

Europass Curriculum Vitae

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Personal data

Name **Paolo Piccardo**

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Nationality Italian

Birthday [REDACTED]

Main Job **Associate Professor with Habilitation as Full Professor in Metallurgy at Università degli Studi di Genova – Dept. Chemistry and Industrial (DCCI)**

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Google Scholar <https://scholar.google.it/citations?user=cxMaq10AAAAJ&hl=it>

Working experiences

Date 2012 to present

position Associate Professor in Metallurgy at DCCI

Name and address of the Institution Università degli Studi di Genova, Via Balbi 5, I-16126, Genoa, Italy

Date 1999-2011

position Researcher and Assistant Professor in Metallurgy at DCCI

Name and address of the Institution Università degli Studi di Genova, Via Balbi 5, I-16126, Genoa, Italy

Additional roles and titles

Date 2018

Title Full professorship habilitation in Metallurgy by the Italian Minister of Education, University and Research (MIUR)

Date 2016

Title Member of the Panel of Experts for the European Science Foundation

Date 2015-

Title Member of the Teaching Staff of the University of Bordeaux Michel de Montaigne

Date 2008-

Title Associate Researcher of the CNR

Curriculum studiorum

| | |
|-------------|--|
| Periode | 1994-1998 |
| Title | Ph. D. in Chemical Sciences |
| Topic | Metallurgical processes and interaction metal-environment on modern alloys and archaeological metal findings. Long period corrosion processes, impact of microstructural features on the interaction with the environment. |
| Institution | Università degli Studi di Genova |
| Periode | 1993 |
| Title | Habilitation to work as professional Chemist |
| Topic | Inorganic Chemistry and Metallurgy |
| Institution | Università degli Studi di Genova – Italian Chemistry Association (Società Chimica Italiana, SCI) |
| Periode | 1987-1993 |
| Title | Master degree in Chemistry, Summa cum Laude |
| Topic | Metallurgy, chemistry, materials chemistry, inorganic materials, physics, organic chemistry, analytical chemistry |
| Institution | Università degli Studi di Genova |

Skills

Native language **Italian**

Other languages

European level (*)

Inglese

Francese

| Comprehension | | | | Spoken | | | | Written | |
|---------------|-----------------|---------|-----------------|--------------------|-----------------|-------------------|-----------------|---------|------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C1 | Independent user |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C1 | Independent user |
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(*) [Common European Framework of Reference for Languages](#)

Technical skills Metallurgy. Metallography and materials properties. Interaction metal-environment and metal-inorganic materials (e.g. glass, oxides, ceramics). Cold and hot working on metal shaping. Thermal treatments. Corrosion resistance and behaviour at low and high temperature. History of metal working. Materials in energy. Archaeometallurgy. Dissemination and exploitation.

IT skills Multiplatform expert user (Microsoft, Apple, Linux).

- Projects**
- ☐ **2021- running**, Unige unit coordinator in the EU Horizon 2020 project COMPASS, grant agreement 101035809
 - ☐ **2020- running**, WP leader: in the EU Horizon2020 project ULYSSEUS, grant agreement 101004050
 - ☐ **2019- running**: Referent for the University of Genoa and Work package leader in the project HArnessing Degradation mechanisms to prescribe Accelerated Stress Tests for the Realization of SOC lifetime prediction Algorithms — AD ASTRA H2020-JTI-FCH-2018-1 NUMBER 825027.
 - ☐ **2018- running**: Scientific coordinator. "Improvement of Li-Ion Batteries", Industrial research with the goal to improve the performance and the life expectations. The research group is combining the

industrial R&D department, the IMEM-CNR unite and the Laboratory of Materials and Metallurgy of the DCCI-UNIGE

