

Carlotta Cosentini

WORK EXPERIENCE

[01/2022 – Current]

Green Hydrogen production Engineer
Enel Green Power

City: Rome | **Country:** Italy

- Remote monitoring and analysis of operational plant data;
- Identification of KPIs and analysis of plant performance;
- Reporting;
- Dissemination on the implemented monitoring system.

[11/09/2023 – 15/09/2023]

Conference Technical Staff
10th International Symposium on Turbulence, Heat and Mass Transfer

City: Rome | **Country:** Italy

[28/02/2022 – 01/07/2022]

Virtual Networking Management for WG4
EU COST Action CA19123-Protection, Resilience, Rehabilitation of damaged environment (PHOENIX)

- Coordinate the meetings related to the design of planned position papers for dissemination purposes;
- Support the activities of the Working Group and of the Action;
- Support the preparation, planning, writing of joint papers;
- Participate to research activities and experimentations of the Working Group;
- Active involvement in the social networks of the Action.

[28/02/2022 – 27/03/2022]

Grant for Research Activity on Microbial Fuel Cells (MFCs)
Mechanical and Aerospace Engineering Department, Sapienza, University of Rome

City: Rome | **Country:** Italy

EDUCATION AND TRAINING

[01/01/2022 – Current]

PhD in Energy and Environment
Sapienza, University of Rome

City: Roma | **Country:** Italy |

[2018 – 2021]

Master of Science in Energy Engineering
Sapienza, University of Rome

City: Roma | **Country:** Italy | | **Final grade:** 110/110 e lode | **Thesis:** Experimental study on terrestrial Microbial Fuel Cells: analysis of power generation and possible use for bioremediation

[2015 – 2018]

Bachelor degree in Energy Engineering
Sapienza, University of Rome

City: Roma | **Country:** Italy | | **Final grade:** 110/110 | **Thesis:** Application of Microbial Fuel Cells (MFCs) for the treatment of food industry wastewater

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CONFERENCES AND SEMINARS

[08/09/2024 – 12/09/2024] **19th SDEWES Conference** Rome

Conference Attendee and Speaker

[04/09/2024 – 06/09/2024] **79° Congresso ATI 2024** Genova

Conference Attendee

[19/01/2022 – 21/01/2022] **COST Action CA 19123 PHOENIX Main Conference** Rome

Conference Attendee

NETWORKS AND MEMBERSHIPS

[2024 – Current] **SDEWES Centre**

Regular member of the International Centre for Sustainable Development of Energy, Water and Environment Systems

PUBLICATIONS

[2024] [Microbial fuel cells with polychlorinated biphenyls contaminated soil as electrolyte: energy performance and decontamination potential in presence of compost](#)

Reference: Gagliardi G. G. et al., 2024, Journal of Power Sources, 613, 234878

[2024] [Plant microbial fuel cells for recovering contaminated environments](#)

Reference: Ancona V. et al., 2024, International Journal of Hydrogen Energy, 72, 1116–1126

[2023] [Effects of municipal waste compost on microbial biodiversity and energy production in terrestrial microbial fuel cells](#)

Reference: Garbini, G. L. et al., 2023, New Biotechnology, 78, 131–140.

[2023] [Siccit , Transizione Auto, Case Green - Mission impossible, yet mandatory](#)

[2023] [Sviluppo di Stazioni di Rifornimento Idrogeno. Barriere normative e scenari di implementazione](#)

[Design and experimental set-up of hydrogen based microgrid: Characterization of components and control system development](#)

Reference: Carmine Cava et al., 2022, J. Phys.: Conf. Ser. 2385 012042

[2022] [An efficient composite membrane to improve the performance of PEM reversible fuel cells](#)

Reference: Gagliardi, G.G., Cosentini, C., Borello, D., 2022, E3S Web of Conferences, 334, 04018

CERTIFICATES AND COURSES

[28/10/2024 – 31/10/2024]

Bioenergy School, ENEA

Summer School (28 hours), co-organised by ENEA and the NEST (Network for Energy Sustainable Transition) Project, dedicated to PhD and Research fellows and hosted at the research facilities of the ENEA Bioenergy, Biorefinery and Green Chemistry Division operating at the ENEA TRISAIA Research Centre.

[2023 – 2023]

Hydrogen Revolution Training-RINA, Enel Green Power

Strategic, technical and safety overview of Hydrogen technologies-15 hours

[10/2023 – 11/2023]

Energy conversion, biofuels and hydrogen production from contaminated soils and waters in a sustainable bioregenerative perspective

Advanced PhD Course-18 hours

[2022 – 2022]

Corso di Formazione, Informazione e Addestramento sul Rischio chimico (ai sensi del D.lgs. 891/08 art. 36, 37 e 227)