

# Curriculum Vitae

## INFORMAZIONI PERSONALI

**Nome** DOMENICO  
**Cognome** CURTO  
**Recapiti** Dipartimento di Ingegneria, Edificio 9, Stanza 2010  
**Telefono** 091-23863609  
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## FORMAZIONE TITOLI

- Da 14/12/2021 a **oggi**
  - **Ricercatore a tempo determinato tipologia A**, ex art. 24, comma 3, legge n. 240/2010
  - PON "Ricerca e Innovazione 2014-2020" – Azione IV.6 "Contratti di Ricerca su tematiche Green"
  - Università degli Studi di Palermo, Dipartimento di Ingegneria
  
- Da 20/10/2020 a 13/12/2021
  - **Assegnista di ricerca**
  - Progetto "Generatori lineari per la stabilizzazione di strutture galleggianti", tipologia B, Area CUN 09 e settore scientifico disciplinare ING-IND/11
  - Università degli Studi di Palermo, Dipartimento di Ingegneria
  
- 08/11/2020
  - Abilitazione Scientifica Nazionale – Seconda Fascia
  - BANDO D.D. 2175/2018, SETTORE CONCORSUALE 09/C2 - FISICA TECNICA E INGEGNERIA NUCLEARE
  
- Da 19/05/2020 a 13/12/2021
  - **Cultore della materia**
  - Materia "Fisica Tecnica Ambientale"
  - Università degli Studi di Palermo, Dipartimento di Fisica e Chimica – Emilio Segrè
  
- Da 11/05/2020 a 13/12/2021
  - **Cultore della materia**
  - Materia "Fonti di Energia Eolica e Mareomotrice"
  - Università degli Studi di Palermo, Dipartimento di Ingegneria
  
- 20/02/2020
  - **Dottorato di Ricerca in Energia e Tecnologie dell'Informazione D005**
  - Università degli Studi di Palermo - ITALIA
  - **TESI:** Desalination and sea wave to produce freshwater and energy from the sea. The proposal of a linear generator for a wave energy converter and evaluation of case studies in small islands
  
- 2015
  - Esame di abilitazione alla professione di Ingegnere Industriale
  - Università degli Studi di Palermo - ITALIA
  
- 30/03/2015
  - **Laurea Magistrale in Ingegneria Energetica e Nucleare LM30**
  - Università degli Studi di Palermo - ITALIA
  - **TESI:** Miglioramento delle performances energetiche di un innovativo generatore di energia elettrica da moto ondoso

- 28/02/2013
  - **Laurea Triennale in Ingegneria dell'Energia L-09**
  - Università degli Studi di Palermo - ITALIA
  - **TESI:** Miglioramento dell'efficienza energetica di impianti illuminotecnici e minimizzazione del degrado delle opere d'arte da illuminamento

#### ATTIVITA' DIDATTICA

- AA 2023/24 a oggi
  - **Titolare dell'insegnamento**
  - **"Produzione di energia dal mare" 6 CFU**
  - Corso di laurea in Ingegneria delle Tecnologie dal Mare
  - Università degli Studi di Palermo, Dipartimento di Ingegneria - Polo di Trapani
  
- AA 2021/22 a oggi
  - **Titolare dell'insegnamento**
  - **"Impianti a Geotermia e a Biomassa" 6 CFU**
  - Corso di laurea Magistrale in Ingegneria Energetica e Nucleare
  - Università degli Studi di Palermo, Dipartimento di Ingegneria
  
- AA 2021/22 a oggi
  - **Titolare dell'insegnamento**
  - **"Energie Rinnovabili" 3 CFU**
  - Corso di laurea in Scienze e Tecnologie Agrarie
  - Università degli Studi di Palermo, Dipartimento di Scienze Agrarie, Alimentari e Forestali
  
- Da 14/11/2022 a oggi
  - Segretario corso di laurea magistrale in **Ingegneria Energetica e Nucleare**
  - Università degli Studi di Palermo, Dipartimento di Ingegneria

