

## CV of Prof. Gianfranco Pacchioni



**Personal data:** born in Milano, 8/11/1954, Italian citizenship. Married with Marina Lotti, one daughter (Giulia, born 1987).

**Present position:** Full Professor of Materials Chemistry.

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### Education

Study of chemistry, University of Milano (1973-1978); Master thesis (Laurea), "Istituto di Ricerca Montedison G. Donegani", Novara (1978), supervisor Prof. E. Clementi; Ph. D. in Physical Chemistry, Freie Universität Berlin, Institut für Physikalische Chemie (Berlin West) (1981-1984), supervisor Prof. J. Koutecky; Post-doc at IBM Almaden Research Center (San José) (1987), supervisor Dr. Paul S. Bagus.

### Previous positions

Institut für Physikalische Chemie, Freie Universität Berlin, Berlin, Germany (1981-1984); Department of Inorganic Chemistry, University of Milano (Researcher) (1985-1987); Department of Inorganic Chemistry, University of Milano (Associate Professor) (1987-2000); Department of Materials Science, University of Milano-Bicocca (Full Professor) (2000-now).

### Visiting scientist and visiting professor

Institut für Physikalische Chemie, Freie Universität Berlin, Berlin, Germany (1985, 1986); IBM Almaden Research Center, San Jose, California, USA (1987, 1988, 1990, 1993); Lehrstuhl für Theoretische Chemie, TU München, Munich, Germany (1993, 1994-1999); Department de Química Física, Universitat de Barcelona, Barcelona, Spain (1998, 1999, 2010); Institut de Chimie Théorique, University of Paris VI, France (2002); Department of Chemical Physics, Fritz-Haber Institut der MPI, Berlin, Germany (2005-2007, 2019), Laboratoire des Matériaux Mésoscopiques et Nanométriques, Université Paris VI, France (2009), Department of Chemistry, North Texas University, Denton, USA (2009); Ecole Nationale Supérieure de Chimie de Paris (2011).

### Publications and invited talks

Papers in refereed journals:  $\approx 570$ ; Publications in books:  $\approx 20$ ; Edited books 7, Textbooks 1; Invited lectures:  $\approx 500$ . Citations:  $\approx 30000$ ; h-index: 89 (Web of Science);  $\approx 39000$ ; h-index: 100 (Google Scholar).

### Honors and awards

Alexander von Humboldt fellow (1993); Gold Medal "Raffaello Nasini", Italian Chemical Society (1994); National Prize "Federchimica" (1996); Professor Visitant Invitat, University of Barcelona (1998-1999); Humboldt Research Award (2005); Pascal Medal of the European Academy of Sciences (2016); Pisani Medal of the Italian Chemical Society (2017); Chini Medal of the Industrial Chemistry Society (2018).

Member of the European Academy of Sciences (2009-now); Member of the Academia Europea (2012-now); Member of the Accademia Nazionale dei Lincei (2014-now); Member of the Istituto Lombardo Accademia di Scienze e Lettere (2019-now).

### **Professional activities and appointments**

Member of the Scientific Council of the Italian National Research Council (2016-now); Vice-Rector for Research, University of Milano-Bicocca (2013-2019); Director of the Department of Material Science, University of Milano-Bicocca (2003-2009); Member of the Administration Council of the University Milano-Bicocca (2013-2016); Member of the Administration Council of the Consortium CORIMAV for Advanced materials (2003 – now); Member of the Scientific Council of the “Fondazione Tronchetti Provera” (2005 – now); Chairman Administrative board Lake Como School for Advanced Studies (2015-now); Board Member of the KIC Raw Materials (2015-2018) Chairman of the COST Action D41 “Inorganic oxide surfaces and interfaces” (2006-2010); Chairman of the Panel PE5 “Materials and Synthesis” of the European Research Council (2008, 2010, 2012); Member of the Scientific Council of the Fondazione EnergyLab (2009 – 2018); Coordinator of the PhD program in Nanostructures and nanotechnology, Univ. Milano-Bicocca (2010 – 2016); Coordinator of the PhD program in Chemistry, Univ. Milano-Bicocca (2000 – 2003); Director of the Solar Energy Research Center MIB-SOLAR (2010 – 2016); President of the Computational and Theoretical Chemistry Division of the Italian Chemical Society (2011 – 2014); Representative of the Italian CNR in the Council of CECAM – Centre Européen de Calcul Atomique et Moléculaire (2011 – 2015); Member of the Group of Expert Evaluators GEV of ANVUR, national evaluation agency (2012); President of the Division of Materials Science, European Academy of Sciences (2010-2013).

### **Editorial activities**

Editor-in-chief of the Journal of Physics: Condensed Matter (Institut of Physics) (2019-now). Member of the Advisory or Editorial boards of: Surface Science (2001-2006; 2014-now), Theoretical Chemistry Accounts (2003-now), ChemCatChem (2009-now), Physical Review Letters (2012-2017), ChemPlusChem (2012-2019), Journal of Physics: Condensed Matter (2013-2018); Advanced Material Interfaces (2013-now); Topics in Catalysis (2013-now); Catalysis Letters (2013-now); and others.

Author of 5 books on popular science and science in society (5 in Italian, 1 in English): “*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*”, Oxford 2018; Spanish edition by Alianza Editorial, “*La ciencia en la encrucijada*”, Madrid 2021); “*L’Ultimo Sapiens*” (Il Mulino, Bologna 2019); “*W la CO<sub>2</sub>*” (Il Mulino, Bologna 2021); “*Il nanomondo dai virus ai transistor*” (Edizioni Dedalo, Bari 2021).

### **Ability to inspire young researchers**

G. Pacchioni has supervised more than 40 master thesis and about 30 PhD thesis in Chemistry, Physics, and Materials Science. Many of his former students now hold a permanent position, often with high responsibility, in private companies. Some of the former PhD students now have a permanent academic position in Italy and abroad.

Member of Jury of PhD and habilitation: Leiden (1993), Barcellona (1995, 1999, 2003), Stockholm (1995, 1998, 2009), Paris (1998, 2001, 2003, 2005, 2008-2013), Geneve (1999),

Lausanne (2001), Lyon (2004), Göteborg (2004, 2005), Berlin (2007, 2010), Leuven (2011), London (2015), Marseille (2013), Madrid (2015), Graz (2015), Vienna (2019).