



**Elenco dei titoli e delle pubblicazioni
scientifiche**

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

Prima Fascia

Carlo CECATI

Posizione accademica

Settore Scientifico Disciplinare:	ING-IND/32 - Convertitori, macchine e azionamenti elettrici
Qualifica:	Professore Ordinario
Anzianità nel ruolo:	01/10/2006
Sede Universitaria:	Università degli Studi dell'AQUILA
Struttura di appartenenza (dipartimento o altro):	Ingegneria e scienze dell'informazione e matematica

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
01/07/1987	Ricercatore Universitario	Università degli Studi dell'AQUILA
01/09/2001	Professore II Fascia	Università degli Studi dell'AQUILA
01/10/2006	Professore I Fascia	Università degli Studi dell'AQUILA



Pubblicazioni scientifiche

1	2021	<p>Articolo in rivista</p> <p>Saadatizadeh Z., Babaei E., Blaabjerg F., Cecati C. (2021). Three-Port High Step-Up and High Step-Down DC-DC Converter with Zero Input Current Ripple. IEEE TRANSACTIONS ON POWER ELECTRONICS, vol. 36, p. 1804-1813, ISSN: 0885-8993, doi: 10.1109/TPEL.2020.3007959</p>
2	2021	<p>Articolo in rivista</p> <p>Khalid H. A., Cecati C., Al-Emadi N. A., Gastli A., Ben-Brahim L. (2021). Differential Flatness based Performance Enhancement of a Vector Controlled VSC with an LCL-filter for Weak Grids. IEEE ACCESS, p. 1, ISSN: 2169-3536, doi: 10.1109/ACCESS.2021.3061141</p>
3	2020	<p>Articolo in rivista</p> <p>Ul-Haq A., Jalal M., Aamir M., Cecati C., Muslim F. B., Raja A. A., Iqbal J. (2020). Simulations and experimental validation of one cycle controlled nine-level inverter using FPGA. COMPUTERS & ELECTRICAL ENGINEERING, vol. 88, ISSN: 0045-7906, doi: 10.1016/j.compeleceng.2020.106885</p>
4	2020	<p>Articolo in rivista</p> <p>Imthias M., Raj K. R., Yadav A. K., Gopakumar K., Umanand L., Cecati C. (2020). Minimization of switched capacitor voltage ripple in a multilevel dodecagonal voltage space vector structure for drives. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 67, p. 126-135, ISSN: 0278-0046, doi: 10.1109/TIE.2019.2893825</p>
5	2020	<p>Articolo in rivista</p> <p>Patel, V, Buccella, C, Cecati, C (2020). Analysis and Implementation of Multilevel Inverter for Full Electric Aircraft Drives. ENERGIES, vol. 13, ISSN: 1996-1073, doi: 10.3390/en13226126</p>
6	2020	<p>Articolo in rivista</p> <p>Buccella C., Cimatorini M. G., Cecati C. (2020). Mathematical proof of a harmonic elimination procedure for multilevel inverters. MATHEMATICS AND COMPUTERS IN SIMULATION, ISSN: 0378-4754, doi: 10.1016/j.matcom.2020.07.003</p>
7	2020	<p>Articolo in rivista</p> <p>Concettina Buccella, Maria Gabriella Cimatorini, Carlo Cecati (2020). General Formula for SHE Problem Solution. ENERGIES, vol. 13, 3740, p. 1-16, ISSN: 1996-1073, doi: 10.3390/en13143740</p>



