



### ***Curriculum Vitae (brief version)***

**FABIANA GENNARI**

Physicochemical of Materials Department

Applied Research Area

Centro Atómico Bariloche, CNEA, Av. Bustillo 9500,

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#### **CURRENT POSITION**

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- **Superior researcher at CONICET (National Council of Scientific and Technical Research), CAB-CNEA (Centro Atómico Bariloche-National Commission of Atomic Energy), 2024-current.**
  - **Associate Professor at Instituto Balseiro-Cuyo University in CAB-CNEA, 2024-current.**
  - **Head of Applied Research Area, in the Research, Development and Innovation directorate, CAB-CNEA, 2024-current.**
  - **Coordinator, Academic Committee of PhD in Engineering, IB-UNCuyo, 2021-current.**
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#### **EDUCATION**

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- **Chemical Engineer** at the Comahue National University, Neuquén, Argentina, 1993.
  - **PhD in Engineering** at the National University of La Plata, Buenos Aires, Argentina, 1998.
  - **Postdoctoral research, Pure and Applied Chemistry Department, ICS-UNIDO (International Center for Science and High Technology). Trieste, Italy, 1998-1999.**
  - **Research activities** at: Center of Excellence for Nanostructured Materials, Chemistry Department, University of Trieste, Trieste, Italy, 2003-2004.
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#### **RESEARCH AREAS**

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Materials Engineering; Thermodynamics and Kinetics of chemical processes; Clean energies; Catalysis. Development of materials and processes for hydrogen production, hydrogen storage, carbon dioxide capture; transformation of carbon dioxide into fuels. Valorization of national natural resources. Tritium breeding materials for nuclear fusion.

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#### **SCHOLARSHIPS, FELLOWSHIPS**

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- \* National Council of Scientific and Technological Research, CONICET, Argentina, 1994-1998, at Centro Atómico Bariloche, National Commission of Atomic Energy.
  - \* ICS-UNIDO, subprogram "Catalysis and Sustainable Chemistry". Trieste, Italy, 1998-1999.
  - \* ICTP Training and Research in Italian Laboratories (TRIL), in Center of Excellence for Nanostructured Materials, University of Trieste, Trieste, Italy 2003-2004.
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#### **AWARDS**

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1. L'Oréal-Unesco National Award "For Women in Science" in collaboration with CONICET, 2016 edition. "Development of materials with controlled nanostructure for their use in alternative energies and environmental care".
  2. OSDE Foundation Award "The Women's Names", 2017 edition. Recognition for activity in the scientific field.
  3. Konex Award in Science and Technology 2023: Energy and sustainability.
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## **PUBLICATIONS and BOOK CHAPTERS**

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H index (Scopus h= 30, citations: 2855 // Google Scholar: h=32 , citations: 3678, i10=88).

AU-ID (Fabiana Gennari 7007163571). ORCID: 0000-0001-5821-2573. SCOPUS

- Publications in international journals (Sci Journals): 120
  - Books Chapter: 5.
  - Proceedings of International/Latin American Conferences: >120
  - Invited speaker International/Latin American/National Conferences: 32.
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## **FUNDING RESEARCH PROJECTS**

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### **INTERNATIONAL (Argentine director)**

- CO<sub>2</sub>MPRISE Project: CO<sub>2</sub> absorbing Materials, H2020 Marie Skłodowska-Curie Research and Innovation Staff Exchange (2017-2022). H2020-MSCA-RISE Action (2017-2022).
- Collaboration Project Italia-Argentina MINCYT-MAE, (2014-2016).
- Collaboration Project Italia-Argentina MINCYT-MAE, (2008-2010).
- Research Grant in Chemistry, The Academy of Sciences for Developing World (TWAS), Project 05-233 RG/CHE/LA (2006-2007).

### **NATIONAL PROJECTS (Argentine director)**

A total of 21. **Research projects funded by Governmental Science organizations finalized:** ANPCyT or R&D+i Agency (9), CONICET (2), UNCuyo (7), Balseiro Foundation (3).

#### **- Under development:**

- MINCYT, High Impact Federal Networks Project, CapCO<sub>2</sub> network: "Reduction of carbon dioxide emissions through their capture and conversion to synthetic fuels." (09/2023-09/2027). Co-Coordinator of the Federal Network, Director Node CNEA.
  - Balseiro Foundation, Project of social impact 2023. "Reduction of carbon dioxide emissions by absorbent solids", 2023-2025).
  - FONARSEC Petra Energy Call - Project 0015: "Isotopic lithium separation for uses in high value added nuclear technology" (CNEA-INVAP SE- Nucleoelectric Argentina SA, 08-2022/08-2025).
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## **TECHNOLOGY TRANSFER**

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- **Specialist Consulting:** "Perspectives of hydrogen production in Argentina. Its potential and costs". FIMHYMF-241-SBC-CF IDB 3759/OC-AR contract, 2022- 2023.
  - **Responsible of the research and transfer contracts** (total of 5) within the framework of the Technological Innovation Law between CNEA and INVAP SE: 12/2016-03/2019; 02/2011-02-2012; 02/2010-09/2011; 02/2009-09/2009; 02/2008-08/2008.
  - **Consulting contracts** (total of 2) with the Area Science Park, Trieste, Italia. The Commission of the European Communities. Project CAT-MED (01/2004-12/2004) and Project EUGRIS (09/2003-09/2004).
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## **RESEARCH SUPERVISION AND MENTORING ACTIVITIES**

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**CONICET Researchers:** 8

**CONICET postdoctoral fellows:** 11

**COMPLETED PhD THESIS:** 8

All received an outstanding qualification. The supervised PhDs have been inserted in different Science and Technology Centers and companies outside of Argentina (4), or are researchers at CONICET.

