



## Stefania Specchia

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Corso Duca degli Abruzzi 24, 10129, Torino, Italy (Work)

### ● ABOUT ME

Open-minded, smart and empathetic professor, researcher with an innate curiosity for chemical and sustainable engineering, and materials for energy and environment, practitioner of international relations.

### ● WORK EXPERIENCE

12/2019 – CURRENT Torino, Italy

#### PROFESSOR (FULL) POLITECNICO DI TORINO

##### • Teaching:

Teacher in the academic discipline ING-IND/25 (Chemical Plants) with two courses taught in English in the M.Sc. course of Chemical and Sustainable Processes Engineering:

- Multiphase Equipment Design (8 ECTS)
- Batteries and Fuel Cells for Energy Transition (6 ECTS)

##### • Mentoring:

Supervision of Italian and foreign students during their final project or Ph.D. studies, and post-doc:

- B.Sc. students in Chemical Engineering: 22 supervised
- B.Sc. students in Textile Engineering (program not anymore existing): 8 supervised
- M.Sc. students in Chemical Engineering: 69 supervised, plus 9 active
- M.Sc. students in Chemical Engineering: 3 supervised, plus 1 active
- Erasmus+ incoming students: 26 supervised
- Ph.D. students in Chemical Engineering: 18 supervised, plus 1 active
- Post-doc: 10 supervised, plus 1 active
- Visiting professors: 2 supervised

##### • Research topics:

Leader of the research group *Gre.En<sup>2</sup> Group* (Green Energy and Engineering Group) working on:

- Catalytic combustion of light hydrocarbons (premixed catalytic burners, monoliths and open cell foams for the total oxidation of natural gas, propane, hydrogen and their mixtures).
- Design and modeling of fuel processors for hydrogen production starting from hydrocarbon fuels (via catalytic partial oxidation and steam/oxidative/dry reforming and WGS, CO-PROX, CO-SMET reactions).
- Design and characterization of electrocatalysts for low-temperature fuel cells (PEMFC/AEMFC/DMFC):
- Energetic valorization of wastes

##### • Administrative issues:

Academic *Erasmus+ Responsible* in Chemical Engineering for:

- Learning Agreements of Outgoing POLITO students (double degree, courses, final projects).
- Learning Agreements of Incoming students to POLITO (double degree, courses, final projects).
- Looking for new academic agreements with foreign universities for increasing the exchange scholarships.

##### • International issues:

Member of the scientific board *POLITO Japan Hub* (the first international flagship project with an Italian antenna in Japanese territory, to coordinate, promote and strengthen the POLITO's activities in the fields of teaching, research and the third mission).

##### • External mandates:

- Associate Editor of *Chemical Engineering Journal* (Elsevier), since 10/2020.
- Expert Member of the Scientific Committee of *IFP-Energie Nouvelles* (France), since 04/2018.

• **Funded research:**

*Principal investigator* in EU/Italian projects and industrial contracts (overall funding of 1,369 k€):

- SOLCARE: Solar assisted catalytic reforming: a hybrid process to transform municipal waste into energy.
- NAMEDPEM: Advanced nanocomposite membranes and innovative electrocatalysts for long-lasting PEMFC.
- CANALETTO: Nano-structured oxide materials for oxidation process, synthesis properties and catalytic activity.
- DURAMET: Improved durability and cost-effective components for new generation solid polymer electrolyte direct methanol fuel cells.
- PIACE: Intelligent and integrated platform for micro-cogeneration at high efficiency for residential use.
- RIELLO: Development of suitable methane combustion catalysts for premixed metallic burners.
- BURNERCAT: Catalytic, environmental-friendly, fuel flexible and cost effective burner for domestic boiler.
- MICROCELL: Methanol and ethanol micro fuel cells development for portable applications

*Co-investigator* in other EU/Italian projects and industrial contracts:

