

# LODI MATTEO

## Overview

- ? Unit: ICT
- ? Role: Ricercatore
- ? Grade: Ricercatore t.d. art. 24 c. 3 lett. B Legge 240/10 (t.pieno) + 20%
- ? SSD: IIET-01/A (Elettrotecnica)
- ? Scopus ID: 57200266678
- ? Unige Id: 356981
- ? Retrieved at: 2025-11-14T15:16:05.995611

## Contact

- ? Email: matteo.lodi@unige.it
- ? Page: <https://rubrica.unige.it/personale/VkZBUIJo>
- ? Locations: Opera Pia - padiglione D (ED161450401), 2° piano, US161450401.II.028

## Career

- ? Dr, 2015-11-01 ? 2018-10-31
- ? Cb, 2017-02-22 ? 2020-09-20
- ? Ar, 2018-11-02 ? 2021-09-30
- ? Rd, 2021-10-01 ? 2026-06-30

## Teaching

### 2025

- ? Circuits And Systems (114620), L-8 - Ingegneria Informatica
- ? Elettrotecnica (98175), L-9 - Ingegneria Gestionale
- ? Elettrotecnica (98175), L-9 - Ingegneria Gestionale
- ? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering

### 2024

- ? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering
- ? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

### 2023

- ? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering
- ? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

### 2022

- ? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering
- ? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

### 2021

- ? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering
- ? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

## Scopus Metrics

- ? absolute; Docs: 59; Journals: 27; Conferences: 31; Citations: 518; H-index: 13
- ? 15 years (2010-2025); Docs: 59; Journals: 27; Conferences: 31; Citations: 518; H-index: 13
- ? 10 years (2015-2025); Docs: 58; Journals: 27; Conferences: 30; Citations: 516; H-index: 13
- ? 05 years (2020-2025); Docs: 37; Journals: 22; Conferences: 14; Citations: 269; H-index: 8

## Scopus Products

1.

? Title: Synthetic inertia estimation in the presence of measurement noise and delays: An application to wind turbine generators  
? Venue: International Journal of Electrical Power and Energy Systems  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.1016/j.ijepes.2025.110511  
? Scopus ID: 2-s2.0-85217714961  
? Issn: 01420615  
? Volume: 166  
? Authors: Baruzzi Valentina; Rosini Alessandro; Lodi Matteo; Bonfiglio Andrea; Oliveri Alberto  
? Keywords: Real-time simulations | Synthetic inertia | Wind turbine generator  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)  
? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)  
? Source Id: 17985  
? Author Ids: 57216455935;57204050700;57200266678;36607521000;57200399832  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Baruzzi V.

2.

? Title: FPGA Implementation of Nonlinear Model Predictive Control for a Boost Converter with a Partially Saturating Inductor  
? Venue: Electronics Switzerland  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? DOI: 10.3390/electronics14050941  
? Scopus ID: 2-s2.0-86000650676  
? eISSN: 20799292  
? Volume: 14  
? Issue: 5  
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco  
? Keywords: magnetic saturation | nonlinear model predictive control | switched mode power supply  
? 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)  
? Source Id: 21100829272  
? Author Ids: 57214792545;57200399832;57200266678;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Ravera A.

3.

? Title: Modeling Amorphous-Core Inductors up to Magnetic Saturation  
? Venue: IEEE Transactions on Power Electronics

? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 5  
? Doi: 10.1109/Tpel.2024.3463803  
? Scopus ID: 2-s2.0-85204943092  
? Issn: 08858993  
? eISSN: 19410107  
? Volume: 40  
? Issue: 1  
? Pages: 1563-1576  
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Beatrice Cinzia; Ferrara Enzo; Fiorillo Fausto; Storace Marco  
? Keywords: Amorphous core | magnetic saturation | nonlinear circuit model | power inductor  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)  
? Source Id: 26055  
? Author Ids:  
57214792545;57200399832;57200266678;7004523868;56211874000;7006013405;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153;60073835;60073835;60073835;60025153  
? Corresponding: Ravera A.

4.  
? Title: Low-Level Simulation of a Grid-Following Inverter with Synthetic Inertia  
? Venue: 2025 Aeit Hvdc International Conference Aeit Hvdc 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Aeithvdc66044.2025.11079533  
? Scopus ID: 2-s2.0-105012573490  
? Authors: Lodi M.; Oliveri A.; Saviozzi M.; Conte F.; Baggi P.  
? Keywords: Commercial inverter | inverter modeling | Synthetic inertia  
? Source Id: 21101318126  
? Author Ids: 57200266678;57200399832;56027556100;57151673600;60030400500  
? Authoraffiliationids: 60025153;60025153;60025153;60005308;132941234  
? Corresponding: Lodi M.

5.  
? Title: Cluster Synchronization and Associative Memory in Adaptive Networks with Neural Plasticity  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/lscas56072.2025.11044239  
? Scopus ID: 2-s2.0-105010617695  
? Issn: 02714310  
? Authors: Lodi Matteo; Sorrentino Francesco; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
? Source Id: 56190

? Author Ids: 57200266678;57203233721;7004134087

? Authoraffiliationids: 60025153;60138187;60025153

? Corresponding: Lodi M.

6.

? Title: A black-box approach for generating surrogate data for an amorphous-core inductor working up to magnetic saturation

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/lscas56072.2025.11043328

? Scopus ID: 2-s2.0-105010594000

? Issn: 02714310

? Authors: Ravera Alessandro; Baazaoui Sofien; Lodi Matteo; Oliveri Alberto; Storace Marco

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

? Source Id: 56190

? Author Ids: 57214792545;59332602300;57200266678;57200399832;7004134087

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

? Corresponding: Ravera A.

