

PERSONAL INFORMATION



Elena Cristina Rada



ORCID

WORK EXPERIENCE

February 2025- present

Associate Professor

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

January 2023 –2034

Scientific Sector Environmental and Sanitary Engineering **SSD CEAR-02/A**

national qualification to function as Full Professor

Scientific Sector Environmental and Sanitary Engineering

February 2022 - January 2025

Senior Researcher (RTDb)

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Scientific Sector Environmental and Sanitary Engineering, **ICAR/03**

Dec. 2013 – Nov. 2029

National qualification to function as Associate Professor (confirmed since 2018)

June- September 2021

Research grant

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Waste Management with energy recovery and decentralized gasification

Business or sector Environmental Engineering

July - December 2020

Research grant

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Covid-19 and effects on management of Municipal Solid Waste

Business or sector Environmental Engineering

September 2018-present

Contract professor

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Processi Biotechnologici per L'ambiente

Business or sector Biotechnology

Research and modeling of environmental issues, safety and reliability in terms of air pollution and waste management with energy recovery. In particular:

- Waste selective collection
- Municipal solid waste and biomass biodrying
- Biostabilization of waste organic fraction
- Anaerobic Digestion
- Energy recovery from waste
- Environmental Impact Assessment
- Alternative technologies for sludge treatment
- Air pollution and reduction of human exposure to pollutants

Senior research grant

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Atmospheric emissions of heavy metals from waste incineration and co-incineration: critical analysis and a proposal for an enhanced regulation

Business or sector Environmental Engineering

December 2014-February 2018

Senior research collaborator (post-PhD at DICAM & at DBSV & at DiSTA)

University of Trento, Department of Civil Environmental and Mechanical Engineering- DICAM, via Mesiano 77, 38123, Trento, Italy, <http://www.unitn.it>

Insubria University, Department of Biotechnologies and Life Sciences – DBSV, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Research and modeling of environmental issues, safety and reliability in terms of critical exposure to organic pollutants. In particular:

- odour pollution
- human health

Business or sector Environment–Health–Safety–Territory

2012-September 2014

Senior research assistant post-PhD

University of Trento, via Mesiano 77, 38123, Trento, Italy, <http://www.unitn.it>

Research and modeling of environmental issues, safety and reliability in terms of air pollution and waste management with energy recovery. In particular:

- Waste selective collection
- Municipal solid waste and biomass biodrying
- Biostabilization of waste organic fraction
- Anaerobic Digestion
- Energy recovery from waste
- Environmental Impact Assessment
- Alternative technologies for sludge treatment
- Air pollution and reduction of human exposure to pollutants

Business or sector Environmental and Energy Engineering

2010-2012

Research assistant post-PhD

University of Trento, via Mesiano 77, 38123, Trento, Italia, <http://www.unitn.it>

Research and modeling of environmental issues, safety and reliability in terms of toxic pollutants emitted into the air: critical issues and population exposure.

Business or sector Environmental Engineering

2006-2010

Research assistant post-PhD

University of Trento, via Mesiano 77, 38123, Trento, Italia, <http://www.unitn.it>

Optimization of biodrying process applied to residual municipal solid waste

Business or sector Environmental Engineering

EDUCATION AND TRAINING

2015-2018

Doctor degree in Engineering and Management (Romania) "Excellence"

Lucian Blaga University, Sibiu, Romania

- PhD title: ***"The management of Municipal Solid Waste in EU under a circular economy perspective"***

2002-2005

Doctor degree in Power Engineering Sciences (Romania) and Doctor degree in Environmental Engineering (Italy) PhD co-tutelè

"Magna cum Laude"

Polytechnic University of Bucharest, Romania and University of Trento, Italy

▪ PhD title: **"MSW bio-drying before energy valorization"**

2002-2003 Master degree

Polytechnic University of Bucharest, Romania

Specialization : The impact of energy production and use on the environment and society

1997-2002 Engineer Degree in Environmental Engineering

Polytechnic University of Bucharest, Romania

Specialization: Environmental Engineering in Energy Production and Use sector

1993-1997 High school degree

I.C. Brătianu High school, Pitești, Romania.

PERSONAL SKILLS

Mother tongue

Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Writing	Spoken interaction	Spoken production	
Italian	Very good	Very good	Very good	Very good	Very good
C2					
English	Very good	Very good	Very good	Very good	Very good
B2					
German	Good	Good	Satisfactory	Satisfactory	Good
A2					
Spanish	Good	Good	-	-	-

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Excellent communication skills gained through experience: presentations at seminars, conferences and international workshops > 200 held in English.
- Excellent communication skills gained through experience as chairman at international conferences and workshops (> 50).