#### ASSOCIAZIONI SCIENTIFICHE

IEEE Membership / Young Professional / Oceanic Engineering Society

N° iscrizione 98488833

#### PUBBLICAZIONE

***Energy Analyses and Optimization Proposals for Hotels in Sicily: A Case Study***

Andrea Guercio, Domenico Curto, Vincenzo Franzitta, Margherita Frascati, Daniele Milone, Pierluca Martorana and Miriam Mantegna

**Sustainability 2024**

doi: 10.3390/su16010146

EISSN: 2071-1050

***Renewable energy sources for small islands: a case study in the Pacific Oceans***

Malik Ali Judge, Andrea Guercio, Domenico Curto, Ali Mohammadi, Vincenzo Franzitta, Maurizio Cirrincione, Marco Trapanese

**OCEANS 2023 - MTS/IEEE U.S. Gulf Coast**

doi: 10.23919/OCEANS52994.2023.10337019

EISBN: 979-8-218-14218-6

***Estimation of the environmental impacts and wind energy producibility in the Mediterranean Sea***

Andrea Guercio, Roberta Rincione, Domenico Curto, Sonia Longo, Vincenzo Franzitta, Maurizio Cellura, Marco Trapanese

**OCEANS 2023 - MTS/IEEE U.S. Gulf Coast**

doi: 10.23919/OCEANS52994.2023.10337405

EISBN: 979-8-218-14218-6

***Marine biomass as potential energy source. The state of art***

Giorgio Clemente, Pierluca Martorana, Domenico Curto, Dhirendran Munith Kumar, Miriam Mantegna and Marco Trapanese

**OCEANS 2023 - Limerick**

doi: 10.1109/OCEANSLimerick52467.2023.10244440

EISBN: 979-8-3503-3226-1

***Energy Efficiency in Historic Architecture: The "Ex Institute of Zoology and Comparative Anatomy" in Palermo***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio\*, Miriam Mantegna and Daniele Milone

**Applied Sciences**

doi: 10.3390/app13158882

EISSN: 2076-3417

***Light pollution on the historical center of Palermo. A case study***

Daniele Milone, Miriam Mantegna, Andrea Guercio, Domenico Curto, Pierluca Martorana, Margherita Frascati

**2023 IEEE International Conference on Environment and Electrical Engineering and 2023 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC/ICPSEurope57605.2023.10194863

EISBN: 979-8-3503-4743-2

***Assessing optimal energy mix and stability in the island of Favignana***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio, Eleonora Riva Sanseverino, Antony Vasile and Gaetano Zizzo

**13th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2022)**

doi: 10.1049/icp.2023.0030

EISBN: 978-1-83953-844-5

***Reduction of cogging force in linear generators for wave energy harvesting***

Domenico Curto, Vincenzo Franzitta, Alfredo Iones, Leonardo Iraci, Enzo Giuseppe Munna, Manuela Scozzaro, Claudio Nevoloso, Marco Trapanese

**OCEANS 2022, Hampton Roads**

doi: 10.1109/OCEANS47191.2022.9977013

EISBN: 978-1-6654-6809-1

***Stability Analysis in a Vietnam Small Island for the Deployment of a Nearshore Wave Power Plant***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio, Rossano Musca, Antony Vasile and Gaetano Zizzo

**2022 Workshop on Blockchain for Renewables Integration (BLORIN)**

doi: 10.1109/BLORIN54731.2022.10028639

EISBN: 978-1-6654-7249-4

***Testing a linear ironless generator for the sea wave energy harvesting***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio and Marco Trapanese

**OCEANS 2022 – Chennai**

doi: 10.1109/OCEANSCennai45887.2022.9775494

EISBN: 978-1-6654-1821-8

***Estimation of the energy producibility of an offshore wave energy converter***

Andrea Guercio and Domenico Curto

**OCEANS 2022 – Chennai**

doi: 10.1109/OCEANSCennai45887.2022.9775233

EISBN: 978-1-6654-1821-8

***An Experimental Comparison between an Ironless and a Traditional Permanent Magnet Linear Generator for Wave Energy Conversion***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio, Rosario Miceli, Claudio Nevoloso, Francesco Maria Raimondi and Marco Trapanese

