

PASSALACQUA MASSIMILIANO

Overview

? Unit: ELE
? Role: Ricercatore
? Grade: Ricercatore t.d. art. 24 c. 3 lett. A Legge 240/10 (t.pieno)
? SSD: IIND-08/A (Convertitori, macchine e azionamenti elettrici)
? Scopus ID: 57195070159
? Unige Id: 709427
? Retrieved at: 2025-11-14T15:15:04.974005

Contact

? Email: massimiliano.passalacqua@unige.it
? Page: <https://rubrica.unige.it/personale/UkNOX1hu>
? Locations: Opera Pia - padiglione D (ED161450401), 1° piano, US161450401.I.027

Career

? Dr, 2017-11-01 ? 2020-12-31
? Cb, 2019-04-05 ? 2021-09-30
? Ar, 2021-01-04 ? 2022-01-31
? Rd, 2022-02-01 ? 2028-01-31

Teaching

2025

? Veicoli Elettrici, Ibridi E Mobilit  Sostenibile (106719), Lm-28 - Ingegneria Elettrica

2024

? Veicoli Elettrici, Ibridi E Mobilit  Sostenibile (106719), Lm-28 - Ingegneria Elettrica
? Azionamenti Elettrici (72307), L-9 - Ingegneria Meccanica
? Azionamenti Elettrici (72307), L-9 - Ingegneria Meccanica

2023

? Azionamenti Elettrici (72307), L-9 - Ingegneria Meccanica
? Azionamenti Elettrici (72307), L-9 - Ingegneria Meccanica
? Elementi Di Macchine Elettriche (107823), L-P03 - Tecnologie Industriali
? Elementi Di Conversione Statica Dell'Energia (107824), L-P03 - Tecnologie Industriali

2022

? Azionamenti Elettrici (72307), L-9 - Ingegneria Meccanica

Scopus Metrics

? absolute; Docs: 52; Journals: 31; Conferences: 21; Citations: 426; H-index: 14
? 15 years (2010-2025); Docs: 52; Journals: 31; Conferences: 21; Citations: 426; H-index: 14
? 10 years (2015-2025); Docs: 52; Journals: 31; Conferences: 21; Citations: 426; H-index: 14
? 05 years (2020-2025); Docs: 37; Journals: 23; Conferences: 14; Citations: 225; H-index: 9

Scopus Products

1.

? Title: Efficiency Performance of 7-Level Multiplexed and 3-Level Neutral Point Clamped (NPC) Converters
? Venue: Energies

? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? DOI: 10.3390/en18092161
? Scopus ID: 2-s2.0-105004856805
? eISSN: 19961073
? Volume: 18
? Issue: 9
? Authors: Hussain Shafquat; Cosso Simone; Passalacqua Massimiliano; Vaccaro Luis Ramon; Formentini Andrea; Marchesoni Mario
? Keywords: balancing of flying capacitors | conduction losses | efficiency | multiplexed multilevel converter | neutral point clamped converter | switching losses | three phase
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
? Source Id: 62932
? Author Ids: 57225936087;57324695200;57195070159;21935399500;55370605300;6701827441
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Hussain S.

2.

? Title: Synchronous DTC for torque sub-harmonic reduction in low switching frequency induction motor drives
? Venue: Control Engineering Practice
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 3
? DOI: 10.1016/j.conengprac.2024.106133
? Scopus ID: 2-s2.0-85207857965
? Issn: 09670661
? Volume: 154
? Authors: Benevieri A.; Marchesoni M.; Passalacqua M.; Pozzobon P.; Vaccaro L.
? Keywords: DTC | High power | Induction motor | Low frequency ripple torque | Synchronous modulation
? Quartile:
2025:
? Applied Mathematics (Q1, rank 28, percentile 95)
? Electrical and Electronic Engineering (Q1, rank 143, percentile 85)
? Control and Systems Engineering (Q1, rank 58, percentile 84)
? Computer Science Applications (Q1, rank 171, percentile 82)
? Source Id: 18174
? Author Ids: 57226763007;6701827441;57195070159;6601994662;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

3.

? Title: Sensorless Control of Medium Voltage Induction Motor With LC Filter and Long

Cable in Oil Pump Applications

? Venue: IEEE Transactions on Energy Conversion

? Year: 2025

? Type: Journal

? Subtype: Article

? Citations: 2

? Doi: 10.1109/Tec.2024.3433590

? Scopus ID: 2-s2.0-85199493229

? Issn: 08858969

? eISSN: 15580059

? Volume: 40

? Issue: 1

? Pages: 3-15

? Authors: Carbone Lorenzo; Marchesoni Mario; Passalacqua Massimiliano; Postiglione Gianluca; Vaccaro Luis; Vitaloni Carlo

? Keywords: induction motor | luenberger observer | Medium voltage (MV) | oil pump application | sensorless control

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 62, percentile 93)

? Energy Engineering and Power Technology (Q1, rank 30, percentile 90)

? Source Id: 28824

? Author Ids: 57324886200;6701827441;57195070159;15623703800;21935399500;59233388900

? Authoraffiliationids: 60025153;60025153;60025153;132274478;60025153;132274478

? Corresponding: Carbone L.

4.

? Title: A Fast Model-Based Control for a Double-Input Three-Switch Bidirectional DC-DC Converter

? Venue: IEEE Transactions on Industry Applications

? Year: 2025

? Type: Journal

? Subtype: Article

? Citations: 0

? Doi: 10.1109/Tia.2025.3618221

? Scopus ID: 2-s2.0-105018374326

? Issn: 00939994

? eISSN: 19399367

? Authors: Benevieri A.; Passalacqua M.; Formentini A.; Vaccaro L.; Marchesoni M.

? Quartile:

2025:

? Control and Systems Engineering (Q1, rank 38, percentile 90)

? Electrical and Electronic Engineering (Q1, rank 102, percentile 89)

? Industrial and Manufacturing Engineering (Q1, rank 49, percentile 88)

? Source Id: 17361

? Author Ids: 57226763007;57195070159;55370605300;21935399500;6701827441

? Corresponding: Benevieri A.

5.

