

## Luca Tomasi

Fondazione Edmund Mach

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Sex: M Date of birth: 04/11/1974 Nationality: ITA



**CURRENT POSITION** Technologist

**ADDITIONAL RELEVANT POSITIONS** corporate energy manager

### RESEARCH FIELD (MAX 1000 characters space included)

- analysis of technologies for the energy valorisation of biomass waste generated by the agro-industrial sector e forest
- pre-feasibility studies for cogeneration plants from waste biomass, organic waste and/or by-products
- coordination and/or conducting of experimental activities in the field of dry anaerobic digestion of organic waste, aimed at optimizing biogas production and investigating innovative small-scale energy valorisation systems (production of biomethane and micro-cogeneration)
- survey activity on the organic waste available in the Trentino area
- participation in national and international projects in the RES sector and organic waste management
- collaborations with universities and research institutions aimed at identifying new research and experimentation activities
- support to local producers and companies looking for systems to improve the efficiency and/or valorisation of waste materials generated by the production process
- participation in internal commissions for the evaluation of technical offers in the context of tenders (photovoltaic systems, biomass plants)

### WORK EXPERIENCE

**2004-2011** **Environmental technician and auditor at the service of an accredited Certification Body operating in the agri-food/wood/forestry sector**  
AQA Certificazioni - san Michele all'Adige (TN)

- technical manager for the certification process of client companies
- Lead Auditor and Auditor at client companies (Environmental Management Systems, Sustainable Forest Management, Chain of Custody, Quality Management Systems, sustainable fish farming "Friend of the Sea")
- internal Quality System management assistant (SINCERT/ACCREDIA accreditation)
- Teaching activities relating to the sector of Environmental Certifications
- coordination of new services implementation activities (e.g. recognition for CE marking of wood structural, activation of inspection services on behalf of the "Friend of the Sea" brand)
- contact person on behalf of the E. Mach Foundation in the context of the LEED Technical Committees and the "forest-wood-energy Control Room"

**2002-2004** **design engineer, cad draftsman**

Engineering San Basilio - Meano di Trento (TN)

design assistance (private construction - tourist villages) and construction supervision (public construction), work accounting, management of land register and condominium practices, development of architectural drawings with the use of CAD (2D-3D), design of sewers and aqueducts

### EDUCATION AND TRAINING

1994-2002

Degree in environmental and territorial engineering  
University of Trento

**PERSONAL SKILLS**

Mother tongue

ITA

Other languages

German - high school level

English - elementary school level

**ADDITIONAL INFORMATION**

Publications and main indexes

Total number of publications in peer-review journals: 18

H-Index:

Google Scholar Page:

Scopus:

Publons:

ORCID:

Relevant publications for the call  
(max 10)

Viesi, Diego & Crema, Luigi & Mahbub, Md. Shahriar & Verones, Sara & Brunelli, Roberto & Baggio, Paolo & Fauri, Maurizio & Prada, Alessandro & Bello, Andrea & Nodari, Benedetta & Silvestri, Silvia & Tomasi, Luca. (2020). Integrated and dynamic energy modelling of a regional system: A cost-optimized approach in the deep decarbonisation of the Province of Trento (Italy). *Energy*. 209. 118378. 10.1016/j.energy.2020.118378.

Papurello, Davide; Tomasi, Luca; Silvestri, Silvia. (2018). Proton transfer reaction mass spectrometry for the gas cleaning using commercial and waste-derived materials: Focus on the siloxane removal for SOFC applications. *International Journal of Mass Spectrometry*. 430. 10.1016/j.ijms.2018.05.002.

Papurello, Davide; Tomasi, Luca; Silvestri, Silvia; Santarelli, Massimo. (2016). Evaluation of the Wheeler-Jonas parameters for biogas trace compounds removal with activated carbons. *Fuel Processing Technology*. 152. 93-101. 10.1016/j.fuproc.2016.06.006.

Papurello, Davide; Silvestri, Silvia; Tomasi, Luca; Belcari, Ilaria; Biasioli, Franco; Santarelli, Massimo. (2016). Biowaste for SOFCs. *Energy Procedia*. 101. 424-431. 10.1016/j.egypro.2016.11.054.

Papurello, Davide; Tomasi, Luca; Silvestri, Silvia; Belcari, Ilaria; Santarelli, Massimo; Smeacetto, Federico; Biasioli, Franco. (2016). Biogas trace compound removal with ashes using proton transfer reaction time-of-flight mass spectrometry as innovative detection tool. *Fuel Processing Technology*. 145. 62-75. 10.1016/j.fuproc.2016.01.028.

