



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)	Zanetti Mariachiara		
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Telephone(s)	0039-011-5647696 o 0115647601	Mobile:	331-6573971
Fax(es)	0039-011-5647699		
E-mail	mariachiara.zanetti@polito.it		
Nationality	Italian		
Date of birth	10/09/1964		
Gender	Female		

Work experience

<p>Dates</p>	<p>From 1/6/2021 Environmental Advisor of Acciaierie d'Italia From 1/9/2019 to 31/5/2021 Environmental Advisor of ArcelorMittal Italia From 1/4/2018 Member of SeaSide Control Board From 1/3/2018 till 30/4/2021 Member of Italgas Acqua Control Board From 1/1/2017 till 1/10/2017 Member of Napoletana Gas Control Board From 1/1/2017 till 1/7/2018 Member of ACAM Gas Control Board From 1/12/2016 Member of ITALGAS Reti Control Board From 1/3/2016 till 30/6/2019 Environmental Advisor of ILVA S.p.A. From 31/5/2014 till 17/12/2014 Member of TARANTO ENERGIA Control Board From 31/5/2014 till 1/4/2016 Member of SANAC Control Board From 31/5/2014 till 1/4/2016 President of INNSE Cilindri Control Board From 1/10/2013 till 1/4/2016 Member of ILVA Control Board From 1/1/2013 Member of Arpa Piemonte Scientific Committee From 1/10/2012 till 1/6/2017 Member of Fidia Administration Board From 1/10/2015 till 30/9/2019 Vice Head of the Engineering Department of Environment Land and Infrastructures (DIATI) of Politecnico di Torino From 1/1/2012 till 1/10/2021 Member of Politecnico di Torino public party delegation union negotiation From 1/1/2012 till 30/9/2015 Member of the Advisory Board of Politecnico di Torino From 1/1/2012 till 30/9/2015 Head of the Engineering Department of Environment Land and Infrastructures (DIATI) of Politecnico di Torino. From 1/10/2008 till 31/12/2011 Head of the Engineering Department of Land, Environment and Geotechnologies of Politecnico di Torino From 1/11/2006 Full Professor at Politecnico Torino in Environmental Sanitary Engineering From 1/12/2002 Responsible of the Research Lab "Gas, Water and Waste Treatment Center" From 1/12/2002 till 31/10/2006 Associate Professor at Politecnico Torino in Environmental Sanitary Engineering From 1/10/1996 till 30/11/2002 Researcher in Raw Material Engineering May 1994 PhD in Chemical Engineering at Politecnico di Torino July 1989 Master Science Degree in Mining Engineering at Politecnico di Torino</p>						
<p>Occupation or position held</p>	<p>Full Professor at Politecnico Torino in Environmental Sanitary Engineering. Responsible of the Research Lab "Gas, Water and Waste Treatment Center" Leader of the "Environmental Sanitary Engineering" research group (current composition, January 2020: 2 Full professors, 8 Associate professors, 8 Research associates) Member of Arpa Piemonte Scientific Committee</p>						
<p>Main activities and responsibilities</p>	<p>Development of applied research in Environmental Sanitary Engineering by means of private and/or public financial grants and the organization of research teams. Her main scientific activity is focused on environmental technologies for wastewater treatment, waste recycle and reuse, contaminated land characterization and cleaning, environmental risk analysis. She managed several projects financed by public and private entities aimed to the development of new technologies in order to achieve the environmental sustainability in industrial activities.</p> <p>She was lecturer of bachelor and master degree courses concerning methods and technologies for the environmental impact minimization of human activities. She was also lecturer in several post master degree courses performed by Politecnico di Torino, Hydroaid e Università di Parma in Italy and Brasil. She is the author of Environmental Engineering MOOC at Uninettuno University. She is author of more than 300 publications of which 110 on referred journals and 15 as book chapters.</p>						
<p>Name and address of employer Type of business or sector</p>	<p>Politecnico Torino, DIATI, C.so Duca degli Abruzzi 24 10129 Torino, ITALY University</p>						
<p>Personal skills and competences</p>							
<p>Mother tongue(s)</p>	<p>Italian</p>						
<p>Other language(s) Self-assessment</p>	<table border="1"> <thead> <tr> <th data-bbox="507 2018 914 2056">Understanding</th> <th data-bbox="914 2018 1315 2056">Speaking</th> <th data-bbox="1315 2018 1513 2056">Writing</th> </tr> </thead> <tbody> <tr> <td data-bbox="507 2056 914 2056"></td> <td data-bbox="914 2056 1315 2056"></td> <td data-bbox="1315 2056 1513 2056"></td> </tr> </tbody> </table>	Understanding	Speaking	Writing			
Understanding	Speaking	Writing					

