

FORMENTINI ANDREA

Overview

- ? Unit: ELE
- ? Role: Professore associato
- ? Grade: Prof.Associato Legge 240/10 - t.pieno - classe 0
- ? SSD: IIND-08/A (Convertitori, macchine e azionamenti elettrici)
- ? Scopus ID: 55370605300
- ? Unige Id: 285599
- ? Retrieved at: 2025-11-14T15:14:54.020551

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- ? Phone: +39 010 335 2729
- ? Page: <https://rubrica.unige.it/personale/V0tCXINg>
- ? Locations: Opera Pia - padiglione D (ED161450401), 1° piano, US161450401.I.032

Career

- ? Ar, 2014-04-01 ? 2015-03-31
- ? Rd, 2020-11-01 ? 2023-10-31
- ? Pa, 2023-11-01 ? 2222-02-02

Teaching

2025

- ? Elettronica Per Ingegneria Elettrica (84372), L-9 - Ingegneria Elettrica
- ? Electric Machines And Maintenance (101140), L-28 - Maritime Science And Technology
- ? Elementi Di Conversione Statica Dell'Energia (107824), L-P03 - Tecnologie Industriali

2024

- ? Elettronica Per Ingegneria Elettrica (84372), L-9 - Ingegneria Elettrica
- ? Controlli Per Azionamenti Elettrici Digitali (106722), Lm-28 - Ingegneria Elettrica
- ? Electric Machines And Maintenance (101140), L-28 - Maritime Science And Technology
- ? Elementi Di Conversione Statica Dell'Energia (107824), L-P03 - Tecnologie Industriali

2023

- ? Elettronica Per Ingegneria Elettrica (84372), L-9 - Ingegneria Elettrica
- ? Controlli Per Azionamenti Elettrici Digitali (106722), Lm-28 - Ingegneria Elettrica
- ? Electric Machines And Maintenance (101140), L-28 - Maritime Science And Technology
- ? Elementi Di Conversione Statica Dell'Energia (107824), L-P03 - Tecnologie Industriali

2022

- ? Controlli Per Azionamenti Elettrici Digitali (106722), Lm-28 - Ingegneria Elettrica
- ? Electric Machines And Maintenance (101140), L-28 - Maritime Science And Technology

2021

- ? Controlli Per Azionamenti Elettrici Digitali (106722), Lm-28 - Ingegneria Elettrica
- ? Electric Machines And Maintenance (101140), L-28 - Maritime Science And Technology

Scopus Metrics

- ? absolute; Docs: 98; Journals: 41; Conferences: 57; Citations: 1765; H-index: 21
- ? 15 years (2010-2025); Docs: 98; Journals: 41; Conferences: 57; Citations: 1765; H-index: 21
- ? 10 years (2015-2025); Docs: 95; Journals: 41; Conferences: 54; Citations: 1737; H-index: 21

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; Cocco 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: 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.

3.

? 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: Cocco 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: Cocco S.

4.

? 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; Cocco 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.

5.

? 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.

6.
? Title: Enhanced Model Predictive Control Strategy for the Three-Phase 5-Level Multiplexed Converter
? Venue: 2024 IEEE Energy Conversion Congress and Exposition Ecce 2024 Proceedings
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Ecce55643.2024.10861030
? Scopus ID: 2-s2.0-86000483280
? Pages: 4061-4067
? Authors: Di Benedetto Marco; Formentini Andrea; Lidozzi Alessandro; Solero Luca; Marchesoni Mario
? Source Id: 21101281529
? Author Ids: 57223905864;55370605300;24766926100;35513447200;6701827441
? Authoraffiliationids: 60012630;60025153;60012630;60012630;60025153
? Corresponding: Di Benedetto M.

7.
? 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.

8.

? Title: Voltage and Current Feedforward Terms Impact in the Stability of Grid-Forming Inverter Systems
? Venue: 2024 IEEE Energy Conversion Congress and Exposition Ecce 2024 Proceedings
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Ecce55643.2024.10860794
? Scopus ID: 2-s2.0-86000443632
? Pages: 4710-4717
? Authors: Benfatto Oriana; Tresca Giulia; Formentini Andrea; Anglani Norma; Cossu Simone; Zanchetta Pericle
? Keywords: Droop Control | Feed-forward Terms | Grid-connected Inverter | Grid-forming Inverter | Right Half-Plane Poles Analysis | State Space Approach | Virtual Impedance
? Source Id: 21101281529
? Author Ids: 59679244000;56602742700;55370605300;6504091676;59679900900;6602830299
? Authoraffiliationids: 60015197;60015197;60025153;60015197;60015197;60015197
? Corresponding: Benfatto O.

9.

? 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.

10.

? Title: Gradient-Based Predictive Pulse Pattern Control for Permanent Magnet Synchronous Motor Drives
? Venue: 2024 IEEE International Conference on Electrical Systems for Aircraft Railway Ship Propulsion and Road Vehicles and International Transportation Electrification Conference Esars Itec 2024
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper

? Citations: 0
? Doi: 10.1109/Esars-Itec60450.2024.10819776
? Scopus ID: 2-s2.0-85216929432
? Authors: Benevieri Alessandro; Karamanakos Petros; Formentini Andrea; Marchesoni Mario
? Keywords: model predictive control (MPC) | optimal modulation | optimized pulse patterns (OPPs) | Permanent magnet synchronous motor (PMSM) drive
? Source Id: 21101272773
? Author Ids: 57226763007;37055806900;55370605300;6701827441
? Authoraffiliationids: 60025153;60011170;60025153;60025153
? Corresponding: Benevieri A.

11.

? 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.

12.

? Title: A nonlinear model of air-gapped ferrite-core inductors for SMPS applications
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Iscas58744.2024.10558476
? Scopus ID: 2-s2.0-85198514654
? Issn: 02714310
? Authors: Ravera Alessandro; Formentini Andrea; Lodi Matteo; Oliveri Alberto; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2024:

- ? Electrical and Electronic Engineering (Q3, rank 537, percentile 44)
- ? Source Id: 56190
- ? Author Ids: 57214792545;55370605300;57200266678;57200399832;7004134087
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Ravera A.

13.

- ? 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.

14.

- ? Title: Balanced Charging Algorithm for CHB in an EV Powertrain
 - ? Venue: Energies
 - ? Year: 2023
 - ? Type: Journal
 - ? Subtype: Article
 - ? Citations: 6
 - ? DOI: 10.3390/en16145565
 - ? Scopus ID: 2-s2.0-85166245313
 - ? eISSN: 19961073
 - ? Volume: 16
 - ? Issue: 14
 - ? Authors: Gemma Filippo; Tresca Giulia; Formentini Andrea; Zanchetta Pericle
 - ? Keywords: battery modules | cascaded H-bridge | charging algorithm | charging protocol | multilevel 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)

2023:

- ? Control and Optimization (Q1, rank 19, percentile 85)
- ? Engineering (miscellaneous) (Q1, rank 36, percentile 82)
- ? Electrical and Electronic Engineering (Q2, rank 200, percentile 74)
- ? Energy Engineering and Power Technology (Q2, rank 78, percentile 71)
- ? Fuel Technology (Q2, rank 40, percentile 69)
- ? Energy (miscellaneous) (Q2, rank 25, percentile 68)
- ? Renewable Energy, Sustainability and the Environment (Q2, rank 103, percentile 62)

? Source Id: 62932

? Author Ids: 57959973100;56602742700;55370605300;6602830299

? Authoraffiliationids: 60015197;60015197;60025153;60015197-60015138

? Corresponding: Gemma F.

15.

- ? Title: A Reconfigurable Cascaded Multilevel Converter for EV Powertrain
- ? Venue: IEEE Transactions on Industry Applications
- ? Year: 2023
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 4
- ? Doi: 10.1109/Tia.2023.3337763
- ? Scopus ID: 2-s2.0-85184801585
- ? Issn: 00939994
- ? eISSN: 19399367
- ? Volume: 60
- ? Issue: 2
- ? Pages: 3332-3344
- ? Authors: Tresca Giulia; Formentini Andrea; Riccio Jacopo; Anglani Norma; Zanchetta Pericle
- ? Keywords: battery cell | Battery management system (BMS) | electric vehicle (EV) | multilevel converter | reconfigurable | State of Charge (SOC) balancing
- ? 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)

2023:

- ? Control and Systems Engineering (Q1, rank 34, percentile 89)
- ? Industrial and Manufacturing Engineering (Q1, rank 45, percentile 88)
- ? Electrical and Electronic Engineering (Q1, rank 95, percentile 88)

? Source Id: 17361

? Author Ids: 56602742700;55370605300;57215290023;6504091676;6602830299

? Authoraffiliationids: 60015197;60025153;60015138;60015197;60015197

? Corresponding: Tresca G.

16.

- ? Title: A novel charging approach to Temperature and State of Charge management in BEV
- ? Venue: 2023 IEEE Energy Conversion Congress and Exposition Ecce 2023
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 1

? Doi: 10.1109/Ecce53617.2023.10362079

? Scopus ID: 2-s2.0-85182942869

? Pages: 2706-2712

? Authors: Gemma Filippo; Tresca Giulia; Di Salvo Salvatore Riccardo; Formentini Andrea; Zanchetta Pericle

? Keywords: Battery Electric Vehicle | Battery Model | Reconfigurable Cascaded Multilevel Converter | SOC balancing | Temperature Control

? Source Id: 21101197266

? Author Ids: 57959973100;56602742700;57218845787;55370605300;6602830299

? Authoraffiliationids: 60015197;60015197;60015197;60025153;60015197-60015138

? Corresponding: Gemma F.

17.