**Energies**

doi: 10.3390/en15072387

EISSN: 1996-1073

***FEM Analysis: A Review of the Most Common Thermal Bridges and Their Mitigation***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio and Pierluca Martorana

**Energies**

doi: 10.3390/en1507231

EISSN: 1996-1073

***An Economic Approach to Size of a Renewable Energy Mix in Small Islands***

Daniele Milone, Domenico Curto, Vincenzo Franzitta, Andrea Guercio, Maurizio Cirrincione and Ali Mohammadi

**Energies**

doi: 10.3390/en15062005

EISSN: 1996-1073

***Energy Retrofit. A Case Study—Santi Romano Dormitory on the Palermo University***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio and Domenico Panno

**Sustainability**

doi: 10.3390/su132413524

EISSN: 2071-1050

***Sea Wave Energy. A Review of the Current Technologies and Perspectives***

Domenico Curto, Vincenzo Franzitta, and Andrea Guercio

**Energies**

doi: 10.3390/en14206604

EISSN: 1996-1073

***Power Conversion System for Improved Linear Generator in sea wave energy harvesting application***

Domenico Curto, Marco di Benedetto, Vincenzo Franzitta, Alessandro Lidozzi, and Marco Solero

**Global Oceans 2020: Singapore – U.S. Gulf Coast**

doi: 10.1109/IEEECONF38699.2020.9389381

EISBN: 978-1-7281-5446-6

***First analyses on a mechanical motion converter to produce electrical energy from sea wave***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio and Giovanni Napoli

**Global Oceans 2020: Singapore – U.S. Gulf Coast**

doi: 10.1109/IEEECONF38699.2020.9389068

EISBN: 978-1-7281-5446-6

***Introduction of Offshore Wave, Wind and Solar Energies in Vietnam***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio, Hang Le Thi Thuy, Luong Ngoc Giap, Francesco Montana and Eleonora Riva Sanseverino

**Global Oceans 2020: Singapore – U.S. Gulf Coast**

doi: 10.1109/IEEECONF38699.2020.9389219

EISBN: 978-1-7281-5446-6

***Control Structures Implementation to Allow High Penetration of a VSC within an Isolated Power System***

D Curto, S Favuzza, R Musca, M Navarro Navia, and G Zizzo

**IOP Conference Series: Materials Science and Engineering, Volume 1045, First International Conference on Electrical Energy and Power Engineering (ICEEPE 2020) 25th-26th August 2020, Penang, Malaysia**

doi: 10.1088/1757-899X/1045/1/012046

***A Review of the Water Desalination Technologies***

Domenico Curto, Vincenzo Franzitta, Andrea Guercio

**Applied Sciences (MDPI)**

doi: 10.3390/app11020670

EISSN: 2076-3417

***A Simulation Analysis of VSM Control for RES plants in a Small Mediterranean Island***

Jaser A. Sa'ed, Domenico Curto, Salvatore Favuzza, Rossano Musca; Milagros Navarro Navia, Gaetano Zizzo

**2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC/ICPSEurope49358.2020.9160501

EISBN: 978-1-7281-7455-6

***Wave and Wind Energy Systems Integration in Vietnam: Analysis of Energy Potential and Economic Feasibility***

Domenico Curto, Binh Van Doan, Vincenzo Franzitta, Francesco Montana, Ninh Quang Nguyen, Eleonora Riva Sanseverino

**2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC/ICPSEurope49358.2020.9160682

EISBN: 978-1-7281-7455-6

***Flexibility Services in a Mediterranean Small Island to Minimize Costs and Emissions Related to Electricity Production from Fossil Fuels***

Curto, D.; Franzitta, V.; Longo, S.; Montana, F.; Riva Sanseverino, E.; Telaretti, E.