? Title: Hybrid Energy Storage Systems for Plug-in Fuel Cell Electric Vehicle

? Venue: 2025 International Conference on Clean Electrical Power Iccep 2025

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Iccep65222.2025.11143723

? Scopus ID: 2-s2.0-105016628730
? Pages: 823-829
? Authors: Cosso Simone; Benevieri Alessandro; Passalacqua Massimiliano; Vaccaro Luis; Formentini Andrea; Marchesoni Mario
? Keywords: Battery systems | DC-DC converters | EVs | FCEVs | Supercapacitors
? Source Id: 21101333300
? Author Ids: 57324695200;57226763007;57195070159;21935399500;55370605300;6701827441
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Cosso S.

6.

? Title: Advances and Perspectives in Multilevel Converters: A Comprehensive Review
? Venue: Electronics Switzerland
? Year: 2024
? Type: Journal
? Subtype: Review
? Citations: 6
? DOI: 10.3390/electronics13234736
? Scopus ID: 2-s2.0-85211943269
? eISSN: 20799292
? Volume: 13
? Issue: 23
? Authors: Benevieri Alessandro; Cosso Simone; Formentini Andrea; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: high-power applications | medium-voltage drives | modulation | multilevel converters (MLCs) | power converters | power electronics | topologies | voltage source inverter (VSI)
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2024:
? Electrical and Electronic Engineering (Q1, rank 228, percentile 76)
? Signal Processing (Q1, rank 44, percentile 76)
? Control and Systems Engineering (Q1, rank 93, percentile 75)
? Computer Networks and Communications (Q2, rank 137, percentile 73)
? Hardware and Architecture (Q2, rank 62, percentile 72)
? Source Id: 21100829272
? Author Ids: 57226763007;57324695200;55370605300;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

7.

? Title: A New Topology of Multi-Input Bidirectional DC-DC Converters for Hybrid Energy Storage Systems
? Venue: Energies
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 4
? DOI: 10.3390/en17205120
? Scopus ID: 2-s2.0-85207391518
? eISSN: 19961073

? Volume: 17
? Issue: 20
? Authors: Cosso Simone; Benevieri Alessandro; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Pozzobon Paolo
? Keywords: DC-DC converter | hybrid electric vehicle (HEV) | hybrid energy storage system (HESS) | multi-input topology
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
2024:
? Control and Optimization (Q1, rank 15, percentile 90)
? Engineering (miscellaneous) (Q1, rank 39, percentile 85)
? Electrical and Electronic Engineering (Q1, rank 173, percentile 82)
? Energy Engineering and Power Technology (Q1, rank 73, percentile 75)
? Fuel Technology (Q2, rank 38, percentile 71)
? Energy (miscellaneous) (Q2, rank 32, percentile 68)
? Renewable Energy, Sustainability and the Environment (Q2, rank 105, percentile 64)
? Source Id: 62932
? Author Ids: 57324695200;57226763007;6701827441;57195070159;21935399500;6601994662
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Cosso S.

8.
? Title: H2-LMI-Based High Performance Control for Matrix Converter
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 1
? Doi: 10.1109/Tie.2023.3333014
? Scopus ID: 2-s2.0-85179786373
? Issn: 02780046
? eISSN: 15579948
? Volume: 71
? Issue: 9
? Pages: 10029-10038
? Authors: Carbone Lorenzo; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Formentini Andrea
? Keywords: matrix converter (MC) | rmH2-linear matrix inequality (LMI) optimal control
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
? Control and Systems Engineering (Q1, rank 17, percentile 95)
2024:
? Electrical and Electronic Engineering (Q1, rank 36, percentile 96)
? Control and Systems Engineering (Q1, rank 16, percentile 95)
? Source Id: 26053
? Author Ids: 57324886200;6701827441;57195070159;21935399500;55370605300
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Carbone L.

9.

? Title: A New Feed-Forward Control for Dynamics Improvement in a Dual-Input DC?DC Converter for Hybrid Vehicle Applications

? Venue: Energies

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 3

? DOI: 10.3390/en17092170

? Scopus ID: 2-s2.0-85192750704

? eISSN: 19961073

? Volume: 17

? Issue: 9

? Authors: Benevieri Alessandro; Carbone Lorenzo; Cosso Simone; Marchesoni Mario; Passalacqua Massimiliano; Savio Stefano; Vaccaro Luis

? Keywords: control strategy | DCM | DC?DC converter | feed forward | multi-input converter

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)

? Engineering (miscellaneous) (Q1, rank 38, percentile 86)

? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)

? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)

? Fuel Technology (Q2, rank 40, percentile 70)

? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)

? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2024:

? Control and Optimization (Q1, rank 15, percentile 90)

? Engineering (miscellaneous) (Q1, rank 39, percentile 85)

? Electrical and Electronic Engineering (Q1, rank 173, percentile 82)

? Energy Engineering and Power Technology (Q1, rank 73, percentile 75)

? Fuel Technology (Q2, rank 38, percentile 71)

? Energy (miscellaneous) (Q2, rank 32, percentile 68)

? Renewable Energy, Sustainability and the Environment (Q2, rank 105, percentile 64)

? Source Id: 62932

? Author Ids:

57226763007;57324886200;57324695200;6701827441;57195070159;7004161333;21935399500

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153

? Corresponding: Benevieri A.

10.

? Title: High efficiency control of AC-DC Matrix based buck converters: DCM modulation

? Venue: 2024 IEEE Energy Conversion Congress and Exposition Ecce 2024 Proceedings

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Ecce55643.2024.10861334

? Scopus ID: 2-s2.0-86000451001

? Pages: 4112-4118

? Authors: Rodkin Dmytro; Formentini Andrea; Passalacqua Massimiliano; Vaccaro Luis; Marchesoni Mario

? Keywords: AC-DC matrix converter | Discontinuous conduction mode (DCM)

? Source Id: 21101281529

? Author Ids: 59680007700;55370605300;57195070159;21935399500;6701827441

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Rodkin D.

11.

? Title: A Fast Model-Based Control for a Double-Input Three-Switch Bidirectional DC-DC Converter

? Venue: 2024 IEEE Energy Conversion Congress and Exposition Ecce 2024 Proceedings

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Ecce55643.2024.10861341

? Scopus ID: 2-s2.0-86000438523

? Pages: 4151-4157

? Authors: Benevieri Alessandro; Passalacqua Massimiliano; Formentini Andrea; Vaccaro Luis; Marchesoni Mario

? Keywords: control strategy | DC-DC Converter | discontinuous conduction mode (DCM) | efficiency | multi-input converter

? Source Id: 21101281529

? Author Ids: 57226763007;57195070159;55370605300;21935399500;6701827441

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Benevieri A.