? Title: Kalman filter estimation method for battery cell parameters in Reconfigurable Cascaded Multilevel Converter

? Venue: 2023 IEEE Energy Conversion Congress and Exposition Ecce 2023

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.1109/Ecce53617.2023.10362221

? Scopus ID: 2-s2.0-85182934567

? Pages: 3648-3653

? Authors: Tresca Giulia; Formentini Andrea; Granata Samuele; Magrini Carlo; Zanchetta Pericle

? Keywords: Battery cells | Estimation Technique | Internal resistance | Kalman Filter | Multilevel Converter | Online Estimation | Open circuit voltage | Reconfigurable Cascaded Multilevel Converter | Sorting algorithm

? Source Id: 21101197266

? Author Ids: 56602742700;55370605300;57571467300;58834851800;6602830299

? Authoraffiliationids: 60015197;60025153;60015197;60015197;60015197-60015138

? Corresponding: Tresca G.

18.

? 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.

19.

? Title: Controller Design of an Active Front-End Converter Keeping in Consideration Grid Dynamic Interaction

? Venue: IEEE Transactions on Industrial Electronics

? Year: 2022

? Type: Journal

- ? Subtype: Article
? Citations: 6
? Doi: 10.1109/Tie.2021.3080209
? Scopus ID: 2-s2.0-85107227858
? Issn: 02780046
? eISSN: 15579948
? Volume: 69
? Issue: 5
? Pages: 5195-5206
? Authors: Li Kang; Formentini Andrea; Dewar David; Zanchetta Pericle
? Keywords: AC-DC power conversion | impedance identification | optimal control
? 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: 58382842700;55370605300;57191349066;6602830299
? Authoraffiliationids: 60015138;60026851;60015138;60015138
? Corresponding: Li K.
20.
? Title: Parameters and Volt-Ampere Ratings of a Floating Capacitor Open-End Winding Synchronous Motor Drive for Extended CPSR
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 9
? Doi: 10.1109/Tie.2021.3076917
? Scopus ID: 2-s2.0-85105861018
? Issn: 02780046
? eISSN: 15579948
? Volume: 69
? Issue: 5
? Pages: 4576-4586
? Authors: Rovere Luca; Valente Giorgio; Formentini Andrea; Zanchetta Pericle
? Keywords: Constant power speed ratio (CPSR) | floating capacitor (FC) | motor design | open-end winding (OEW) | permanent magnet (PM) | synchronous motor drive (SMD)
? 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: 57190687733;57192678865;55370605300;6602830299
? Authoraffiliationids: 60015138;60112215;60026851;60015138
? Corresponding: Rovere L.
21.
? Title: Resonant and a new disturbance-observer combined control for off-grid voltage source inverter

- ? Venue: International Journal of Power Electronics and Drive Systems
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 1
? DOI: 10.11591/ijpeds.v13.i1.pp223-236
? Scopus ID: 2-s2.0-85124890462
? Issn: 20888694
? Volume: 13
? Issue: 1
? Pages: 223-236
? Authors: Di Benedetto Marco; Tang Mi; Lidozzi Alessandro; Solero Luca; Formentini Andrea; Zanchetta Pericle
? Keywords: Non-linear loads | Repetitive observer | Resonant controllers | Three-phase four-leg inverter | Total harmonic distortion
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 478, percentile 52)
? Energy Engineering and Power Technology (Q3, rank 168, percentile 48)
2022:
? Energy Engineering and Power Technology (Q2, rank 113, percentile 55)
? Electrical and Electronic Engineering (Q2, rank 348, percentile 52)
? Source Id: 21100258382
? Author Ids: 57223905864;57188634600;24766926100;35513447200;55370605300;57458663400
? Authoraffiliationids: 60012630;60015138;60012630;60012630;60025153;60015138-60015197
? Corresponding: Di Benedetto M.
22.
? Title: Direct AC charging of EV Reconfigurable Cascaded Multilevel Converter
? Venue: 2022 IEEE Energy Conversion Congress and Exposition Ecce 2022
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.1109/Ecce50734.2022.9947306
? Scopus ID: 2-s2.0-85144079097
? Authors: Tresca Giulia; Formentini Andrea; Granata Samuele; Leuzzi Riccardo; Zanchetta Pericle
? Keywords: AC Charging | Charging Time | Electric Vehicle | Filter design | Multilevel converter | Reconfigurable Cascaded Multilevel Converter | Sorting Algorithm
? Source Id: 21101126128
? Author Ids: 56602742700;55370605300;57571467300;56448866100;6602830299
? Authoraffiliationids: 128982881;116607080;128982881;128982881;128982881-105928457
? Corresponding: Tresca G.
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: Cocco 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: Cocco S.

24.

? Title: SOC governed algorithm for an EV Cascaded H-Bridge connected to a DC charger
? Venue: 24th European Conference on Power Electronics and Applications EPE 2022 Ecce Europe
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Scopus ID: 2-s2.0-85141571827
? Authors: Tresca Giulia; Formentini Andrea; Gemma Filippo; Lusardi Federico; Leuzzi Riccardo; Zanchetta Pericle
? Keywords: Battery modules | Cascaded H-Bridge | Charging algorithm | Charging protocol | Multilevel converter
? Source Id: 21101119900
? Author Ids: 56602742700;55370605300;57959973100;57959973200;56448866100;6602830299
? Authoraffiliationids: 60015197;60025153;60015197;128833410;60015197;60015197-60015138
? Corresponding: Tresca G.

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; Cocco 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: Reconfigurable Cascaded Multilevel Converter design for Battery Energy System Storage
? Venue: 2022 International Symposium on Power Electronics Electrical Drives Automation and Motion Speedam 2022
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.1109/Speedam53979.2022.9842134
? Scopus ID: 2-s2.0-85136198770
? Pages: 725-729
? Authors: Tresca Giulia; Formentini Andrea; Di Salvo Salvatore; Leuzzi Riccardo; Anglani Norma; Zanchetta Pericle

? Keywords: BESS | Cascaded H-Bridge | Efficiency | Multilevel converters | Reconfigurable Cascaded Multilevel converter | Two-level inverter
? Source Id: 21101101911
? Author Ids: 56602742700;55370605300;57218845787;56448866100;6504091676;6602830299
? Authoraffiliationids: 127618493;116607080;127618493;127618493;127618493;127618493-105928457
? Corresponding: Tresca G.

27.

? Title: Interaction of AC Grid Filters in Aircraft and Influence of the System Dynamic Behavior

? Venue: IEEE Transactions on Industry Applications

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 5

? Doi: 10.1109/Tia.2021.3133212

? Scopus ID: 2-s2.0-85121339576

? Issn: 00939994

? eISSN: 19399367

? Volume: 58

? Issue: 2

? Pages: 2134-2143

? Authors: Czerniewski Blazej; Formentini Andrea; Dewar David; Zanchetta Pericle; Schanen Jean Luc

? Keywords: Active front end (AFE) | aerospace | converter control | design | harmonic filters | optimization | power quality | sequential quadratic programming | voltage source inverter (VSI)

? 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)

2022:

? Industrial and Manufacturing Engineering (Q1, rank 33, percentile 90)

? Control and Systems Engineering (Q1, rank 28, percentile 90)

? Electrical and Electronic Engineering (Q1, rank 79, percentile 89)

? Source Id: 17361

? Author Ids: 57208663235;55370605300;57191349066;6602830299;7004499496

? Authoraffiliationids: 60015138;60015138;60015138;60015197;60104653

? Corresponding: Czerniewski B.

28.

? Title: A Novel Matrix Converter Modulation with Reduced Number of Commutations

? Venue: IEEE Transactions on Industry Applications

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 21

? Doi: 10.1109/Tia.2021.3087121

? Scopus ID: 2-s2.0-85111070036

? Issn: 00939994

? eISSN: 19399367

? Volume: 57

? Issue: 5

? Pages: 4991-5000

? Authors: Pipolo Sabino; Formentini Andrea; Trentin Andrew; Zanchetta Pericle; Calvini Marco; Venturini Marco

? Keywords: Efficiency | matrix converter | minimum losses | modulation strategy

? 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)

2021:

? Industrial and Manufacturing Engineering (Q1, rank 25, percentile 92)

? Electrical and Electronic Engineering (Q1, rank 64, percentile 91)

? Control and Systems Engineering (Q1, rank 26, percentile 90)

? Source Id: 17361

? Author Ids: 56705313100;55370605300;16231836900;6602830299;14422097400;58351076300

? Authoraffiliationids: 60015138;60026851;60015138;60015138-60015197;123668789;60015197

? Corresponding: Pipolo S.

29.

? Title: A Novel Low Computational Burden Dual-Observer Phase-Locked Loop with Strong Disturbance Rejection Capability for More Electric Aircraft

? Venue: IEEE Transactions on Industry Applications

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 14

? Doi: 10.1109/Tia.2021.3075188

? Scopus ID: 2-s2.0-85105107700

? Issn: 00939994

? eISSN: 19399367

? Volume: 57

? Issue: 4

? Pages: 3832-3841

? Authors: Tang Mi; Bifaretti Stefano; Pipolo Sabino; Formentini Andrea; Odhano Shafiq; Zanchetta Pericle

? Keywords: Fault tolerant control | more electric aircraft | phase-locked loops | power system harmonics | repetitive control

? 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)

2021:

? Industrial and Manufacturing Engineering (Q1, rank 25, percentile 92)

? Electrical and Electronic Engineering (Q1, rank 64, percentile 91)

? Control and Systems Engineering (Q1, rank 26, percentile 90)

? Source Id: 17361

? Author Ids: 57188634600;6504441060;56705313100;55370605300;55976320300;6602830299

? Authoraffiliationids: 60015138;60027509;126587133;60026851;60006222;60015138-60015197

? Corresponding: Tang M.

30.