Organizational / managerial skills

- Excellent organizational skills gained through experience by the organization of the following seminars, conferences and workshops:
 - "La valorizzazione energetica dei fanghi di depurazione", Rovereto (TN), November 2006.
 - "Il Monossido di Carbonio: da inquinante atmosferico ad agente terapeutico", San Michele all'Adige, 10 June 2011
 - VENICE 2010, "Third International Symposium on Energy from Biomass and Waste", Venice - Italy, 8-11 November 2010.
 - VENICE 2012, "Fourth International Symposium on Energy from Biomass and Waste", Venice - Italy, 12-15 novembre 2012.
 - Winter School: "Biochemical and thermochemical pathways for energy generation from waste and biomass", Venezia, Italy, November 2012 (GITISA- IWWG)
 - VENICE 2014, "5th International Symposium on Energy from Biomass and Waste", Venice - Italy, 12-15 novembre 2014.
 - VENICE 2016, "6st International Symposium on Energy from Biomass and Waste", Venice - Italy, 14-17 novembre 2016.
 - VENICE 2018 - 7th International Symposium on Energy from Biomass and Waste, 15-18 October 2018, Venice, Italy
 - BIP-ESkid+ 2025 - Blended Intensive Programme on Environmental Sustainability (kid+), 21-25 July 2025, Trento, Italy

- Fund-raising skills gained at the University of Trento and Insubria University, **2005 to present**
- **Scientific secretariat: Venice 2016** - 6th International Symposium on Energy from Biomass and Waste, 14-17 November 2016, Venice, Italy
- **Scientific secretariat: Venice 2018** - 7th International Symposium on Energy from Biomass and Waste, 15-18 October 2018, Venice, Italy
- **Scientific secretariat: Venice 2020** - 8th International Symposium on Energy from Biomass and Waste, 16-19 November 2020, Venice, Italy
- **Scientific Committee (co-chair): TMREES 2021** - 16th Internat. Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, 28-30 May 2021, Athens, Greece
- **Co-chair & Co-Organizer: Waste Management and Environmental Impact 2022** - 11th International Conference on Waste Management and Environmental and Economic Impact on Sustainable Development, 7-9 June 2022, Madrid, Spain (Wessex)
- **Co-Organizer ICETAS 2022** - 6th International Conference on Engineering Technology and Applied Sciences Congress, 26-30 October 2022, Tirana, Albania.
- **Organizer CSRW 2024** - 1st International Conference on Circularity, Sustainability and Resilience in Water, Wastewater and Sludge Management, 11-13 February 2024, Varese, Italy.
- **Chairs for Scientific Committee - TMREES25** Int'l Conf Technologies and Materials for Renewable Energy, Environment and Sustainability, 10-13 February 2025, Casablanca, Morocco
- **Co-Organizer 2025** - Insubria University Event - "LONG LIVE FABRICS" as part of the National Event "M'illumino di meno" (3rd mission activity)
- **International Relations coordinator and member of ISAC - International Scientific Advisory Committee for BIP-ESkid+ 2025** - Blended Intensive Programme on Environmental Sustainability (kid+) <https://bip-eskid.dicam.unitn.it>

Scientific title

- National scientific qualification (Italy) to function as associate professor, **2013-present**
<http://abilitazione.miur.it/public/candidati.php?lang=engde>
- World's Top 2% Scientist (Stanford): **2020 - present**
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>
- National scientific qualification (Italy) to function as full professor, **2023-present**
<http://abilitazione.miur.it/public/candidati.php?lang=engde>

Teaching experience

Since 2006: teaching activity in under-degree, post-degree and PhD courses in Environmental Engineering at the University of Trento, the University of Padova, the University of Varese, the Politehnica University of Bucharest

Research and scientific activity

Scientific papers (> 430) <https://uninsubria.unifind.cineca.it/get/person/034015>
164 articles listed Web of Science; 264 articles listed SCOPUS published in journals of international circulation. ----- H-index: 40
 Editor of specialized 4 books Apple Academic Press & CRC Press, 2016
 Co-Editor of 2 specialized books WIT Press
 Thesis tutor: >75 (> 65 IT & > 10 RO)
Coopted Member of the Scientific Committee of the Doctoral School on Power Engineering, Politehnica University of Bucharest, 2012 – 2021
Member of the Doctoral School Chemical and Environmental Sciences, Insubria University, 2022- present
 Member of the Working Group on Waste and Resources - RUS - Network of Universities for Sustainable Development, for Insubria University, 2023- present
 Member of the FAR – Fondo Ateneo Ricerca, MACRO-AREA FAR 2, Insubria University, 24- 26
 Member of the Doctoral Quality Assurance AiQA –PhD, Insubria University, July 2024-present
 Member of the Syllabus – IASAL & ISLA, Insubria University, 2023 – present
 Member of the International research group ERGYS - Environmental Research Group of Young Scientists- in cooperation between Italy, Latvia and Greece
 (<https://sites.google.com/view/ergysgroup/home>) – **2023 – present**
 Member of group "Regolamento sui veicoli a fine vita", 28 gennaio 2024- present
2024: Best Scientists in the field of Environmental Sciences
#147 in Italy : the full ranking for Italy: research.com/scientists-rankings/environmental-sciences/it; #7020 in the world: The full world ranking: research.com/scientists-rankings/environmental-sciences
 Research projects and grants evaluator UEFISCDI: PN II PT PCCA 2013; PN II RU TE 2014; PN II ID JRP RO FR 2015; PN III P4 ID PCE 2016 ; PN III P2 2.1 PTE 2021; PN III P2 2.1 PED 2021