8	2020	Articolo in rivista Prabaharan N., Salam Z., Cecati C., Palanisamy K. (2020). Design and Implementation of New Multilevel Inverter Topology for Trinary Sequence Using Unipolar Pulsewidth Modulation. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 67, p. 3573-3582, ISSN: 0278-0046, doi: 10.1109/TIE.2019.2914636
9	2020	Articolo in rivista Gu Y., Wang J., Liang Z., Wu Y., Cecati C., Zhang Z. (2020). Single-Transmitter Multiple-Pickup Wireless Power Transfer: Advantages, Challenges, and Corresponding Technical Solutions. IEEE INDUSTRIAL ELECTRONICS MAGAZINE, vol. 14, p. 123-135, ISSN: 1932-4529, doi: 10.1109/MIE.2020.3002524
10	2020	Recensione in rivista Cecati C., Song S., Buticchi G. (2020). Special Issue on More Electric Aircraft. IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION, vol. 6, p. 1382-1385, ISSN: 2332-7782, doi: 10.1109/TTE.2020.3026761
11	2020	Contributo in volume (Capitolo o Saggio) Concettina Buccella, Maria Gabriella Cimatori, Carlo Cecati (2020). Mathematical Procedure for Harmonic Elimination in CHB Multilevel Inverters with Variable DC Sources. In: Zamboni Walter Petrone Giovanni. (a cura di): Zamboni Walter Petrone Giovanni, ELECTRIMACS 2019 - Selected Papers. vol. 2, ISBN: 978-3-030-56969-3
12	2020	Contributo in Atti di convegno Di Fonso R., Cecati C. (2020). Test cycle simulation of an electric car with regenerative braking. In: (a cura di): 2020 AEIT, International Conference of Electrical and Electronic Technologies for Automotive, AEIT AUTOMOTIVE 2020. Institute of Electrical and Electronics Engineers Inc., ita, 2020
13	2020	Contributo in Atti di convegno Saif A. M., Tinari M., Ciammaichella P., Buccella C., Di Gennaro S., Cecati C. (2020). Backstepping Control for Multilevel STATCOM. In: (a cura di): EEE Energy Conversion Congress and Exposition, ECCE 2020 - IEEE Energy Conversion Congress and Exposition. p. 3412-3419, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-5826-6, usa, 2020, doi: 10.1109/ECCE44975.2020.9235864
14	2019	Articolo in rivista Babaei, Ebrahim, Buccella, Concettina, Cecati, Carlo (2019). New 8-level basic structure for cascaded multilevel inverters with reduced number of switches and DC voltage sources. JOURNAL OF CIRCUITS, SYSTEMS, AND COMPUTERS, vol. 28, ISSN: 0218-1266, doi: 10.1142/S0218126619500385
15	2019	Articolo in rivista Buccella, Concettina, Cecati, Carlo, Cimatori, Maria Gabriella, Khalid, Hassan A. (2019). Chebyshev Partition-Based Modulation Technique Applied to Power Converters. IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, vol. 7, p. 414-421, ISSN: 2168-6777, doi: 10.1109/JESTPE.2018.2829548