? Title: Open-Circuit Fault Control Techniques for Bearingless Multisector Permanent Magnet Synchronous Machines

? Venue: IEEE Transactions on Industry Applications

? Year: 2021

? Type: Journal

? Subtype: Article
? Citations: 12
? Doi: 10.1109/Tia.2021.3060368
? Scopus ID: 2-s2.0-85101772168
? Issn: 00939994
? eISSN: 19399367
? Volume: 57
? Issue: 3
? Pages: 2527-2536
? Authors: Wen Zhuang; Valente Giorgio; Formentini Andrea; Papini Luca; Gerada Chris; Zanchetta Pericle
? Keywords: Bearingless machines | multiphase machines | permanent magnet synchronous machines | single-phase open-circuit fault | three-phase open-circuit fault
? 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)
2021:
? Industrial and Manufacturing Engineering (Q1, rank 25, percentile 92)
? Electrical and Electronic Engineering (Q1, rank 64, percentile 91)
? Control and Systems Engineering (Q1, rank 26, percentile 90)
? Source Id: 17361
? Author Ids: 57210578091;57192678865;55370605300;36515353900;56264118100;6602830299
? Authoraffiliationids: 60015138;121308710;60026851;60028868;60015138;60015138
? Corresponding: Wen Z.

31.
? Title: Optimal and automated decentralised converter control design in more electrical aircraft power electronics embedded grids

? Venue: Iet Power Electronics
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 1
? DOI: 10.1049/pel2.12056
? Scopus ID: 2-s2.0-85101327366
? Issn: 17554535
? eISSN: 17554543
? Volume: 14
? Issue: 3
? Pages: 690-705
? Authors: Dewar D.; Formentini A.; Li K.; Zanchetta P.; Wheeler P.

? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 321, percentile 67)

2021:
? Electrical and Electronic Engineering (Q1, rank 172, percentile 75)
? Source Id: 19700186866
? Author Ids: 57191349066;55370605300;58382842700;6602830299;7101693838
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Dewar D.

32.
? Title: Multivariable deadbeat control of power electronics converters with fast dynamic response and fixed switching frequency

? Venue: Energies
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 16
? DOI: 10.3390/en14020313
? Scopus ID: 2-s2.0-85106243044
? eISSN: 19961073
? Volume: 14
? Issue: 2
? Authors: Rohten Jaime A.; Dewar David N.; Zanchetta Pericle; Formentini Andrea; Muñoz Javier A.; Baier Carlos R.; Silva José J.
? Keywords: Energy management | Model predictive control | Power converters | Soft deadbeat algorithm

? 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:

54947327900;57191349066;6602830299;55370605300;7402869772;58088573500;57190765306

? Authoraffiliationids:

60023195;60015138;60015138-60015197;60015138;60016278;60016278;60001282

? Corresponding: Rohten J.A.

33.

? Title: Reconfigurable Cascaded Multilevel Converter: A New Topology for EV Powertrain
? Venue: 2021 IEEE Energy Conversion Congress and Exposition Ecce 2021 Proceedings

? Year: 2021

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 10

? Doi: 10.1109/Ecce47101.2021.9595741

? Scopus ID: 2-s2.0-85123353441

? Pages: 1454-1460

? Authors: Tresca Giulia; Leuzzi Riccardo; Formentini Andrea; Rovere Luca; Anglani Norma; Zanchetta Pericle

? Keywords: Comparison | driving cycles | efficiency | inverter | multilevel converter | new topology | reconfigurable battery modules

? Source Id: 21101073685

? Author Ids: 56602742700;56448866100;55370605300;57190687733;6504091676;6602830299

? Authoraffiliationids: 127618493;127618493;127618493;127618493;127618493;127618493
? Corresponding: Tresca G.

34.

? Title: A Novel Current Limitation Technique Exploiting the Maximum Capability of Power Electronic Inverter and Bearingless Machine

? Venue: IEEE Transactions on Industry Applications

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 4

? Doi: 10.1109/TIA.2021.3069149

? Scopus ID: 2-s2.0-85103277647

? Issn: 00939994

? eISSN: 19399367

? Volume: 57

? Issue: 6

? Pages: 7012-7023

? Authors: Wen Zhuang; Valente Giorgio; Formentini Andrea; Papini Luca; Gerada Chris; Zanchetta Pericle

? Keywords: Bearingless machines | current limitation | fault tolerance | multiphase machines | permanent magnet synchronous machines

? 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)

2021:

? Industrial and Manufacturing Engineering (Q1, rank 25, percentile 92)

? Electrical and Electronic Engineering (Q1, rank 64, percentile 91)

? Control and Systems Engineering (Q1, rank 26, percentile 90)

? Source Id: 17361

? Author Ids: 57210578091;57192678865;55370605300;36515353900;56264118100;6602830299

? Authoraffiliationids: 60015138;121308710;60026851;60028868;60015138;60015138

? Corresponding: Wen Z.

35.

? Title: Disturbance Rejection Ability Enhancement Using Repetitive Observer in Phase-locked Loop for More Electric Aircraft

? Venue: Ecce 2020 IEEE Energy Conversion Congress and Exposition

? Year: 2020

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Ecce44975.2020.9235893

? Scopus ID: 2-s2.0-85097199038

? Pages: 6379-6384

? Authors: Tang Mi; Bifaretti Stefano; Pipolo Sabino; Formentini Andrea; Odhano Shafiq; Zanchetta Pericle

? Keywords: fault tolerant control | more electric aircraft | phase-locked loops | power system harmonics | repetitive control

? Source Id: 21101029715

? Author Ids: 57188634600;6504441060;56705313100;55370605300;55976320300;6602830299

? Authoraffiliationids: 60015138;60027509;60015138;60015138;60006222;60015138-60015197

? Corresponding: Tang M.

36.

? Title: AC-DC Isolated Matrix Converter Charger: Topology and Modulation
? Venue: Ecce 2020 IEEE Energy Conversion Congress and Exposition
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Ecce44975.2020.9235696
? Scopus ID: 2-s2.0-85097162902
? Pages: 1583-1588
? Authors: Rovere Luca; Pipolo Sabino; Formentini Andrea; Zanchetta Pericle
? Keywords: AC-DC | Battery charger | Efficiency | Matrix converter | Modulation strategy
? Source Id: 21101029715
? Author Ids: 57190687733;56705313100;55370605300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138-60015197
? Corresponding: Rovere L.

37.

? Title: Control of a Dual Fed Open End Winding SPMSM with a Floating Capacitor
? Venue: Ecce 2020 IEEE Energy Conversion Congress and Exposition
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1109/Ecce44975.2020.9235937
? Scopus ID: 2-s2.0-85097139860
? Pages: 4036-4043
? Authors: Minaglia Davide; Rovere Luca; Formentini Andrea; Leuzzi Riccardo; Pipolo Sabino; Marchesoni Mario; Zanchetta Pericle
? Keywords: Dual-Fed | Floating Capacitor | Linear Quadratic Regulator | Open-End Winding Machine | Permanent Magnet Synchronous Motor | State-Space Control
? Source Id: 21101029715
? Author Ids:
57220184955;57190687733;55370605300;56448866100;56705313100;6701827441;6602830299
? Authoraffiliationids:
125499884;60015138;60015138;60015197;60015138;60025153;125499884-60025153
? Corresponding: Minaglia D.

38.

? Title: Reuse of a Damaged Permanent Magnet Synchronous Motor for Torque Ripple and Acoustic Noise Elimination Using a Novel Repetitive Observer
? Venue: IEEE Transactions on Industry Applications
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 11
? Doi: 10.1109/Tia.2020.2989681
? Scopus ID: 2-s2.0-85089572494
? Issn: 00939994
? eISSN: 19399367
? Volume: 56
? Issue: 4
? Pages: 3790-3798
? Authors: Tang Mi; Odhano Shafiq; Formentini Andrea; Zanchetta Pericle
? Keywords: Acoustic noise | demagnetization | fault tolerant | repetitive observer (RO) | torque ripple reduction

? 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)

2020:

? Industrial and Manufacturing Engineering (Q1, rank 23, percentile 93)

? Control and Systems Engineering (Q1, rank 25, percentile 90)

? Electrical and Electronic Engineering (Q1, rank 69, percentile 90)

? Source Id: 17361

? Author Ids: 57188634600;55976320300;55370605300;6602830299

? Authoraffiliationids: 60015138;60006222;60015138;60015138

? Corresponding: Tang M.

39.

? Title: Torque Ripple Reduction in Sectored Multi Three-Phase Machines Based on PWM Carrier Phase Shift

? Venue: IEEE Transactions on Industrial Electronics

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 23

? Doi: 10.1109/Tie.2019.2931239

? Scopus ID: 2-s2.0-85079826621

? Issn: 02780046

? eISSN: 15579948

? Volume: 67

? Issue: 6

? Pages: 4315-4325

? Authors: Wang Xuchen; Sala Giacomo; Zhang He; Gu Chunyang; Buticchi Giampaolo; Formentini Andrea; Gerada Chris; Wheeler Patrick

? Keywords: Analytical models | machine vector control | multiphase drives | permanent-magnet machines | pulsewidth modulation (PWM) | torque control

? Quartile:

2025:

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

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

2020:

? Control and Systems Engineering (Q1, rank 3, percentile 99)

? Electrical and Electronic Engineering (Q1, rank 11, percentile 98)

? Source Id: 26053

? Author Ids: 57212577726;57143907500;56941059500;35304827600;6507708268;55370605300;56264118100;7101693838

? Authoraffiliationids:

60104720;60028218;60104720;60104720;60104720;60015138;60015138;60015138

? Corresponding: Wang X.

40.