Research projects and grants evaluator

- Estonian Research Council (ETAg) projects and grants evaluator
 - Mobilitas Pluss 2016 - Mobilitas Pluss 2017
- Evaluator for KU Leuven 2021 & 2022
 - C24E/21/019 - C24E/22/020
- Research projects evaluator for AOSR – Romanian Academy of Scientists 2022
 - Competition of research (12) projects “AOSR-TEAMS” 2022-2023: Domain : Circular Econ.
- Research projects evaluator for ETH Zurich 2022
 - Grants ASEAN 2022 : Developing and testing a methodology for quantifying and assessing plastic waste in Indonesian cities
- Research projects evaluator for QNRF- The Qatar National Research Fund 2022
 - UREP29-020-2-008 : Hotspots of Contaminants of Emerging Concern in the Sewage System of Qatar: The Way Forward
- Research projects evaluator for QNRF- The Qatar National Research Fund 2023
 - ARG01-0601-230448 - Development of efficient spinel AB₂O₄ and Perovskites ABO₃ catalysts for biomass gasification
 - ARG01-0503-230416 Recycled Green and Cheap Biochar-based Catalysts for Carbon Dioxide (CO₂) Methanation
- Research projects evaluator Czech Fulbright Commission 2023-2024
 - Project title: Can landfills be evidence of a new epoch - the “Anthropocene
- Research projects evaluator for QNRF- The Qatar National Research Fund 2024
 - CCEC01-1030-230105 - Analysis of the implementation of a decentralized waste-to-compost facility to mitigate climate change impacts in Qatar
 - CCEC01-1011-230050 - Toward sustainable Qatari Environment: High Value- Added Products from Recycling and Upcycling of MSWI Ashes
 - CCEC01-1025-230093 - Converting Qatari sewage sludge into clean fertilizers and bio-adhesives
 - UREP31-150-2-050 - Comparative techno-economic evaluation of jet-range fuel production scenarios through a two-step process: ABE fermentation and catalytic conversion
 - ARG02-0502-240447 - Qatar's Waste to Energy Innovation: Conversion of High Ash Sludge into Syngas and Power Generation

UREP31-150-2-050 - Comparative techno-economic evaluation of jet-range fuel production scenarios through a two-step process: ABE fermentation and catalytic conversion

Membership of scientific societies: GBC - Green Building Council Italia, LEED section QI, 2008-2010; .IWWG - International Waste Working Group 2010 – present; GITISA - Gruppo Italiano di Ingegneria Sanitaria Ambientale (Urban Mining) 2012-present; AGIR - General Association of Romanian Engineers, 2014—present; ANDIS – Associazione Nazionale di Ingegneria Sanitaria, 2022 —present

Member in scientific journal editorial boards:

- International Journal of Waste Resources (IJWR – Walsh Medical Media) – **Editor in Chief 17 December 2014- present**
- Sustainability (MDPI) **Section Associate Editor** –Environmental Sustainability and Applications **19 November 2014 – present**
- *International Journal of Environmental Research and Public Health (MDPI)* - **Section Associate Editor** – Environmental Science and Engineering – **21 July 2018 - present**
- *Frontiers in Sustainability – Waste Management* - **Associate Editor, 18 January 2022 - present**
- *Frontiers in Environmental Science – Environmental Systems Engineering* - **Associate Editor, 8 February 2022 – present**

Member in scientific journal editorial boards:

- *Advances in Energy (AIE)* **3 August 2013 – present**
- *International Journal of Energy Production and Management (Wessex)* **4 Feb 2014- present**
- *International Journal of Safety and Security Engineering (IIETA-Wessex)* **15 March 2014 - present**
- *International Journal of Environment Impact (Wessex)* **16 June 2016 -- present**
- *News of the Ural State Mining University Journal (IUGGU)* **13 December 2018 - present**
- *Espaco Energia - Brazilian Open Journal of Energy* – **4 October 2018 - present**
- *Resources (MDPI)* **4 January 2018 - present**
- *J (MDPI)* **2 March 2018 - present**
- *Recycling (MDPI)* **8 April 2019 - present**
- *International Journal of Management and Sustainability (Conscientia Beam)* **3 September 2019 - present**

- Romanian Journal of Ecology & Environmental Chemistry (Ecoind) **2020 - present**
- Highlights of Sustainability (hos) **16 May 2021- present**
- Standards (MDPI) - **16 June 2021 – present**
- Circular Economy (Elsevier) - **2 August 2022 – present**
- SN Applied Sciences - **4 July 2023 – present**

Member in technical commissions

- **2016:** Member of a technical commission nominated by the **Autonomous Province of Trento** for the selection of three **Directors** to assign the positions of preposition to 3 structures of the homogeneous technical group, namely:
 - to the waste plant office.
 - to the waste cycle office and remediation of contaminated sites;
 - to the Technical Office (with safety expertise).

Member in scientific commissions

- **2016:** Foreign member of the international commission appointed for the selection of the **Director** of the National Institute of Research and Development for Workplace Protection **INCDDPM - Alexandru Darabont** - (Bucharest, Romania)
- **2023:** member of a PhD committee for final examination in the Ph.D. Program in Civil, Environmental, International Cooperation, and Mathematical Engineering
Curriculum: Appropriate methodologies and techniques in international development cooperation (Technology track) - University of Brescia (17.5.23. Two defenders)
- **2024:** member of a PhD committee for final examination in the Ph.D. Program in Chemical and Environmental Sciences
Curriculum: Improving approach to the sustainable management and environmental and economic assessment at the energy sector - University of Insubria (20.9.24. T1 defender)
- **2025:** member of a PhD committee for final examination in the Ph.D. Program in Civil, Environmental, International Cooperation, and Mathematical Engineering
Curriculum: Strumenti e Metodologie per la Valutazione della Compatibilità Ambientale di materiali prodotti da Rifiuti Industriali per Utilizzi nel Settore delle Costruzioni & Impacts of extreme weather on the variability of critical parameters in drinking water supply systems: insights from operational experience- University of Brescia (29.4.25 Two defenders)

Member of “Sustainability Travel Award “

- **2019:** Member of the evaluation committee of the Sustainability Journal
- **2021:** Member of the evaluation committee of the Sustainability Journal

Member of “2019 Best Paper Award “

- **2020:** Member of the evaluation committee of the Resources Journal

Member (ministerial appointment) in commissions for the accreditation of:

- **2022: INCDDPM-** Institutul National de Cercetare-Dezvoltare pentru Protectia Mediului, București, Romania
- **2022: ICPMRR** - Institutului Național de Cercetare-Dezvoltare pentru Metale și Resurse Radioactive – București, Romania

Member of “Sustainability ESLA Award “

- **2023:** Member of the evaluation committee of the Emerging Sustainability Leader Award

WEBINARS:

- **ReviewCredits & INI Reserchers: 25 November 2020:** How peer-reviewing can advance your career: funding and communication know-how – invited speaker
- **SIDISA21: 27 April 2021:** Waste Thermal Treatment and Circular Economy – co-authoring
- **Wessex: 23 February 2022:** Energy and sustainability in the built environment

Member in scientific committees at international conferences

- **WSEAS 2010** - Bucharest, Romania, 20-22 April 2010
EUROPEAN COMPUTING CONFERENCE (ECC '10)
ENERGY AND ENVIRONMENT TECHNOLOGIES AND EQUIPMENT (EEETE '10)
RISK MANAGEMENT, ASSESSMENT AND MITIGATION (RIMA'10)
- **CIEM 2011-** 5th International Conference on Energy and Environment, 3 - 4 November 2011, Bucharest, Romania
- **SUM 2012** - International Symposium on Urban Mining, 21 - 23 May 2012, Bergamo, Italy
- **Waste Management 2012** - 6th International Conference on Waste Management and the Environment, 4 - 6 July 2012, New Forest, UK (Wessex)
- **INCER 2012** - Innovation and Collaboration in Engineering Research, 2 - 4 July 2012, Bucharest, Romania
- **MSE 2013** - 6th International Conference on Manufacturing Science and Education, 12 - 15 June 2013, Sibiu, Romania
- **ESUS 2013** - 4th International Conference on Energy and Sustainability, 19 - 21 June 2013, Bucharest, Romania (Wessex)
- **CIEM 2013-** 6th International Conference on Energy and Environment: Green and Smart Energy, 7 - 8 November 2013, Bucharest, Romania