12.

? Title: Medium Voltage Sensorless Induction Motor Drive for Subsea Applications

? Venue: 2024 International Conference on Electrical Machines ICEM 2024

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Icem60801.2024.10700411

? Scopus ID: 2-s2.0-85207502241

? Authors: Carbone Lorenzo; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Induction Motor | Luenberger Observer | Medium Voltage (MV) | Oil Pump Application | Sensorless Control

? Source Id: 21101255662

? Author Ids: 57324886200;6701827441;57195070159;21935399500

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Carbone L.

13.

? Title: Modeling the Effect of Air-Gap Length and Number of Turns on Ferrite-Core Inductors Working up to Magnetic Saturation in a Buck Converter

? Venue: IEEE Transactions on Circuits and Systems I Regular Papers

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 5

? Doi: 10.1109/Tcsi.2024.3421261

? Scopus ID: 2-s2.0-85204943069

? Issn: 15498328

? eISSN: 15580806

? Volume: 71

? Issue: 12

? Pages: 5400-5409

? Authors: Ravera Alessandro; Formentini Andrea; Lodi Matteo; Oliveri Alberto;

Passalacqua Massimiliano; Storace Marco

? Keywords: gapped ferrite core | magnetic saturation | nonlinear circuit model | Power inductor

? Quartile:

2025:

? Engineering (all) (Q1, rank 28, percentile 92)

2024:

? Engineering (all) (Q1, rank 24, percentile 93)

? Source Id: 11000153733

? Author Ids: 57214792545;55370605300;57200266678;57200399832;57195070159;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

14.

? Title: Stability Issues in V/f Controlled Medium Voltage Induction Motor Drives Considering Magnetizing Inductance Variation

? Venue: IEEE Transactions on Energy Conversion

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 6

? Doi: 10.1109/Tec.2023.3288673

? Scopus ID: 2-s2.0-85163516463

? Issn: 08858969

? eISSN: 15580059

? Volume: 38

? Issue: 4

? Pages: 2909-2918

? Authors: Cosso Simone; Kumar Krishneel; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Electrical drives | induction motor | stability | V/F control

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 62, percentile 93)

? Energy Engineering and Power Technology (Q1, rank 30, percentile 90)

2023:

? Electrical and Electronic Engineering (Q1, rank 77, percentile 90)

? Energy Engineering and Power Technology (Q1, rank 35, percentile 87)

? Source Id: 28824

? Author Ids: 57324695200;57438065800;6701827441;57195070159;21935399500

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Cosso S.

15.

? Title: Double input DC-DC converter for highly flexible and reliable Battery Storage Systems

? Venue: E3s Web of Conferences

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1051/e3sconf/202341401006

? Scopus ID: 2-s2.0-85178325957

? Issn: 25550403

? eISSN: 22671242

? Volume: 414

? Authors: Benevieri Alessandro; Carbone Lorenzo; Cosso Simone; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Source Id: 21100795900
? Author Ids: 57226763007;57324886200;57324695200;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

16.

? Title: Sensorless Control with Switching Frequency Square Wave Voltage Injection for SPMSM with Low Rotor Magnetic Anisotropy
? Venue: IEEE Transactions on Power Electronics
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 28
? Doi: 10.1109/Tpel.2023.3270357
? Scopus ID: 2-s2.0-85159695527
? Issn: 08858993
? eISSN: 19410107
? Volume: 38
? Issue: 8
? Pages: 10060-10072
? Authors: Benevieri Alessandro; Formentini Andrea; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: High-frequency (HF) injection | sensorless control | square-wave injection | surface permanent magnet synchronous motor (SPMSM)
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)
2023:
? Electrical and Electronic Engineering (Q1, rank 37, percentile 95)
? Source Id: 26055
? Author Ids: 57226763007;55370605300;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

17.

? Title: Model Predictive Control of a Double Input Bidirectional Boost DC-DC Converter
? Venue: 2023 25th European Conference on Power Electronics and Applications EPE 2023 Ecce Europe
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.23919/EPE23ECCEEurope58414.2023.10264606
? Scopus ID: 2-s2.0-85175145117
? Authors: Benevieri Alessandro; Formentini Andrea; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Bi-directional converters | DC-DC converter | Double-input converter
? Source Id: 21101184577
? Author Ids: 57226763007;55370605300;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

18.

? Title: Surface Permanent Magnet Synchronous Motors? Passive Sensorless Control: A Review

? Venue: Energies
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.3390/en15207747
? Scopus ID: 2-s2.0-85140610785
? eISSN: 19961073
? Volume: 15
? Issue: 20
? Authors: Benevieri Alessandro; Carbone Lorenzo; Cosso Simone; Kumar Krishneel; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: permanent magnet synchronous motors (PMSM) | review | sensorless control
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
2022:
? Control and Optimization (Q1, rank 21, percentile 83)
? Engineering (miscellaneous) (Q1, rank 27, percentile 82)
? Electrical and Electronic Engineering (Q2, rank 197, percentile 73)
? Energy Engineering and Power Technology (Q2, rank 77, percentile 69)
? Energy (miscellaneous) (Q2, rank 18, percentile 67)
? Fuel Technology (Q2, rank 39, percentile 67)
? Renewable Energy, Sustainability and the Environment (Q2, rank 103, percentile 56)
? Source Id: 62932
? Author Ids:
57226763007;57324886200;57324695200;57438065800;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

19.

? Title: A State-Space Approach to the Modelling and Control of the Neutral Leg of a Four Legs, Three-Phase Inverter
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 8
? Doi: 10.1109/Tie.2021.3070495
? Scopus ID: 2-s2.0-85103880162
? Issn: 02780046
? eISSN: 15579948
? Volume: 69
? Issue: 4
? Pages: 4056-4064
? Authors: Passalacqua Massimiliano; Grosjean Gislain; Kissling Simon; Bozorg Mokhtar; Marchesoni Mario; Carpita Mauro
? Keywords: Neutral leg control | split dc-bus | three-phase four-wire inverter
? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)

? Control and Systems Engineering (Q1, rank 17, percentile 95)

2022:

? Electrical and Electronic Engineering (Q1, rank 22, percentile 97)

? Control and Systems Engineering (Q1, rank 9, percentile 97)

? Source Id: 26053

? Author Ids: 57195070159;57222733872;57189070776;36466107400;6701827441;6603270189

? Authoraffiliationids: 60025153;60101868;60101868;60101868;60025153;60101868

? Corresponding: Passalacqua M.