16	2019	Articolo in rivista Buccella, Concettina, Cimatori, Maria Gabriella, Tinari, Mario, Cecati, Carlo (2019). A new pulse active width modulation for multilevel converters. IEEE TRANSACTIONS ON POWER ELECTRONICS, p. 7221-7229, ISSN: 0885-8993, doi: 10.1109/TPEL.2018.2878967
17	2019	Articolo in rivista Zhang, Zhen, Pang, Hongliang, Georgiadis, Apostolos, Cecati, Carlo (2019). Wireless Power Transfer - An Overview. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 66, p. 1044-1058, ISSN: 0278-0046, doi: 10.1109/TIE.2018.2835378
18	2019	Articolo in rivista Concettina Buccella, Maria Gabriella Cimatori, Carlo Cecati (2019). Low-Frequency Harmonic Elimination Technique in Three Phase Cascaded H-Bridges Multilevel Inverters for Renewable Energy Applications. INTERNATIONAL JOURNAL OF SMART GRIDS, vol. 3, p. 1-9, ISSN: 2602-439X
19	2019	Contributo in Atti di convegno Rigatos, G, Siano, P, Marignetti, F, Cecati, C, Rigatos, G, Siano, P, Marignetti, F, Cecati, C (2019). Nonlinear optimal control of induction motors for Maglev trains propulsion. In: (a cura di): ICM 2019 8722933, Proceedings - 2019 IEEE International Conference on Mechatronics. p. 271-276, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE
20	2019	Contributo in Atti di convegno Nemade R., Rathore A. K., Cecati C., Buccella C. (2019). Analysis of Capacitor Current Stress in Five-Level Active Neutral Point Clamped Converter. In: (a cura di): IEEE, 2019 IEEE Industry Applications Society Annual Meeting, IAS 2019. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5386-4539-0, usa, 2019, doi: 10.1109/IAS.2019.8912452
21	2019	Contributo in Atti di convegno Saif A. M., Buccella C., Cimatori M. G., Cecati C. (2019). Power Quality Improvement for Chopper-Cell Based Modular Multilevel Converters. In: (a cura di): IEEE, 2019 AEIT International Annual Conference, AEIT 2019. Institute of Electrical and Electronics Engineers Inc., ita, 2019, doi: 10.23919/AEIT.2019.889333
22	2019	Contributo in Atti di convegno Castiglia, V, Miceli, R, Ala, G, Cecati, C, Buccella, C, Cimatori, MG (2019). A 9-level three-phase multilevel converter with harmonic mitigation and integrated battery balancing. In: (a cura di): IEEE, 2019 AEIT International Conference of Electrical and Electronic Technologies for Automotive (AEIT AUTOMOTIVE). 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE
23	2019	Contributo in Atti di convegno Patel V., Tinari M., Buccella C., Cecati C. (2019). Analysis on multilevel inverter powertrains for E-transportation. In: (a cura di): IEEE, Proceedings - 2019 IEEE 13th International Conference on Compatibility, Power Electronics and Power Engineering, CPE-POWERENG 2019. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-3202-0, dnk, 2019, doi: 10.1109/CPE.2019.8862373



24	2019	Contributo in Atti di convegno Buccella C., Cimatorni M. G., Cecati C. (2019). A comparison between real-time harmonic elimination procedures for single phase CHB 5-level inverter. In: (a cura di): IEEE, 2019 21st European Conference on Power Electronics and Applications, EPE 2019 ECCE Europe. p. P.1-P.10, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-9-0758-1531-3, ita, 2019, doi: 10.23919/EPE.2019.8915547
25	2019	Contributo in Atti di convegno Aalami M., Babaei E., Ranjbarizad V., Cecati C., Buccella C. (2019). A new multilevel inverter based on improved double flying capacitor multicell inverter with reduced number of the flying capacitors. In: (a cura di): IEEE, iEECON 2019 - 7th International Electrical Engineering Congress, Proceedings. p. 1-4, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0729-5, tha, 2019, doi: 10.1109/iEECON45304.2019.8939041
26	2019	Contributo in Atti di convegno Buccella C., Cimatorni M. G., Patel V., Tinari M., Cecati C. (2019). Investigation about SHM-PAM procedure for grid connected CHB seven level inverters. In: (a cura di): IEEE, ICCEP 2019 - 7th International Conference on Clean Electrical Power: Renewable Energy Resources Impact. p. 413-418, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-1356-2, ita, 2019, doi: 10.1109/ICCEP.2019.8890188
27	2019	Contributo in Atti di convegno Bayat, Z, Bbaei, E, Cecati, C, Buccella, C, Fazljoo, SA (2019). Provide a New Basic Unit for Cascaded Multilevel Inverter by Reducing the Maximum Blocking Voltage and Switches. In: (a cura di): IEEE, 2019 27th Iranian Conference on Electrical Engineering (ICEE). p. 576-581, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE
28	2019	Contributo in Atti di convegno Bayat, Z, Babaei, E, Serajian, M, Cecati, C, Buccella, C (2019). A New Structure with New Algorithms for Cascaded Multilevel Inverters by Reducing Number of IGBTs. In: (a cura di): IEEE, 2019 7th International Electrical Engineering Congress (iEECON). p. 349-354, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, doi: 10.1109/iEECON45304.2019.8938890
29	2019	Contributo in Atti di convegno Aalami M., Babaei E., Ranjbarizad V., Cecati C., Buccella C. (2019). A new developed cascaded multilevel inverter topology to reduce number of used devices. In: (a cura di): IEEE, iEECON 2019 - 7th International Electrical Engineering Congress, Proceedings. p. 1-4, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0729-5, tha, 2019, doi: 10.1109/iEECON45304.2019.8939020
30	2019	Contributo in Atti di convegno Bayat Z., Babaei E., Cecati C., Buccella C., Ranjbarizad V. (2019). A new topology of cascaded multilevel inverter with reduced number of driver circuits and IGBTs. In: (a cura di): IEEE, iEECON 2019 - 7th International Electrical Engineering Congress, Proceedings. p. 1-4, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0729-5, tha, 2019, doi: 10.1109/iEECON45304.2019.8938890