? Title: Electric Drive Based on an Open-End Winding Surface PM Synchronous Machine with a Floating Capacitor Bridge

? Venue: IEEE Transactions on Industry Applications

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 26

? Doi: 10.1109/Tia.2020.2977596

? Scopus ID: 2-s2.0-85084191265
? Issn: 00939994
? eISSN: 19399367
? Volume: 56
? Issue: 3
? Pages: 2709-2718

? Authors: Amerise Albino; Rovere Luca; Formentini Andrea; Mengoni Michele; Zarri Luca; Zanchetta Pericle

? Keywords: AC motors | motor drives | multilevel systems | permanent magnet machines | pulse-width modulated (PWM) inverters | variable speed drives

? 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)

2020:

? Industrial and Manufacturing Engineering (Q1, rank 23, percentile 93)

? Control and Systems Engineering (Q1, rank 25, percentile 90)

? Electrical and Electronic Engineering (Q1, rank 69, percentile 90)

? Source Id: 17361

? Author Ids: 57193650641;57190687733;55370605300;36881085200;6508149592;6602830299

? Authoraffiliationids: 60028218;60015138;60015138;60028218;60028218;60015138

? Corresponding: Amerise A.

41.

? Title: Torque Ripple Reduction of PMSMs Using a Novel Angle-Based Repetitive Observer

? Venue: IEEE Transactions on Industrial Electronics

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 71

? Doi: 10.1109/Tie.2019.2912798

? Scopus ID: 2-s2.0-85076704292

? Issn: 02780046

? eISSN: 15579948

? Volume: 67

? Issue: 4

? Pages: 2689-2699

? Authors: Tang Mi; Formentini Andrea; Odhano Shafiq Ahmed; Zanchetta Pericle

? Keywords: disturbance observer (DOB) | reduced-order observer | Repetitive control | torque ripple reduction | variable speed drives

? Quartile:

2025:

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

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

2020:

? Control and Systems Engineering (Q1, rank 3, percentile 99)

? Electrical and Electronic Engineering (Q1, rank 11, percentile 98)

? Source Id: 26053

? Author Ids: 57188634600;55370605300;55976320300;6602830299

? Authoraffiliationids: 60015138;60015138;60015138;60015138

? Corresponding: Tang M.

42.

? Title: Mechanical Vibration Suppression on Multi-Sector PMSM with Optimal Active Vibration Control

? Venue: Iet Conference Proceedings
? Year: 2020
? Type: Journal
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.1049/icp.2021.1123
? Scopus ID: 2-s2.0-85174643793
? eISSN: 27324494
? Volume: 2020
? Issue: 7
? Pages: 314-319
? Authors: Wen Zhuang; Valente Giorgio; Formentini Andrea; Papini Luca; Zanchetta Pericle; Gerada Christopher
? Keywords: Active vibration control | Linaer quadratic regulator | Radial force control | State space design method
? Quartile:
2025:
? Engineering (all) (Q4, rank 329, percentile 5)
? Source Id: 21101162960
? Author Ids: 57210578091;57192678865;55370605300;36515353900;6602830299;56264118100
? Authoraffiliationids: 60015138;60015138;60015138;60028868;60015138;60015138
? Corresponding: Wen Z.

43.

? Title: Decentralised Optimal Controller Design of Variable Frequency Three-Phase Power Electronic Networks Accounting for Sub-System Interactions
? Venue: IEEE Open Journal of Industry Applications
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 6
? Doi: 10.1109/Ojia.2020.3044810
? Scopus ID: 2-s2.0-85119065542
? eISSN: 26441241
? Volume: 1
? Pages: 270-282
? Authors: Dewar David; Rohten Jaime; Formentini Andrea; Zanchetta Pericle
? Keywords: Decentralised control | more electric aircraft | non-linear system | optimal control | variable frequency
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q2, rank 114, percentile 72)
? Electrical and Electronic Engineering (Q2, rank 283, percentile 71)
? Control and Systems Engineering (Q2, rank 114, percentile 70)
? Source Id: 21101162817
? Author Ids: 57191349066;54947327900;55370605300;6602830299
? Authoraffiliationids: 60015138;60023195;60015138;60015138
? Corresponding: Dewar D.

44.

? Title: Zero-Sequence Voltage Elimination for Dual-Fed Common DC-Link Open-End Winding PMSM High-Speed Starter-Generator - Part II: Deadtime Hysteresis Control of Zero-Sequence Current
? Venue: IEEE Transactions on Industry Applications
? Year: 2019
? Type: Journal

? Subtype: Article
? Citations: 25
? Doi: 10.1109/Tia.2019.2907095
? Scopus ID: 2-s2.0-85075474360
? Issn: 00939994
? eISSN: 19399367
? Volume: 55
? Issue: 6
? Pages: 7813-7821
? Authors: Rovere Luca; Formentini Andrea; Calzo Giovanni Lo; Zanchetta Pericle; Cox Tom
? Keywords: Deadtime (DT) | dual-fed single dc-link drive | hysteresis control | open-end winding (OEW) machine | permanent magnet synchronous motor (PMSM) | zero-sequence current (ZSC) | zero-sequence voltage (ZSV)
? 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)
2019:
? Industrial and Manufacturing Engineering (Q1, rank 30, percentile 91)
? Electrical and Electronic Engineering (Q1, rank 76, percentile 88)
? Control and Systems Engineering (Q1, rank 29, percentile 88)
? Source Id: 17361
? Author Ids: 57190687733;55370605300;57191194891;6602830299;57202863074
? Authoraffiliationids: 60015138;60015138;123498449;60015138-60015197;60015138
? Corresponding: Rovere L.
45.
? Title: Zero-Sequence Voltage Elimination for Dual-Fed Common DC-Link Open-End Winding PMSM High-Speed Starter-Generator - Part I: Modulation
? Venue: IEEE Transactions on Industry Applications
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 47
? Doi: 10.1109/Tia.2019.2907073
? Scopus ID: 2-s2.0-85075457948
? Issn: 00939994
? eISSN: 19399367
? Volume: 55
? Issue: 6
? Pages: 7804-7812
? Authors: Rovere Luca; Formentini Andrea; Calzo Giovanni Lo; Zanchetta Pericle; Cox Tom
? Keywords: Dead time (DT) | dual-fed (DF) single dc-link drive | open-end winding (OEW) machine | permanent magnet synchronous motor (PMSM) | zero-sequence current (ZSC) | zero-sequence voltage (ZSV)
? 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)
2019:
? Industrial and Manufacturing Engineering (Q1, rank 30, percentile 91)

- ? Electrical and Electronic Engineering (Q1, rank 76, percentile 88)
 - ? Control and Systems Engineering (Q1, rank 29, percentile 88)
 - ? Source Id: 17361
 - ? Author Ids: 57190687733;55370605300;57191194891;6602830299;57202863074
 - ? Authoraffiliationids: 60015138;60015138;60258352;60015138-60015197;60015138
 - ? Corresponding: Rovere L.
- 46.
- ? Title: Fast Self-Tuning Decentralized Variable Frequency Optimal Controller Design for Three-Phase Embedded Grids
 - ? Venue: IECON Proceedings Industrial Electronics Conference
 - ? Year: 2019
 - ? Type: Conference Proceeding
 - ? Subtype: Conference Paper
 - ? Citations: 3
 - ? Doi: 10.1109/lecon.2019.8927110
 - ? Scopus ID: 2-s2.0-85083985403
 - ? Volume: 2019-October
 - ? Pages: 3894-3899
 - ? Authors: Dewar David; Rhoten Jaime; Formentini Andrea; Zanchetta Pericle
 - ? Keywords: Embedded Grids | Optimal Control | Self Tuning | Three-Phase | Variable Frequency
 - ? Source Id: 56670
 - ? Author Ids: 57191349066;57216583366;55370605300;6602830299
 - ? Authoraffiliationids: 60015138;60023195;60015138;60015138
 - ? Corresponding: Dewar D.
- 47.
- ? Title: Reuse of a damaged permanent magnet synchronous motor for torque ripple and acoustic noise elimination using a novel repetitive observer
 - ? Venue: 2019 IEEE Energy Conversion Congress and Exposition Ecce 2019
 - ? Year: 2019
 - ? Type: Conference Proceeding
 - ? Subtype: Conference Paper
 - ? Citations: 3
 - ? Doi: 10.1109/Ecce.2019.8912822
 - ? Scopus ID: 2-s2.0-85076791067
 - ? Pages: 334-338
 - ? Authors: Tang Mi; Odhano Shafiq; Formentini Andrea; Zanchetta Pericle
 - ? Keywords: Acoustic noise | Demagnetization | Fault-tolerance | Repetitive observer | Torque ripple reduction
 - ? Source Id: 21100939583
 - ? Author Ids: 57188634600;55976320300;55370605300;6602830299
 - ? Authoraffiliationids: 60015138;60015138;60015138;60015138
 - ? Corresponding: Tang M.
- 48.
- ? Title: Grid impedance identification and structured-h₂ optimization based controller design of active front-end in embedded AC networks
 - ? Venue: 2019 IEEE Energy Conversion Congress and Exposition Ecce 2019
 - ? Year: 2019
 - ? Type: Conference Proceeding
 - ? Subtype: Conference Paper
 - ? Citations: 2
 - ? Doi: 10.1109/Ecce.2019.8912832
 - ? Scopus ID: 2-s2.0-85076790411
 - ? Pages: 4840-4845

? Authors: Li Kang; Dewar David; Formentini Andrea; Zanchetta Pericle; Wheeler Pat
? Keywords: Active front-end | H2 optimization | Identification
? Source Id: 21100953575
? Author Ids: 58382842700;57191349066;55370605300;6602830299;7101693838
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Li K.

49.

? Title: Smart current limitation technique for a multiphase bearingless machine with combined winding system
? Venue: 2019 IEEE Energy Conversion Congress and Exposition Ecce 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Ecce.2019.8913291
? Scopus ID: 2-s2.0-85076744037
? Pages: 6099-6105
? Authors: Wen Zhuang; Valente Giorgio; Formentini Andrea; Papini Luca; Zanchetta Pericle; Gerada Christopher
? Keywords: Bearingless | Current limitation | Multiphase Machines | PM Synchronous Machines
? Source Id: 21100939583
? Author Ids: 57210578091;57192678865;55370605300;36515353900;6602830299;56264118100
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138;60015138
? Corresponding: Wen Z.