7.

? Title: The efficiency of synchronization dynamics and the role of network syncreactivity

? Venue: Nature Communications

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 5

? DOI: 10.1038/s41467-024-52486-0

? Scopus ID: 2-s2.0-85206872910

? eISSN: 20411723

? Volume: 15

? Issue: 1

? Authors: Nazerian Amirhossein; Hart Joseph D.; Lodi Matteo; Sorrentino Francesco

? Quartile:

2025:

? Physics and Astronomy (all) (Q1, rank 5, percentile 98)

? Multidisciplinary (Q1, rank 6, percentile 97)

? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 7, percentile 97)

? Chemistry (all) (Q1, rank 16, percentile 96)

2024:

? Multidisciplinary (Q1, rank 5, percentile 97)

? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 7, percentile 97)

? Physics and Astronomy (all) (Q1, rank 8, percentile 96)

? Chemistry (all) (Q1, rank 15, percentile 96)

? Source Id: 19700182758

? Author Ids: 57350145000;56785031400;57200266678;57203233721

? Authoraffiliationids: 60138187;60027271;60025153;60138187

? Corresponding: Nazerian A.

8.

? Title: Patterns of synchronized clusters in adaptive networks

? Venue: Communications Physics  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 7  
? DOI: 10.1038/s42005-024-01688-5  
? Scopus ID: 2-s2.0-85196480826  
? eISSN: 23993650  
? Volume: 7  
? Issue: 1  
? Authors: Lodi Matteo; Panahi Shirin; Sorrentino Francesco; Torcini Alessandro; Storace Marco  
? Quartile:

2025:

? Physics and Astronomy (all) (Q1, rank 30, percentile 88)

2024:

? Physics and Astronomy (all) (Q1, rank 30, percentile 88)

? Source Id: 21100924862

? Author Ids: 57200266678;57220564996;57203233721;56028770100;7004134087

? Authoraffiliationids:

60025153;60138187;60138187;60134716-60113687-60113678;60025153-60138187

? Corresponding: Lodi M.

9.

? Title: Design, realization and testing of a synthetic inertia controller for wind turbine power generators

? Venue: Sustainable Energy Grids and Networks

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.1016/j.segan.2023.101234

? Scopus ID: 2-s2.0-85183574846

? eISSN: 23524677

? Volume: 38

? Authors: Bonfiglio Andrea; Lodi Matteo; Rosini Alessandro; Oliveri Alberto; Procopio Renato

? Keywords: FPGA | Synthetic inertia | Wind turbine generator

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)

? Control and Systems Engineering (Q1, rank 52, percentile 86)

? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)

? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)

2024:

? Electrical and Electronic Engineering (Q1, rank 122, percentile 87)

? Control and Systems Engineering (Q1, rank 52, percentile 86)

? Energy Engineering and Power Technology (Q1, rank 53, percentile 82)

? Renewable Energy, Sustainability and the Environment (Q2, rank 77, percentile 74)

? Source Id: 21100371258

? Author Ids: 36607521000;57200266678;57204050700;57200399832;7801615894

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

? Corresponding: Bonfiglio A.

10.

? Title: A Comparative Analysis of Different Virtual Inertia Controllers in Power Grids

with Renewable Energy Sources

? Venue: 2024 IEEE Workshop on Complexity in Engineering Compeng 2024

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Compeng60905.2024.10741407

? Scopus ID: 2-s2.0-85212196186

? Authors: Ahmadimonfared Zahra; Lodi Matteo; Oliveri Alberto; Storace Marco

? Source Id: 21101264268

? Author Ids: 59474072200;57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ahmadimonfared Z.

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: Optimization strategies to obtain smooth gait transitions through biologically plausible central pattern generators

? Venue: Physical Review E

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 1

? DOI: 10.1103/PhysRevE.109.014404

? Scopus ID: 2-s2.0-85183455819

? Issn: 24700045

? eISSN: 24700053

? Volume: 109

? Issue: 1

? Authors: Baruzzi V.; Lodi M.; Storace M.

? Quartile:

2025:

? Statistics and Probability (Q1, rank 50, percentile 83)

? Statistical and Nonlinear Physics (Q2, rank 23, percentile 64)

? Condensed Matter Physics (Q2, rank 208, percentile 53)

2024:

? Statistics and Probability (Q1, rank 50, percentile 83)

? Statistical and Nonlinear Physics (Q2, rank 21, percentile 66)

? Condensed Matter Physics (Q2, rank 182, percentile 59)

? Source Id: 21100855841

? Author Ids: 57216455935;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Baruzzi V.

14.

? Title: Bridging functional and anatomical neural connectivity through cluster synchronization

? Venue: Scientific Reports

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.1038/s41598-023-49746-2

? Scopus ID: 2-s2.0-85179978424

? eISSN: 20452322

? Volume: 13

? Issue: 1

? Authors: Baruzzi Valentina; Lodi Matteo; Sorrentino Francesco; Storace Marco

? Quartile:

2025:

? Multidisciplinary (Q1, rank 28, percentile 86)

2023:

- ? Multidisciplinary (Q1, rank 14, percentile 92)
  - ? Source Id: 21100200805
  - ? Author Ids: 57216455935;57200266678;57203233721;7004134087
  - ? Authoraffiliationids: 60025153;60025153;60138187;60025153
  - ? Corresponding: Baruzzi V.
- 15.
- ? Title: Co-Design of a Controller and Its Digital Implementation: The MOBY-DIC2 Toolbox for Embedded Model Predictive Control
  - ? Venue: IEEE Transactions on Control Systems Technology
  - ? Year: 2023
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 5
  - ? Doi: 10.1109/Tcst.2023.3254133
  - ? Scopus ID: 2-s2.0-85151336066
  - ? Issn: 10636536
  - ? eISSN: 15580865
  - ? Volume: 31
  - ? Issue: 6
  - ? Pages: 2871-2878
  - ? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Bemporad Alberto; Heemels W. P.M.H.; Kerrigan Eric C.; Storace Marco
  - ? Keywords: Embedded model predictive control (MPC) | field programmable gate array (FPGA) | hardware-software co-design
  - ? Quartile:
- 2025:
- ? Control and Systems Engineering (Q1, rank 34, percentile 91)
  - ? Electrical and Electronic Engineering (Q1, rank 96, percentile 90)
- 2023:
- ? Control and Systems Engineering (Q1, rank 31, percentile 90)
  - ? Electrical and Electronic Engineering (Q1, rank 82, percentile 89)
- ? Source Id: 17342
  - ? Author Ids: 57214792545;57200399832;57200266678;7005030586;7004095044;57200653945;7004134087
  - ? Authoraffiliationids: 60025153;60025153;60025153;60102060;60032882;60015150;60025153
  - ? Corresponding: Ravera A.
- 16.
- ? Title: Use of a Partially Saturating Inductor in a Boost Converter with Model Predictive Control
  - ? Venue: Electronics Switzerland
  - ? Year: 2023
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 6
  - ? DOI: 10.3390/electronics12143013
  - ? Scopus ID: 2-s2.0-85166222674
  - ? eISSN: 20799292
  - ? Volume: 12
  - ? Issue: 14
  - ? Authors: Firpo Pietro; Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco
  - ? Keywords: magnetic saturation | nonlinear model predictive control | switched mode power supply
  - ? 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)

2023:

? Control and Systems Engineering (Q2, rank 94, percentile 70)  
? Electrical and Electronic Engineering (Q2, rank 244, percentile 69)  
? Computer Networks and Communications (Q2, rank 139, percentile 64)  
? Hardware and Architecture (Q2, rank 64, percentile 64)  
? Signal Processing (Q2, rank 49, percentile 62)

? Source Id: 21100829272

? Author Ids: 58512300500;57214792545;57200399832;57200266678;7004134087

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

? Corresponding: Firpo P.

17.

? Title: Stability Analysis of the Synchronous Solution in Arrays of Memristive Chua's Circuits

? Venue: IEEE Transactions on Circuits and Systems II Express Briefs

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 4

? Doi: 10.1109/Tcsii.2023.3259008

? Scopus ID: 2-s2.0-85151544305

? Issn: 15497747

? eISSN: 15583791

? Volume: 70

? Issue: 5

? Pages: 1694-1698

? Authors: Lodi Matteo; Forti Mauro; Storace Marco

? Keywords: Chua's circuit | master stability function | memristor | synchronization

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)

2023:

? Electrical and Electronic Engineering (Q1, rank 137, percentile 82)

? Source Id: 9500153930

? Author Ids: 57200266678;7006515448;7004134087

? Authoraffiliationids: 60025153;60002838;60025153

? Corresponding: Lodi M.

18.

? Title: MADS-based fast FPGA implementation of nonlinear model predictive control

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/lscas46773.2023.10181647

? Scopus ID: 2-s2.0-85166261084

? Issn: 02714310

? Volume: 2023-May

? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco

? Keywords: FPGA | mesh adaptive direct search | nonlinear model predictive control

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2023:

? Electrical and Electronic Engineering (Q3, rank 496, percentile 37)

? Source Id: 56190

? Author Ids: 57214792545;57200399832;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

19.

? Title: A nonlinear behavioral model of a ferrite-core inductor with fixed-frequency sinusoidal voltage input

? Venue: Eurocon 2023 20th International Conference on Smart Technologies Proceedings

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 8

? Doi: 10.1109/Eurocon56442.2023.10199021

? Scopus ID: 2-s2.0-85166236237

? Pages: 418-422

? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco

? Source Id: 21101173014

? Author Ids: 57214792545;57200399832;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

20.

? Title: Embedded Implementation of an Algorithm for Online Inertia Estimation in Power Grids

? Venue: Lecture Notes in Networks and Systems

? Year: 2023

? Type: Book Series

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1007/978-3-031-16281-7\_9

? Scopus ID: 2-s2.0-85137974665

? Issn: 23673370

? eISSN: 23673389

? Volume: 546 Lnns

? Pages: 84-94

? Authors: Ravera Alessandro; Baruzzi Valentina; Lodi Matteo; Oliveri Alberto; Storace Marco

? Keywords: Inertia estimation | Microcontroller | Renewable energy sources

? Quartile:

2025:

? Signal Processing (Q3, rank 146, percentile 25)

? Computer Networks and Communications (Q3, rank 410, percentile 25)

? Control and Systems Engineering (Q4, rank 302, percentile 20)

2023:

? Signal Processing (Q4, rank 113, percentile 14)

? Control and Systems Engineering (Q4, rank 277, percentile 13)

? Computer Networks and Communications (Q4, rank 354, percentile 10)