20.

? Title: Experimental Low-Speed Performance Evaluation and Comparison of Sensorless Passive Algorithms for SPMSM

? Venue: IEEE Transactions on Energy Conversion

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 25

? Doi: 10.1109/Tec.2021.3101583

? Scopus ID: 2-s2.0-85112608002

? Issn: 08858969

? eISSN: 15580059

? Volume: 37

? Issue: 1

? Pages: 654-664

? Authors: Benevieri Alessandro; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Permanent magnet synchronous motors (PMSM) | Sensorless control | Speed control

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 62, percentile 93)

? Energy Engineering and Power Technology (Q1, rank 30, percentile 90)

2022:

? Electrical and Electronic Engineering (Q1, rank 76, percentile 89)

? Energy Engineering and Power Technology (Q1, rank 30, percentile 88)

? Source Id: 28824

? Author Ids: 57226763007;6701827441;57195070159;21935399500

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Benevieri A.

21.

? Title: Induction Motor Field-Oriented Sensorless Control with Filter and Long Cable

? Venue: Energies

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 12

? DOI: 10.3390/en15041484

? Scopus ID: 2-s2.0-85125071541

? eISSN: 19961073

? Volume: 15

? Issue: 4

? Authors: Carbone Lorenzo; Cosso Simone; Kumar Krishneel; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Cable compensation | Eigenvalues | Field-oriented control | Induction motor drive | Long cable | Luenberger observer | Sensorless control | Speed estimation | Stability analysis | Submarine pump

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)

? Engineering (miscellaneous) (Q1, rank 38, percentile 86)

? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)

? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)

? Fuel Technology (Q2, rank 40, percentile 70)

? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)

? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2022:

? Control and Optimization (Q1, rank 21, percentile 83)

? Engineering (miscellaneous) (Q1, rank 27, percentile 82)

? Electrical and Electronic Engineering (Q2, rank 197, percentile 73)

? Energy Engineering and Power Technology (Q2, rank 77, percentile 69)

? Energy (miscellaneous) (Q2, rank 18, percentile 67)

? Fuel Technology (Q2, rank 39, percentile 67)

? Renewable Energy, Sustainability and the Environment (Q2, rank 103, percentile 56)

? Source Id: 62932

? Author Ids: 57324886200;57324695200;57438065800;6701827441;57195070159;21935399500

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153

? Corresponding: Carbone L.

22.

? Title: Stability Analysis of Open-Loop V/Hz Controlled Asynchronous Machines and Two Novel Mitigation Strategies for Oscillations Suppression

? Venue: Energies

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 14

? DOI: 10.3390/en15041404

? Scopus ID: 2-s2.0-85124875347

? eISSN: 19961073

? Volume: 15

? Issue: 4

? Authors: Carbone Lorenzo; Cosso Simone; Kumar Krishneel; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Active damping | Eigenvalues | Induction motor drive | Instability | Oscillations | Small-signal model | Stability analysis | V/Hz control

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)

? Engineering (miscellaneous) (Q1, rank 38, percentile 86)

? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)

? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)

? Fuel Technology (Q2, rank 40, percentile 70)

? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)

? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2022:

? Control and Optimization (Q1, rank 21, percentile 83)

? Engineering (miscellaneous) (Q1, rank 27, percentile 82)

? Electrical and Electronic Engineering (Q2, rank 197, percentile 73)

? Energy Engineering and Power Technology (Q2, rank 77, percentile 69)
? Energy (miscellaneous) (Q2, rank 18, percentile 67)
? Fuel Technology (Q2, rank 39, percentile 67)
? Renewable Energy, Sustainability and the Environment (Q2, rank 103, percentile 56)
? Source Id: 62932
? Author Ids: 57324886200;57324695200;57438065800;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Carbone L.

23.

? Title: A fast control for a three-switch multi-input DC-DC converter
? Venue: 24th European Conference on Power Electronics and Applications EPE 2022 Ecce Europe
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Scopus ID: 2-s2.0-85141581126
? Authors: Cosso Simone; Formentini Andrea; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: CCM | DC-DC Converter | DCM | Feed-Forward | Power Converters
? Source Id: 21101119900
? Author Ids: 57324695200;55370605300;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Cosso S.

24.

? Title: Experimental Assessment of Power Converters Control Strategies for Shipboard Microgrids
? Venue: 2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2022
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/EEEIC/ICPSEurope54979.2022.9854761
? Scopus ID: 2-s2.0-85137987811
? Authors: Schiapparelli Giacomo Piero; Passalacqua Massimiliano; D'Agostino Fabio; Vaccaro Luis; Marchesoni Mario; Silvestro Federico
? Keywords: experimental setup | Grid-following con-verters | Grid-forming converters | shipboard microgrids
? Source Id: 21101107964
? Author Ids: 57204003255;57195070159;56553864200;21935399500;6701827441;23026343700
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Schiapparelli G.P.

25.

? Title: Sensorless Control Exploiting PWM Ripple in PMSM with Low Anisotropy
? Venue: 2022 International Symposium on Power Electronics Electrical Drives Automation and Motion Speedam 2022
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Speedam53979.2022.9842129
? Scopus ID: 2-s2.0-85136221181

? Pages: 235-239
? Authors: Benevieri Alessandro; Cosso Simone; Formentini Andrea; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: HF injection | Sensorless control | SPMSM | square-wave injection
? Source Id: 21101101911
? Author Ids: 57226763007;57324695200;55370605300;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

26.

? Title: Series architecture on hybrid electric vehicles: A review
? Venue: Energies
? Year: 2021
? Type: Journal
? Subtype: Review
? Citations: 10
? DOI: 10.3390/en14227672
? Scopus ID: 2-s2.0-85121029388
? eISSN: 19961073
? Volume: 14
? Issue: 22
? Authors: Benevieri Alessandro; Carbone Lorenzo; Cosso Simone; Kumar Krishneel; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Fuel economy | Hybrid Electric Vehicle (HEV) | Powertrain efficiency | Series architecture | Silicon Carbide (SiC) | Supercapacitor | Turbocompound
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
2021:
? Control and Optimization (Q1, rank 18, percentile 85)
? Engineering (miscellaneous) (Q1, rank 19, percentile 83)
? Subject (Q1, rank 51, percentile 76)
? Energy (miscellaneous) (Q2, rank 10, percentile 72)
? Electrical and Electronic Engineering (Q2, rank 201, percentile 71)
? Energy Engineering and Power Technology (Q2, rank 73, percentile 69)
? Fuel Technology (Q2, rank 38, percentile 65)
? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 58)
? Source Id: 62932
? Author Ids:
57226763007;57324886200;57324695200;57438065800;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

27.