- IFOAMS: Process intensification of catalytic processes for clean energy, low-emission transports and sustainable chemistry using open cell foams as new advanced structured materials.
- TESMAHYPRO: Technological system layout for medical wastes management and their energetic valorization via hydrogen production.
- DRAPO: Integrated auxiliary systems for energy recovery and consumption reduction of vehicles.
- INDESIT: Study, design and development of a new series of domestic appliances featuring new innovative technologies targeted to a significant reduction of energy consumption and environmental impact.
- FOTORECUPERI: Sterilization treatment of medical wastes and their energetic valorization.
- MICROCHP: Development of a natural gas micro-CHP unit for residential applications.
- CELCOYACHT: Development of a diesel APU for a Yacht.
- MCWAP: Molten-carbonate fuel cells for waterborne application.
- FLEXHEAT: Flexible premixed burners for low-cost domestic heating systems.
- MOREPOWER: Compact direct (m)ethanol fuel cell for portable applications. 2004-2007
- HYTRAN: Hydrogen and fuel cell technologies for Road Transport.
- BIOFEAT: Biodiesel fuel processor for a fuel cell auxiliary power unit for a vehicle. 2003-2006
- CATNAT: Cost-effective and durable Pd catalysts for natural gas vehicle and premixed burner applications.
- MINIREF: Miniaturized gasoline fuel processor for fuel cell vehicle applications.
- PRIN 2006: Ultra-compact structured catalyst based on microchannels for power generation.
- FISR 2005: Development of hydrogen micro-combustors for direct power production.
- PRIN 2004: Development of a structured reactor with integrated heat exchange for CO-PrOx.
- FISR 2004: Development of innovative catalysts for hydrogen production and purification for fuel cells.
- PRIN 2002: Development of perovskite catalysts for methane combustion.

Previous positions:

- 01/2011 - 11/2019 (8 years 11 months) **Associate Professor**
- 10/2002 - 12/2010 (8 years 2 months) **Assistant Professor**
- 05/2002 - 09/2002 (5 months) **Temporary Research Fellow**

11/2014 - CURRENT Messina, Italy

**ADJUNCT RESEARCHER** CNR-ITAE (Istituto di Tecnologie Avanzate per l'Energia)

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- Research as external member in cooperation with two different groups on:
  - fuel processors and structured catalysts for hydrogen production (FPMAT group).
  - electrocatalysts for direct methanol fuels cells (DAFCE group).
- Member of the Scientific and Organizing Committee of the following congresses organized by ITAE:
  - International Green Energy Conference & Euro-Mediterranean Hydrogen Technologies Conference InGEC & EmHyTeC-2016, Tunis (Tunisie), 2016.
  - Euro-Mediterranean Hydrogen Technologies Conference EmHyTeC-2014, Taormina (Italy), 2014.

● **EDUCATION AND TRAINING**

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10/1989 - 03/1995 Torino, Italy

**M.SC. CHEMICAL ENGINEERING** Politecnico di Torino

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**Field of study:** Chemical engineering                      **Final grade:** 110/110 |

**Thesis:** Catalytically modified fly-ash filters for NO<sub>x</sub> reduction with ammonia

## ● PREVIOUS WORK EXPERIENCE

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12/1999 - 04/2002 (2 years 5 months)

**R&D Engineer** - Infragas S.p.A., Caselle Torinese (TO), Italy

- Research activities on catalytic combustion of methane and VOCs in EU projects (FP5)

12/1996 - 11/1999 (3 years)

**Quality Engineer** - Messer Italia S.p.A., Collegno (TO), Italy

- Management of the quality system (ISO 9000) for technical gases filling stations

06/1996 - 10/1996 (5 months)

**R&D Engineer** - Allione Industrial Alimentare, Tarantasca (CN), Italy

- Research activities on criomilling and lyophilization of aromatic herbs

01/1996 - 05/1996 (5 months)

**Technical Engineer** - Ecosicura s.a.s., Torino, Italy

- Risk analysis and fire prevention assessment

06/1995 - 08/1995 (3 months)