50.

? Title: Optimal control of matrix converters
? 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.2019.8914924
? Scopus ID: 2-s2.0-85076715477
? Authors: Formentini Andrea; Pipolo Sabino; Trentin Andrew; Zanchetta Pericle
? Keywords: LQR | Matrix converter | Optimal control
? Source Id: 21100939561
? Author Ids: 55370605300;56705313100;16231836900;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138
? Corresponding: Formentini A.

51.

? Title: Impact of converters interactions on control design in a power electronics dense network: Application to more electric aircraft
? 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.2019.8915020
? Scopus ID: 2-s2.0-85076681227
? Authors: Czerniewski Blazej; Formentini Andrea; Dewar David; Zanchetta Pericle; Schanen Jean Luc

? Keywords: Active Front-End | Aerospace | Airplane | Control methods for electrical system | Converter control | Optimal control | Voltage Source Inverters (VSI)
? Source Id: 21100939561
? Author Ids: 57208663235;55370605300;57191349066;6602830299;7004499496
? Authoraffiliationids: 60015138-60104653;60015138;60015138;60015138;60104653
? Corresponding: Czerniewski B.

52.

? Title: Repetitive observer design for torque ripple reduction in PMSM drives
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.23919/Epe.2019.8914793
? Scopus ID: 2-s2.0-85076673403
? Authors: Tang Mi; Formentini Andrea; Zanchetta Pericle
? Keywords: Control methods for electrical systems | Control of drive | Design | Harmonics
? Source Id: 21100939561
? Author Ids: 57188634600;55370605300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138
? Corresponding: Tang M.

53.

? Title: Demagnetization Issues in Low Cost Synchronous Machine
? Venue: Proceedings of the 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines Power Electronics and Drives Sdemped 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Demped.2019.8864886
? Scopus ID: 2-s2.0-85074294179
? Pages: 82-87
? Authors: Bianchini Claudio; Torreggiani Ambra; Davoli Matteo; David Danilo; Bellini Alberto; Formentini Andrea
? Keywords: efficiency class | iron losses | magnet eddy currents | Permanent-Magnet synchronous motors
? Source Id: 21100934208
? Author Ids: 35228476500;57193014190;36677175000;57205503275;7006264843;55370605300
? Authoraffiliationids: 60004591;60172288;60028218;60028218;60004591;123385674
? Corresponding: Bianchini C.

54.

? Title: Particle Swarm Optimization Tuning of Modular Multilevel Converters in a Time-Invariant Framework
? Venue: Proceedings of the International Conference on Power Electronics and Drive Systems
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Peds44367.2019.8998775
? Scopus ID: 2-s2.0-85080926199
? Issn: 21645256

- ? eISSN: 21645264
? Volume: 2019-July
? Authors: Bergna-Diaz Gilbert; Formentini Andrea; Zanchetta Pericle; Tedeschi Elisabetta
? Quartile:
2025:
? Electrical and Electronic Engineering (Q4, rank 802, percentile 19)
? Source Id: 26137
? Author Ids: 52363203400;55370605300;6602830299;16025394900
? Authoraffiliationids: 60013141;60015138;60015138;60013141
? Corresponding: Bergna-Diaz G.
55.
? Title: A New Modulation Approach for Matrix Converter
? Venue: Icpe 2019 Ecce Asia 10th International Conference on Power Electronics Ecce Asia
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Scopus ID: 2-s2.0-85071617425
? Pages: 1021-1027
? Authors: Pipolo S.; Formentini A.; Trentin A.; Zanchetta P.; Calvini M.; Venturini M.
? Keywords: Efficiency | Losses | Matrix converter | Modulation strategy
? Source Id: 21100927125
? Author Ids: 56705313100;55370605300;16231836900;6602830299;14422097400;58351076300
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138;101296397
? Corresponding: Pipolo S.
56.
? Title: Finite control set-model predictive control for the dual fed common dc-link open-end winding pmsm drive
? Venue: 2019 IEEE International Electric Machines and Drives Conference Iemdc 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/lemdc.2019.8785141
? Scopus ID: 2-s2.0-85071008079
? Pages: 2203-2209
? Authors: Rovere Luca; Formentini Andrea; Zanchetta Pericle
? Keywords: Dual-fed single dc-link drive | Finite set model predictive control | Open-end winding machine | Permanent magnet synchronous motor | Zero-sequence current | Zero-sequence voltage
? Source Id: 21100924811
? Author Ids: 57190687733;55370605300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138
? Corresponding: Rovere L.
57.
? Title: Single-phase open-circuit fault operation of bearingless multi-sector pm machines
? Venue: 2019 IEEE International Electric Machines and Drives Conference Iemdc 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3

? Doi: 10.1109/lemdc.2019.8785111
? Scopus ID: 2-s2.0-85070974063
? Pages: 1087-1092
? Authors: Wen Zhuang; Valente Giorgio; Formentini Andrea; Papini Luca; Zanchetta Pericle; Gerada Christopher
? Source Id: 21100924811
? Author Ids: 57210578091;57192678865;55370605300;36515353900;6602830299;56264118100
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138;60015138
? Corresponding: Wen Z.

58.

? Title: FPGA Implementation of a Novel Oversampling Deadbeat Controller for PMSM Drives
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 88
? Doi: 10.1109/Tie.2018.2851994
? Scopus ID: 2-s2.0-85049775270
? Issn: 02780046
? Volume: 66
? Issue: 5
? Pages: 3731-3741
? Authors: Rovere Luca; Formentini Andrea; Zanchetta Pericle
? Keywords: Deadbeat control | model-predictive control | oversampling | permanent magnet synchronous motors
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
? Control and Systems Engineering (Q1, rank 17, percentile 95)
2019:
? Control and Systems Engineering (Q1, rank 3, percentile 98)
? Electrical and Electronic Engineering (Q1, rank 13, percentile 98)
? Source Id: 26053
? Author Ids: 57190687733;55370605300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138
? Corresponding: Rovere L.

59.

? Title: Performance Improvement of Bearingless Multisector PMSM With Optimal Robust Position Control
? Venue: IEEE Transactions on Power Electronics
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 36
? Doi: 10.1109/Tpel.2018.2853038
? Scopus ID: 2-s2.0-85049467290
? Issn: 08858993
? Volume: 34
? Issue: 4
? Pages: 3575-3585
? Authors: Valente Giorgio; Formentini Andrea; Papini Luca; Gerada Christopher; Zanchetta Pericle
? Keywords: Bearingless machines | H 2 control | H ? control | linear matrix inequality

(LMI) | linear quadratic regulator (LQR) | multiphase machines

? 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: 57192678865;55370605300;36515353900;56264118100;6602830299

? Authoraffiliationids: 60015138;60015138;60015138-60104720;60015138-60104720;60015138

? Corresponding: Valente G.

60.

? Title: Performance Analysis of H- 2 Optimally Controlled Three-Phase Grids

? Venue: 2018 IEEE Energy Conversion Congress and Exposition Ecce 2018

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1109/Ecce.2018.8558087

? Scopus ID: 2-s2.0-85060314653

? Pages: 2258-2264

? Authors: Dewar David; Li Kang; Formentini Andrea; Zanchetta Pericle; Wheeler Pat

? Source Id: 21100895600

? Author Ids: 57191349066;58382842700;55370605300;6602830299;7101693838

? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138

? Corresponding: Dewar D.

61.

? Title: Real-Time Implicit Model Predictive Control for 3-phase VSI

? Venue: 2018 IEEE Energy Conversion Congress and Exposition Ecce 2018

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Ecce.2018.8557623

? Scopus ID: 2-s2.0-85060311896

? Pages: 4015-4020

? Authors: Sabatini V.; Lidozzi A.; Solero L.; Formentini A.; Zanchetta P.; Bifaretti S.

? Keywords: Active Set | FPGA | Implicit | LC filter | Model Predictive Control | Quadratic Programming | VSI

? Source Id: 21100895600

? Author Ids: 57193016640;24766926100;35513447200;55370605300;6602830299;6504441060

? Authoraffiliationids: 60012630;60012630;60012630;60015138;60015138;60027509

? Corresponding: Sabatini V.

62.

? Title: Disturbance-Observer Assisted Controller for Stand-Alone Four-Leg Voltage Source Inverter

? Venue: 2018 IEEE Energy Conversion Congress and Exposition Ecce 2018

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1109/Ecce.2018.8558023

? Scopus ID: 2-s2.0-85060283438

? Pages: 2265-2270

? Authors: Di Benedetto Marco; Lidozzi Alessandro; Solero Luca; Tang Mi; Formentini Andrea; Zanchetta Pericle
? Keywords: Disturbance observer | Harmonic content | Non-linear loads | Resonant controllers | Three-phase four-leg inverter
? Source Id: 21100895600
? Author Ids: 57223905864;24766926100;35513447200;57188634600;55370605300;6602830299
? Authoraffiliationids: 60012630;60012630;60012630;60015138;60015138;60015138
? Corresponding: Di Benedetto M.

63.

? Title: Control System for Open-End Winding Surface PM Synchronous Machines with a Floating Capacitor Bridge
? Venue: 2018 IEEE Energy Conversion Congress and Exposition Ecce 2018
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.1109/Ecce.2018.8557884
? Scopus ID: 2-s2.0-85060280942
? Pages: 6585-6591
? Authors: Amerise Albino; Rovere Luca; Formentini Andrea; Mengoni Michele; Zarri Luca; Zanchetta Pericle
? Keywords: Floating capacitor bridge | High speed application | Open-end winding | Surface permanent magnet synchronous motor | Unity power factor
? Source Id: 21100895600
? Author Ids: 57193650641;57190687733;55370605300;36881085200;6508149592;6602830299
? Authoraffiliationids: 60028218;60015138;60028218;60028218;60028218;60015138
? Corresponding: Amerise A.