European level (*)		Listening	Reading	Spoken interaction	Spoken production
Language	E	C1	C1	C1	C1
Language	F	A2	B2	A2	A2
	ES	A2	B2	A1	A1

(*) Common European Framework of Reference for Languages

Organisational skills and evaluator competences

Member of the Editorial Board of the International Journal of Environmental Research and Public Health
Peer reviewer of Water Research, Environmental Progress, Journal of Hazardous Materials, Waste Management, Waste Management & Research, Resources Conservation & Recycling, Desalination, Chemical Engineering, Environmental Engineering and Management, Environmental Science & Pollution Research, Environmental Technology, Journal of Cleaner Production, Journal of Hazardous Materials.
Member of GEV VQR 2015-2019
Member of the World Economic Forum
Invited presenter COP 25 Madrid, 2019
Associate Member of the Third World Organization for Women in Science
Member of the Advisory Board for Politecnico di Torino of Hydroaid, International School for Waster and Development
President of Scientific Committee of SIDISA 2021 Congress
Member of RemTech Scientific Committee
Member of Scientific Committee of Industrial and Hazardous Waste Management CRETE Congress
Member of Scientific Committee of CEST 2017 Congress
Member of Scientific Committee of UDM 11th International Conference on Urban Drainage Modelling
Member of Scientific Committee of WaterEnergyNexus 2018 International Conference
Member of Scientific Committee of 4th Convegno Mater 2019 International Conference
Member of Scientific Committee of CEST 2019 Congress
Member of Scientific Committee of CEST 2021 Congress
Member of Scientific Committee of IWA EcoSTP 2021 Ecotechnologies for Wastewater Treatment
Member of International Waste Working Group
Member of the World Economic Forum
Commissioner ANVUR national certification 2012-2013
Member of the SIR Selection Committee (MIUR)
Evaluator of NWO (Netherlands Organisation for Scientific Research)
Evaluator of TACIS EC programme
Evaluator of MIUR FAR programme (DM 593/2000)
Evaluator of MAP PON PIA Innovation programme
Evaluator of MANUNET Research Projects (FESR POR Piedmont Region, FINPIEMONTE)
Evaluator of PMI Research Projects (FESR POR Piedmont Region, FINPIEMONTE) since 2010
Evaluator of Micro Research Projects (FESR POR Piedmont Region, FINPIEMONTE) since 2011
Evaluator of MANUNET Research Projects (FESR POR Piedmont Region, FINPIEMONTE) since 2011

Technical skills and competences

Her main competences and technical skills are focussed on the following topics:

Reclamation of polluted sites

Investigation and tests of advanced remediation technologies.

Characterization of polluted sites. Health risk analysis models application.

Research studies concerning the interactions between organic pollutants (phenols, aromatic hydrocarbons, chlorinated hydrocarbons) and natural soils by means of batch tests.

Analysis of the biogas and leachate production in landfills.

Recovery of industrial waste products and assessment of industrial costs

Physical and chemical characterization, leaching tests on waste products (exhaust foundry sand, dust, sludge and slag; exhaust battery, grinding scraps, automobile shredder residues, paint sludge, rubber from end-of-life tires) coming from industrial plants and design of treatment processes for the recycle of valuable materials.

Assessment of the environmental compatibility of the employment of crumb rubber from end-of-life tires and paint sludge from automotive industry in road pavements using environmental-sanitary risk analysis procedures.

Tests in a batch and semi-continuous mode for the assessment of the feasibility of energy production from the anaerobic digestion of agro-industrial waste products. Energy and economic balances.

Tests on several pre-treatment processes (mechanical, thermal, chemical, biological) for the improvement of energy production from the anaerobic digestion of waste activated sludge from WWTPs. Energy and economic balances.

Treatment of drinking water and wastewater

Advanced oxidation process (ozonation) for the abatement of ammonia from municipal and industrial wastewaters. Investigation of the role of several operating parameters (pH, ozone concentration, alkalinity content, halide presence) in a lab-scale reactor.

Disinfection byproducts evaluation by means of chemical analyses and statistical approach.

Advanced membranes technologies.

Minimization of water consumption and reuse / recycle in industrial plants (automotive, food) according to the BAT Reference Documents.