31	2019	Contributo in Atti di convegno Rigatos G., Siano P., Cecati C., Abbaszadeh M. (2019). Nonlinear optimal control for multilevel inverters. In: (a cura di): IEEE IES, IEEE International Symposium on Industrial Electronics. vol. 2019-, p. 593-598, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-3666-0, Pinnacle Hotel Harbourfront, can, 2019, doi: 10.1109/ISIE.2019.8781504
32	2019	Contributo in Atti di convegno Ahmed Majed Saif, Carlo Cecati, Elena De Paulis, Concettina Buccella (2019). On Control Design and Implementation of Multilevel SSBC STATCOM Using FPGA. In: (a cura di): IEEE INDUSTRIAL ELECTRONICS SOCIETY, PROCEEDINGS OF THE ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY. PROCEEDINGS OF THE ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY, p. 3559-3564, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, ISSN: 1553-572X
33	2018	Articolo in rivista Zhang Z., Georgiadis A., Cecati C. (2018). Wireless Power Transfer for Smart Industrial and Home Applications. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 66, p. 3959-3962, ISSN: 0278-0046, doi: 10.1109/TIE.2018.2884307
34	2018	Articolo in rivista Ul-Haq, Azhar, Cecati, Carlo, El-Saadany, Ehab (2018). Probabilistic modeling of electric vehicle charging pattern in a residential distribution network. ELECTRIC POWER SYSTEMS RESEARCH, vol. 157, p. 126-133, ISSN: 0378-7796, doi: 10.1016/j.epsr.2017.12.005
35	2018	Articolo in rivista Guan, Yueshi, Wang, Yijie, Cecati, Carlo, Wang, Wei, Xu, Dianguo (2018). Analysis of Frequency Characteristics of the Half-Bridge CLCL Converter and Derivative Topologies. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 65, p. 7741-7752, ISSN: 0278-0046, doi: 10.1109/TIE.2018.2801850
36	2018	Articolo in rivista Marignetti, Fabrizio, Volpe, Giuseppe, Mirimani, Seyyed Mehdi, Cecati, Carlo (2018). Electromagnetic Design and Modeling of a Two-Phase Axial-Flux Printed Circuit Board Motor. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 65, p. 67-76, ISSN: 0278-0046, doi: 10.1109/TIE.2017.2716865
37	2018	Articolo in rivista Asl, Elias Shokati, Babaei, Ebrahim, Sabahi, Mehran, Hasan Babayi Nozadian, Mohsen, Cecati, Carlo (2018). New Half-Bridge and Full-Bridge Topologies for a Switched-Boost Inverter with Continuous Input Current. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 65, p. 3188-3197, ISSN: 0278-0046, doi: 10.1109/TIE.2017.2752118
38	2018	Articolo in rivista Kshirsagar A., Kaarthik R. S., Rahul A., Gopakumar K., Umanand L., Biswas S. K., Cecati C. (2018). 17-level inverter with low component count for open-end induction motor drives. IET POWER ELECTRONICS, vol. 11, p. 922-929, ISSN: 1755-4535, doi: 10.1049/iet-pel.2017.0492