- **TMREES14** - Technologies and Materials for Renewable Energy, Environment and Sustainability, 10 - 13 April 2014, Beirut, Lebanon
- **Waste Management 2014** - 7th International Conference on Waste Management and the Environment, 12 - 14 May 2014, Ancona, Italy (Wessex)
- **SUM 2014** - 2nd Symposium on Urban Mining , 19 - 21 May 2014, Bergamo, Italy (IWWG)
- **SIBESA XII 2014** - Simposio Italo-Basiliro de Engenharia Sanitaria e Ambiental, 2 - 4 June 2014, Nadal, Brasil
- **ELSEDDIMA 2014** - International Conference Environmental Legislation, Safety Engineering and Disaster Management – 18 - 19 September 2014, Cluj-Napoca, Romania
- **Sustainable City 2014**, 9th International Conference on Urban Regeneration and Sustainability: 23 - 25 September 2014, Siena, Italy (Wessex)
- **ISB INMA TEH 2014** - International Symposium Agricultural and Mechanical Engineering: 30 - 31 October 2014, Bucharest, Romania
- **Venice 2014** - 5th International Symposium on Energy from Biomass and Waste, 17 - 20 November 2014, Venice, Italy (IWWG)
- **Energy and Sustainability 2014** – 5th International Conference on Energy and Sustainability, 16 – 18 December, 2014, Putrajaya, Malaysia (Wessex)
- **SAFE15** - 6th International Conference on Safety and Security Engineering, 6 - 8 may 2015, Opatija, Croatia (Wessex)
- **TMREES15** - Technologies and Materials for Renewable Energy, Environment and Sustainability, 17 - 20 April 2015, Beirut, Lebanon
- **MSE15**- 7th International Conference on Manufacturing Science and Education -MSE15: 3 - 5 June 2015, Sibiu, Romania
- **ICIMIE15**- International Conference of Management and Industrial Engineering: Management in the Innovation Society - 22-23 October 2015, Bucharest, Romania
- **PVSolec15**- PV Solar Energy Conferences: 4 - 7 September 2015, Beirut, Lebanon
- **CIEM 2015**- 7th International Conference on Energy and Environment: Clean and Safe Power: 22 - 23 October 2015, Iasi, Romania
- **TMREES18**- International Conference, Technologies and Materials for Renewable Energy, Environment and Sustainability: 1-3 February 2018, Beirut, Lebanon
- **SUM2018** - 4th Symposium on Urban Mining and Circular Economy: 21-23 May 2018, Bergamo, Italy (IWWG)
- **ICETAS 2018** - 3rd International Conference on Engineering Technology and Applied Science :17-21 July 2018, Skopje Macedonia
- **Energy Quest 2018** - 3rd International Conference on Energy Production and Management: The Quest for Sustainable Energy :10-12 September 2018, New Forest UK (Wessex)
- **Waste Management 2018** - 9th International Conference on Waste Management and the Environment :17-19 September 2018, Seville, Spain (Wessex)
- **TMREES18**- Greece International Conference, Technologies and Materials for Renewable Energy, Environment and Sustainability:18 -20 September 2018, Athens, Greece
- **Venice 2018** - 7th International Symposium on Energy from Biomass and Waste :15-18 October 2018, Venice, Italy (IWWG)
- **SIMPRO18** - 8th International Multidisciplinary Symposium on "UNIVERSITARIA SIMRO2018", 11- 13 October 2018, Petrosani, Romania
- **ISB-INMA TEH 2018** - 8th International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agricultural Engineering 2018, 1-3 November 2018, Bucharest, Romania
- **Sustainable City 2019** - 13th International Conference on Urban Regeneration and Sustainability: 1- 3 October 2019, Valencia, Spain (Wessex)
- **SESAM19** – 9th International Symposium on Occupational Health and Safety: 3 October 2019, Petrosani, Romania
- **CIEM 2019**- 9th International Conference on Energy and Environment: Energy for a Green Digital World, 17 - 18 October 2019, Timisoara, Romania
- **SIM 2019** – 15th International Symposium in Management Innovation for Sustainable Management and Entrepreneurship, 25-26 October 2019, Timisoara, Romania
- **ICIMIE 2019** -The 9th International Conference of Management and Industrial Engineering "Management Perspectives in the Digital Transformation", 14 – 16 November 2019, Bucharest, Romania
- **ISB-INMA TEH 2019** – 9th International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agricultural Engineering, 31 October-1 November 2019, Bucharest, Romania
- **Energy Production and Management 2020** - 4th International Conference on Energy Production and Management: The Quest for Sustainable Energy, 16 - 18 June 2020, (Wessex) (**on-line**)
- **Waste Management 2020**, 10th International Conference on Waste Management and the Environment, 7-9 July 2020, (Wessex) (**on-line**)
- **WSF 2020 - The 8th World Sustainability Forum**- 5–17/9 2020, Geneva, Switzerland (MDPI) (**virt.**)