Additional information

In my work activity I cooperated with the following private/public entities:

- IEA
- CNR
- Barricalla S.p.a.
- A.M.I.A.T.
- Regione Piemonte
- CSI Piemonte
- CFF Recycling (Derichembourg)
- Ecopneus
- Fondazione Eni Enrico Mattei
- GRUPPO MINERALI
- TEKSID S.p.a.
- SMAT
- AHLSTROM S.p.a.
- NETWORK EUROPEO: Foundry waste (EU-contract No. BRRT-CT97-5048)
- TRM S.p.a.
- PROVINCIA DI TORINO
- REGIONE PIEMONTE
- SIMPRO S.p.a
- CORCOS INDUSTRIALE S.p.A
- ARPA Piemonte
- AIMERI S.p.A.
- ITALGAS S.p.A.
- ACCIAIERIE BELTRAME
- CONTENTOTRADE
- VOMM
- ALENIA
- SODAI
- FIAT GROUP AUTOMOBILES
- CRF
- ENI
- ILVA
- IREN
- AIRU
- ENEL
- LAVAZZA
- PIAGGIO
- AIRU
- STELLANTIS
- Italian Ministry of Public work
- Italian Ministry of Research
- Italian Ministry of Foreign Affairs
- International Water School Hydroaid

- **Annexes**

She was the leader of the following research projects:

MURST Research Projects:

COFIN 2011 (2011-2013) "Life cycle risk analysis of recycled waste products in road pavements", Politecnico di Torino Unit Responsible

Research Projects funded by the European Community:

- BANDO RICERCA INDUSTRIALE 2006 (CIPE) 2007/10, Research Project DIGESTED ENERGY(1/10/2007 – 30/09/2010), "Ottimizzazione della digestione di biomasse ad opera di microorganismi anerobici", Project Coordinator Università di Torino, Politecnico di Torino Unit Responsible.
- POR-FESR 2007/13, Research Project SAFE FOOD CONTROL (1/10/2010 – 30/09/2013), "Development of innovative processes and techniques for production, conservation, transformation and valorization of Piedmont high-quality agricultural goods", Project Coordinator Agroinnova – Università di Torino, Politecnico di Torino Unit Responsible.
- POR-FESR 2007/13, Research Project ECO FOOD CONTROL (1/10/2010 – 30/09/2013), "Ricerca & Innovazione per il miglioramento della sostenibilità della filiera agroalimentare", Project Coordinator Politecnico di Torino Unit Responsible.
- LIFE+, LIFE10ENV/IT/000390 Tyrec4Life (1/09/2011 – 31/08/2015), "Development of innovative techniques to improve the efficiency of the employment of crumb rubber from ELVs in road pavements", Project Coordinator Provincia di Torino, Politecnico di Torino Unit Responsible.
- WATSAM, FED 2011/279-318 (1/08/2012 – 31/07/2015), "water & sanitation sector through capacity building and partnership development with Italian water organizations", Project Coordinator Hydroaid, Politecnico di Torino Unit Responsible.
- GREEN FACTORY FOR COMPOSITES - GREEN FACTORY 4COMPO financed from MIUR - POR FESR 2014/2020, Project Coordinator CRF, Politecnico di Torino DIATI Unit Responsible
- Renewable Energies for Water Treatment and Reuse in Mining Industries (REMIND, H2020-MSCA-RISE-2018) (1/12/2018 -30/11/2022)
- RECIPLAST financed from MIUR - POR FESR 2014/2020, Project Coordinator Garbo, Politecnico di Torino DIATI Unit Responsible

Research Projects funded by Agenzia Italiana per la Cooperazione allo Sviluppo

S.M.A.R.T. "Intervento integrato su Sanitation, Marketing Agriculture, Rural Development and Transformation, nella Regione di Gambella"

Research Projects funded by Private or Public Entities:

1. Research project funded by ENI S.p.A. concerning the "Optimization of experimental activities for algae growth", 2019.
2. Research project funded by ENI S.p.A. concerning the " Nannochloropsis inoculum alga preparation",2018.
3. Research project funded by IREN Energia S.p.A.. concerning the "Evaluation of the consequences in terms of air quality of a cogenerative district heating system. Analysis of the following cities: Asti, Novara, Parma, Piacenza, Reggio Emilia e Vercelli", 2018.
4. Research project funded by SMAT S.p.A concerning the "Wastewater treatment plant: sludge management, modeling and struvite production", 2018.
5. Research project funded by Lavazza S.p.A. concerning the "Biomass characterization and methane potential evaluation" , 2018.
6. Research project funded by Iren S.p.A. concerning the ""SALT – Salt tolerant plants for produced water management, 2018.