**Temporary Research Fellow** - Clariant AG, Basel Switzerland

- Research activities on stability of polyester fiber dyestuffs

## ● ADDITIONAL INFORMATION

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### **INTERNATIONAL EXPERIENCE**

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Visited several Universities and Research Institutes for research periods, job shadowing, teaching to Ph.D. students, expanding the international network of POLITECNICO DI TORINO within the *Erasmus+ program* to enlarge the exchange scholarship for students in Chemical Engineering (agreements for double degrees, courses and final thesis)

#### **Short-term Visiting Professorships**

- University of Santiago de Chile (Chile): research on electrocatalysts for fuel cells, 07/2022
- Kyoto Institute of Technology (Japan): research on Raman spectroscopy for electrocatalysts, 08/2019
- The University of British Columbia, Vancouver (Canada): research on low-temperature fuel cells, 08/2015
- China Jiliang University, Hangzhou (P.R. China): lecturer of "Fuel Cells: fundamental aspects and applications" and "Solution Combustion Synthesis: theory and applications", 11/2012
- Ural Federal University, Ekaterinburg (Russia): lecturer of "Fuel Cells: fundamental aspects and applications", 12/2011
- Statal University of Maringá (Brazil): lecturer of "Fuel Cells - Theory & Practice", 08/2011
- The University of Western Ontario, London (Canada): lecturer of "Selected Topics in Chemical Engineering: Aspects of Hydrogen Economy", 07-08/2006

#### **Erasmus+ granted scholarships for Staff Mobility (Training/Teaching)**

- The University of Queensland (Brisbane, Australia), 07/2023
- Hokkaido University (Sapporo, Japan), 04/2023
- Instituto Superior Técnico (Lisboa, Portugal), 01/2023
- University of California Irvine (USA), 05/2022
- Jagiellonian University (Krakow, Poland), 02/2020
- Kyoto Institute of Technology (Japan), 08/2019
- University of California Irvine (USA), 03/2019
- Kyoto Institute of Technology (Japan), 05/2018
- University of La Laguna (Santa Cruz de Tenerife, Spain), 07/2015

#### **Invited talks at international universities or research institutes**

- Nanyang Technical University (Singapore), 08/2023
- Monash University (Melbourne, Australia), 08/2023
- University of Maryland (College Park, USA), 03/2023
- University of Santiago de Chile (Chile), online 11/2020
- Nanyang Technical University (Singapore), 07/2018
- Ontario Tech University (Oshawa, Canada), 09/2017
- National Renewable Energy Laboratory Colorado (Golden, USA), 09/2017
- University of Connecticut (Storrs, USA), 08/2017
- Consiglio Nazionale delle Ricerche ITAE (Messina, Italy), 07/2017
- Donghua University (Shanghai, P.R. China), 05/2017

- Westphalian University of Applied Sciences (Gelsenkirchen, Germany), 08/2014
- Jagiellonian University (Krakow, Poland), 07/2014
- National Research Council of Canada (Vancouver, Canada), 11/2011
- Federal University of Rio de Janeiro (Brazil), 09/2011
- University of Sao Paulo (Brazil), 08/2011
- Indian Institute of Chemical Engineering (Mumbai, India), 12/2009
- National Research Council of Canada (Vancouver, Canada), 06/2009
- Tokyo University of Science (Japan), 09/2008
- Tokyo Metropolitan University (Japan), 09/2008

## **INTERNATIONAL COLLABORATIONS**

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Research activities with international laboratories and research groups:

