PERSONAL INFORMATION

Emanuele Giovanni Carlo Ogliari

📍 Politecnico di Milano - Department of Energy
Via Giuseppe La Masa, 34
20156 – Milan - Italy
📞 02.2399.8524

✉ emanuelegiovanni.ogliari@polimi.it

🌐 https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?evn_prodotti=EVENTO&k_doc=117567&aa=2018&lang=IT

Sex Male | *Nationality* Italian

SHORT BIO

Emanuele Giovanni Carlo Ogliari is Associate Professor at the Department of Energy, Politecnico di Milano, Italy where he teaches *Electrical Engineering* and *Photovoltaic-based Systems* Lab. He has a M.Sc. and he received the Ph.D. degree in electrical engineering at Politecnico di Milano, Italy, in 2016. He is working on photovoltaic power plant design and their optimization since 2010 and on Machine Learning techniques applied to the Energy Systems since 2012. He has collaborated with international universities and research centers (The University of Danang – University of Science and Technology, Ben Gurion University of the Negev and Global Energy Interconnection Research Institute Europe). In 2013 he won the joint laboratories between Italy and Israel on Solar Energy ILSE.

WORK ACTIVITIES
Awards

December 2013: he won the ENEA national tender co-financed by Italy and Israel for the ILSE Joint Laboratory on Solar Energy. He used the sun-tracking environmental chamber to characterize the performance of CPV cells, receivers, mono-modules and modules for the European 7th-Framework project "ECOSOLE".
December 2013: Winner of the international context Hiwhim PLASTIC INTERACTIVE PRODUCT developing "GerVaso – the photovoltaic vase" - with the designer Lorenzo Maschi.

Invited presentations

10/09/2024 Key Note speaker at the "International Digital Energy Expo 2024 & Europe-China Net Zero Power System Summit", title "Bridging the gap between Research and Reality ensuring Safe and Reliable Energy Storage", Huawei Dongguan Campus, Sanyapo, China, 8-11 September 2024.

29/02/2024 – Rimini Fiera, Italy, K.EY, Huawei FusionSolar Forum, with the lecture entitled "PV-Storage for C&I applications Safety, Savings and Sustainability"

29/03/2022 - EPFL Lausanne, Switzerland, Applied Machine Learning Days 2022, track "AI & Sustainable Energy", title "Photovoltaic power generation nowcasting: cloud type classification forecast through satellite data and imagery" - link: https://www.youtube.com/watch?v=2TiczVOmy3w

22/11/2021 - TNO, the Netherlands Organisation for applied scientific research
Invited talk **"Nowcasting: short-term PV power forecast"** during Lunch Colloquim at TNO
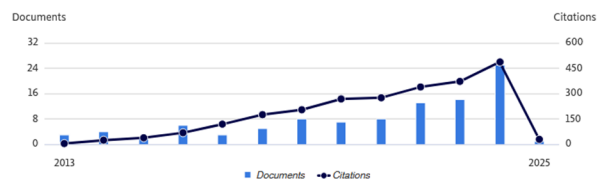
ADDITIONAL INFORMATION
Publications

99 scientific publications, published in national and international journals or presented at national and international congresses (h-index 24, no. of citations 2402; source: Scopus database dated 21st January 2025. (https://www.scopus.com/authid/detail.uri?authorId=55682995600)

Document & citation trends

Most contributed Topics 2019–2023 ⓘ

Neural Network; Solar Energy; Photovoltaics
15 documents

Lithium-Ion Batteries; State of Charge; Battery (Electrochemical Energy Engineering)
6 documents

Neural Network; Pattern Recognition; Power Transformer
5 documents

Other Relevant Information

Workgroups
28 April 2015: Elected representative of the PhD students in the Board of the PhD School at Politecnico di Milano.
2011-2012 - CEI – Comitato Elettrotecnico Italiano, Technical Committee 82 - Workgroup 4, for the drafting of the technical manual titled CEI 82-25 "Guide to the realization of photovoltaic power generation systems connected to networks of Medium and Low Voltage";

Memberships
20 April 2011: registered as Professional Engineer of the Province of Milan – Section A, industry, n° A 28690.
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Milan, 21/01/2025