7. Research project funded by Iren S.p.A. concerning the "Evaluation of the consequences in terms of air quality of a cogenerative district heating system (in particular analysis of the Turin case study)", 2017.
8. Research project funded by SMAT S.p.A concerning the "Analysis and implementation of a modelling system for the atmospheric dispersion of odorous effluents", 2017.
9. Research Project FCA – PoliTo 2017 "Circular economy for recovery and recycling of car materials", 2017.
10. Research Project FCA "Evaluation of paint sludge employment in bituminous mixtures", 2017.
11. Research project funded by ALENIA S.p.A. concerning the "Environmental impact evaluation", 2017.
12. Research project funded by Lavazza S.p.A. concerning the "Biomass characterization and methane potential evaluation", 2017.
13. Research project funded by Hydroaid concerning the "Teaching performance for the preparation of the contents of an e-learning course dedicated to the planning and management of water supply systems, 2016.
14. Research project funded by ILVA S.p.A. concerning the "Technical analysis of investments", 2015.
15. Research project funded by Mapei S.p.A. concerning the "Environmental impact evaluation of foaming agents", 2015.
16. Research project funded by ALENIA S.p.A. concerning the "Environmental impact evaluation", 2015.
17. Research project funded by Fenice S.p.A. concerning the "Optimization of the management of wastewaters coming from the FCA plant located in Verrone (BI)", 2015.
18. Research project funded by FIAT Group Automobiles concerning the "Life cycle assessment of vehicles", 2015.
19. Research project funded by SODAI S.p.A. concerning the "Research of the best operating condition for the treatment with ozone of wastewater containing ammonia", 2015.
20. Research project funded by SMAT S.p.A. concerning the "Optimization of anaerobic digestion of waste activated sludge from WWTPs using several kinds of pretreatments", 2012-2015.
21. Research project funded by SMAT S.p.A. concerning the "Monitoring of the presence of asbestos in drinking water samples", 2013-2015.
22. Research project funded by SMAT S.p.A. concerning the "Research of solutions for the improvement of the efficiency of the existing WWTP of Rosta, TO", 2015.
23. Research project funded by FIAT Group Automobiles concerning the "Assessment of the environmental compatibility of the employment of paint sludge from the Group plants in road pavements", 2013-2015.
24. Research project funded by Ecopneus Italia concerning the "Assessment of the environmental compatibility of the employment of crumb rubber from end-of-life tires in road pavements", 2012-2014.
25. Research project funded by Deloitte S.p.A. concerning the "Analysis of the remediation costs of Portovesme and San Gavino sites", 2012.
26. Research project funded by ECODECO S.p.A. concerning the "Risk analysis of Cavaglia landfill", 2011.
27. Research project funded by SKF Industrie S.p.A. concerning the "Improvement of the performances of the wastewater treatment plant located in Airasca (TO)", 2010.
28. Research project funded by Barricalla S.p.A. concerning the "Reuse of ashes from MSW incinerator as engineering material in landfills", 2010.
29. Research project funded by Italgas S.p.A. concerning the "Characterization and remediation of polluted sites", 2010.
30. Research project funded by FATA Group concerning the "Analysis of the existing data and characterization plan of the area in San Michele di Mondovì (CN) for the construction of the new combined cycle power cogeneration", 2010.
31. Research project with Prefetto di Alessandria concerning the "Characterization of the polluted site Ex-Ecolibarna located in Serravalle Scrivia (AL) and in situ pilot tests", 2007 and 2010
32. Research project funded by FIAT Group Automobiles concerning the "Possible fates and valorization opportunities of paint sludge from FIAT group plants", 2009-2010
33. Research project funded by Provincia di Torino concerning the "Performance assessment of the employment of crumb rubber from ELTs in asphalt pavements", 2008-2009.
34. Research project funded by ALENIA S.p.A. concerning the "Development of an environmental management system for North Caselle and South Caselle plants", 2009
35. Research project funded by Sodai S.p.A. concerning the "Analysis of a liquid wastes treatment plant", 2009.
36. Research project funded by Farid S.p.A. concerning the "Analysis of the biogas production process from MSWOF", 2008.
37. Research project funded by CFF Recycling S.p.A. concerning the "Physical and chemical characterization and treatment design for the recovery of automobile shredder residues (ASR)", 2007-2008