PhD Thesis in progress: 2

**List of PhD Thesis supervised:**

- PhD Thesis in Engineering Science, Instituto Balseiro, University of Cuyo (5).
- PhD Thesis in Physics, Instituto Balseiro, University of Cuyo (1).
- PhD Thesis in progress: in Engineering Science, Instituto Balseiro, University of Cuyo (2).
- Completed Master thesis and Specialization thesis (3).

**INTERNSHIP DIRECTION (1 month): 30**

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**ORGANIZATIONAL SKILLS AND COMPETENCIES**

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- **Head of Physicochemical of Materials Department** (2017-2023), Applied Research Management (CAB-CNEA).
- **Coordinator of the Academic Committee of PhD in Engineering**, Instituto Balseiro, UNCuyo (May 2021-to date).
- **Coordinator of "Education and training", in the Ibero-American Network CYTED-Hydrogen: production and uses in transport and the electricity sector** (2020- 2024).
- **Coordinator of the Advisory Committees for CONICET** research career, Special projects, Catamarca (2022).
- **Coordinator of the Advisory Committees for Engineering and Technology of Materials**, for CONICET research career (2017-2018).
- **Representative for Argentina, in the IPCC Expert Meeting** on Carbon Dioxide Removal Technologies, Carbon Capture Utilization and Storage, IPCC Task Force on National Greenhouse Gas Inventories (TFI), Vienna, Austria, 1-3 July 2024.
- **Member of the Academic Committee of Master in Physical Sciences**, Balseiro Institute, UNCuyo (2019-2021 and 2010-2012).
- **Member of the Ad-Hoc Commission**, Argentine Innovative Plan 2020, National Agency for the Promotion of Research, Technological Development and Innovation (2020).
- **Member of the Ad-Hoc Commission Chemical Technology**, National Agency for the Promotion of Research, Technological Development and Innovation (2021).
- **Member of the Board of Directors**, San Nicolás Research and Transfer Center (2017-2022).
- **Alternate counselor in the Academic Council** of the Instituto Balseiro, UNCuyo (2020-2022 and 2008-2010).
- **Member of Interdisciplinary Forum for Lithium Specialists**, National Interuniversity Council, from 2020.
- **Member of the Ad-Hoc Commission** for the Area of Agricultural Sciences, Engineering and Materials, CONICET (2018).
- **Member of several Organization or Scientific Committees** of International/Latin American/ National Conferences, Symposium and Schools. Among them (last years): 18th International Symposium on Metal-Hydrogen systems 2024, <https://mh2024.org/>; Ibero -American Hydrogen Symposium, Asunción, Paraguay, 2022; Symposium on Hydrogen, Fuel Cells and Advanced Batteries, Buenos Aires, 2022; 1st National Meeting on Lithium: Towards a policy for integral development, 2021; XIX Argentine Congress of Catalysis-X Mercosur Catalysis Congress, Santa Fe, 2019; International Metallurgy Congress and Materials Sam-Conamet, 2018; José Balseiro School 2018, School for Applied Physics and Technological Innovation; Symposium: Materials for Green Energy, SBP Materials Brazil-MRS, 2017.

## **PARTICIPATION IN EVALUATION COMMITTEES**

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- Jury Member/Alternate coordinator** of several Scientific Awards: L'Oréal-UNESCO National Awards 2018, 2020, 2022; Best Thesis of graduate Materials Engineering, Instituto Sabato, University of San Martín (2020); J. J. Giambiagi Award, Argentine Physical Association, 2004.
- Representative by CONICET**, in the expert committee to evaluate projects on Energy Transition, together with ANII (Uruguay) - FAPESP (Brazil) - CONACYT (Paraguay), 2024.
- Member of PhD or MSc Thesis Committee** in more than 20 occasions (UNCuyo, UNLP, UNSL, UNL, etc.).
- Member of the Committee for the evaluation of Projects** from 2008 to date (UBA, UNLP, UNCuyo, UNR, UNGS, CONICET, ANPCyT, FONCYT).
- Member of the evaluation Committee** for the selection of Assistant Professor (UBA, 2021).
- **Member of the evaluation Committee** for teaching assistant, IB-UNCuyo, 2024.
- **Reviewer for the international publications** of several Journals from 2008: Applied Catalysis B: Environmental; Energy & Fuel, Physical Chemistry Chemical Physics; International Journal of Hydrogen Energy; Journal of Alloys and Compounds; Journal of Power Sources; Energies; Catalysis Today; Applied Catalysis A: Fundamentals; ACS Applied Materials & Interfaces; Chemical Engineering Journal, etc.