**2020 IEEE 20th Mediterranean Electrotechnical Conference ( MELECON)**

doi: 10.1109/MELECON48756.2020.9140616

EISBN: 978-1-7281-5200-4

***Investigation on a Bio-Composite Material as Acoustic Absorber and Thermal Insulation***

Curto, D.; Guercio, A.; Franzitta, V.

**Energies 2020, Vol. 13**

doi: 10.3390/en13143699

ISSN: 1996-1073

***Improving energy efficiency of commercial buildings by Combined Heat Cooling and Power plants***

Catrini, P.; Curto, D.; Franzitta, V.; Cardona, F.

**Sustainable Cities and Society, Vol. 60**

doi: 10.1016/j.scs.2020.102157



ISSN: 2210-6707

***Evaluation of the optimal renewable electricity mix for Lampedusa island: The adoption of a technical and economical methodology***

Curto, D.; Favuzza, S.; Franzitta, V.; Musca, R.; Navarro Navia, M.A.; Zizzo, G.

**Journal of Cleaner Production 2020, Vol. 263**

doi: 10.1016/j.jclepro.2020.121404

ISSN: 0959-6526

***A New Solution for Sea Wave Energy Harvesting, the Proposal of an Ironless Linear Generator***

Curto, D.; Viola, A.; Franzitta, V.; Trapanese, M.; Cardona, F.

**Journal of Marine Science and Engineering 2020, Vol. 8 – Issue 2, 93**

doi: 10.3390/jmse8020093

ISSN: 2077-1312

***Review on Life Cycle Assessment of Solar Photovoltaic Panels***

Muteri, V.; Cellura, M.; Curto, D.; Franzitta, V.; Longo, S.; Mistretta, M.; Parisi, M. L.

**Energies 2020, Vol. 13 – Issue 1, 252**

doi: 10.3390/en13010252

ISSN: 1996-1073

***A Planar Generator for a Wave Energy Converter***

Trapanese, M.; Curto, D.; Franzitta, V.; Liu, Z.; McNabb, L.; Wang, X.

**Transaction on Magnetics 2019, Vol. 55 – Issue 12**

doi: 10.1109/TMAG.2019.2933701

ISSN: 1941-0069

***A renewable energy mix to supply small islands. A comparative study applied to Balearic Islands and Fiji***

Curto, D.; Franzitta, V.; Viola, A.; Montana, F.; Cirrincione, M.; Mohammadi, A.; Kumar, A.

**Journal of Cleaner Production 2019, Vol. 241**

doi: 10.1016/j.jclepro.2019.118356

ISSN: 0959-6526

***Flexibility Services to Minimize the Electricity Production from Fossil Fuels. A Case Study in a Mediterranean Small Island***

Craiz, M.; Curto, D.; Franzitta, V.; Longo, S.; Montana, F.; Musca, R.; Riva Sanseverino, E.; Telaretti, E.

**Energies 2019, Vol. 12 – Issue 18, 3492**

doi: 10.3390/en12183492

EISSN: 1996-1073

***Investigating energy saving potential in a big shopping center through ventilation control***

Curto, D.; Franzitta, V.; Longo, S.; Montana, F.; Riva Sanseverino, E.

**Sustainable Cities and Society 2019, Vol. 49**

doi: 10.1016/j.scs.2019.101525

EISSN: 2210-6707

***A Permanent Magnet Linear Generator for the Enhancement of the Reliability of a Wave Energy Conversion system***

Trapanese, M.; Boscaino, V.; Cipriani, G.; Curto, D.; Di Dio, V.; Franzitta, V.

**IEEE Transaction on Industrial Electronics 2018, Vol. 66 – Issue 6**

doi: 10.1109/TIE.2018.2838076

EISSN: 0278-0046

***Designing an innovative system for sea wave utilization***

Curto, D.; Franzitta, V.; Trapanese, M.

**OCEANS 2018 MTS/IEEE Charleston**

doi: 10.1109/OCEANS.2018.8604719

ISBN: 978-1-5386-4814-8

***A Magnetohydrodynamic Generator for Marine Energy Harvesting***

Trapanese, M.; Raimondi, F.M.; Curto, D.; Viola, A.