? Title: State?space approach for spmsm sensorless passive algorithm tuning
? Venue: Energies
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 2

? DOI: 10.3390/en14217180
 ? Scopus ID: 2-s2.0-85118530745
 ? eISSN: 19961073
 ? Volume: 14
 ? Issue: 21
 ? Authors: Carbone Lorenzo; Cosso Simone; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
 ? Keywords: Permanent Magnet Synchronous Motors (PMSM) | Rotor flux observer | Sensorless control | Speed control | Stability analysis
 ? Quartile:
 2025:
 ? Control and Optimization (Q1, rank 11, percentile 94)
 ? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
 ? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
 ? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
 ? Fuel Technology (Q2, rank 40, percentile 70)
 ? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
 ? Energy (miscellaneous) (Q2, rank 39, percentile 64)
 2021:
 ? Control and Optimization (Q1, rank 18, percentile 85)
 ? Engineering (miscellaneous) (Q1, rank 19, percentile 83)
 ? Subject (Q1, rank 51, percentile 76)
 ? Energy (miscellaneous) (Q2, rank 10, percentile 72)
 ? Electrical and Electronic Engineering (Q2, rank 201, percentile 71)
 ? Energy Engineering and Power Technology (Q2, rank 73, percentile 69)
 ? Fuel Technology (Q2, rank 38, percentile 65)
 ? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 58)
 ? Source Id: 62932
 ? Author Ids: 57324886200;57324695200;6701827441;57195070159;21935399500
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
 ? Corresponding: Carbone L.

28.

? Title: A New Modulation Strategy for Exploiting Discontinuous Conduction Mode in a Double-Input Three-Switch Bidirectional DC-DC Converter
 ? Venue: IEEE Transactions on Industrial Electronics
 ? Year: 2021
 ? Type: Journal
 ? Subtype: Article
 ? Citations: 15
 ? Doi: 10.1109/Tie.2020.3038059
 ? Scopus ID: 2-s2.0-85096868481
 ? Issn: 02780046
 ? eISSN: 15579948
 ? Volume: 68
 ? Issue: 11
 ? Pages: 10815-10825
 ? Authors: Passalacqua Massimiliano; Marchesoni Mario; Vaccaro Luis
 ? Keywords: DC-DC converter | discontinuous conduction mode (DCM) | efficiency | modulation strategy | multiinput converter
 ? Quartile:
 2025:
 ? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
 ? Control and Systems Engineering (Q1, rank 17, percentile 95)
 2021:

? Control and Systems Engineering (Q1, rank 6, percentile 97)
? Electrical and Electronic Engineering (Q1, rank 20, percentile 97)
? Source Id: 26053
? Author Ids: 57195070159;6701827441;21935399500
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Passalacqua M.

29.

? Title: Development and Evaluation of Sensorless Control Systems for SPMSM Drives in the Extreme Low-Speed Region
? Venue: 2021 23rd European Conference on Power Electronics and Applications EPE 2021 Ecce Europe
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-85119066418
? Authors: Benevieri Alessandro; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Control of drive | Electrical drive | Estimation technique | Permanent magnet motor | Sensorless control
? Source Id: 21101065464
? Author Ids: 57226763007;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

30.

? Title: Induction motor direct torque control with synchronous PWM
? Venue: Energies
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 8
? DOI: 10.3390/en14165025
? Scopus ID: 2-s2.0-85113255669
? eISSN: 19961073
? Volume: 14
? Issue: 16
? Authors: Benevieri Alessandro; Maragliano Gianmarco; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Direct torque control | Induction motor drive | Synchronous PWM
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
2021:
? Control and Optimization (Q1, rank 18, percentile 85)
? Engineering (miscellaneous) (Q1, rank 19, percentile 83)
? Subject (Q1, rank 51, percentile 76)
? Energy (miscellaneous) (Q2, rank 10, percentile 72)
? Electrical and Electronic Engineering (Q2, rank 201, percentile 71)

? Energy Engineering and Power Technology (Q2, rank 73, percentile 69)
? Fuel Technology (Q2, rank 38, percentile 65)
? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 58)
? Source Id: 62932
? Author Ids: 57226763007;36778746300;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Benevieri A.

31.

? Title: Modulating Signals Effect on Capacitor Voltage Ripple in Full Bridge Modular Multilevel Converters
? Venue: 2021 Aeit Hvdc International Conference Aeit Hvdc 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Aeithvdc52364.2021.9474595
? Scopus ID: 2-s2.0-85112867086
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Bordignon Paolo
? Keywords: Full Bridge Cell | HVDC | MMC | Voltage Ripple
? Source Id: 21101056105
? Author Ids: 6701827441;57195070159;21935399500;6603367451
? Authoraffiliationids: 60025153;60025153;60025153;126760071
? Corresponding: Marchesoni M.

32.

? Title: Currents and Torque Oscillations Mitigation in High Power Induction Motor Drives
? Venue: 2021 IEEE 15th International Conference on Compatibility Power Electronics and Power Engineering Cpe Powereng 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1109/Cpe-Powereng50821.2021.9501186
? Scopus ID: 2-s2.0-85124908491
? Authors: Kumar Krishneel; Marchesoni Mario; Maule Zeno; Passalacqua Massimiliano; Soso Francesco; Vaccaro Luis
? Keywords: Compensation | Induction motor | Instability | Speed control | Torque oscillation | V/Hz
? Source Id: 21101076702
? Author Ids: 57438065800;6701827441;57458767100;57195070159;35249557100;21935399500
? Authoraffiliationids: 60025153;60025153;60122276;60025153;60122276;60025153
? Corresponding: Kumar K.

33.

? Title: A High-Efficiency Control of a Double-Input Converter for Renewable Energies and Hybrid Vehicles
? Venue: 2020 22nd European Conference on Power Electronics and Applications EPE 2020 Ecce Europe
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.23919/EPE20ECCEEurope43536.2020.9215752
? Scopus ID: 2-s2.0-85094911821
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Converter control | Efficiency | Electric vehicle | Smart grids
? Source Id: 21101024171
? Author Ids: 6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Marchesoni M.

