

Curriculum vitae di Gianfranco Pacchioni

Sottosettori ERC primari: *PE5, PE4*

Eventuali sottosettori ERC secondari: *PE4_10, PE4_13, PE5_6*

PERSONAL DETAILS

Nome, Cognome/Name, Surname	Gianfranco Pacchioni
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Nazionalità/Nationality	Italy
Luogo e data di nascita/ Place and Date of birth	Milan, 8/11/1954

• Education and key qualifications

Study of chemistry, University of Milano (1973-1978). Laurea thesis on "Istituto di Ricerca Montedison G. Donegani", Novara (1978), supervisor Prof. E. Clementi. Ph. D. in Physical Chemistry at the Freie Universität Berlin, Institut für Physikalische Chemie (Berlin West) (1981-1984), supervisor Prof. J. Koutecky. Post-doctoral experience: IBM Almaden Research Center (CA) 1987, supervisor Dr. P. S. Bagus. Free University of Berlin, Germany

• Current position(s)

Dipartimento di Scienza dei Materiali, Università di Milano-Bicocca, via Cozzi 55 – 20125 Milano, Italy

• Previous position(s)

In Italy: CNR fellowship (1979,1980); Assistant Professor (1984-1987) and Associate Professor of Inorganic Chemistry (1987-1996), Department of Inorganic and Organometallic Chemistry, University of Milano; Associate Professor of Solid State Chemistry, Department of Material Science, University of Milano-Bicocca (1997-1999). Full Professor of Inorganic Chemistry (2000). Director of the Department of Material Science, University of Milano Bicocca (2003-2009).

Outside Italy: Research contract, Institut für Physikalische Chemie, Freie Universität Berlin, West Germany (1981-1984). Post-doc fellow, IBM Almaden Research Center, San Jose, California (1987). Visiting Professor (Humboldt Fellow), Lehrstuhl für Theoretische Chemie, Technische Universität München, Germany (1993, 1994, 1995). Visiting Professor, Department de Quimica Fisica, Universitat de Barcelona, Spain (1998, 1999, 2010). Visiting Professor, Institut de Chimie Theorique, University of Paris VI, France (2002). Visiting Professor (Humboldt Award), Department of Chemical Physics, Fritz-Haber Institut, Max-Planck Gesellschaft, Berlin, Germany (2005, 2006, 2007). Visiting Professor, Laboratoire des Matériaux Mésoscopiques et Nanométriques, University of Paris VI, France (2009). Visiting Professor, University of North-Texas, Denton, Texas (2009). Visiting Professor, Ecole National Supérieure, Paris, France (2011).

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements

Template CV Soci Accademia di Ingegneria e Tecnologia

Author of more than 600 publications in international journals with referee, (Scopus >30000 citations, h-index 96), (Google Scholar >50000 citations, h-index 113).

More than 600 invited lectures, contributed talks and seminars at conferences and research institutions.

Coordinator of several national and international projects on oxides, supported nanoparticles, heterogeneous catalysis. Funding agencies: EU FP6, EU FP7, MIUR PRIN, MIUR FIRB, Cariplo.

Main expertise: Inorganic materials, oxide materials, surfaces and interfaces, nanoscience and nanostructures, supported metal clusters, theory of catalysis and materials science, computational chemistry

Peer recognition

Fellow Alexander von Humboldt Foundation (1993). Gold Medal "Raffaello Nasini", Società Chimica Italiana (1994). Premio Nazionale Federchimica "Per un futuro intelligente" (1996). Research Award Alexander Von Humboldt Foundation (2005). Blaise Pascal Medal of the European Academy of Sciences (2016). Pisani medal of the Italian Chemical Society (2017). Chini Medal of the Division of Industrial Chemistry (2018). Cannizzaro Medal of the Italian Chemical Society (most prestigious award of SCI) (2024). Member of European Academy of Sciences (Liegi) (2009). Member of Academia Europaea (London) (2012). National member of Accademia Nazionale dei Lincei (Rome 2014). Effective member Istituto Lombardo di Scienze e Lettere (Milano 2019). Corresponding member Istituto Veneto Accademia di Scienze e Lettere (2025).

Editor-in-chief Journal of Physics: Condensed Matter (2018-2023). Member of the Editorial or Advisory Board of the following journals: Surface Science (Elsevier, 2001-2006); Theoretical Chemistry Accounts (Springer, 2003-now); ChemCatChem (Wiley-VCH, 2009-2021); Physical Review Letters (American Physical Society, 2012-2018); ChemPlusChem (Wiley-VCH, 2012-2020); Journal of Physics: Condensed Matter (Institute of Physics, UK, 2013-now); Advanced Material Interfaces (Wiley-VCH, 2013-now); Topics in Catalysis (Springer, 2013-now); Catalysis Letters (Springer, 2013-now); Electron (Wiley, 2024-now).

ADDITIONAL INFORMATION

Other contributions to the research community

Coordinator PhD in Nanostrutture e Nanotecnologie, Università Milano Bicocca (2010-2013). Director Centro Ricerche sull'Energia Solare (MIB-SOLAR), Università Milano Bicocca (2010-2013). President Divisione di Chimica Teorica e Computazionale - Società Chimica Italiana (2011-2013). Member Scientific Council Fondazione Tronchetti Provera (2008-now). Member Administrative Council Consozio CORIMAV per Materiali Avanzati tra Pirelli SpA e Università Milano Bicocca (2004-2022). Member Scientific Council Fondazione EnergyLab (Regione Lombardia, Comune di Milano, Edison, A2A) (2009-2018). President sub-GEV (Gruppo Esperti Valutatori) ANVUR-VQR for Inorganic, Industrial and Technical Chemistry (2012-2013). Chairman of COST Action D41 "Inorganic oxide surfaces and interfaces" (2006-2010). Chairman Panel PE5 "Materials and Synthesis" of European Research Council (ERC) (2008-2012). Italian Representative of CNR in the Scientific Council of the Centre Européen pour le Calcul Atomique et Moléculaire (CECAM, Losanna) (2011-2014). President of the Materials Science Division of the European Academy of Sciences (2010-2016). Member of the Administrative Council Università Milano Bicocca (2013-2016). Pro Rettore alla ricerca Università Milano-Bicocca (2013-2019). Membro Consiglio Scientifico del CNR (2016-2021). Membro del Consiglio Editoriale Società Editrice Il Mulino (2020-now). Componente del Nucleo di Valutazione Università di Bologna (2022-now). Componente del Tavolo di lavoro su ricerca fondamentale del Ministero Università e Ricerca (2022). Co-chair of the Inter Academy Partnership (IAP) (2023-2028). Member of the Editorial council of the Publisher "Il Mulino" (2021-now).

Dissemination. Author of several books on popular science and science-society: "Idee per diventare scienziato dei materiali" (Zanichelli, Bologna, 2005); "Quanto è piccolo il mondo: sorprese e speranze dalle nanotecnologie" (Zanichelli, Bologna, 2007); "Nanotecnologie! Una rivoluzione già iniziata" (Scienza Express, Bologna 2017); "Scienza, quo vadis!" (Il Mulino, Bologna 2017; English edition by Oxford University Press, "The Overproduction of Truth", 2018; Spanish edition by Alianza Editorial, "La ciencia en la encrucijada", 2021); "L'Ultimo Sapiens" (Il Mulino, Bologna 2019); "W la CO₂" (Il Mulino, Bologna 2021); "Materiali fantastici e come crearli" (Zanichelli, Bologna 2023); "Scienza chiara, scienza oscura" (Il Mulino, Bologna 2025).