**OCEANS 2018 MTS/IEEE Charleston**

doi: 10.1109/OCEANS.2018.8604919

ISBN: 978-1-5386-4814-8

***First Life Cycle Impact Considerations of Two Wave Energy Converters***

Curto, D.; Neugebauer, S.; Viola, A.; Traverso, M.; Franzitta, V.; Trapanese, M.

**2018 OCEANS - MTS/IEEE Kobe Techno-Oceans (OTO)**

doi: 10.1109/OCEANSKOBE.2018.8558855

ISBN: 978-1-5386-1654-3

***A Renewable Energy mix to Supply the Balearic Islands: Sea Wave, Wind and Solar***

Curto, D.; Trapanese, M.

**2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC.2018.8493876

ISBN: 978-1-5386-5

***Energy Saving Optimizing the Ventilation Control in a Big Shopping Center***

Curto, D.; Montana, F.; Milone, D.

**2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC.2018.8494013

ISBN: 978-1-5386-5

***Improvement of Energy Efficiency for Indoor Lighting in a Big Shopping Center***

Curto, D.; Milone, D.

**2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC.2018.8494013

ISBN: 978-1-5386-5

***Environmental sustainability in non-residential buildings by automating and optimization LENI index***

Raimondi, F.M.; Curto, D.; Milone, D.

**EVER 2018 (13th international conference on Ecological Vehicles and Renewable Energies)**

doi: 10.1109/EVER.2018.8362350

ISBN: 978-1-5386-5966-3

***Energy savings for indoor lighting in a shopping mall: A case of study***

Raimondi, F.M.; Curto, D.; Franzitta, V.; Milone, D.

**EVER 2018 (13th international conference on Ecological Vehicles and Renewable Energies)**

doi: 10.1109/EVER.2018.8362351

ISBN: 978-1-5386-5966-3

***An innovative mechanical motion converter for sea wave applications***

Raimondi, F.M.; Milone, D.; Curto, D.

**EVER 2018 (13th international conference on Ecological Vehicles and Renewable Energies)**

doi: 10.1109/EVER.2018.8362352

ISBN: 978-1-5386-5966-3

***Energy Saving in Public Transport Using Renewable Energy***

Franzitta, V.; Curto, D.; Milone, D.; Trapanese, M.

**Sustainability 2017 (Vol. 9, Issue 1), 106**

doi: 10.3390/su9010106

EISSN: 2071-1050

***Experimental Tests on Hydrogen Production from Seawaves Energy***

Curto, D.; Trapanese, M..

**OCEANS 2017 Anchorage**

ISBN: 978-0-6929-4690-9

***Renewable energy assessment in Italy and Brazil: An economic and political Comparison***

Franzitta, V.; Curto, D.; Viola, A.

**ISES Solar World Congress 2017 - IEA SHC International Conference on Solar Heating and Cooling for Buildings and Industry 2017**

doi: 10.18086/swc.2017.37.03

ISBN: 978-398146597-6

***Guidelines proposal for a good and durable WEC design***

Franzitta, V.; Curto, D.; Viola, A.; Di Dio, V.; Boscaino, V.; Trapanese, M..

**OCEANS 2017 Aberdeen**

doi: 10.1109/OCEANSE.2017.8085002

ISBN: 978-1-5090-5278-3

***A linear generator for a waveroller power device***

Franzitta, V.; Colucci, A.; Curto, D.; Di Dio, V.; Trapanese, M.

**OCEANS 2017 Aberdeen**

doi: 10.1109/OCEANSE.2017.8085007

ISBN: 978-1-5090-5278-3

***Numerical simulation of wave energy production through experimental tool***

Viola, A.; Curto, D.

**Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)**

doi: 10.1109/EEEIC.2017.7977596

ISBN: 978-1-5386-3917-7

***Wave Energy Assessment along Sicilian Coastline, Based on DEIM Point Absorber***

Franzitta, V.; Catrini, P.; Curto, D.