? Source Id: 21100901469

? Author Ids: 57214792545;57216455935;57200266678;57200399832;7004134087

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

- ? Corresponding: Ravera A.
- 21.
- ? Title: Pinning control of networks: Dimensionality reduction through simultaneous block-diagonalization of matrices
  - ? Venue: Chaos
  - ? Year: 2022
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 3
  - ? Doi: 10.1063/5.0090095
  - ? Scopus ID: 2-s2.0-85143184341
  - ? Issn: 10541500
  - ? eISSN: 10897682
  - ? Volume: 32
  - ? Issue: 11
  - ? Authors: Panahi Shirin; Lodi Matteo; Storace Marco; Sorrentino Francesco
  - ? Quartile:
    - 2025:
      - ? Mathematical Physics (Q1, rank 9, percentile 90)
      - ? Applied Mathematics (Q1, rank 97, percentile 85)
      - ? Statistical and Nonlinear Physics (Q1, rank 13, percentile 80)
      - ? Engineering (all) (Q1, rank 84, percentile 75)
      - ? Physics and Astronomy (all) (Q1, rank 62, percentile 75)
    - 2022:
      - ? Mathematical Physics (Q1, rank 5, percentile 94)
      - ? Applied Mathematics (Q1, rank 59, percentile 90)
      - ? Statistical and Nonlinear Physics (Q1, rank 8, percentile 86)
      - ? Physics and Astronomy (all) (Q1, rank 50, percentile 79)
  - ? Source Id: 27430
  - ? Author Ids: 57220564996;57200266678;7004134087;57203233721
  - ? Authoraffiliationids: 60138187;60025153;60025153;60138187
  - ? Corresponding: Panahi S.
- 22.
- ? Title: Behavioral model of an amorphous-core inductor working up to partial saturation
  - ? Venue: Proceedings IEEE International Symposium on Circuits and Systems
  - ? Year: 2022
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 6
  - ? Doi: 10.1109/lscas48785.2022.9937208
  - ? Scopus ID: 2-s2.0-85142507089
  - ? Issn: 02714310
  - ? Volume: 2022-May
  - ? Pages: 1522-1526
  - ? Authors: Oliveri Alberto; Lodi Matteo; Beatrice Cinzia; Ferrara Enzo; Storace Marco; Fiorillo Fausto
  - ? Quartile:
    - 2025:
      - ? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
    - 2022:
      - ? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)
  - ? Source Id: 56190
  - ? Author Ids: 57200399832;57200266678;7004523868;56211874000;7004134087;7006013405

- ? Authoraffiliationids: 60025153;60025153;60073835;60073835;60025153;60073835  
? Corresponding: Oliveri A.
23.  
? Title: Forget partitions? Not yet...  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/lscas48785.2022.9937604  
? Scopus ID: 2-s2.0-85142479468  
? Issn: 02714310  
? Volume: 2022-May  
? Pages: 1531-1535  
? Authors: Lodi Matteo; Sorrentino Francesco; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2022:  
? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)  
? Source Id: 56190  
? Author Ids: 57200266678;57203233721;7004134087  
? Authoraffiliationids: 60025153;60138187;60025153  
? Corresponding: Lodi M.
24.  
? Title: Estimation of inertia in power grids with turbine governors  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/lscas48785.2022.9937504  
? Scopus ID: 2-s2.0-85133619628  
? Issn: 02714310  
? Volume: 2022-May  
? Pages: 819-823  
? Authors: Baruzzi Valentina; Lodi Matteo; Oliveri Alberto; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2022:  
? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)  
? Source Id: 56190  
? Author Ids: 57216455935;57200266678;57200399832;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Baruzzi V.
25.  
? Title: Nonlinear models of power inductors: A survey  
? Venue: International Journal of Circuit Theory and Applications  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 35  
? DOI: 10.1002/cta.3147

? Scopus ID: 2-s2.0-85116803994  
? Issn: 00989886  
? eISSN: 1097007X  
? Volume: 50  
? Issue: 1  
? Pages: 2-34

? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco

? Quartile:

2025:

? Applied Mathematics (Q2, rank 183, percentile 72)  
? Electrical and Electronic Engineering (Q2, rank 422, percentile 57)  
? Computer Science Applications (Q2, rank 471, percentile 52)  
? Electronic, Optical and Magnetic Materials (Q3, rank 170, percentile 45)

2022:

? Applied Mathematics (Q1, rank 145, percentile 76)  
? Computer Science Applications (Q2, rank 361, percentile 54)  
? Electrical and Electronic Engineering (Q2, rank 337, percentile 54)  
? Electronic, Optical and Magnetic Materials (Q3, rank 143, percentile 47)

? Source Id: 17963

? Author Ids: 57200399832;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Oliveri A.

26.

? Title: Towards more biologically plausible central-pattern-generator models

? Venue: Physical Review E

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 8

? DOI: 10.1103/PhysRevE.104.064405

? Scopus ID: 2-s2.0-85121654542

? Issn: 24700045

? eISSN: 24700053

? Volume: 104

? Issue: 6

? Authors: Baruzzi V.; Lodi M.; Storace M.; Shilnikov A.

? Quartile:

2025:

? Statistics and Probability (Q1, rank 50, percentile 83)  
? Statistical and Nonlinear Physics (Q2, rank 23, percentile 64)  
? Condensed Matter Physics (Q2, rank 208, percentile 53)

2021:

? Statistics and Probability (Q1, rank 29, percentile 88)  
? Statistical and Nonlinear Physics (Q1, rank 9, percentile 83)  
? Condensed Matter Physics (Q2, rank 142, percentile 65)

? Source Id: 21100855841

? Author Ids: 57216455935;57200266678;7004134087;6602635628

? Authoraffiliationids: 60025153;60025153;60025153;60012387

? Corresponding: Baruzzi V.

27.