34.

? Title: An improved control strategy for an innovative DC-DC converter for interfacing energy storage systems
? Venue: 2020 International Symposium on Power Electronics Electrical Drives Automation and Motion Speedam 2020
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Speedam48782.2020.9161905
? Scopus ID: 2-s2.0-85091156136
? Pages: 811-815
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Conversion efficiency | DC-DC conversion | Discontinuous Conduction Mode
? Source Id: 21101021766
? Author Ids: 6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Marchesoni M.

35.

? Title: Performance improvement in a sensorless surface-mounted PMSM drive based on rotor flux observer
? Venue: Control Engineering Practice
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 26
? DOI: 10.1016/j.conengprac.2019.104276
? Scopus ID: 2-s2.0-85076675691
? Issn: 09670661
? Volume: 96
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Calvini Marco; Venturini Marco
? Keywords: Permanent magnet motors (PMSM) | Rotor flux observer | Sensorless control | Speed control
? Quartile:
2025:
? Applied Mathematics (Q1, rank 28, percentile 95)
? Electrical and Electronic Engineering (Q1, rank 143, percentile 85)
? Control and Systems Engineering (Q1, rank 58, percentile 84)
? Computer Science Applications (Q1, rank 171, percentile 82)
2020:
? Applied Mathematics (Q1, rank 19, percentile 96)
? Computer Science Applications (Q1, rank 96, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 97, percentile 86)
? Control and Systems Engineering (Q1, rank 38, percentile 85)
? Source Id: 18174
? Author Ids: 6701827441;57195070159;21935399500;14422097400;58351076300
? Authoraffiliationids: 60025153;60025153;60025153;123668789;123668789
? Corresponding: Marchesoni M.

36.

? Title: Turbocompound power unit modelling for a supercapacitor-based series hybrid vehicle application
? Venue: Energies
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 6
? DOI: 10.3390/en13020447
? Scopus ID: 2-s2.0-85078198084
? eISSN: 19961073
? Volume: 13
? Issue: 2
? Authors: Repetto Matteo; Passalacqua Massimiliano; Vaccaro Luis; Marchesoni Mario; Prato Alessandro Pini
? Keywords: Efficiency | Fuel economy | Hybrid electric vehicle (HEV), series architecture | Supercapacitor | Turbocharger | Turbocompound
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
2020:
? Control and Optimization (Q1, rank 17, percentile 85)
? Engineering (miscellaneous) (Q1, rank 13, percentile 83)
? Electrical and Electronic Engineering (Q2, rank 183, percentile 73)
? Energy (miscellaneous) (Q2, rank 7, percentile 72)
? Energy Engineering and Power Technology (Q2, rank 62, percentile 72)
? Fuel Technology (Q2, rank 33, percentile 67)
? Renewable Energy, Sustainability and the Environment (Q2, rank 69, percentile 64)
? Source Id: 62932
? Author Ids: 56264520300;57195070159;21935399500;6701827441;55493328400
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Repetto M.

37.

? Title: A refined loss evaluation of a three-switch double input DC-DC converter for hybrid vehicle applications
? Venue: Energies
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.3390/en13010204
? Scopus ID: 2-s2.0-85077446316
? eISSN: 19961073
? Volume: 13
? Issue: 1
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Battery | DC-DC converter | Efficiency | Hybrid electric vehicle (HEV) | Multi-input converter | Supercapacitor

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)

? Engineering (miscellaneous) (Q1, rank 38, percentile 86)

? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)

? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)

? Fuel Technology (Q2, rank 40, percentile 70)

? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)

? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2020:

? Control and Optimization (Q1, rank 17, percentile 85)

? Engineering (miscellaneous) (Q1, rank 13, percentile 83)

? Electrical and Electronic Engineering (Q2, rank 183, percentile 73)

? Energy (miscellaneous) (Q2, rank 7, percentile 72)

? Energy Engineering and Power Technology (Q2, rank 62, percentile 72)

? Fuel Technology (Q2, rank 33, percentile 67)

? Renewable Energy, Sustainability and the Environment (Q2, rank 69, percentile 64)

? Source Id: 62932

? Author Ids: 6701827441;57195070159;21935399500

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Marchesoni M.

38.

? Title: Solid-state transformers in locomotives fed through AC lines: A review and future developments

? Venue: Energies

? Year: 2019

? Type: Journal

? Subtype: Review

? Citations: 19

? DOI: 10.3390/en12244711

? Scopus ID: 2-s2.0-85076947747

? eISSN: 19961073

? Volume: 12

? Issue: 24

? Authors: Farnesi Stefano; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis

? Keywords: Medium frequency transformer | Modular Multilevel Converter (MMC) | Power electronic transformer | Railway electric traction | Soft-switching | Solid State Transformer (SST)

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)

? Engineering (miscellaneous) (Q1, rank 38, percentile 86)

? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)

? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)

? Fuel Technology (Q2, rank 40, percentile 70)

? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)

? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2019:

? Control and Optimization (Q1, rank 19, percentile 81)

? Energy Engineering and Power Technology (Q2, rank 62, percentile 71)

? Electrical and Electronic Engineering (Q2, rank 208, percentile 69)

? Fuel Technology (Q2, rank 33, percentile 66)

? Energy (miscellaneous) (Q2, rank 9, percentile 63)

? Renewable Energy, Sustainability and the Environment (Q2, rank 72, percentile 60)

? Source Id: 62932
? Author Ids: 54392715100;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Farnesi S.

39.

? Title: Fuel Economy and EMS for a Series Hybrid Vehicle Based on Supercapacitor Storage
? Venue: IEEE Transactions on Power Electronics
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 40
? Doi: 10.1109/Tpel.2019.2895209
? Scopus ID: 2-s2.0-85068677902
? Issn: 08858993
? eISSN: 19410107
? Volume: 34
? Issue: 10
? Pages: 9966-9977
? Authors: Passalacqua Massimiliano; Lanzarotto Damiano; Repetto Matteo; Vaccaro Luis; Bonfiglio Andrea; Marchesoni Mario
? Keywords: Energy efficiency | fuel economy | hybrid electric vehicles (HEVs) | series architecture | supercapacitors
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)
2019:
? Electrical and Electronic Engineering (Q1, rank 19, percentile 97)
? Source Id: 26055
? Author Ids: 57195070159;57195070345;56264520300;21935399500;36607521000;6701827441
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Passalacqua M.