**Energies 2017, Vol. 10**

doi: 10.3390/en10030376

EISSN: 1996-1073

***Sustainability of the Renewable Energy Extraction Close to the Mediterranean Islands***

Franzitta, V.; Curto, D.

**Energies 2017, Vol. 10 – Issue 3, 376**

doi: 10.3390/en10030283

EISSN: 1996-1073

***Experimental validation of a distribution theory-based analysis of the effect of manufacturing tolerances on permanent magnet synchronous machines***

Boscaino, V.; Cipriani, G.; Di Dio, V.; Corpora, M.; Curto, D.; Franzitta, V.; Trapanese, M.

**AIP Advances 7 – Issue 5**

doi: 10.1063/1.4975994

EISSN: 2158-3226

***Assessment of Renewable Sources for the Energy Consumption in Malta in the Mediterranean Sea***

Franzitta, V.; Curto, D.; Milone, D.; Rao, D.

**Energies 2016, Vol. 9 – Special Issue 12, 1034**

doi: 10.3390/en9121034

EISSN: 1996-1073

***The Desalination Process Driven by Wave Energy: A Challenge for the Future***

Franzitta, V.; Curto, D.; Milone, D.; Viola, A.

**Energies 2016, Vol. 9 – Special Issue 12, 1032**

doi: 10.3390/en9121032

EISSN: 1996-1073

***The helicoidal magnetic generator***

Curto, D.; Di Dio, V.; Rao, D.; Trapanese, M.; Viola, A.

**OCEANS 2016 MTS/IEEE Monterey**

doi: 10.1109/OCEANS.2016.7761425

ISBN: 978-1-5090-1537-5

***A Magnetohydrodynamic Auxiliary Propulsion system for docking assistance of autonomous vehicle***

Trapanese, M.; Raimondi, F.M.; Curto, D.; Rao, D.

**OCEANS 2016 MTS/IEEE Monterey**

doi: 10.1109/OCEANS.2016.7761426

ISBN: 978-1-5090-1537-5

***Greening island: renewable energies mix to satisfy electrical needs of Pantelleria in Mediterranean Sea***

Franzitta, V.; Rao, D.; Curto, D.; Viola, A.

**OCEANS 2016 MTS/IEEE Monterey**

doi: 10.1109/OCEANS.2016.7761397

ISBN: 978-1-5090-1537-5

***Sea water desalination and energy consumption: A case study of wave energy converters (WEC) to desalination applications in Sicily***

Viola, A.; Curto, D.; Franzitta, V.; Trapanese, M.

**OCEANS 2016 MTS/IEEE Monterey**

doi: 10.1109/OCEANS.2016.7761407

ISBN: 978-1-5090-1537-5

***Energetic Sustainability Using Renewable Energies in the Mediterranean Sea***

Franzitta, V.; Curto, D.; Rao, D.

**Sustainability 2016, Vol. 8 – Special Issue 11, 1164**

doi:10.3390/su8111164

EISSN: 2071-1050

***Hydrogen Production from Sea Wave for Alternative Energy Vehicles for Public Transport in Trapani (Italy)***

Franzitta, V.; Curto, D.; Rao, D.; Viola, A.

**Energies 2016, Vol. 9 – Special Issue 10, 850**



doi: 10.3390/en9100850

EISSN: 1996-1073

***Nexus Water & Energy: A Case Study of Wave Energy Converters (WECs) to Desalination Applications in Sicily***

Viola, A.; Franzitta, V.; Trapanese, M.; Curto, D.

**International Journal of Heat and Technology IJHT - Vol. 34, Special Issue 2 – October 2016**

doi:10.18280/ijht.34S227

ISBN: 978-1-4673-9724-7

***Renewable energy sources to fulfill the global energy needs of a country: The case study of Malta in Mediterranean Sea***

Franzitta, V.; Curto, D.; Rao, D.; Viola, A.

**OCEANS 2016 - Shanghai**

doi: 10.1109/OCEANSAP.2016.7485651

ISBN: 978-1-4673-9724-7

***Evaluation of the wave energy density on the Sicilian coast***

Trapanese, M.; Raimondi, F.M., Curto, D.; Viola, A.