## Presentations at conferences

Papurello, Davide; Silvestri, Silvia; Santarelli, M.; Tomasi, Luca; Lombardi, Lidia. (2018). Biogas upgrading to biomethane with ashes. Conference: Ecomondo At: Rimini

Papurello, Davide; Biasioli, Franco; Santarelli, Massimo; Silvestri, Silvia; Tomasi, Luca. (2018). SUM18 Real time monitoring of biogas trace compounds with a biochar reactor using a DIMS technique. Conference: SUM18 At: BERGAMO

Papurello, Davide; Modena, Stefano; Silvestri, Silvia; Bona, Daniela; Biasioli, Franco; Tomasi, Luca. (2017). WASTE TO ENERGY WITH AN SOFC GENERATOR SYSTEM - PILOT PLANT EXPERIMENTATION. Conference: European Fuel Cell Technology & Applications Conference - Piero Lunghi Conference At: Naples

Carnevale, Ennio; Lombardi, Lidia; Nincheri, Enrico; Papurello, Davide; Silvestri, Silvia; Tomasi, Luca. (2017). WOOD COMBUSTION ASH FOR THE UPGRADING OF BIOGAS FROM ANAEROBIC DIGESTION. Conference: MatER At: Milano

Papurello, Davide; Tomasi, Luca; Bona, Daniela; Silvestri, Silvia. (2017). DIRECT INJECTION MASS SPECTROMETRY TECHNIQUE TO MONITOR THE REMOVAL OF TRACE COMPOUNDS: BIOCHAR AND ASHES. Conference: 4th International Conference on Renewable Energy Gas Technology Pacengo (Verona), Italy

Papurello, Davide; Belcari, Ilaria; Tomasi, Luca; Silvestri, Silvia. (2017). INNOVATIVE TECHNIQUE TO MONITOR THE REMOVAL OF SILOXANE WITH SORBENT MATERIALS: BIOCHAR AND ACTIVATED CARBONS. Conference: central European biomass conference At: Graz

Papurello, Davide; Silvestri, Silvia; Tomasi, Luca; Belcari, Ilaria; Biasioli, Franco & Santarelli, Massimo. (2016). Biowaste for SOFCs. Conference: ATI 2016 At: Turin

Papurello, Davide; Silvestri, Silvia; Tomasi, Luca; Belcari, Ilaria; Biasioli, Franco; Santarelli, Massimo. (2016). Natural gas trace compounds analysis with innovative systems: PTR-ToF-MS and FASTGC. Conference: ATI 2016 At: Turin

Papurello, Davide; Tomasi, Luca; Silvestri, Silvia; Belcari, Ilaria; Santarelli, Massimo; Biasioli, Franco. (2016). Wastes as sorbent materials for SOFC applications. Conference: SUM16 3rd symposium on Urban mining At: old monastery st. Augustine Beragamo Italy

Papurello, Davide; Lanzini, Andrea; Smeacetto, Federico; Fiorilli, Sonia; Santarelli, Massimo ; Silvestri, Silvia; Tomasi, Luca. (2015). New sorption materials, trace compounds removal for SOFC application. Conference: Ecomondo Rimini - Edizione della Conferenza Nazionale sul Compostaggio e Digestione Anaerobica, sessione tecnica At: Rimini

Papurello, Davide; Silvestri, Silvia; Bona, Daniela; Tomasi, Luca; Cristoforetti, Andrea; Forlin, Lorenzo; Tognana, Lorenzo. (2014). Tecnologie innovative per l'utilizzo del biogas in impianti di cogenerazione di piccola taglia. Conference: 4° Food BioEnergy At: Cremona

## Main projects (last 5 years)

WEBio - WEB Platform for local available biomass  
Call: EIT Climate-KIC Late demonstrator stage (LST)  
Project leader: ENGIE S.A. (Francia)  
Partners: Open Foret, FEM  
Duration: 14 m (2018-2019)

PEAP - Energy and Environmental Plan of the Autonomous Province of Trento 2021-2030  
contribution to the elaboration (responsible for technical annex n. 8)

BWS - BioWaste for SOFCs  
Call: bando per giovani ricercatori 2014 - Fondazione CARITRO  
Duration: 2014-2016

21/12/2022