40.

? Title: A new common mode voltage reduction method in a generalized space vector modulator for cascaded multilevel converters
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.23919/Epe.2019.8914889
? Scopus ID: 2-s2.0-85076668962
? Authors: Maragliano Gianmarco; Carpita Mauro; Kissling Simon; Marchesoni Mario; Passalacqua Massimiliano; Pidancier Thomas; Vaccaro Filippo; Vaccaro Luis
? Keywords: Common mode voltage | Multilevel converters | Space Vector Modulation (SVM) | Voltage Source Converter (VSC)
? Source Id: 21100939561
? Author Ids: 36778746300;6603270189;57189070776;6701827441;57195070159;57203972480;57204173615;21935399500
? Authoraffiliationids: 60025153;60101868;60101868;60025153;60025153;60101868;121671530;60025153
? Corresponding: Maragliano G.

41.

? Title: An Improved Low-Noise Sensorless PMSM Drive able to Face Highly Intermittent Load Torque
? Venue: 2019 IEEE 10th International Symposium on Sensorless Control for Electrical Drives Sled 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Sled.2019.8896293
? Scopus ID: 2-s2.0-85075636678
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Calvini Marco; Venturini Marco
? Keywords: Permanent magnet motors (PMSM) | Rotor flux observer | Sensorless control | Speed control
? Source Id: 21100962400
? Author Ids: 6701827441;57195070159;21935399500;14422097400;58351076300
? Authoraffiliationids: 60025153;60025153;60025153;123668789;123668789
? Corresponding: Marchesoni M.

42.

? Title: Low speed performance improvement in a self-commissioned sensorless PMSM drive based on rotor flux observer
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.23919/Epe.2019.8915004
? Scopus ID: 2-s2.0-85075632529
? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Calvini Marco; Venturini Marco
? Keywords: Permanent Magnet Synchronous Motor (PMSM) | Rotor flux observer | Self-commissioning | Sensorless control | Speed control
? Source Id: 21100958234
? Author Ids: 6701827441;57195070159;21935399500;14422097400;58351076300
? Authoraffiliationids: 60025153;60025153;60025153;123668963;123668963
? Corresponding: Marchesoni M.

43.

? Title: Soft-Switching Power Converters for Efficient Grid Applications
? Venue: Proceedings 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/Eeeic.2019.8783409
? Scopus ID: 2-s2.0-85070835514
? Authors: Farnesi Stefano; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
? Keywords: Grid Integration | Medium Voltage Converter | Modular Multilevel Converter | Soft Switching | Solid State Transformer
? Source Id: 21100924363
? Author Ids: 54392715100;6701827441;57195070159;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153

- ? Corresponding: Farnesi S.
- 44.
- ? Title: Supercapacitor storage sizing analysis for a series hybrid vehicle
- ? Venue: Energies
- ? Year: 2019
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 15
- ? DOI: 10.3390/en12091759
- ? Scopus ID: 2-s2.0-85065866430
- ? eISSN: 19961073
- ? Volume: 12
- ? Issue: 9
- ? Authors: Passalacqua Massimiliano; Carpita Mauro; Gavin Serge; Marchesoni Mario; Repetto Matteo; Vaccaro Luis; Wasterlain S[^]bastien
- ? Keywords: Energy efficiency | Energy Management System (EMS) | Hybrid Electric Vehicle (HEV) | Series architecture | Storage sizing | Supercapacitor
- ? Quartile:
- 2025:
- ? Control and Optimization (Q1, rank 11, percentile 94)
- ? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
- ? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
- ? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
- ? Fuel Technology (Q2, rank 40, percentile 70)
- ? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
- ? Energy (miscellaneous) (Q2, rank 39, percentile 64)
- 2019:
- ? Control and Optimization (Q1, rank 19, percentile 81)
- ? Energy Engineering and Power Technology (Q2, rank 62, percentile 71)
- ? Electrical and Electronic Engineering (Q2, rank 208, percentile 69)
- ? Fuel Technology (Q2, rank 33, percentile 66)
- ? Energy (miscellaneous) (Q2, rank 9, percentile 63)
- ? Renewable Energy, Sustainability and the Environment (Q2, rank 72, percentile 60)
- ? Source Id: 62932
- ? Author Ids:
- 57195070159;6603270189;36650500300;6701827441;56264520300;21935399500;59890575100
- ? Authoraffiliationids: 60025153;60101868;60101868;60025153;60025153;60025153;60101868
- ? Corresponding: Passalacqua M.
- 45.
- ? Title: Capacitor voltage ripple minimization in voltage source converter for HVDC applications
- ? Venue: 2019 Aeit Hvdc International Conference Aeit Hvdc 2019
- ? Year: 2019
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 4
- ? Doi: 10.1109/Aeit-Hvdc.2019.8740647
- ? Scopus ID: 2-s2.0-85068558901
- ? Authors: Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis; Carpita Mauro; Gavin Serge; Kissling Simon
- ? Keywords: Efficiency | HVDC | MMC | Multilevel converters | Voltage ripple reduction
- ? Source Id: 21100915608
- ? Author Ids: 6701827441;57195070159;21935399500;6603270189;36650500300;57189070776
- ? Authoraffiliationids: 60025153;60025153;60025153;60101868;60101868;60101868