- Prof. Andrzej Kotarba, Faculty of Chemistry, Jagiellonian University in Krakow (Poland): nano-structured oxide materials for oxidation processes.
- Prof. Mario Montes Ramirez, Department of Chemical Engineering, Universidad del País Vasco (San Sebastian, Spain): structured catalysts for reforming reactions.
- Dr Jean-Francois Joly, Department of Reactions and Modeling of Reactors, IFP - Energies Nouvelles (Solaize, France): open cell foams structured catalysts.
- Prof. Pilar Ocon Esteban, Department of Applied Physical Chemistry, Universidad Autónoma de Madrid (Spain): testing of PEFC, DMFC, and DEFC.
- Prof. E. Bradley Easton, Faculty of Science, Ontario Tech University, (Oshawa, Canada): testing of PEMFC.
- Prof. Ulrike I. Kramm, Department of Chemistry, Technische Universität Darmstadt (Germany): PGM-free electrocatalysts for fuel cells.
- Prof. Radenka Maric, Department of Materials Science & Engineering, Clean Energy Center, University of Connecticut (Storrs, CT, USA): testing of materials for energy.
- Prof. Plamen Atanassov, Samueli School of Engineering, Department of Chemical and Biomolecular Engineering, University of California, Irvine (CA, USA): PGM-free electrocatalysts for fuel cells.
- Prof. Giuseppe Pezzotti, Department of Materials Science, Kyoto Institute of Technology (Japan): Raman spectroscopy applied to bio-electrodes.
- Prof. José H. Zagal, Department of Chemistry, Universidad de Santiago de Chile (Chile): electrocatalysts for the oxygen reduction in fuel cells.

## **CONFERENCES AND SEMINARS**

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Attended 78 conferences/seminars (69 international, 9 national): 27 keynote lectures, 45 oral presentations, 25 posters. Effective member of the scientific board of several international conferences.

### **Keynotes and Invited Talks**

- 16<sup>e</sup> journées d'études des milieu poreux, Rueil Malmaison (France), 2023.
- 5<sup>th</sup> Israeli Fuel Cells Consortium Workshop, Tel Aviv (Israel), 2022.
- HYCELTEC 2022, VIII Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries, Buenos Aires (Argentina), 2022.
- International Conference on Hydrogen Production (ICH2P-2021), Messina (Italy), 2021 (online).
- World Conference on Internal Combustion Engines, Shandong, Jinan (China), 2021 (online).
- Workshop on Platinum Group Metal-free Electrocatalysts: Structure-to-Property Relations, Materials, Synthesis and Integration in Catalysts Layers, Telluride (CO, USA), 2019.
- Korea-Italy Bilateral Symposium "Advanced Materials for Energy Applications", Daegu Gyeonbuk Institute of Science & Technology (DGIST), Daegu (South Korea), 2019.
- IWEPE 2019, International Workshop on Energy, Power and Environment, Kurukshetra (India), 2019.
- 680<sup>th</sup> WE Heraeus Seminar on "Materials Development for Automotive Propulsion", Physikzentrum Bad Honnef (Germany), 2018.
- 5<sup>th</sup> International Symposium on Advanced Vehicle Energy Concepts and Structures, Oshawa (ON, Canada), 2017.
- HYCELTEC 2017, VI Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries, Porto (Portugal), 2017.
- Sympósio Matéria 2016, Rio de Janeiro (Brazil), 2016.
- HySA/Catalysis Workshop 2016, Cape Town (South Africa), 2016.
- 4<sup>th</sup> International Conference on Electrochemical Energy Science & Technology, Kunming (P.R. China), 2016.
- 3<sup>rd</sup> International Conference on Electrochemical Energy Science & Technology, Vancouver (BC, Canada), 2015.
- HYCELTEC 2015, V Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries, Tenerife (Spain), 2015.
- Korea-Italy Bilateral Symposium "Hydrogen and Fuel Cells: current issues and perspectives", Korea Institute of Science & Technology (KIST), Seoul (South Korea), 2015.
- AIChE Annual Meeting Global Challenges for Engineering a Sustainable Future, San Francisco (CA, USA), 2013
- International Conference on Electrochemical Materials and Technologies for Clean Sustainable Energy, Guangzhou (P.R. China), 2013.