64.

? Title: Stability assessment of high-bandwidth DC voltage controllers in single-phase active front ends: LTI Versus LTP Models
? Venue: IEEE Journal of Emerging and Selected Topics in Power Electronics
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 15
? Doi: 10.1109/Jestpe.2018.2810282
? Scopus ID: 2-s2.0-85042873492
? Issn: 21686777
? eISSN: 21686785
? Volume: 6
? Issue: 4
? Pages: 2147-2158
? Authors: Salis Valerio; Costabeber Alessandro; Cox Stephen M.; Formentini Andrea; Zanchetta Pericle
? Keywords: Active front ends | harmonic state-space (HSS) model | linear time-periodic (LTP) systems | power converters | stability analysis
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 66, percentile 93)
? Energy Engineering and Power Technology (Q1, rank 32, percentile 90)
2018:
? Energy Engineering and Power Technology (Q1, rank 8, percentile 96)
? Electrical and Electronic Engineering (Q1, rank 28, percentile 95)
? Source Id: 21100338359

- ? Author Ids: 57000380300;24921472500;7401455937;55370605300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Salis V.
- 65.
- ? Title: Optimized control design for power converters in power electronics embedded networks integrating grid model identification
? Venue: 2018 IEEE Industry Applications Society Annual Meeting IAS 2018
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/ias.2018.8544592
? Scopus ID: 2-s2.0-85059955470
? Authors: Li Kang; Dewar David; Formentini Andrea; Zanchetta Pericle; Wheeler Pat
? Source Id: 21100894616
? Author Ids: 58382842700;57191349066;55370605300;6602830299;7101693838
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Li K.
- 66.
- ? Title: Open-Circuit Fault Tolerant Study of Bearingless Multi-Sector Permanent Magnet Machines
? Venue: 2018 International Power Electronics Conference IPEC Niigata Ecce Asia 2018
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.23919/Ipec.2018.8507470
? Scopus ID: 2-s2.0-85057296272
? Pages: 4034-4041
? Authors: Valente G.; Papini L.; Formentini A.; Gerada C.; Zanchetta P.
? Keywords: Bearingless motor | Fault Tolerant | Force Control | Multiphase Motors | Permanent Magnet Machines
? Source Id: 21100887837
? Author Ids: 57192678865;36515353900;55370605300;56264118100;6602830299
? Authoraffiliationids: 60015138;60015138-60104720;60015138;60015138-60104720;60015138
? Corresponding: Valente G.
- 67.
- ? Title: Space Vectors and Pseudoinverse Matrix Methods for the Radial Force Control in Bearingless Multisector Permanent Magnet Machines
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 26
? Doi: 10.1109/Tie.2018.2795590
? Scopus ID: 2-s2.0-85040945420
? Issn: 02780046
? Volume: 65
? Issue: 9
? Pages: 6912-6922
? Authors: Sala G.; Valente G.; Formentini A.; Papini L.; Gerada D.; Zanchetta P.; Tani A.; Gerada C.
? Keywords: Analytical models | displacement control | force control | machine vector control | magnetic levitation | permanent magnet machines

? Quartile:

2025:

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

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

2018:

? Control and Systems Engineering (Q1, rank 2, percentile 99)

? Electrical and Electronic Engineering (Q1, rank 14, percentile 97)

? Source Id: 26053

? Author Ids: 57143907500;57192678865;55370605300;36515353900;26531152800;6602830299;71

02420841;56264118100

? Authoraffiliationids:

60015138;60015138;60015138;60015138;60015138;60015138;60028218;60015138

? Corresponding: Sala G.

68.

? Title: Identification of Linear Permanent Magnet Synchronous Motor Parameters and Inverter Non-Linearity Effects

? Venue: Speedam 2018 Proceedings International Symposium on Power Electronics Electrical Drives Automation and Motion

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Speedam.2018.8445214

? Scopus ID: 2-s2.0-85053856851

? Pages: 26-32

? Authors: Odhano Shafiq; Tang Mi; Formentini Andrea; Zanchetta Pericle; Bojoi Radu

? Keywords: Inverter non-linearity | Linear machines | Parameter estimation | Permanent magnet machines | Servomotors | Variable speed drives

? Source Id: 21100878002

? Author Ids: 55976320300;57188634600;55370605300;6602830299;57216646029

? Authoraffiliationids: 60015138;60015138;60015138;60015138;60012162

? Corresponding: Odhano S.

69.

? Title: Radial Force Control of Multisector Permanent-Magnet Machines for Vibration Suppression

? Venue: IEEE Transactions on Industrial Electronics

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 58

? Doi: 10.1109/Tie.2017.2780039

? Scopus ID: 2-s2.0-85037618435

? Issn: 02780046

? Volume: 65

? Issue: 7

? Pages: 5395-5405

? Authors: Valente G.; Papini L.; Formentini A.; Gerada C.; Zanchetta P.

? Keywords: Brushless motors | electromagnetic forces | force control | multiphase motors | optimization methods | permanent-magnet (PM) machines | vibration control | vibration measurement

? Quartile:

2025:

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

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

2018:

- ? Control and Systems Engineering (Q1, rank 2, percentile 99)
- ? Electrical and Electronic Engineering (Q1, rank 14, percentile 97)
- ? Source Id: 26053
- ? Author Ids: 57192678865;36515353900;55370605300;56264118100;6602830299
- ? Authoraffiliationids: 60015138;60015138-60104720;60015138;60015138-60104720;60015138
- ? Corresponding: Valente G.

70.

- ? Title: Stability boundary analysis in single-phase grid-connected inverters with PLL by LTP theory
- ? Venue: IEEE Transactions on Power Electronics
- ? Year: 2018
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 53
- ? Doi: 10.1109/Tpel.2017.2714860
- ? Scopus ID: 2-s2.0-85021806716
- ? Issn: 08858993
- ? Volume: 33
- ? Issue: 5
- ? Pages: 4023-4036
- ? Authors: Salis Valerio; Costabeber Alessandro; Cox Stephen M.; Zanchetta Pericle; Formentini Andrea
- ? Keywords: Harmonic state-space model (HSSM) | Linear time periodic (LTP) systems | Phase-locked loop (PLL) | Power converters | Stability analysis
- ? Quartile:

2025:

- ? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)

2018:

- ? Electrical and Electronic Engineering (Q1, rank 13, percentile 98)
- ? Source Id: 26055
- ? Author Ids: 57000380300;24921472500;7401455937;6602830299;55370605300
- ? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
- ? Corresponding: Salis V.

71.

- ? Title: Position control study of a bearingless multi-sector permanent magnet machine
- ? Venue: Proceedings IECON 2017 43rd Annual Conference of the IEEE Industrial Electronics Society
- ? Year: 2017
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 11
- ? Doi: 10.1109/lecon.2017.8217548
- ? Scopus ID: 2-s2.0-85046695088
- ? Volume: 2017-January
- ? Pages: 8808-8813
- ? Authors: Valente G.; Formentini A.; Papini L.; Zanchetta P.; Gerada C.
- ? Keywords: Bearingless machines | Multi-Sector Permanent Magnet machines | Radial Force Control
- ? Source Id: 21100859900
- ? Author Ids: 57192678865;55370605300;36515353900;6602830299;56264118100
- ? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
- ? Corresponding: Valente G.

72.

- ? Title: The design of a position-based repetitive control for speed ripple reduction in PMLSMs
? Venue: Proceedings IECON 2017 43rd Annual Conference of the IEEE Industrial Electronics Society
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/lecon.2017.8216626
? Scopus ID: 2-s2.0-85046680095
? Volume: 2017-January
? Pages: 3688-3692
? Authors: Tang Mi; Formentini Andrea; Odhano Shafiq; Zanchetta Pericle
? Keywords: deadbeat control | permanent magnet linear synchronous machine | repetitive control | speed ripple reduction
? Source Id: 21100859900
? Author Ids: 57188634600;55370605300;55976320300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138
? Corresponding: Tang M.
- 73.
- ? Title: Automated and scalable optimal control of three-Phase embedded power grids including PLL
? Venue: 2017 IEEE Energy Conversion Congress and Exposition Ecce 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Ecce.2017.8096735
? Scopus ID: 2-s2.0-85041406752
? Volume: 2017-January
? Pages: 4252-4259
? Authors: Dewar David; Formentini Andrea; Zanchetta Pericle
? Keywords: Embedded power grids | H2 control | Optimal control
? Source Id: 21100850504
? Author Ids: 57191349066;55370605300;6602830299
? Corresponding: Dewar D.
- 74.
- ? Title: IGBT-SiC dual fed ground power unit
? Venue: 2017 IEEE Energy Conversion Congress and Exposition Ecce 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Ecce.2017.8096894
? Scopus ID: 2-s2.0-85041374316
? Volume: 2017-January
? Pages: 5332-5338
? Authors: Rovere Luca; Formentini Andrea; Calzo Giovanni Lo; Zanchetta Pericle; Cassia Andrea; Marchesoni Mario
? Keywords: Dual inverter | Ground power unit | Linear quadratic regulator | Silicon carbide technology
? Source Id: 21100849706
? Author Ids: 57190687733;55370605300;57191194891;6602830299;57200449388;6701827441
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60025153;60025153

? Corresponding: Rovere L.

75.