? Title: One-way dependent clusters and stability of cluster synchronization in directed networks

? Venue: Nature Communications

? Year: 2021

- ? Type: Journal  
? Subtype: Article  
? Citations: 32  
? DOI: 10.1038/s41467-021-24363-7  
? Scopus ID: 2-s2.0-85109152543  
? eISSN: 20411723  
? Volume: 12  
? Issue: 1  
? Authors: Lodi Matteo; Sorrentino Francesco; Storace Marco  
? Quartile:  
2025:  
? Physics and Astronomy (all) (Q1, rank 5, percentile 98)  
? Multidisciplinary (Q1, rank 6, percentile 97)  
? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 7, percentile 97)  
? Chemistry (all) (Q1, rank 16, percentile 96)  
2021:  
? Multidisciplinary (Q1, rank 3, percentile 97)  
? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 5, percentile 97)  
? Chemistry (all) (Q1, rank 14, percentile 96)  
? Physics and Astronomy (all) (Q1, rank 10, percentile 96)  
? Source Id: 19700182758  
? Author Ids: 57200266678;57203233721;7004134087  
? Authoraffiliationids: 60025153;60138187;60025153  
? Corresponding: Lodi M.
28.  
? Title: A Microwave Imaging Technique for Neck Diseases Monitoring  
? Venue: 15th European Conference on Antennas and Propagation Eucap 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.23919/EuCAP51087.2021.9411191  
? Scopus ID: 2-s2.0-85105519543  
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Pastorino Matteo; Randazzo Andrea  
? Keywords: Cervical disease | hybrid inversion approach | microwave imaging  
? Source Id: 21101044864  
? Author Ids: 57206901870;55512997500;36664325500;57200266678;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Dachena C.
29.  
? Title: Analysis and improvement of an algorithm for the online inertia estimation in power grids with RES  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 13  
? Doi: 10.1109/lscas51556.2021.9401229  
? Scopus ID: 2-s2.0-85109025103  
? Issn: 02714310  
? Volume: 2021-May  
? Authors: Baruzzi Valentina; Lodi Matteo; Oliveri Alberto; Storace Marco  
? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2021:

? Electrical and Electronic Engineering (Q3, rank 419, percentile 40)

? Source Id: 56190

? Author Ids: 57216455935;57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Baruzzi V.

30.

? Title: Delays induced cluster synchronization in chaotic networks

? Venue: Chaos

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 1

? Doi: 10.1063/5.0030720

? Scopus ID: 2-s2.0-85097445752

? Issn: 10541500

? eISSN: 10897682

? Volume: 30

? Issue: 12

? Authors: Nathe Chad; Huang Ke; Lodi Matteo; Storace Marco; Sorrentino Francesco

? Quartile:

2025:

? Mathematical Physics (Q1, rank 9, percentile 90)

? Applied Mathematics (Q1, rank 97, percentile 85)

? Statistical and Nonlinear Physics (Q1, rank 13, percentile 80)

? Engineering (all) (Q1, rank 84, percentile 75)

? Physics and Astronomy (all) (Q1, rank 62, percentile 75)

2020:

? Mathematical Physics (Q1, rank 2, percentile 97)

? Applied Mathematics (Q1, rank 52, percentile 90)

? Statistical and Nonlinear Physics (Q1, rank 5, percentile 90)

? Physics and Astronomy (all) (Q1, rank 43, percentile 81)

? Source Id: 27430

? Author Ids: 57220578856;57194202388;57200266678;7004134087;57203233721

? Authoraffiliationids: 60138187;60138187;60025153;60025153;60138187

? Corresponding: Nathe C.

31.

? Title: Analyzing synchronized clusters in neuron networks

? Venue: Scientific Reports

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 28

? DOI: 10.1038/s41598-020-73269-9

? Scopus ID: 2-s2.0-85091735733

? eISSN: 20452322

? Volume: 10

? Issue: 1

? Authors: Lodi Matteo; Della Rossa Fabio; Sorrentino Francesco; Storace Marco

? Quartile:

2025:

? Multidisciplinary (Q1, rank 28, percentile 86)

2020:

- ? Multidisciplinary (Q1, rank 8, percentile 93)
- ? Source Id: 21100200805
- ? Author Ids: 57200266678;37123718500;57203233721;7004134087
- ? Authoraffiliationids: 60025153;60138187-60023256;60138187;60025153
- ? Corresponding: Lodi M.

32.

? Title: Generalized half-center oscillators with short-term synaptic plasticity

? Venue: Physical Review E

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 11

? DOI: 10.1103/PhysRevE.102.032406

? Scopus ID: 2-s2.0-85093911265

? Issn: 24700045

? eISSN: 24700053

? Volume: 102

? Issue: 3

? Authors: Baruzzi V.; Lodi M.; Storace M.; Shilnikov A.

? Quartile:

2025:

? Statistics and Probability (Q1, rank 50, percentile 83)

? Statistical and Nonlinear Physics (Q2, rank 23, percentile 64)

? Condensed Matter Physics (Q2, rank 208, percentile 53)

2020:

? Statistics and Probability (Q1, rank 29, percentile 88)

? Statistical and Nonlinear Physics (Q1, rank 6, percentile 87)

? Condensed Matter Physics (Q2, rank 130, percentile 68)

? Source Id: 21100855841

? Author Ids: 57216455935;57200266678;7004134087;6602635628

? Authoraffiliationids: 60025153;60025153;60025153;60012387

? Corresponding: Baruzzi V.

33.

? Title: Design Principles for Central Pattern Generators with Preset Rhythms

? Venue: IEEE Transactions on Neural Networks and Learning Systems

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 37

? Doi: 10.1109/Tnnls.2019.2945637

? Scopus ID: 2-s2.0-85087102389

? Issn: 2162237x

? eISSN: 21622388

? Volume: 31

? Issue: 9

? Pages: 3658-3669

? Authors: Lodi Matteo; Shilnikov Andrey L.; Storace Marco

? Keywords: Bifurcation analysis | central pattern generators | neuronal models | parameter optimization

? Quartile:

2025:

? Computer Networks and Communications (Q1, rank 9, percentile 98)

? Computer Science Applications (Q1, rank 18, percentile 98)

? Software (Q1, rank 13, percentile 97)  
? Artificial Intelligence (Q1, rank 19, percentile 96)  
2020:  
? Computer Networks and Communications (Q1, rank 3, percentile 99)  
? Computer Science Applications (Q1, rank 8, percentile 98)  
? Artificial Intelligence (Q1, rank 5, percentile 98)  
? Software (Q1, rank 9, percentile 97)  
? Source Id: 21100235616  
? Author Ids: 57200266678;6602635628;7004134087  
? Authoraffiliationids: 60025153;60012387;60025153  
? Corresponding: Lodi M.