- International Congress on Climate Change ICC-2010, Osmania University, Hyderabad (India), 2010.
- 2<sup>nd</sup> International Symposium on Air Pollution Abatement Catalysts, APAC 2010, Krakow (Poland), 2010.
- 10<sup>th</sup> International Symposium on the Scientific Bases for the Preparation of Heterogeneous Catalysts PREPA10, Louvain-la-Neuve (Belgium), 2010.
- 5<sup>th</sup> Annual International Conference on Fuel Cells Durability & Performance, Alexandria (VA, USA), 2009.
- Indo-Italian Conference on Emerging Trends in Waste Management Technologies, Pune (India), 2009.
- XVII Congreso Chileno de Ingenieria Quimica, Viña del Mar (Chile), 2009.
- 2<sup>nd</sup> New Energy Solutions in Tours (NEST-2) International Conference, Tours (France), 2009.
- PEMFC Freeze Technical Workshop @ Nuvera Fuel Cells Inc., Billerica (MA, USA), 2009.

### **Managing and organizing activities in Scientific Committees of International Conferences**

- *Chair* of the Low-Temperature Fuel Cells, Electrolyzer and H<sub>2</sub> Processing International Conference EFCE 2025, Lucerne (Switzerland), 2025.
- *Chair* of the IX Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries HYCELTEC-2024, Milazzo (Italy), 2024.
- VIII Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries HYCELTEC-2022, Buenos Aires (Argentina), 2022.
- *Chair* of the 1<sup>st</sup> International Workshop on “Electrochemical Discussions: Latest insights on PGM-free catalysts for Energy Systems and Fuel Cells”, Torino (Italy), 2019.
- VII Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries HYCELTEC-2019, Barcelona (Spain), 2019.
- 22<sup>nd</sup> World Hydrogen Energy Conference WHEC 2018, Rio de Janeiro (Brazil), 2018.
- Hydrogen Power - Theoretical and Engineering Solutions Symposium HYPOTHESIS, Siracusa (Italy), 2017.
- 5<sup>th</sup> International Congress on Green Process Engineering, Mont Tremblant (Quebec, Canada), 2016.
- VI Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries HYCELTEC-2017, Porto (Portugal), 2017.
- 4<sup>th</sup> International Conference on Electrochemical Energy Science & Technology, Kunming (P.R. China), 2016.
- V Iberian Symposium on H<sub>2</sub>, Fuel Cells and Batteries HYCELTEC-2015, Tenerife (Spain), 2015.
- 3<sup>rd</sup> International Conference on Electrochemical Energy Science & Technology, Vancouver (Canada), 2015.
- 2<sup>nd</sup> International Conference on Electrochemical Energy Science & Technology, Shanghai (P.R. China), 2014.
- International Symposium on Air & Water Pollution Abatement Catalysis AWPAC-2014, Krakow (Poland), 2014.
- 9<sup>e</sup> Congrès Francophone de Génie des Procédés CFGP 2014, Agadir (Morocco), 2014.
- Int. Conference on Electrochemical Materials & Technologies for Clean Sustainable Energy, Guangzhou (P.R. China), 2013.
- *Vice-president* of the Scientific Committee of the XIVe Congrès de la Société Française de Génie des Procédés - SFGP 2013, Lyon (France), 2013.

### **PUBLICATIONS**

Author of several publications with national/international co-authors on the following topics: chemical engineering, catalysts, electrocatalysts, H<sub>2</sub>/O<sub>2</sub> fuel cells, fuel processors, methane combustion, waste valorization. Hirsh index (Hi) equal to 45 on Scopus (5400 citations), 51 on Google Scholar (6455 citations) (August 2023). ORCID#0000-0003-3882-3240.

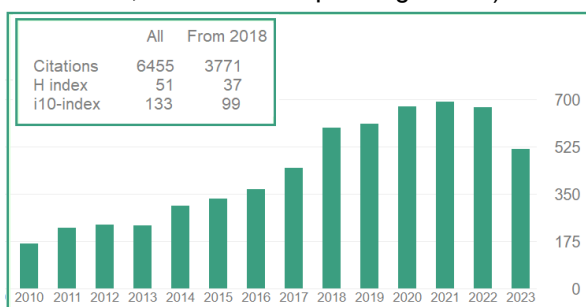
Full list of publications available on <https://scholar.google.it/citations?user=t6dXX5kAAAAJ&hl=it>

#### **International publications**

- 151 papers on international peer-reviewed journals (20% as 1<sup>st</sup> author, 60% as corresponding author).
- 8 book chapters on international books.
- 215 abstracts or proceedings in international congresses.
- 1 international patent.