? Title: A Fractional Delay Variable Frequency Repetitive Control for Torque Ripple Reduction in PMSMs

? Venue: IEEE Transactions on Industry Applications

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 74

? Doi: 10.1109/Tia.2017.2725824

? Scopus ID: 2-s2.0-85023613669

? Issn: 00939994

? Volume: 53

? Issue: 6

? Pages: 5553-5562

? Authors: Tang Mi; Gaeta Alberto; Formentini Andrea; Zanchetta Pericle

? Keywords: Deadbeat control | permanent magnet machines | repetitive control | torque ripple reduction | variable speed drives

? 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)

2017:

? Industrial and Manufacturing Engineering (Q1, rank 24, percentile 92)

? Electrical and Electronic Engineering (Q1, rank 70, percentile 89)

? Control and Systems Engineering (Q1, rank 29, percentile 87)

? Source Id: 17361

? Author Ids: 57188634600;35274994100;55370605300;6602830299

? Authoraffiliationids: 60015138;60113691;60015138;60015138

? Corresponding: Tang M.

76.

? Title: Modulated Predictive Control for Indirect Matrix Converter

? Venue: IEEE Transactions on Industry Applications

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 77

? Doi: 10.1109/Tia.2017.2699666

? Scopus ID: 2-s2.0-85031040391

? Issn: 00939994

? Volume: 53

? Issue: 5

? Pages: 4644-4654

? Authors: Tarisciotti Luca; Lei Jiaxing; Formentini Andrea; Trentin Andrew; Zanchetta

Pericle; Wheeler Patrick; Rivera Marco

? Keywords: AC-AC power conversion | indirect matrix converter (IMC) | modulated model predictive control (M2PC) | predictive control

? 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)

2017:

? Industrial and Manufacturing Engineering (Q1, rank 24, percentile 92)
? Electrical and Electronic Engineering (Q1, rank 70, percentile 89)
? Control and Systems Engineering (Q1, rank 29, percentile 87)
? Source Id: 17361
? Author Ids:
36705170900;56106958200;55370605300;16231836900;6602830299;7101693838;35230846600
? Authoraffiliationids: 60015138;60021666;60015138;60015138;60015138;60015138;60015138;60016278
? Corresponding: Tarisciotti L.

77.

? Title: Direct flux and current vector control for induction motor drives using model predictive control theory
? Venue: Iet Electric Power Applications
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 19
? DOI: 10.1049/iet-epa.2016.0872
? Scopus ID: 2-s2.0-85028759778
? Issn: 17518660
? eISSN: 17518679
? Volume: 11
? Issue: 8
? Pages: 1483-1491
? Authors: Odhano Shafiq; Bojoi Radu; Formentini Andrea; Zanchetta Pericle; Tenconi Alberto
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 426, percentile 57)
2017:
? Electrical and Electronic Engineering (Q2, rank 199, percentile 70)
? Source Id: 5100155084
? Author Ids: 55976320300;57216646029;55370605300;6602830299;7004248370
? Authoraffiliationids: 60015138;60012162;60015138;60015138;60012162
? Corresponding: Odhano S.

78.

? Title: IGBT-SiC dual fed open end winding PMSM drive
? Venue: 2017 IEEE International Electric Machines and Drives Conference Iemdc 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 21
? Doi: 10.1109/lemdc.2017.8002155
? Scopus ID: 2-s2.0-85030323401
? Authors: Rovere Luca; Formentini Andrea; Calzo Giovanni Lo; Zanchetta Feriole; Cox Tom
? Keywords: Dual Inverter Drive | open end winding | permanent magnet synchronous motor
| Silicon Carbide Technology | Wide bandgap devices | zero/sequence current
? Source Id: 21100832677
? Author Ids: 57190687733;55370605300;57191194891;36163207600;57202863074
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Rovere L.

79.

? Title: Radial force control of Multi-Sector Permanent Magnet machines considering radial rotor displacement

? Venue: Proceedings 2017 IEEE Workshop on Electrical Machines Design Control and Diagnosis Wemdcd 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Wemdcd.2017.7947737
? Scopus ID: 2-s2.0-85023193321
? Pages: 140-145
? Authors: Valente G.; Papini L.; Formentini A.; Gerada C.; Zanchetta P.
? Keywords: Radial force control | Static eccentricity | Stiffness matrix
? Source Id: 21100822818
? Author Ids: 57192678865;36515353900;55370605300;56264118100;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Valente G.

80.

? Title: UCube: Control platform for power electronics
? Venue: Proceedings 2017 IEEE Workshop on Electrical Machines Design Control and Diagnosis Wemdcd 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 75
? Doi: 10.1109/Wemdcd.2017.7947749
? Scopus ID: 2-s2.0-85023187591
? Pages: 216-221
? Authors: Galassini A.; Lo Calzo G.; Formentini A.; Gerada C.; Zanchetta P.; Costabeber A.
? Keywords: Control | Control board | Control platform | Microzed | Power converters | Power Electronics | UCube | Zynq
? Source Id: 21100822818
? Author Ids: 56943446300;36727945400;55370605300;56264118100;6602830299;24921472500
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138;60015138
? Corresponding: Galassini A.

81.

? Title: A Switched Predictive Controller for an Electrical Powertrain System with Backlash
? Venue: IEEE Transactions on Power Electronics
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 49
? Doi: 10.1109/Tpel.2016.2587756
? Scopus ID: 2-s2.0-85012284294
? Issn: 08858993
? Volume: 32
? Issue: 5
? Pages: 4036-4047
? Authors: Formentini Andrea; Oliveri Alberto; Marchesoni Mario; Storace Marco
? Keywords: Backlash | Model predictive control (MPC) | Permanent magnet synchronous motors (PMSMs)
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)

2017:

- ? Electrical and Electronic Engineering (Q1, rank 9, percentile 98)
- ? Source Id: 26055
- ? Author Ids: 55370605300;57200399832;6701827441;7004134087
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153
- ? Corresponding: Formentini A.

82.

- ? Title: Model Predictive Control for Shunt Active Filters with Fixed Switching Frequency
- ? Venue: IEEE Transactions on Industry Applications
- ? Year: 2017
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 237
- ? Doi: 10.1109/Tia.2016.2606364
- ? Scopus ID: 2-s2.0-85017154855
- ? Issn: 00939994
- ? Volume: 53
- ? Issue: 1
- ? Pages: 296-304
- ? Authors: Tarisciotti Luca; Formentini Andrea; Gaeta Alberto; Degano Marco; Zanchetta Pericle; Rabbeni Roberto; Pucci Marcello
- ? Keywords: Active filters | harmonic distortion | model predictive control (MPC) | power filters | power quality | smart grids
- ? 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)

2017:

- ? Industrial and Manufacturing Engineering (Q1, rank 24, percentile 92)
- ? Electrical and Electronic Engineering (Q1, rank 70, percentile 89)
- ? Control and Systems Engineering (Q1, rank 29, percentile 87)

? Source Id: 17361

? Author Ids:

- 36705170900;55370605300;35274994100;57214847537;6602830299;53985059300;7004354345
- ? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138;60017697;60016217
 - ? Corresponding: Tarisciotti L.

83.

- ? Title: Oversampled deadbeat current control strategy for PMSM drives
- ? Venue: IECON Proceedings Industrial Electronics Conference
- ? Year: 2016
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 7
- ? Doi: 10.1109/lecon.2016.7793516
- ? Scopus ID: 2-s2.0-85010049855
- ? Pages: 2868-2872
- ? Authors: Rovere Luca; Formentini Andrea; Zanchetta Pericle
- ? Keywords: Deadbeat Control | PMSM Drives
- ? Source Id: 56670
- ? Author Ids: 57190687733;55370605300;6602830299
- ? Authoraffiliationids: 60015138;60015138;60015138
- ? Corresponding: Rovere L.

84.

? Title: Design of a repetitive controller as a feed-forward disturbance observer
? Venue: IECON Proceedings Industrial Electronics Conference
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 10
? Doi: 10.1109/lecon.2016.7793242
? Scopus ID: 2-s2.0-85010023010
? Pages: 78-83
? Authors: Tang M.; Formentini A.; Odhano S.; Zanchetta P.
? Keywords: Control design | Discrete-time system | Disturbance observer | Reduced-order observer | Repetitive control | Stability analysis | State estimation
? Source Id: 56670
? Author Ids: 57188634600;55370605300;55976320300;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138
? Corresponding: Tang M.

85.

? Title: Finite control set and modulated model predictive flux and current control for induction motor drives
? Venue: IECON Proceedings Industrial Electronics Conference
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 16
? Doi: 10.1109/lecon.2016.7793839
? Scopus ID: 2-s2.0-85010022707
? Pages: 2796-2801
? Authors: Odhano S. A.; Formentini A.; Zanchetta P.; Bojoi R.; Tenconi A.
? Keywords: Induction motors | Machine control | Mathematical model | Predictive control | Pulse width modulation converters | Signal sampling | State estimation | Variable speed drives
? Source Id: 56670
? Author Ids: 55976320300;55370605300;6602830299;57216646029;7004248370
? Authoraffiliationids: 60015138;60015138;60015138;60012162;60012162
? Corresponding: Odhano S.A.

86.