39	2018	Contributo in Atti di convegno Rigatos G., Siano P., Cecati C., Abbaszadeh M. (2018). Nonlinear optimal control for hydro-power generation units. In: (a cura di): AEIT, 2018 110th AEIT International Annual Conference, AEIT 2018. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-8-8872-3740-5, ita, 2018, doi: 10.23919/AEIT.2018.8577457
40	2018	Contributo in Atti di convegno Patel, Vidhi, Buccella, Concettina, Saif, Ahmed Majed, Tinari, Mario, Cecati, Carlo (2018). Performance Comparison of Multilevel Inverters for E-transportation. In: (a cura di): IEEE, 2018 International Conference of Electrical and Electronic Technologies for Automotive, AUTOMOTIVE 2018. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 9788887237382, Politecnico di Milano, Bovisa Campus, ita, 2018, doi: 10.23919/EETA.2018.8493209
41	2018	Contributo in Atti di convegno Laali, S, Babaei, E, Buccella, C, Cecati, C (2018). Diode Assisted Quasi Z-source Inverter with Discontinuous Current: Analysis and Simulation. In: (a cura di): IEEE, AEIT. 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE
42	2018	Contributo in Atti di convegno SAIF, AHMED MAJED AHMED, Buccella, Concettina, PATEL, VIDHI MANILAL, TINARI, MARIO, Cecati, Carlo (2018). Design and cost analysis for STATCOM in low and medium voltage systems. In: (a cura di): IEEE, Proceedings: IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. p. 3938-3943, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509066841, Omni Shoreham Hotel, usa, 2018, doi: 10.1109/IECON.2018.8591502
43	2018	Contributo in Atti di convegno Raciti, Angelo, Rizzo, Santi A., Salerno, Nunzio, Susinni, Giovanni, Buccella, Concettina, Cecati, Carlo, Tinari, Mario (2018). State of the art and emerging solid-state power devices in the perspective of more electric aircraft. In: (a cura di): IEEE, 2018 110th AEIT International Annual Conference, AEIT 2018. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 9788887237405, ita, 2018, doi: 10.23919/AEIT.2018.8577345
44	2018	Contributo in Atti di convegno Castiglia, V, Miceli, R, Schettino, G, Cimatori, MG, Buccella, C, Cecati, C (2018). Selective Harmonic Elimination in a 5-level single phase converter with FPGA based controller. In: (a cura di): IEEE, EFEA. 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE
45	2018	Contributo in Atti di convegno Buccella, C, Cecati, C, Cimatori, MG, Damiano, A, Korjani, S, Porru, M, Serpi, A (2018). A Cascade Multilevel Configuration for Commercial Transport Aircraft. In: (a cura di): AEIT, AEIT. 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE, doi: 10.23919/AEIT.2018.8577404
46	2018	Contributo in Atti di convegno Buccella, C., Cimatori, M. G., Tinari, M., Cecati, C., Rizzo, S. A., Susinni, G., Raciti, A. (2018). Single-Phase Chebyshev Algorithm for Harmonics Mitigation in CHB Five-Level Inverters. In: (a cura di): AEIT, 2018 110th AEIT International Annual Conference, AEIT 2018. p. 1-5, Institute of Electrical and Electronics Engineers Inc., ISBN: 9788887237405, ita, 2018, doi: 10.23919/AEIT.2018.8577315