#### **National**

- 2 papers on national peer-reviewed journals.
- 17 abstracts or proceedings in national congresses.
- 1 national patent.



### **REVIEWING and EVALUATION ACTIVITIES**

#### **Editor**

- Chemical Engineering Journal (Elsevier, Impact factor 15.1): managed 581 manuscripts.
- International Journal of Energy for a Clean Environment (Begell House): managed 10 manuscripts.
- Catalysts (MDPI, Impact factor 3.9): managed 4 manuscripts.
- Electrochemical Energy Reviews (Springer Nature, Impact factor: 31.3): managed 3 manuscripts.
- Frontiers in Catalysis (Frontiers, Impact factor 5.545) managed 1 manuscript.

#### **Peer-reviewer**

For the most important journals in Chemical Engineering, Chemistry, Electrochemistry, Catalysis, Energy (Elsevier, Wiley, Springer, ACS, RCS, MDPI, Frontiers: 420 manuscripts according to Clarivate - Web of Science).

## **Projects' reviewer**

- Research Council of Norway: National Research Projects, Call 2011.
- Slovenian Research Agency: National Research Projects, Call 2011/2012.
- Lithuanian Research Council: National Research Programmes, Call 2012.
- Italian Ministry of Instruction, University and Research (MIUR, Italy): PRIN Call 2012 and FIRB Call 2013.
- French National Agency for Research: programme SEED 2013, programme "Stimuler le renouveau industriel" editions 2016/2017, 2017/2018, 2019/2020.
- Chilean National Commission for Science and Technology: programme FONDECYT, call 2014.
- American Chemistry Society: Petroleum Research Fund, calls 2014 and 2015.
- Dutch Organization for Scientific Research: national ECHO granting, call 2015.
- Russnanoprize, Nanotechnology International Prize: evaluation of the nominations for the award in the "Energy Efficiency and Green Technology", call 2015.
- Polish Ministry of Science and Higher Education, National Science Center: Physical Sciences and Engineering, Edition 2016/2017.
- Research Foundation Flanders (Belgium): evaluation of new applications for Doctoral (PhD) grants strategic basic research in Chemical Engineering and Catalysts, SB Panels 2017, 2018.
- Natural Sciences and Engineering Research, Council of Canada: Collaborative Research and Development Grant funding opportunity, Editions 2018 and 2019.
- Autonomous Province of Trento (Italy), Provincial Agency for the Incentives to Economic Activities: evaluation of intermediate reports for applied research projects in the Energy sector, 2018, 2019.
- European Research Council (ERC), Executive Agency, Horizon 2020: evaluation of ECR Starting, Consolidator & Advanced Grants, Work Programme 2019.
- Serra Húnter Programme, Generalitat de Catalunya (Spain), member of the selection process for the Tenure-eligible Lecturer post in Chemical Engineering for the Universitat de Barcelona (Spain), 2019/2020.
- Qatar National Research Fund: UREP calls 2019 and 2021, NPRP call 2020, ARG call 2023.