34.  
? Title: Online estimation of the current ripple on a saturating ferrite-core inductor in a boost converter  
? Venue: Sensors Switzerland  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 7  
? DOI: 10.3390/s20102921  
? Scopus ID: 2-s2.0-85085270959  
? Issn: 14248220  
? Volume: 20  
? Issue: 10  
? Authors: Lodi Matteo; Oliveri Alberto  
? Keywords: Ferrite-core inductor | Magnetic saturation | Microcontroller | Nonlinear observer | Switch-mode power supply  
? Quartile:

2025:  
? Instrumentation (Q1, rank 19, percentile 90)  
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)  
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)  
? Biochemistry (Q1, rank 72, percentile 84)  
? Information Systems (Q1, rank 87, percentile 82)  
? Analytical Chemistry (Q1, rank 30, percentile 82)

2020:  
? Instrumentation (Q1, rank 13, percentile 90)  
? Electrical and Electronic Engineering (Q1, rank 135, percentile 80)  
? Information Systems (Q1, rank 69, percentile 79)  
? Atomic and Molecular Physics, and Optics (Q1, rank 42, percentile 78)  
? Analytical Chemistry (Q1, rank 29, percentile 76)  
? Biochemistry (Q2, rank 133, percentile 67)

? Source Id: 130124  
? Author Ids: 57200266678;57200399832  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Lodi M.

35.  
? Title: A Nonlinear Behavioral Ferrite-Core Inductance Model Able to Reproduce Thermal Transients in Switch-Mode Power Supplies  
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 14

? Doi: 10.1109/Tcsi.2020.2965645  
? Scopus ID: 2-s2.0-85082883785  
? Issn: 15498328  
? eISSN: 15580806  
? Volume: 67  
? Issue: 4  
? Pages: 1255-1263  
? Authors: Lodi Matteo; Bizzarri Federico; Linaro Daniele; Oliveri Alberto; Brambilla Angelo; Storace Marco  
? Keywords: Behavioral nonlinear model | magnetic saturation | power loss  
? Quartile:  
2025:  
? Engineering (all) (Q1, rank 28, percentile 92)  
2020:  
? Subject (Q1, rank 106, percentile 84)  
? Source Id: 11000153733  
? Author Ids: 57200266678;15734590800;24587496200;57200399832;7103297302;7004134087  
? Authoraffiliationids: 60025153;60023256;60023256;60025153;60023256;60025153  
? Corresponding: Lodi M.  
36.  
? Title: Effects of parameter variation on the accuracy of a nonlinear inductor model for switch-mode power supplies applications  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-85109258762  
? Issn: 02714310  
? Volume: 2020-October  
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2020:  
? Electrical and Electronic Engineering (Q2, rank 345, percentile 50)  
? Source Id: 56190  
? Author Ids: 57200266678;57200399832;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Lodi M.  
37.  
? Title: An algorithm for finding equitable clusters in multi-layer networks  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Scopus ID: 2-s2.0-85091795172  
? Issn: 02714310  
? Volume: 2020-October  
? Authors: Lodi Matteo; Rossa Fabio Della; Sorrentino Francesco; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2020:

? Electrical and Electronic Engineering (Q2, rank 345, percentile 50)  
? Source Id: 56190  
? Author Ids: 57200266678;37123718500;57203233721;7004134087  
? Authoraffiliationids: 60025153;60023256;60138187;60025153  
? Corresponding: Lodi M.

38.

? Title: Embedded linear model predictive control through mesh adaptive direct search algorithm  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Icecs46596.2019.8964821  
? Scopus ID: 2-s2.0-85079170519  
? Pages: 542-545  
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco  
? Source Id: 21100944554  
? Author Ids: 57214792545;57200399832;57200266678;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Ravera A.

39.

? Title: A low-cost online estimator for switch-mode power supplies with saturating ferrite-core inductors  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Icecs46596.2019.8964684  
? Scopus ID: 2-s2.0-85079166716  
? Pages: 851-854  
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco  
? Source Id: 21100944554  
? Author Ids: 57200266678;57200399832;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Lodi M.

40.

? Title: Model-based compensation of rate-dependent hysteresis in a piezoresistive strain sensor  
? Venue: IEEE Transactions on Industrial Electronics  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 41  
? Doi: 10.1109/Tie.2018.2884204  
? Scopus ID: 2-s2.0-85058153566  
? Issn: 02780046  
? Volume: 66  
? Issue: 10  
? Pages: 8205-8213