47	2018	Contributo in Atti di convegno Buccella, C., Cimatorni, M. G., Patel, V., Saif, A. M., Tinari, M., Cecati, C., Babaei, E. (2018). Harmonic elimination procedure for cascaded multilevel inverters having a particular even number of dc sources. In: (a cura di): IEEE IECON 2018, Proceedings: IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. p. 1249-1254, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509066841, Omni Shoreham Hotel, usa, 2018, doi: 10.1109/IECON.2018.8591723
48	2018	Contributo in Atti di convegno Vincenzo Castiglia, Rosario Miceli, SCHETTINO, GIUSEPPE, F. Viola, Concettina Buccella, Carlo Cecati, M. Gabriella Cimatorni (2018). Mixed Harmonic Elimination Control for a Single-Phase 9-Level Grid-Connected Inverter. In: (a cura di): Int. Conf. on Smart Grids (icSmartGrids) Prefectural Art Museum Nagasaki Japan December 4 -6 2018, Int. Conf. on Smart Grids (icSmartGrids), Prefectural Art Museum, Nagasaki, Japan, December 4 -6, 2018. p. 240-245, Prefectural Art Museum, Nagasaki, Japan, December 4 -6, 2018, doi: 10.1109/ISGWCP.2018.8634487
49	2018	Contributo in Atti di convegno Cimatorni, MG, Tinari, M, Buccella, C, Cecati, C (2018). A high efficiency Selective Harmonic Elimination technique for multilevel converters. In: (a cura di): 2018 International Symposium on Power Electronics Electrical Drives Automation and Motion (SPEEDAM), 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM). p. 673-677, 345 E 47TH ST, NEW YORK, NY 10017 USA:IEEE
50	2018	Contributo in Atti di convegno Imthias M., Krishna Raj R., Yadav A. K., Gopakumar K., Cecati C. (2018). Fast Capacitor Balancing Scheme for Low Voltage Cascaded H-bridges in Multilevel Dodecagonal Space Vector Structure. In: (a cura di): IEEE IES, IEEE International Symposium on Industrial Electronics. vol. 2018-, p. 133-139, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5386-3705-0, Cairns Conventio Centre, aus, 2018, doi: 10.1109/ISIE.2018.8433756
51	2017	Articolo in rivista Cecati, Carlo, Khalid, Hassan Abdullah, Tinari, Mario, Adinolfi, Giovanna, Graditi, Giorgio (2017). DC nanogrid for renewable sources with modular DC/DC LLC converter building block. IET POWER ELECTRONICS, vol. 10, p. 536-544, ISSN: 1755-4535, doi: 10.1049/iet-pel.2016.0200
52	2017	Articolo in rivista Ul-Haq, Azhar, Cecati, Carlo, Al-Ammar, Essam A. (2017). Modeling of a photovoltaic-powered electric vehicle charging station with vehicle-to-grid implementation. ENERGIES, vol. 10, ISSN: 1996-1073, doi: 10.3390/en10010004
53	2017	Articolo in rivista Yang, Rongfeng, Li, Binbin, Wang, Gaolin, Cecati, Carlo, Zhou, Shaoze, Xu, Dianguo, Yu, Wanneng (2017). Asymmetric Mode Control of MMC to Suppress Capacitor Voltage Ripples in Low-Frequency, Low-Voltage Conditions. IEEE TRANSACTIONS ON POWER ELECTRONICS, vol. 32, p. 4219-4230, ISSN: 0885-8993, doi: 10.1109/TPEL.2016.2600762