38. Research project funded by Ledoga S.p.A. concerning the "Analysis of the Ledoga production cycle", 2007.
39. Research project funded by Retrac S.R.L. concerning the "Physical and chemical analyses of rain samples coming from Volpiano plant", 2006 and 2008.
40. Research project funded by Comune di Torino concerning the "Application of the sanitary – environmental risk analysis procedure to artificial sports turf fields", 2006-2007.
41. Research project funded by SKF Industrie S.p.A. concerning "Treatments for the recovery of grinding scraps", 2006-2007.
42. Research project funded by Cartiere Ahlstrom concerning the "Chemical analysis of rain samples coming from Mathi Torinese plant", 2005-2006.
43. Research project funded by Acciaieria Beltrame concerning the "Physical and chemical characterization of waste products coming from the industrial process", 2005.
44. Research project funded by Aimeri concerning the "Analysis of groundwater and results comparison with the leachate characteristics of the Roasio landfill", 2005.
45. Research project funded by Provincia di Torino concerning the "IPPC application to industrial sites", 2005.
46. Research project funded by AMIAT S.p.A. concerning the "Evaluation of the efficiency of the biogas capitation system", 2005.
47. Research project funded by AMGA S.p.A. concerning the "Biogas energetic exploitation", 2005.
48. Research project funded by Acciaieria Beltrame S.p.A. concerning the "Evaluation of the gaseous emissions from a steel factory", 2005.
49. Research project funded by Studio Aglietto S.R.L. concerning the "Evaluation of solid – liquid adsorption coefficients for aromatic hydrocarbons and chlorinated hydrocarbons by means of batch tests", 2004.
50. Research project funded by ACSR S.p.A. concerning the "Risk analysis procedure applied to the Borgo San Dalmazzo landfill", 2004.
51. Research project funded by ARPA Piemonte concerning the "Characterization plan of the Fiat Avio polluted site", 2004.
52. Research project funded by Barricalla concerning the "Analysis of the leachate quality and quantity of the Barricalla landfill", 2004.
53. Research project funded by Corcos Industriale S.p.A. concerning the "Site characterization and preliminary project design for an environmental remediation process", 2003-2004.
54. Research project funded by TRM S.p.A. concerning the "Analysis of technical and environmental features of three sites for the construction of the new thermo-valorization plant", 2003.
55. Research project funded by Provincia di Torino concerning the "Characterization and recovery of waste products coming from the secondary smelt foundries located in Torino surroundings", 2002-2004.
56. Research project funded by Teksid concerning the "Characterization and recovery of waste products coming from the Crescentino plant", 2001.
57. Research project funded by Safond S.r.l. concerning the "Analysis of the Safond treatment cycle for the recovery of foundry sands", 2001.
58. Research project funded by Safond S.r.l. concerning the "Analysis of the Gemco treatment", 2000.

Patents

Patent (Application number 05111307.4, filed 01/03/2006) concerning the "Process and plant for the treatment of run-down batteries"

Patent (Application number 102015000031447, filed 7/07/2015) concerning the "Process for the production of a modified binder by the use of paint sludge".

Patent (Application number 102016000093129, filed 15/09/2016) concerning the "Enhanced ozonation of wastewater containing high loads of ammonia nitrogen".

Teaching activity

Bachelor and Master degree

2018- present : Teacher in charge in the Ms. D. course of Oil and mining contaminations in soil and groundwater (in English) – Politecnico di Torino
2016-present: Teacher in charge in the Ms. D. course of Applied Environmental Engineering (in English) -Politecnico di Torino
2015/16 Teacher in charge in the Ms. D. course of Complementi di Ingegneria Sanitaria Ambientale -Politecnico di Torino
2008/17: Teacher in charge in the Ms.D. course of Reclamation of Polluted Sites (in English) – Politecnico di Torino
2003/04 – 2011/12: Teacher in charge in the Bc.D. course of Tecnologie Ambientali dei Siti Produttivi – Politecnico di Torino
2004/05 – 2010/11: Teacher in charge in the Ms.D. course of Ingegneria Sanitaria Ambientale – Politecnico di Torino
2004/05 – 2007/08: Teacher in charge in the Ms.D. course of Tecniche di Bonifica dei Siti Contaminati - Politecnico di Torino
2004/05 – 2010/11: Teacher in charge in the Ms.D. course of Ingegneria Sanitaria Ambientale – Politecnico di Torino
2002/03 – 2003/04: Teacher in charge in the Bc.D. course of Dinamica degli Inquinanti – Politecnico di Torino
2001/02 – 2002/03: Teacher in charge in the Bc.D. course of Fondamenti di Ingegneria Sanitaria Ambientale – Politecnico di Torino

