09-2020
- Chair dell' Energy Storage Technical Committee dell' IEEE Industrial Electronic Society  
dal 01-01-2020 a oggi
- Senior member dell Institute of Electrical and Electronics Engineers (IEEE)  
dal 01-05-2020 a oggi