54	2017	Articolo in rivista BUCCELLA, CONCETTINA, CECATI, Carlo, CIMORONI, MARIA GABRIELLA, Kulothungan, Gnanasambandam, Edpuganti, Amarendra, Rathore, Akshay Kumar (2017). A selective harmonic elimination method for five-level converters for distributed generation. IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, vol. 5, p. 775-783, ISSN: 2168-6777, doi: 10.1109/JESTPE.2017.2688726
55	2017	Articolo in rivista Cecati, Carlo (2017). 42nd Annual Conference of the IEEE Industrial Electronics Society 2016 in a Center of Arts and Culture [Society News]. IEEE INDUSTRIAL ELECTRONICS MAGAZINE, vol. 11, p. 79-80, ISSN: 1932-4529, doi: 10.1109/MIE.2017.2668038
56	2017	Articolo in rivista Wang, Yijie, Qi, Na, Guan, Yueshi, Cecati, Carlo, Xu, Dianguo (2017). A Single-Stage LED Driver Based on SEPIC and LLC Circuits. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 64, p. 5766-5776, ISSN: 0278-0046, doi: 10.1109/TIE.2016.2613921
57	2017	Articolo in rivista Schettino G., Benanti S., Buccella C., Caruso M., Castiglia V., Cecati C., Di Tommaso A. O., Miceli R., Romano P., Viola F. (2017). Simulation and experimental validation of multicarrier PWM techniques for three-phase five-level cascaded H-bridge with FPGA controller. INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol. 7, p. 1383-1394, ISSN: 1309-0127
58	2017	Articolo in rivista Babaei, Ebrahim, Saadatizadeh, Zahra, Cecati, Carlo (2017). High step-up high step-down bidirectional DC/DC converter. IET POWER ELECTRONICS, vol. 10, p. 1556-1571, ISSN: 1755-4535, doi: 10.1049/iet-pel.2016.0977
59	2017	Articolo in rivista Zhong, Qing-Chang, Blaabjerg, Frede, Cecati, Carlo (2017). Power-Electronics-Enabled Autonomous Power Systems. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 64, p. 5904-5906, ISSN: 0278-0046, doi: 10.1109/TIE.2017.2693648
60	2017	Recensione in rivista Khadkikar V., Xu D., Cecati C. (2017). Emerging Power Quality Problems and State-of-the-Art Solutions. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 64, p. 761-763, ISSN: 0278-0046, doi: 10.1109/TIE.2016.2619663
61	2017	Contributo in Atti di convegno Nozadian M. H. B., Babaei E., Ranjbarizad V., Cecati C. (2017). Analysis and design of switched-boost inverter in CCM, DCM and BCM operations. In: (a cura di): IEEE IES, Proceedings IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society. vol. 2017-, p. 8015-8020, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5386-1127-2, China National Convention Center, chn, 2017, doi: 10.1109/IECON.2017.8217406



62	2017	Contributo in Atti di convegno Buccella, C., Cimatori, M. G., Latafat, H., Tinari, M., Cecati, C. (2017). Mixed harmonic elimination and reduction technique for single phase nine level converters. In: (a cura di): Institute of Electrical and Electronics Engineers Inc., IEEE International Symposium on Industrial Electronics. p. 756-761, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509014125, Edinburgh International Conference Centre, gbr, 2017, doi: 10.1109/ISIE.2017.8001341
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- General Chairman: IEEE International Conference on Industrial Electronics (IECON 2016)", (Florence, Italy October 24-26, 2016) dal 24-10-2016 a oggi
- Associate Editor della rivista: IEEE Transactions on Industrial Informatics dal 01-01-2018 a oggi
- Associate Editor della rivista: IEEE Transactions on Transportation Electrification dal 01-01-2019 a oggi
- Honorary Chairman 2nd IEEE International Conference on Industrial Electronics for Sustainable Energy Systems dal 01-01-2020 al 06-09-2020
- Honorary Chairman 47th IEEE Industrial Electronics Conference (IECON 2021) dal 01-01-2021 a oggi

Incarichi di insegnamento o di ricerca (fellowship) presso qualificati atenei e istituti di ricerca esteri o sovranazionali

- International Academic Advisor - Harbin Institute of Technology dal 01-01-2014 al 01-01-2015
- Distinguished Professor, High Level Foreign Expert, 1000 Talents Plan - Harbin Institute of Technology dal 01-01-2015 al 01-01-2017

