

Gianfranco Pacchioni

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Education

1981 – 1984 Ph. D. Free University Berlin, Berlin, Germany (Chemical Physics)

1973 – 1978 B. S. Università di Milano, Milano, Italy (Chemistry)

Professional Career

2020.10 – Present Full Professor, Dpt. Material Science, University Milano-Bicocca

1997.10 – 2020.10 Associate Professor, Dpt. Material Science, University Milano-Bicocca

1987.10 – 1997.10 Associate Professor, Dpt. Inorganic Chemistry, University Milano

Visiting Professor: IBM Almaden Research Center, San Jose, California (1987). Technische Universität München, Germany (1993, 1994, 1995). Universitat de Barcelona, Spain (1998, 1999, 2010). University of Paris VI, France (2002). Fritz-Haber Institut, Berlin, Germany (2005, 2006, 2007). University of Paris VI, France (2009). University of North-Texas, Denton, Texas (2009). Ecole National Supérieure, Paris, France (2011).

Selected Publications

1. G. Di Liberto, L. A. Cipriano, G. Pacchioni, "Role of Dihydride and Dihydrogen Complexes in Hydrogen Evolution Reaction on Single-Atom Catalysts", *J. Am. Chem. Soc.*, 143, 20431 (2021).
2. M. Bajada, J. Sanjosé-Orduna, G. Di Liberto, S. Tosoni, G. Pacchioni, T. Noel, G. Vilè, "Interfacing Single-Atom Catalysis with Continuous-Flow Organic Electrosynthesis", *Chemical Society Reviews*, 51, 3898-3925 (2022).
3. L. A. Cipriano, G. Di Liberto, G. Pacchioni, "Superoxo Complexes on Single Atom Catalysts: Impact on the Oxygen Evolution Reaction", *ACS Catalysis*, 12, 11682-11691 (2022).
4. G. Di Liberto, G. Pacchioni, "Modelling single atom catalysis", *Advanced Materials*, 35, 2307150/1-21 (2023).

Research Interests

1. Electronic structure of inorganic materials, oxides, surfaces, interfaces
2. Ab initio modelling of catalytic materials
3. Methods in quantum chemistry

Awards

1. Gold Medal "Raffaello Nasini", Società Chimica Italiana (1994).
2. Premio Nazionale Federchimica "Per un futuro intelligente" (1996).
3. Research Award Alexander Von Humboldt Foundation (2005).
4. Blaise Pascal Medal of the European Academy of Sciences (2016).
5. Pisani medal of the Italian Chemical Society (2017).
6. Cannizzaro Medal of the Italian Chemical Society (2024).
7. Member of European Academy of Sciences (Liegi) (2009).
8. Member of Academia Europaea (London) (2012).
9. Member of Accademia Nazionale dei Lincei (Rome 2014).