Post Graduate Master

2019/20: Teacher in charge assignment in the course “Sicurezza e contenimento dell'impatto ambientale nei prodotti e processi (bio) chimici (Master “Gestione E Progettazione Di Processi E Impianti Chimici Sostenibili - Torino” organized as part of the project Reciplast)
2019/20: Teacher in charge assignment in the course “Energy-Efficient Buildings and communities” organized as part of the post Ms.D course Climate Change: Adaptation And Mitigation Solutions – Politecnico di Torino.
2017/18: Teacher in charge assignment in the course “Environmental impact of products and manufacturing processes” (Master “New technologies and processes for hybrid materials finalized to automotive mechanical and electrical applications” organized as part of the project GreenFactory4Compo).
2017/18: Teacher in charge in the course of permanent learning INPS VALORE PA 2017 “Evaluation of the environmental compatibility” in italian (Ambiente e tutela del Territorio – Valutazione della Compatibilità Ambientale).
2016/17: Teacher in charge in the course of permanent learning INPS VALORE PA 2016 “Environmental investigation and biological risk for workers in italian (Ambiente e tutela del Territorio – L'indagine ambientale e il rischio biologico nell'ambiente di lavoro).
2011/12: Teacher in charge in the post Ms.D. course of Ottimizzazione degli Impianti di Depurazione – Politecnico di Torino
2002/03 – 2012/13: Teacher in the European post Ms.D. course in Environmental Engineering (COREP – Politecnico di Torino, in Italian)
2003/04 - 2008/09: Teacher in the post Ms.D. course in Management and Governance of the Integrated Water Service Cycle (Hydroaid, in English)
2008/09: Teacher in the post Ms.D. course in Supply System for Drinking Water, Irrigation and Sanitation (Hydroaid, in English), Brasilia
2003/04: Teacher in the post Ms.D. course in Science and Technology for the Sustainable Development in Contaminated Sites (Università di Parma, in Italian)
2006: Teacher and Organizer of the Risk Analysis Course for Arpa Piemonte.

Foreign relationship

2008/09: Teacher in the post Ms.D. course in Supply System for Drinking Water, Irrigation and Sanitation (Hydroaid, in English), Brasilia

March 2014: Politecnico di Torino Institutional Visit to Feida, China for possible cooperation with Italian firms about remediation of polluted sites

July 2014: Final seminar in Addis Abeba od EU WATSAM project. The Cooperation has brought to the signature in november 2014 of MOU between Politecnico di Torino and the Arba Minch University

February 2015: Politecnico di Torino Institutional Visit to South Africa (Cape Town, Durban) for possible cooperation with Italian firms about waste and wastewater.

Novembre 2015: Institutional Visit as Cooperation Expert named by Italian Foreigner Ministry for "International School on Integrated Water Management" in Cairo, Egypt. The Cooperation has brought to the signature in 2016 of MoU between the National Water Research Center of Egypt (NWRC) e Hydroaid.

April 2019, August 2019: Institutional Visit to Chile for the EU Remind Project in order to work about the environmental sustainability of mining activities.

Start up

Co-founder of Everbloom S.r.l. start up in biological processes

Forensic Engineering:

Astigiana Riciclati

Tamoil

GAB Bitumi

Città della Salute, Milano, Aree Falck RG 41904/2016 (2019)

Blast furnace slag, ILVA 8836/2015 R.G.N.R. – 3135/17 R. Gip

Malagrotta, Landfill 2539/12, 7675/11,8817/11, 9062/11 (2014)

Saluzzo, Car fluff deposit 08/2220 (2009)

Asti, Way Assauto, 2038/2003, 2588/2003 (2008)

Terra del Paradiso, Compost 1751/08 (2008)

Acqui Terme, Digestor (2005)

Piani di Tiedoli, Landfill 1079/04, 5032/03 (2005)

Tender

Invitalia

SMAT

COVAR 14

Torino, 20th of april 2022

A handwritten signature in blue ink, appearing to read "Maurizio Zoccolato". The signature is written in a cursive style and is contained within a white rectangular box.