## **Ph.D Committees member**

- Ph.D. in Environmental Science, University of Studies Cà Foscari, Venezia (Italy), 2007.
- Ph.D. in Chemistry, Université Claude Bernard Lyon 1, Villeurbanne (France), 2008.
- Ph.D. in Chemical Engineering, Norwegian University of Science and Technology, Trondheim (Norway), 2011.
- Ph.D. in Chemical Engineering, Politecnico di Milano (Italy), 2013.
- Ph.D. in Environmental Engineering, Université Catholique de Louvain, Louvain-la-Neuve (Belgium), 2014.
- Ph.D. in Metrology Measuring Science and Technique, Politecnico di Torino (Italy), 2016.
- Ph.D. in Physics, University of Studies of Trento (Italy), 2017.
- Ph.D. in Industrial Chemistry and Chemical Engineering, Politecnico di Milano (Italy), 2017.
- Ph.D. in Chemical Science and Engineering, Royal Institute of Technology, Stockholm (Sweden), 2017.
- Ph.D. in Energy and Nuclear Science and Technology, Politecnico di Milano (Italy), 2018.
- Joint Ph.D. in Energetics, Royal Institute of Technology (Sweden) & Politecnico di Torino (Italy), 2018.
- Ph.D. in Chemical Engineering, Royal Institute of Technology, Stockholm (Sweden), 2018.
- Ph.D. in Energy Technology, Royal Institute of Technology, Stockholm (Sweden), 2018.
- Ph.D. in Chemical Engineering, Politecnico di Torino (Italy), 2019.
- Ph.D. in Chemistry, Université Claude Bernard Lyon 1, Villeurbanne (France), 2020.
- Ph.D. in Chemistry, Jožef Stefan International Postgraduate School, Ljubljana (Slovenia), 2020.
- Ph.D. in Process Engineering, University Claude Bernard Lyon 1, Villeurbanne (France), 2021.
- Ph.D. in Chemical Science, University of Studies of Roma Tor Vergata (Italy), 2022.
- Ph.D. in Materials Science, University of Novi Gorici, Ajdovscina (Slovenia), 2023.

## **NETWORKS AND MEMBERSHIPS**

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2022 - CURRENT

**ISE, International Society of Electrochemistry:** member.

2012 - CURRENT

**IAOEEES, International Academy of Electrochemical Energy Science:** board committee member of the technical division of Fuel Cells.

## **AWARDS**

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- Nr. 9 Erasmus+ scholarships for Staff training/teaching (from 2015 to 2023).
- Best oral presentation in the session "Fuel Processing for Hydrogen Production I" at the AIChE Annual Meeting 2015 Salt Lake City (10/11/2015).
- Best oral presentation in the session "Fuel Processing for Hydrogen Production II" at the AIChE Annual Meeting 2014 Atlanta (18/11/2014).
- Nr. 5 scholarships as "POLITO Young Researcher" to attend congresses (from 2006 to 2010).

## ● LANGUAGE SKILLS

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Mother tongue(s): **ITALIAN**

Other language(s):

|                | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
|                | Listening     | Reading | Spoken production | Spoken interaction |         |
| <b>ENGLISH</b> | C2            | C2      | C2                | C2                 | C2      |
| <b>FRENCH</b>  | B2            | B2      | B2                | B2                 | A2      |
| <b>GERMAN</b>  | A2            | A2      | A2                | A2                 | A1      |
| <b>SPANISH</b> | A2            | A2      | A2                | A2                 | A1      |

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

## ● SOCIAL SKILLS and COMPETENCES

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- Ability to manage office work in autonomy and in teamwork in a multicultural environment.
- Ability to manage and coordinate research in laboratory.
- Ability to create a focused, inclusive, and positive work environment.
- Capability to effectively motivate students and enhance their self-confidence (Erasmus+ Programmes).
- Capability to communicate and interact with others.
- Confidence to speak to people
- Ability to present in a smart and comprehensible way scientific data to an interdisciplinary audience.
- Ability to establish and maintain good relations with people of different national and cultural backgrounds.
- Ability to negotiate agreements and exchange programs, flexibility and approach to conflict resolution.
- Capability to critical thinking and problem solving.
- Sense of responsibility and reliance.
- Sense of creativity.
- Referential values of fairness, equity and dignity.

## ● HOBBIES AND INTERESTS

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**Sport:** Skiing, rowing, running, swimming, ice skating, hiking, yoga

**Hobbies:** Floriculture (orchids), photography, playing guitar

**Interests:** Enjoying friends, reading books, listening classic music, travelling

## ● LICENCES

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**Driving license:** B

**Other:** Lifeguard certificate

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September 2023