- ? Authors: Oliveri Alberto; Maselli Martina; Lodi Matteo; Storace Marco; Cianchetti Matteo  
? Keywords: Conductive textile | hysteresis compensation | piezoresistive strain sensor | rate-dependent hysteresis  
? 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: 57200399832;57195724094;57200266678;7004134087;23388237000  
? Authoraffiliationids: 60025153;60028039;60025153;60025153;60028039  
? Corresponding: Oliveri A.
41.  
? Title: Pareto-optimal selection of saturating inductors in the design of switch-mode power supplies  
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.23919/Epe.2019.8915549  
? Scopus ID: 2-s2.0-85076670272  
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco  
? Keywords: Design | Modelling | Switched-mode power supply  
? Source Id: 21100939561  
? Author Ids: 57200266678;57200399832;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Lodi M.
42.  
? Title: Behavioral Models for Ferrite-Core Inductors in Switch-Mode DC-DC Power Supplies: A Survey  
? Venue: 5th International Forum on Research and Technologies for Society and Industry Innovation to Shape the Future Rtsi 2019 Proceedings  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 14  
? Doi: 10.1109/Rtsi.2019.8895593  
? Scopus ID: 2-s2.0-85075639485  
? Pages: 242-247  
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco  
? Source Id: 21100936629  
? Author Ids: 57200266678;57200399832;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Lodi M.
43.  
? Title: A Piecewise-Affine Inductance Model for Inductors Working in Nonlinear Region  
? Venue: Smacd 2019 16th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design Proceedings  
? Year: 2019

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 12  
? Doi: 10.1109/Smacd.2019.8795270  
? Scopus ID: 2-s2.0-85071587532  
? Pages: 169-172  
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco  
? Source Id: 21100926610  
? Author Ids: 57200399832;57200266678;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Oliveri A.

44.

? Title: A power-loss-dependent inductance model for ferrite-core power inductors in switch-mode power supplies  
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 43  
? Doi: 10.1109/Tcsi.2018.2889856  
? Scopus ID: 2-s2.0-85064392033  
? Issn: 15498328  
? eISSN: 15580806  
? Volume: 66  
? Issue: 6  
? Pages: 2394-2402  
? Authors: Oliveri Alberto; Di Capua Giulia; Stoyka Kateryna; Lodi Matteo; Storace Marco; Femia Nicola  
? Keywords: Behavioral nonlinear model | high power density | magnetic saturation | power loss  
? Quartile:  
2025:  
? Engineering (all) (Q1, rank 28, percentile 92)  
2019:  
? Subject (Q1, rank 105, percentile 84)  
? Source Id: 11000153733  
? Author Ids: 57200399832;36559098800;56997468600;57200266678;7004134087;7003881642  
? Authoraffiliationids: 60025153;60007061;60007061;60025153;60025153;60007061  
? Corresponding: Oliveri A.

45.

? Title: A toolchain for open-loop compensation of hysteresis and creep in atomic force microscopes  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iscas.2019.8702537  
? Scopus ID: 2-s2.0-85066800398  
? Issn: 02714310  
? Volume: 2019-May  
? Authors: Oliveri Alberto; Raiteri Roberto; Lodi Matteo; Storace Marco  
? Quartile:  
2025:

- ? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2019:  
? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)  
? Source Id: 56190  
? Author Ids: 57200399832;7005989160;57200266678;7004134087  
? Authoraffiliationids: 60121711;60121711-60021199;60121711;60121711  
? Corresponding: Oliveri A.
46.  
? Title: A nonlinear inductance model able to reproduce thermal transient in SMPS simulations  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 19  
? Doi: 10.1109/Iscas.2019.8702418  
? Scopus ID: 2-s2.0-85066794294  
? Issn: 02714310  
? Volume: 2019-May  
? Authors: Bizzarri Federico; Lodi Matteo; Oliveri Alberto; Brambilla Angelo; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2019:  
? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)  
? Source Id: 56190  
? Author Ids: 15734590800;57200266678;57200399832;7103297302;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153;60023256;60025153  
? Corresponding: Bizzarri F.
47.  
? Title: Digital architecture to realize programmable central pattern generators producing multiple gaits  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iscas.2019.8702635  
? Scopus ID: 2-s2.0-85066782661  
? Issn: 02714310  
? Volume: 2019-May  
? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2019:  
? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)  
? Source Id: 56190  
? Author Ids: 57200266678;6602635628;7004134087  
? Authoraffiliationids: 60025153;60012387;60025153  
? Corresponding: Lodi M.
48.  
? Title: Application of a low-cost piezoelectric displacement estimation technique

based on laser interferometry for hysteresis open-loop compensation in an AFM scanner  
? Venue: Physica B Condensed Matter  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? DOI: 10.1016/j.physb.2017.09.067  
? Scopus ID: 2-s2.0-85029740926  
? Issn: 09214526  
? Volume: 549  
? Pages: 43-46  
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco; Raiteri Roberto  
? Keywords: AFM | Hysteresis | Interferometry  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q2, rank 304, percentile 69)  
? Condensed Matter Physics (Q2, rank 152, percentile 66)  
? Electronic, Optical and Magnetic Materials (Q2, rank 117, percentile 62)  
2018:  
? Electrical and Electronic Engineering (Q2, rank 261, percentile 61)  
? Condensed Matter Physics (Q2, rank 191, percentile 52)  
? Electronic, Optical and Magnetic Materials (Q2, rank 110, percentile 51)  
? Source Id: 29118  
? Author Ids: 57200399832;57200266678;7004134087;7005989160  
? Authoraffiliationids: 60025153;60025153;60025153;60025153-60021199  
? Corresponding: Oliveri A.

49.  
? Title: Model Reduction for Optimized Online Compensation of Hysteresis and Creep in Piezoelectric Actuators  
? Venue: IEEE Transactions on Circuits and Systems II Express Briefs  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 13  
? Doi: 10.1109/Tcsii.2017.2767287  
? Scopus ID: 2-s2.0-85032723969  
? Issn: 15497747  
? eISSN: 15583791  
? Volume: 65  
? Issue: 11  
? Pages: 1748-1752  
? Authors: Oliveri Alberto; Lodi Matteo; Parodi Mauro; Stellino Flavio; Storace Marco  
? Keywords: Hysteresis and creep model | open-loop compensation | parameters identification | piezoelectric actuators  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)  
2018:  
? Electrical and Electronic Engineering (Q1, rank 137, percentile 79)  
? Source Id: 9500153930  
? Author Ids: 57200399832;57200266678;35508934400;56613350900;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Oliveri A.