- **Sustainable City 2020** – 8th International Conference on Urban Regeneration and Sustainability :22-24 September 2020, Roma, Italy (Wessex) **(on-line)**
- **SUM 2020** – 5th Symposium on Urban Mining and Circular Economy, 18-20 November 2020, (IWWG) **(virtual)**
- **Air Pollution 2021** - 29th International Conference on Modelling, Monitoring and Management of Air Pollution, 7–9 September 2021, Santiago de Compostela, Spain (Wessex)
- **Sustainable City 2021**, 15th International Conference on Urban Regeneration and Sustainability, 5-7 October 2021, Bilbao, Spain (Wessex)
- **Energy and Sustainability 2021**, 9th International conference on Energy and Sustainability, 6-8 October 2021, Bilbao, Spain (Wessex)
- **SIMPRO21** - 9th International Multidisciplinary Symposium on "UNIVERSITARIA SIMRO2019", 27-28 May 2021, Petrosani, Romania **(on-line)**
- **MSE 2021** - 10th International Conference on Manufacturing Science and Education, 2 - 4 June 2021, Sibiu, Romania **(on-line)**
- **CIEM 2021**- 10th International Conference on Energy and Environment: Power up our Future, 14 - 15 October 2021, Bucharest, Romania **(on-line)**
- **SIM 2021** - 6th International Symposium in Management: Management, Innovation and Entrepreneurship in Challenging Global Times, 22-23 October 2021, Timisoara, Romania, **(on-line)**
- **ICIMIE 2021** -The 10th International Conference of Management and Industrial Engineering "Business Change and Digital Transformation in a World Moving Through Crisis", 11 – 13 November, 2021, Bucharest, Romania
- **SESAM21** – 9th International Symposium on Occupational Health and Safety: 18 October 2021, Petrosani, Romania
- **TMREES 2022** - International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, 9-11 May 2022, Metz-Grand Est, France
- **Energy Production and Management 2022**- 5th International Conference on Energy Production and Management, 23-25 May 2022 **(on-line)**, (Wessex)
- **Sustainable City and Planning 2022** - 11th International Conference on Sustainable Development and Planning 8-10 June 2022 **(on-line)** (Wessex)
- **Air and Water Pollution 2022** - 30th International Conference on Modelling, Monitoring and management of Air and Water Pollution 5-7 July 2022 **(on-line)** (Wessex)
- **ISB-INMA TEH 2022** – 9th International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agricultural Engineering, 6-8 October 2022, Bucharest, Romania
- **Sustainable City 2022** - 16th International Conference on Urban Regeneration and Sustainability, 10–12 October 2022, Rome, Italy **(on-line)** (Wessex)
- **RISK/SAFE 2022** - 13th Conference on Risk Analysis, Hazard Mitigation and Safety and Security Engineering, 12–14 October 2022, Rome, Italy **(on-line)** (Wessex)
- **SIMPRO22** - 10th International Multidisciplinary Symposium on "UNIVERSITARIA SIMRO2022" - Quality and Innovation in Education, Research, and Industry - The Success Triangle for a Sustainable Economic, Social and Environmental Development, 27-28 October 2022, Petrosani, Romania **(on-line)**
- **ICETAS 2022** - 6th International Conference on Engineering Technology and Applied Sciences Congress, 26-30 October 2022, Tirana, Albania.
- **TMREES 2023** – International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability - **Futuro Verde**, 8-10 March 2023, Metz Grand-East, France
- **TE-RE-RD 2023** – 11th International Conference on Thermal Equipment, Renewable Energy and Rural Development 08 – 10 June 2023, Romania
- **ISCMEE23** - International Conference on Sustainable, Circular Management and Environmental Engineering, 12 July, Izmir, Turkey
- **Energy and Sustainability 23** – 10th International Conference on energy and Sustainability, 2-4 October 2023, Lisbon, Portugal (Wessex)
- **ISB-INMA TEH 2023** – 9th International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agricultural Engineering, 5-6 October 2023, Bucharest, Romania
- **SESAM23** -11th International Conference on Occupational Health and Safety, 19 October 2023, Bucharest, Romania
- **SIM 2023** – 17th International Symposium in Management Reinventing Management in Turbulent Times, 20-21 October 2023, Timisoara, Romania
- **CIEM23** - 11th International Conference on Energy and Environment – Energy Security and Resilience, 26-27 October 2023, Bucharest, Romania
- **RETASTE23** – Rethink Food Resources, Losses and Waste Third International Conference, 27-29 September 2023, Athens, Greece
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Research and scientific activity