**OCEANS 2016 - Shanghai**

DOI: 10.1109/OCEANSAP.2016.7485713

ISBN: 978-1-4673-9724-7

***Near zero energy island with sea wave energy: The case study of Pantelleria in Mediterranean Sea***

Franzitta, V.; Curto, D.; Rao, D.; Milone, D.

**OCEANS 2016 - Shanghai**

DOI: 10.1109/OCEANSAP.2016.7485649

ISBN: 978-1-4673-9724-7

***A computational magnetohydrodynamic model of a marine propulsion system***

Trapanese, M.; Raimondi, F.M.; Curto, D.; Viola, A.

**OCEANS 2016 - Shanghai**

DOI: 10.1109/OCEANSAP.2016.7485711

ISBN: 978-1-4673-9724-7

***The effect of manufacturing tolerances on a tubular linear ferrite motor***

Boscaino, V.; Cipriani, G.; Di Dio, V.; Corpora, M.; Curto, D.; Franzitta, V.; Trapanese, M.

**Industrial Electronics Society, IECON 2015 - 41st Annual Conference of the IEEE**

DOI: 10.1109/IECON.2015.7392912

ISBN: 978-1-4779-1762-4

***A small scale prototype of a wave energy conversion system for hydrogen production***

Boscaino, V.; Cipriani, G.; Curto, D.; Di Dio, V.; Franzitta, V.; Trapanese, M.; Viola, A.

**Industrial Electronics Society, IECON 2015 - 41st Annual Conference of the IEEE**

DOI: 10.1109/IECON.2015.7392658

ISBN: 978-1-4779-1762-4

***An electromagnetic generator for MAGLEV transportation systems***

Cipriani, G.; Corpora, M.; Curto, D.; Di Dio, V.; Franzitta, V.; Trapanese, M.

**2015 International Conference on Renewable Energy Research and Applications (ICRERA)**

DOI: 10.1109/ICRERA.2015.7418662

ISBN: 978-1-4779-1762-4

***An inertial system for the production of electricity and hydrogen from sea wave energy***

Colucci, A.; Boscaino, V.; Cipriani, G.; Curto, D.; Di Dio, V.; Franzitta, V.; Trapanese, M.; Viola, A.

**OCEANS'15 MTS/IEEE Washington**

DOI: 10.23919/OCEANS.2015.7404569

ISBN: 978-0-933957-43-5

***Design of Wave Energy Converter (WEC): A prototype installed in Sicily***

Viola, A.; Franzitta, V.; Curto, D.; Trapanese, M.; Di Dio, V.; Cipriani, G.; Boscaino, V.; Corpora, M.; Raimondi, F. M.

**OCEANS 2015 – Genova**

DOI: 10.1109/OCEANS-Genova.2015.7271536

ISBN: 978-1-4779-8736-8

***Environmental Impact Assessment (EIA) of Wave Energy Converter (WEC)***

Viola, A.; Franzitta, V.; Curto, D.; Di Dio, V.; Milone, D.; Rodonò G.

**OCEANS 2015 – Genova**

DOI: 10.1109/OCEANS-Genova.2015.7271679

ISBN: 978-1-4779-8736-8

***The role of the effect of manufacturing tolerances on a tubular linear ferrite motor***

Cipriani, G.; Di Dio, V.; Corpora, M.; Curto, D.; Trapanese, M.

**Magnetics Conference (INTERMAG), 2015 IEEE**

DOI: 10.1109/INTMAG.2015.7157304

ISBN: 978-1-4799-7321-7

***Minimization of detent force in a 1 kW linear permanent magnet generator for the conversion of sea waves energy: numerical and experimental validation***

Trapanese, M.; Cipriani, G.; Curto, D.; Di Dio, V.; Franzitta, V.; Viola, A.

**Magnetics Conference (INTERMAG), 2015 IEEE**

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***A Ferrite Tubular Linear Motor (FTLM): analysis and design***

Di Dio, V.; Cipriani, G.; Corpora, M.; Curto, D.; Trapanese, M.