50.

? Title: Accurate Modeling of Inductors Working in Nonlinear Region in Switch-Mode Power Supplies with Different Load Currents  
? Venue: Smacd 2018 15th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 23  
? Doi: 10.1109/Smacd.2018.8434871  
? Scopus ID: 2-s2.0-85052508662  
? Pages: 233-236  
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco  
? Source Id: 21100875437  
? Author Ids: 57200399832;57200266678;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Oliveri A.

51.

? Title: Modeling and compensation of hysteresis and creep: The HysTool toolbox  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Iscas.2018.8351866  
? Scopus ID: 2-s2.0-85057107170  
? Issn: 02714310  
? Volume: 2018-May  
? Authors: Oliveri Alberto; Lodi Matteo; Stellino Flavio; Storace Marco  
? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2018:

? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)

? Source Id: 56190

? Author Ids: 57200399832;57200266678;56613350900;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Oliveri A.

52.

? Title: Design of Minimal Synthetic Circuits with Sensory Feedback for Quadruped Locomotion  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Iscas.2018.8351015  
? Scopus ID: 2-s2.0-85057090066  
? Issn: 02714310  
? Volume: 2018-May  
? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco  
? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2018:

- ? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)
  - ? Source Id: 56190
  - ? Author Ids: 57200266678;6602635628;7004134087
  - ? Authoraffiliationids: 60025153;60012387;60025153
  - ? Corresponding: Lodi M.
- 53.
- ? Title: Design of Synthetic Central Pattern Generators Producing Desired Quadruped Gaits
  - ? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
  - ? Year: 2018
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 16
  - ? Doi: 10.1109/Tcsi.2017.2759320
  - ? Scopus ID: 2-s2.0-85032454621
  - ? Issn: 15498328
  - ? eISSN: 15580806
  - ? Volume: 65
  - ? Issue: 3
  - ? Pages: 1028-1039
  - ? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco
  - ? Keywords: bifurcation analysis | Central pattern generators | dynamical systems
  - ? Quartile:
- 2025:
- ? Engineering (all) (Q1, rank 28, percentile 92)
- 2018:
- ? Subject (Q1, rank 87, percentile 87)
  - ? Source Id: 11000153733
  - ? Author Ids: 57200266678;6602635628;7004134087
  - ? Authoraffiliationids: 60025153;60012387;60025153
  - ? Corresponding: Lodi M.
- 54.
- ? Title: High-speed explicit nonlinear model predictive control
  - ? Venue: 2017 European Conference on Circuit Theory and Design Ecctd 2017
  - ? Year: 2017
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 3
  - ? Doi: 10.1109/Ecctd.2017.8093239
  - ? Scopus ID: 2-s2.0-85039915128
  - ? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco
  - ? Source Id: 21100844807
  - ? Author Ids: 57200399832;57200266678;7004134087
  - ? Authoraffiliationids: 60025153;60025153;60025153
  - ? Corresponding: Oliveri A.
- 55.
- ? Title: A low-cost free-space optical communication prototype
  - ? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017
  - ? Year: 2017
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 3
  - ? Doi: 10.1109/Ngcas.2017.20
  - ? Scopus ID: 2-s2.0-85034417836

? Pages: 153-156  
? Authors: Oliveri Alberto; Lodi Matteo  
? Keywords: Microcontroller | Prototype | Underwater optical communication  
? Source Id: 21100838549  
? Author Ids: 57200399832;57200266678  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Oliveri A.

56.

? Title: CEPAGE: A toolbox for Central Pattern Generator analysis  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/Iscas.2017.8050580  
? Scopus ID: 2-s2.0-85032690058  
? Issn: 02714310  
? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2017:  
? Electrical and Electronic Engineering (Q3, rank 366, percentile 45)  
? Source Id: 56190  
? Author Ids: 57200266678;6602635628;7004134087  
? Authoraffiliationids: 60025153;60012387;60025153  
? Corresponding: Lodi M.

57.

? Title: Low-cost acquisition method for on-line inductor characterization in switched power converters  
? Venue: Smacd 2017 14th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Smacd.2017.7981617  
? Scopus ID: 2-s2.0-85027492656  
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco  
? Source Id: 21100827202  
? Author Ids: 57200266678;57200399832;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Lodi M.

58.

? Title: Ferrite inductor models for switch-mode power supplies analysis and design  
? Venue: Smacd 2017 14th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 27  
? Doi: 10.1109/Smacd.2017.7981622  
? Scopus ID: 2-s2.0-85027491880  
? Authors: Di Capua G.; Femia N.; Stoyka K.; Lodi M.; Oliveri A.; Storace M.

? Keywords: Inductors | Saturation | Switch-Mode Power Supplies  
? Source Id: 21100827202  
? Author Ids: 36559098800;7003881642;56997468600;57200266678;57200399832;7004134087  
? Authoraffiliationids: 60007061;60007061;60007061;60025153;60025153;60025153  
? Corresponding: Di Capua G.

59.

? Title: Design and circuit implementation of approximate switched MPC  
? Venue: 2013 European Conference on Circuit Theory and Design Ecctd 2013 Proceedings  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? DOI: 10.1109/ecctd.2013.6662329  
? Scopus ID: 2-s2.0-84892652601  
? Authors: Oliveri A.; Lodi M.; Storace M.  
? Source Id: 21100997143  
? Author Ids: 57200399832;57200266678;7004134087  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Oliveri A.