Member in scientific committees at international conferences

- **5th Symposium on Circular Economy and Sustainability**, 17-19 June, 2024, Chania, Greece
- **TMREES24Fr** International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, 8-10 July 2024, Metz, France
- **ATOMS2024** - The 2024 IEEE Conference on Advanced Topics on Measurement and Simulation (ATOMS), 28-30 August 2024, Constanta, Romania
- **Sustainable Development and Planning 2024** - 13th International Conference Sustainable Development and Planning, 23-25 September 2024, Seville, Spain, (Wessex)
- **SIMPRO24** - 11 International Multidisciplinary Symposium on "UNIVERSITARIA SIMRO 2024" - Quality and Innovation in Education, Research, and Industry - The Success Triangle for a Sustainable Economic, Social and Environmental Development, 24-26 October 2024, Petrosani, Ro
- **Tmrees25**- International Conference on Technologies and Materials for Renewable Energy, Environment & Sustainability, 11-13 february 2025, Casabalanca, Morocco
- **6th Symposium on Circular Economy and Sustainability**, 16-18/6 2025, Alexandroupolis, Greece
- **ESUS 2025** -12th Internat.Conf. on Energy and Sustainability, 15-17/9/25, Ancona, Italy (Wessex)
- **SESAM25** -11th Internat. Conf. on Occupational Health and Safety, 23 October 2025, Brasov, Ro
- **CIEM2025**- 12th International Conference on Energy and Environment – Towards Future Energy, 23-24 October 2025, Bucharest, Romania
- **SIM2025**- 18th International Symposium in Management: Optimizing the Future: Management Innovation for a Sustainable World, 24-25 October 2025, Timisoara, Romania
- **Tmrees25Ma**- International Conference on Technologies and Materials for Renewable Energy, Environment & Sustainability, 23-25 October 2025, Morocco
- **Coordinator** of different activities as foreign partner in **TRIPOD** project – Restructure of productive practice of students in higher technical education: 2010 -2013.
- **Co-responsible** of WP1 in **ProPla – Protein form Plastic** project : 2023 -2026.
- **Project Manager** as foreign partner in **EDU4PlastiCircular Erasmus+** : 2023 -2026

Reviewer for >50 international scientific journals.

Reviewer for Elsevier Book Proposal:

- September 2019: **Principles of the Circular Economy**, to be edited by Wiesmeth
- September 2021: **Landfill Management**, to be edited by Dr. Tonni Agustiono Kumiawan
- April 2022: **Improving and Tailoring Enzymes for Food Quality and Functionality**, to be edited by prof. Rickey Yada and Derek R.D.
- June 2022: **Occurrence, Monitoring, and Behavior of Emerging Contaminants in Solid Waste Management** to be edited by Prof. Kui Huang, Dr. Hui Xia, and Dr. Sartaj Ahmad Bhat
- July 2023: **Transformation of Waste to Energy: Recent Trends and Prospects**, to be edited by Dr. Balasubramani Ravindran, Dr. Sartaj Ahmad Bhat, and Prof. Gareth Griffiths

Reviewer for CRS Press Taylor & Francis Group Book Proposal:

- October 2023: **Circular Strategies for Waste Management**, to be edited by Kapil Gupta and Jayakrishna Kandasamy

MDPI TOPIC Editor-in-Chief: Solid Waste Management

- *Journals: Sustainability, Energies, Resources, Recycling, Environments* (until 31/12/22)

Editor – Special Issue (ISI)

- **Waste Management** – editor of Special Issue "**Refuse Derived Fuel/Solid Recovered Fuel**", vol. 47, Part B, pages 155-310 (Jan 2016)
- **Sustainability (MDPI):**
 - "**Covid-19 and Its Impact on Environmental, Economic and Social Sustainability**" in progress (July 2020 – 31 March 2023)
 - "**Exclusive Papers of the Editorial Board Members of section Environmental Sustainability and Applications**" (January 2021 – 31 Dec 2022)
 - "**Exclusive Papers of Outstanding Scientists in section Environmental Sustainability and Applications**" (January 2021 – 31Dec 2022)
- **Opportunities and Challenges in Managing Circular Economy and Sustainable Development Goals for a Better and Cleaner Future** (March 2025 –March 2026)

International Journal of Environmental Research and Public Health (MDPI):