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

- IEEE Fellow dal 01-01-2006 a oggi
- Certificate of Appreciation conferito dal Prof. Kouhei Ohnishi, President-Elect of The Institute of Electrical Engineers of Japan, "For great contribution to establishment of strong tie between Italian Scientific Community and Japanese Scientific Community". dal 01-01-2014 al 31-12-2014
- "Frentano d'oro", conferito annualmente ad una persona nata nella Frentania che nel campo delle scienze, dell'economia, e della professione, si è resa benemerita dando lustro e prestigio alla sua terra d'origine in Patria e nel mondo. dal 01-01-2014 al 31-12-2014
- "Highly Cited Author", Clarivate Analytics (ISI - Thomson), è stato cioè inserito nella lista che comprende l'1% dei ricercatori di tutto il mondo le cui pubblicazioni degli ultimi 10 anni hanno ricevuto il maggior numero di citazioni, risultando l'unico italiano operante in Italia nel campo dell'ingegneria dal 01-01-2018 al 31-12-2018
- Affiliazione con il "Gruppo 2003 per la ricerca scientifica", associazione che comprende i ricercatori italiani operanti in Italia, di tutte le discipline, che risultano essere stati inseriti nella lista dei ricercatori più citati dal 01-01-2019 a oggi
- Commendatore dell'Ordine "al merito della Repubblica Italiana" dal 27-12-2019 a oggi

Nei settori concorsuali in cui è appropriato, risultati ottenuti nel trasferimento tecnologico in termini di partecipazione alla creazione di nuove imprese (spin off), sviluppo, impiego e



commercializzazione di brevetti

- Fondatore di DigiPower srl, spin-off dell'Università degli Studi dell'Aquila che opera nei settori dell'elettronica industriale, dell'energie rinnovabili, della mobilità elettrica e dei sistemi intelligenti. DigiPower ha collaborato con piccole, medie e grandi imprese, partecipato a bandi competitivi per lo svolgimento di attività di ricerca e sviluppo industriale aggiudicandosi due progetti PON-H2020 "Imprese e Competitività". DigiPower è una "PMI Innovativa" ai sensi del D.M. 3/2015.
dal 01-01-2007 a oggi

Altri titoli che contribuiscano a una migliore definizione del profilo scientifico

- Coordinatore dei corsi dell'indirizzo tecnologico della "Scuola di Specializzazione all'Insegnamento Secondario" (S.S.I.S.) "Raffaele Laporta" dell'Università degli Studi "G. D'Annunzio"
dal 01-01-2001 al 01-01-2008
- Direttore dei "Servizi Informatici della Facoltà di Ingegneria"
dal 01-01-2004 al 01-01-2007
- Delegato del Rettore ai progetti di formazione ed alta formazione del Sistema Universitario della Regione Abruzzo
dal 01-01-2005 al 01-01-2013
- Coordinatore dei Progetti POR-FSE della Regione Abruzzo svolti dalle tre università abruzzesi, fra i quali il Progetto Poli per l'Alta Formazione nei settori manifatturiero e dei servizi
dal 01-01-2006 al 01-01-2008
- Coordinatore dei Progetti POR-FSE della Regione Abruzzo svolti dalle tre università abruzzesi, fra i quali il Progetto PolAf (Poli per l'Alta Formazione nei settori manifatturiero e dei servizi)
dal 01-01-2006 al 01-01-2008
- Coordinatore del Master universitario di secondo livello "Energy Manager" dell'Università degli Studi dell'Aquila
dal 01-01-2007 al 01-01-2008
- Keynote Speaker, Invited Speaker, Plenary Speaker, Panel Speaker, Tutorial Speaker in numerose conferenze ed in università internazionali in USA, Canada, U.K., China, Taiwan, Australia, Korea, Denmark, France, Germany, Spain, Qatar, Oman, Poland, Angola, Libano, Romania, Iran, India, Malaysia, Italia.
dal 01-01-2014 a oggi