**Magnetics Conference (INTERMAG), 2015 IEEE**

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ISBN: 978-1-4799-7321-7

***Optimization of cogging force in a linear permanent magnet generator for the conversion of sea waves energy***

Trapanese, M.; Cipriani, G.; Curto, D.; Di Dio, V.; Franzitta V.

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DOI: 10.1109/IEMDC.2015.7409146

ISBN: 978-1-4799-7941-7

***Ottimizzazione delle Performances Energetiche di un Innovativo Generatore di Energia Elettrica da Moto Ondoso***

Domenico Curto

**Tesi di Laurea Magistrale (2015)**

ISBN: 9788891098139

**ATTIVITA' SCIENTIFICHE**

**Partecipazione a congressi internazionali, con presentazione di lavori di ricerca**

- Conferenza OCEANS 2022 Hampton Roads, USA, con presentazione di un paper
  - Reduction of cogging force in linear generators for wave energy harvesting

- Conferenza BLORIN 2022, tenutasi a Palermo, con presentazione di un paper
  - Stability Analysis in a Vietnam Small Island for the Deployment of a Nearshore Wave Power Plant
- Conferenza OCEANS 2020 Singapore US. Gulf Coast, tenutasi in modalità WEB, con presentazione di tre paper.
  - Power Conversion System for Improved Linear Generator in sea wave energy harvesting application
  - First analyses on a mechanical motion converter to produce electrical energy from sea wave
  - Introduction of Offshore Wave, Wind and Solar Energies in Vietnam
- Conferenza EEEIC 2020, tenutasi in modalità WEB, con presentazione di un paper.
  - Wave and Wind Energy Systems Integration in Vietnam: Analysis of Energy Potential and Economic Feasibility
- Conferenza MELECON 2020, tenutasi in modalità WEB, con presentazione di un paper
  - Flexibility Services in a Mediterranean Small Island to Minimize Costs and Emissions Related to Electricity Production from Fossil Fuels
- Conferenza SWEDES 2018 Palermo, tenutasi a Palermo, in qualità di membro dello staff organizzatore e presentazione di tre articoli
  - Evaluation of an integrated energy system in the Park of Madonie
  - Investigating Energy Saving Potential in a Big Shopping Centre through Ventilation Control
  - Sea wave energy to supply the Aeolian Islands in sustainable way
- Conferenza EEEIC 2018, presso Università degli Studi di Palermo, in qualità di membro dello staff organizzatore, chair e presentazione di tre articoli.
  - Session Chair: M1-TS3 Electrical machines and power converters - 1
  - Paper: A renewable energy mix to supply the Balearic Islands: Sea Wave, Wind and Solar
  - Paper: Energy Saving Optimizing the Ventilation Control in a big shopping center
  - Paper: Improvement of Energy Efficiency for Indoor Lighting in a big shopping center
- Conferenza EVER 2018, presso Principato di Monaco, con presentazione di tre articoli.
  - An innovative mechanical motion converter for sea wave applications
  - Energy savings for indoor lighting in a shopping mall: a case study
  - Environmental sustainability in non-residential buildings by automating and optimization LENI index
- Conferenza SWEDES 2018 Rio, presso Università Federale di Rio de Janeiro, con presentazione di due articoli.
  - Desalination in small islands: The case of study of Lampedusa (Italy)
  - A sustainable energy production: Sea Wave in the small island of Ustica (Italy)
- Conferenza OCEANS 2017 Anchorage, con presentazione di un articolo.
  - Experimental Tests on Hydrogen Production from Seawaves Energy
- Conferenza SWEDES 2016, presso Università di Lisbona, con presentazione di tre articoli.
  - Near 100% Renewable Island with sea wave energy. The case study of Pantelleria in Mediterranean sea
  - Renewable energy sources for energy consumption needs of Malta Island in Mediterranean sea
  - Sea wave energy to producing Hydrogen for public transport in Trapani (Italy)

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