- ? Corresponding: Marchesoni M.
- 46.
- ? Title: Soft-switching cells for Modular Multilevel Converters for efficient grid integration of renewable sources
- ? Venue: Aims Energy
- ? Year: 2019
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 2
- ? DOI: 10.3934/energy.2019.3.246
- ? Scopus ID: 2-s2.0-85066999039
- ? Issn: 23338326
- ? eISSN: 23338334
- ? Volume: 7
- ? Issue: 3
- ? Pages: 246-263
- ? Authors: Farnesi Stefano; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Luis
- ? Keywords: Grid integration | Medium voltage converter | Modular Multilevel Converter | Soft switching | Solid state transformer
- ? Quartile:
- 2025:
- ? Energy Engineering and Power Technology (Q2, rank 128, percentile 60)
- ? Fuel Technology (Q2, rank 60, percentile 56)
- ? Renewable Energy, Sustainability and the Environment (Q3, rank 172, percentile 44)
- 2019:
- ? Energy Engineering and Power Technology (Q3, rank 133, percentile 38)
- ? Fuel Technology (Q3, rank 66, percentile 33)
- ? Renewable Energy, Sustainability and the Environment (Q3, rank 127, percentile 29)
- ? Source Id: 21100836837
- ? Author Ids: 54392715100;6701827441;57195070159;21935399500
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153
- ? Corresponding: Farnesi S.
- 47.
- ? Title: Transformer Inrush Currents in a NPC Based Converter System for Cold Ironing Applications
- ? Venue: 2018 20th European Conference on Power Electronics and Applications EPE 2018 Ecce Europe
- ? Year: 2018
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Scopus ID: 2-s2.0-85057056879
- ? Authors: Mantegazza Emanuele; Marchesoni Mario; Passalacqua Massimiliano; Vaccaro Filippo; Vaccaro Luis
- ? Keywords: AC/AC converter | Interleaved converters | Multilevel converters | Voltage Source Converter (VSC)
- ? Source Id: 21100887401
- ? Author Ids: 57204173047;6701827441;57195070159;57204173615;21935399500
- ? Authoraffiliationids: 121671530;60025153;60025153;121671530;60025153
- ? Corresponding: Mantegazza E.
- 48.
- ? Title: Overview of different hybrid vehicle architectures
- ? Year: 2018
- ? Type: Conference Proceeding

? Subtype: Conference Paper
? Citations: 44
? DOI: 10.1016/j.ifacol.2018.07.036
? Scopus ID: 2-s2.0-85050146720
? eISSN: 24058963
? Volume: 51
? Issue: 9
? Pages: 218-222
? Authors: Lanzarotto D.; Marchesoni M.; Passalacqua M.; Prato A. Pini; Repetto M.
? Keywords: energy efficiency | hybrid electric vehicle | parallel architecture | series architecture | silicon carbide (SiC) | supercapacitor
? Quartile:
2025:
? Control and Systems Engineering (Q3, rank 218, percentile 42)
2018:
? Control and Systems Engineering (Q3, rank 161, percentile 32)
? Author Ids: 57195070345;6701827441;57195070159;55493328400;56264520300
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Lanzarotto D.

49.

? Title: Conceptual design upgrade on hybrid powertrains resulting from electric improvements
? Venue: International Journal of Transport Development and Integration
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 14
? Doi: 10.2495/Tdi-V2-N2-146-154
? Scopus ID: 2-s2.0-85050069606
? Issn: 20588305
? eISSN: 20588313
? Volume: 2
? Issue: 2
? Pages: 146-154
? Authors: Passalacqua M.; Lanzarotto D.; Repetto M.; Marchesoni M.
? Keywords: Hybrid vehicle | Parallel architecture | Powertrain efficiency | Series architecture | Supercapacitor
? Quartile:
2025:
? Automotive Engineering (Q2, rank 66, percentile 51)
? Civil and Structural Engineering (Q3, rank 248, percentile 40)
? Transportation (Q3, rank 102, percentile 35)
? Source Id: 21100922651
? Author Ids: 57195070159;57195070345;56264520300;6701827441
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Passalacqua M.

50.

? Title: Energy comparison between different parallel hybrid vehicles architectures
? Venue: International Journal of Energy Production and Management
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 13
? Doi: 10.2495/Eq-V2-N4-370-380

? Scopus ID: 2-s2.0-85050165996
? Issn: 20563272
? eISSN: 20563280
? Volume: 2
? Issue: 4
? Pages: 370-380
? Authors: Lanzarotto D.; Passalacqua M.; Repetto M.
? Keywords: Continuously variable transmission | Hybrid vehicle | Parallel architecture
| Powertrain efficiency
? Quartile:
2025:
? Sociology and Political Science (Q2, rank 392, percentile 74)
? Energy Engineering and Power Technology (Q2, rank 160, percentile 51)
? Renewable Energy, Sustainability and the Environment (Q3, rank 196, percentile 37)
? Global and Planetary Change (Q3, rank 84, percentile 35)
? Source Id: 21100903414
? Author Ids: 57195070345;57195070159;56264520300
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Lanzarotto D.

51.

? Title: Electrical-loss analysis of power-split hybrid electric vehicles
? Venue: Energies
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 18
? DOI: 10.3390/en10122142
? Scopus ID: 2-s2.0-85041452438
? eISSN: 19961073
? Volume: 10
? Issue: 12
? Authors: Bonfiglio Andrea; Lanzarotto Damiano; Marchesoni Mario; Passalacqua Massimiliano; Procopio Renato; Repetto Matteo
? Keywords: Continuously variable transmission | Electric machine | Energy efficiency | Hybrid electric vehicle | Hybrid synergy drive | Power-split device
? Quartile:
2025:
? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
2017:
? Control and Optimization (Q1, rank 18, percentile 80)
? Energy Engineering and Power Technology (Q2, rank 55, percentile 73)
? Electrical and Electronic Engineering (Q2, rank 202, percentile 69)
? Energy (miscellaneous) (Q2, rank 7, percentile 63)
? Renewable Energy, Sustainability and the Environment (Q2, rank 67, percentile 55)
? Source Id: 62932
? Author Ids: 36607521000;57195070345;6701827441;57195070159;7801615894;56264520300
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Bonfiglio A.

52.

? Title: Advantages of using supercapacitors and silicon carbide on hybrid vehicle series architecture

? Venue: Energies

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 20

? DOI: 10.3390/en10070920

? Scopus ID: 2-s2.0-85025175637

? eISSN: 19961073

? Volume: 10

? Issue: 7

? Authors: Passalacqua Massimiliano; Lanzarotto Damiano; Repetto Matteo; Marchesoni Mario

? Keywords: Fuel economy | Hybrid vehicle | Power electronics | Series architecture | SiC | Supercapacitor

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)

? Engineering (miscellaneous) (Q1, rank 38, percentile 86)

? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)

? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)

? Fuel Technology (Q2, rank 40, percentile 70)

? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)

? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2017:

? Control and Optimization (Q1, rank 18, percentile 80)

? Energy Engineering and Power Technology (Q2, rank 55, percentile 73)

? Electrical and Electronic Engineering (Q2, rank 202, percentile 69)

? Energy (miscellaneous) (Q2, rank 7, percentile 63)

? Renewable Energy, Sustainability and the Environment (Q2, rank 67, percentile 55)

? Source Id: 62932

? Author Ids: 57195070159;57195070345;56264520300;6701827441

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Passalacqua M.