- "**Future and Feature Paper in Environment and Applied Ecology**", (5/2020 –12/2022)
- "**Review in Environment and Applied Ecology**" (May 2020 – 31 Dec 2021)
- "**Advances in the Field of Human Health and Environment**" (Nov 2018 - 20 June 2020)
- **Environment and Applied Ecology Economy** in progress (September 2020-March 2023)
- **Resources (MDPI):**
- "**Renewables Application: Challenges and Perspectives**", (Jan 2020 – 31 July 2021)

Editorial Board Members' Collection Series - Energy Resources: Past, Present and Future Role in a Circular Economy" (Feb 2023 – 31 July 2024)

Applied Science (MDPI):

- "New Insights into Microplastics in the Environment", Nov. 2024 – Feb 2026

Editor – Collection (ISI)

- **Sustainability (MDPI):**
- "*Risk Assessment and Management*" in progress (since December 2016)
- "*Trends in Municipal Solid Waste Management*" in progress (since June 2017)
- "*Feature Papers in Sustainable Use of Environment and Resources*" in progress > 3/19
- "*Circular Economy and Sustainable Strategies*" in progress (since March 2019)

Resources Journal (MDPI)

- "*Management, Environment, Energy and Sustainability under a Circular Economy*" in progress (since February 2018)

Circular Economy Journal

- *Sustainable Goals for a greener world* in progress (since December 2022)
- **SN - Applied Science**

Digital Transformation and Sustainable Growth in progress (since 4 July 2023 – January 2024)

International Awards

- **Best Poster Award:** 4th edition of the Sardinia Symposia", October 2013, Italia
- "**Award for excellence for outstanding achievements and contribution to the prestige of the profession**", received from the Lucian Blaga Cultural Center of Sebes, Romania, June 2014
- **Award of excellence for outstanding performance** in the International Scientific Committee of the TMREES15 - International Conference Technologies and Materials for Renewable Energy, Environment and Sustainability, 17-20 April 2015, Beirut, Lebanon.
- **Eminent Scientist Medal of the Wessex Institute of Technology**", September 2016
- „**Honorary Award** for the outstanding scientific contribution to SIMPRO2016", October 2016, Petrosani University, Romania
- Ranked in the **World's top 2% scientists** list by Stanford University (2020 study)
- **Certificate of excellence for Session Chair**" – received from **European Academy for Sustainable Development** at TMREES22-Fr - International Conference Technologies and Materials for Renewable Energy, Environment and Sustainability, 9-11 May 2022, Metz, France,
- **Best Paper Award**, received from **European Academy for Sustainable Development** at TMREES23- International Conference Technologies and Materials for Renewable Energy, Environment and Sustainability, EURACA – Futuro Verde – Edicienti, 8-10 March 2023, Metz, Fr
- **Best Chair for Session Award**, received from **European Academy for Sustainable Development** at TMREES24- International Conference Technologies and Materials for Renewable Energy, Environment and Sustainability, EURACA –8-10 July 2024, France
- **Certificate of excellence for Conference Chair** received from **European Academy for Sustainable Development** at TMREES25Ma- International Conference Technologies and Materials for Renewable Energy, Environment and Sustainability, EURACA 10-12 February 2025, Morocco
- **Letter of thanks from the Ambassador of Latvia to Italy, Elita Gavele, received for the international relationships performed during BIP-ESkid+ (July 2025)**
- **Letter of thanks from the Ambassador of Romania to Italy, Gabriela Dancau, for the relationships taken in preparation of BIP-ESkid+ (July 2025)**
- **Leadership:** Coordinator of some projects on the Environmental Engineering group at the University of Trento and the Insubria University
- **Fund-raising** skills gained at the University of Trento and the Insubria University, 2005 to present
- **Coordinator** of different activities as foreign partner in TRIPOD project – Restructure of productive practice of students in higher technical education 2010 -2013
- **Coordinator** of the 6 groups of the scientific research project -Borgo Acciaieria Valsugana: 2010-13.
- **Co-Responsabile** project **ProPla:** proteins from plastics: of WP1, Task 1.1, March 2023 – Feb 2026
- **Project Manager for DiSTA, Insubria, project Edu4PlastiCircular:** Education for Plastic in a Circular and Climate Neutral Economy - Preventing Waste Ending Up into the Environment: November 2023 – October 2026.

Organisational / managerial skills

Job-related skills

Ability to work in team gained in a professional environment (contract research organization activities)
Ability to adapt to multicultural environments gained from research and innovation grants with the following universities: Polytechnic University of Milan (DIAR), University Bocconi of Milano, University of Bologna, University of Padova, University of Insubria, Polytechnic University of Bucharest – UPB, University "Lucian Blaga" of Sibiu – ULBS, University "Valahia" of Targoviste, University Pontificia of Santiago del Cile, Samarkand State University, Uzbekistan