? Title: Enhanced DBCC for high-speed permanent magnet synchronous motor drives
? Venue: Iet Power Electronics
? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 17
? DOI: 10.1049/iet-pel.2015.0232
? Scopus ID: 2-s2.0-85000900072
? Issn: 17554535
? eISSN: 17554543
? Volume: 9
? Issue: 15
? Pages: 2880-2890
? Authors: Tang Mi; Gaeta Alberto; Formentini Andrea; Ohyama Kazuhiro; Zanchetta Pericle; Asher Greg
? Quartile:
2025:

- ? Electrical and Electronic Engineering (Q2, rank 321, percentile 67)
2016:
? Electrical and Electronic Engineering (Q1, rank 80, percentile 87)
? Source Id: 19700186866
? Author Ids: 57188634600;35274994100;55370605300;56221479100;6602830299;7005187780
? Authoraffiliationids: 60015138;60113691;60015138;60009108;60015138;60015138
? Corresponding: Tang M.
87.
? Title: Radial force control of multi-sector permanent magnet machines
? Venue: Proceedings 2016 22nd International Conference on Electrical Machines ICEM 2016
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 15
? Doi: 10.1109/Icelmach.2016.7732887
? Scopus ID: 2-s2.0-85007392502
? Pages: 2595-2601
? Authors: Valente G.; Papini L.; Formentini A.; Gerada C.; Zanchetta P.
? Keywords: Bearingless Multi-Sector Permanent Magnet machines | Pseudo inverse matrix | Radial Force Control | Singular Value Decomposition (SVD) | Vibration Damping
? Source Id: 21100790320
? Author Ids: 57192678865;36515353900;55370605300;56264118100;6602830299
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60015138
? Corresponding: Valente G.
88.
? Title: Sensorless Finite-Control Set Model Predictive Control for IPMSM Drives
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 89
? Doi: 10.1109/Tie.2016.2578281
? Scopus ID: 2-s2.0-84982266854
? Issn: 02780046
? Volume: 63
? Issue: 9
? Pages: 5921-5931
? Authors: Rovere Luca; Formentini Andrea; Gaeta Alberto; Zanchetta Pericle; Marchesoni Mario
? Keywords: Interior permanent-magnet synchronous motor (IPMSM) drives | model predictive control | sensorless control
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
? Control and Systems Engineering (Q1, rank 17, percentile 95)
2016:
? Control and Systems Engineering (Q1, rank 1, percentile 99)
? Electrical and Electronic Engineering (Q1, rank 5, percentile 99)
? Source Id: 26053
? Author Ids: 57190687733;55370605300;35274994100;6602830299;6701827441
? Authoraffiliationids: 60015138;60015138;60113691;60015138;60025153
? Corresponding: Rovere L.

89.

? Title: Optimal control of three-phase embedded power grids
? Venue: 2016 IEEE 17th Workshop on Control and Modeling for Power Electronics COMPEL 2016
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Compel.2016.7556771
? Scopus ID: 2-s2.0-84988920855
? Authors: Formentini Andrea; Dewar David; Zanchetta Pericle; Wheeler Pat; Boroyevich Dushan; Schanen Jean Luc
? Keywords: embedded power grid | optimal control
? Source Id: 21100780886
? Author Ids: 55370605300;57191349066;6602830299;7101693838;35598746300;7004499496
? Authoraffiliationids: 60015138;60015138;60015138;60015138;60157272;60104653
? Corresponding: Formentini A.

90.

? Title: Fixed frequency finite-state model predictive control for indirect matrix converters with optimal switching pattern
? Venue: Ecce 2016 IEEE Energy Conversion Congress and Exposition Proceedings
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 9
? Doi: 10.1109/Ecce.2016.7855118
? Scopus ID: 2-s2.0-85015450499
? Authors: Lei Jiaxing; Tarisciotti Luca; Trentin Andrew; Zanchetta Pericle; Wheeler Patrick; Formentini Andrea
? Keywords: Indirect Matrix Converter (IMC) | Modulated Model Predictive Control (M2PC) | Switching Pattern
? Source Id: 21100823368
? Author Ids: 56106958200;36705170900;16231836900;6602830299;7101693838;55370605300
? Authoraffiliationids: 60021666;60015138;60015138;60015138;60015138;60015138
? Corresponding: Lei J.

91.

? Title: Taking into account interactions between converters in the design of aircraft power networks
? Venue: Ecce 2016 IEEE Energy Conversion Congress and Exposition Proceedings
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.1109/Ecce.2016.7855493
? Scopus ID: 2-s2.0-85015413891
? Authors: Li Q.; Formentini A.; Baraston A.; Zhang X.; Zanchetta P.; Schanen J. L.; Boroyevich D.
? Keywords: Control | Design | Embedded Grids | EMC | Optimization | Power Electronics | Stability
? Source Id: 21100823368
? Author Ids: 55703476600;55370605300;57189004781;38461647000;6602830299;7004499496;35598746300
? Authoraffiliationids: 60157272;60015138;60104653;60157272;60015138;60104653;60157272
? Corresponding: Li Q.

92.

? Title: A variable frequency angle-based repetitive control for torque ripple reduction in PMSMs
? Venue: Iet Conference Publications
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? DOI: 10.1049/cp.2016.0325
? Scopus ID: 2-s2.0-85009077532
? Volume: 2016
? Issue: CP684
? Authors: Tang M.; Gaeta A.; Formentini A.; Zanchetta P.
? Keywords: Deadbeat control | PMSM | Repetitive control | Torque ripple | Variable frequency
? Source Id: 5400152619
? Author Ids: 57188634600;35274994100;55370605300;6602830299
? Authoraffiliationids: 60015138;60113691;60015138;60015138
? Corresponding: Tang M.

93.

? Title: Speed Finite Control Set Model Predictive Control of a PMSM Fed by Matrix Converter
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2015
? Type: Journal
? Subtype: Article
? Citations: 141
? Doi: 10.1109/Tie.2015.2442526
? Scopus ID: 2-s2.0-84944339646
? Issn: 02780046
? Volume: 62
? Issue: 11
? Pages: 6786-6796
? Authors: Formentini Andrea; Trentin Andrew; Marchesoni Mario; Zanchetta Pericle; Wheeler Pat
? Keywords: FCS-MPC | Matrix Converter | PMSM drive
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
? Control and Systems Engineering (Q1, rank 17, percentile 95)
2015:
? Control and Systems Engineering (Q1, rank 1, percentile 99)
? Electrical and Electronic Engineering (Q1, rank 5, percentile 99)
? Subject (Q1, rank 4, percentile 99)
? Source Id: 26053
? Author Ids: 55370605300;16231836900;6701827441;6602830299;7101693838
? Authoraffiliationids: 60025153-60015138;60015138;60025153;60015138;60015138
? Corresponding: Formentini A.

94.

? Title: Finite states modulated model predictive control for active power filtering systems
? Venue: 2015 IEEE Energy Conversion Congress and Exposition Ecce 2015
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper

- ? Citations: 15
? Doi: 10.1109/Ecce.2015.7309879
? Scopus ID: 2-s2.0-84963624890
? Pages: 1556-1562
? Authors: Rabbeni Roberto; Tarisciotti Luca; Gaeta Alberto; Formentini Andrea; Zanchetta Pericle; Pucci Marcello; Degano Marco; Rivera Marco
? Keywords: active filters | harmonic distortion | MMPC | MPC | power filters | power quality | predictive control | smart grids
? Source Id: 21100455575
? Author Ids: 53985059300;36705170900;35274994100;55370605300;6602830299;7004354345;57214847537;35230846600
? Authoraffiliationids: ;60015138;60015138;60015138;60015138;60016217;60015138;60016278
? Corresponding: Rabbeni R.
95.
? Title: PSO-based self-commissioning of electrical motor drives
? Venue: IEEE Transactions on Industrial Electronics
? Year: 2015
? Type: Journal
? Subtype: Article
? Citations: 86
? Doi: 10.1109/Tie.2014.2349478
? Scopus ID: 2-s2.0-84920896516
? Issn: 02780046
? Volume: 62
? Issue: 2
? Pages: 768-776
? Authors: Calvini Marco; Carpita Mauro; Formentini Andrea; Marchesoni Mario
? Keywords: Backlash | particle swarm optimization (PSO) | permanent-magnet synchronous motor (PMSM) drive | self-commissioning
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
? Control and Systems Engineering (Q1, rank 17, percentile 95)
2015:
? Control and Systems Engineering (Q1, rank 1, percentile 99)
? Electrical and Electronic Engineering (Q1, rank 5, percentile 99)
? Subject (Q1, rank 4, percentile 99)
? Source Id: 26053
? Author Ids: 14422097400;6603270189;55370605300;6701827441
? Authoraffiliationids: 101296397;60101868;60025153;60025153
? Corresponding: Calvini M.
96.
? Title: A new mains voltage observer for PMSM drives fed by matrix converters
? Venue: 2014 16th European Conference on Power Electronics and Applications EPE Ecce Europe 2014
? Year: 2014
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 15
? Doi: 10.1109/Epe.2014.6910946
? Scopus ID: 2-s2.0-84923878736
? Authors: Formentini Andrea; De Lillo Liliana; Marchesoni Mario; Trentin Andrew; Wheeler Patrick; Zanchetta Pericle
? Keywords: FCS-MPC | Matrix Converter | PMSM

? Source Id: 21100376109
? Author Ids: 55370605300;16068115600;6701827441;16231836900;7101693838;6602830299
? Authoraffiliationids: 60025153;60015138;60025153;60015138;60015138;60015138
? Corresponding: Formentini A.

97.

? Title: A sensorless PMSM drive with inductance estimation based on FPGA
? Venue: Speedam 2012 21st International Symposium on Power Electronics Electrical
Drives Automation and Motion
? Year: 2012
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.1109/Speedam.2012.6264453
? Scopus ID: 2-s2.0-84866921368
? Pages: 1039-1044
? Authors: Formentini A.; Maragliano G.; Marchesoni M.; Vaccaro L.
? Keywords: Estimation technique | FPGA | Permanent magnet synchronous motor |
Sensorless control
? Source Id: 21100216928
? Author Ids: 55370605300;36778746300;6701827441;21935399500
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Formentini A.

98.

? Title: Self-commissioning of direct drive systems
? Venue: Speedam 2012 21st International Symposium on Power Electronics Electrical
Drives Automation and Motion
? Year: 2012
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Speedam.2012.6264436
? Scopus ID: 2-s2.0-84866897648
? Pages: 1348-1353
? Authors: Calvini M.; Formentini A.; Maragliano G.; Marchesoni M.
? Keywords: direct drive | PID | PSO | Self-commissioning
? Source Id: 21100216928
? Author Ids: 14422097400;55370605300;36778746300;6701827441
? Authoraffiliationids: 113106893;60025153;60025153;60025153
? Corresponding: Calvini M.