- **2017- running:** Scientific coordinator. "Early metallurgy from Central France", Research contract with CNRS UMR 6298 ARTEHIS, Université de Bourgogne (France). Study of Early Bronze Age metal objects from Central-Eastern France.
- **2010 - running:** Local Research coordinator. "Metal findings from the Tintignac Treasure (Naves, Corrèze, France)" International research activity coordinated by the French National Institute of Archaeology (INRAP)
- **2017-2018:** Researcher in charge for the Foreign Affair Ministry bilateral agreement ICMATE (CNR) - CMRDI (Cairo, Egypt). The activities covered by this cooperation are related to ancient and modern metallurgy with the goal of mutual projects and advances.
- **2016-2018:** Scientific coordinator: "Copper alloys in Italian *pasta* production: interaction and elements release" Industrial research supported by an Italian foundry looking for a food production suitable alloy with very low or nul ionic release in food during manufacturing.
- **2017:** Supervisor of the Feasibility study on additive manufacturing applied to metal components. Industrial research supported by a private company. Expertise acquired on components production and their qualifications in corrosion resistance
- **2016-2018:** Supervisor of the Study and development of new procedures for rolled austenitic stainless steel. Industrial research part of the Regional fund POR-FESR measure 1.2.4, H2020 for Liguria.
- **2014 - 2017:** Scientific Coordinator. ENhanced DURability materials for Advanced stacks of New solid oxide fuel CELls (ENDURANCE), Progetto EU-FP7, Fuel Cell and Hydrogen - Joint Undertaking (FCH-JU).
- **2013 - 2017:** Researcher on metallic foam in the project: Evolved materials and innovative design for high-performance, durable and reliable SOFC cell and stack (EVOLVE), Progetto EU-FP7, Fuel Cell and Hydrogen - Joint Undertaking (FCH-JU). Coordinated by the German Aerospace Center (DLR) from Stuttgart, Germany.
- **2012 - 2013:** Supervisor of the Study of the high temperature corrosion of stainless steel applied to the SOFC Stacking. Industrial research supporte by the Regional plan POR-FESR, FP7 for Liguria,
- **2008 - 2011:** Interconnet Manager in the EU project "An Innovative Dual-mEmbrAne Fuel Cells (IDEAL-Cell)", EU-FP7, coordinated by Ecole des Mines, Paris, France.
- **2006 - 2009.** Supervisor for the study and reconstruction of a metal archeological finding identified as a Celtic War Trumpet (Karnyx) in cooperation with Soprintendenza archeologica of Trento

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- V. Bongiorno, S. Campodonico, R. Caffara, P. Piccardo, M.M. Carnasciali, *Micro-Raman spectroscopy for the characterization of artistic patinas produced on copper-based alloys*, J. Raman Spectroscopy, volume 43, Issue 11, 2012, 1617–1622
- M. Mödlinger, I. Drnić, P. Piccardo, *Alloying Elements as Chronotechnological Marker for Second and First Century BC Fibulae from Ancient Pannonia*, JOM, 64(11), 2012, 1343-1349
- T. R. Vijayaram, P. Piccardo, *Computer in foundries*, Metallurgical Science And Technology, 30 (2) 2013, 28-38
- A.S. Thorel, J. Abreu, S.A. Ansar, A. Barbucci, T. Brylewski, A. Chesnaud, Z. Ilhan, P. Piccardo, J. Prazuch, S. Presto, K. Przybylski, D. Soysal, Z. Stoynov, M. Viviani, D. Vladikova, *Proof of Concept for the Dual Membrane Cell. I. Fabrication and Electrochemical Testing of First Prototypes*, J. Electrochem. Soc., volume 160, issue 4, 2013, F360-F366
- M. Viviani, A. Thorel, A. Barbucci, D. Vladikova, A. Chesnaud, I. Genov, G. Raikova, E. Mercadelli, P. Piccardo, M.P. Carpanese, Z. Stoynov, S. Presto, Sanson, A., *Innovative Dual Membrane Architecture for Reversible Fuel Cells*, ECS Transactions, 57(1), 2013, 3143-3149
- E. Greiner-Wronowa, D. Zabiegaj, P. Piccardo, *Glass–metal objects from archaeological excavation: corrosion study*, Applied Physics A, 113(4), 2013, 999-1008
- M. Mödlinger, P. Piccardo, *Corrosion on prehistoric Cu–Sn-alloys: the influence of artificial environment and storage*, Applied Physics A, 113(4), 2013, 1069-1080
- M. Mödlinger, P. Piccardo, *Manufacture of Eastern European decorative tin–bronze discs from twelfth century BC*, Archaeological and Anthropological Sciences, 5(4), 2013, 299-309
- M. Mödlinger, P. Piccardo, Z. Kasztovszky, I. Kovács, Z. Szőkefalvi-Nagy, G. Káli, V. Szilágyi, *Archaeometallurgical characterization of the earliest European metal helmets.*, Materials Characterization, 79 2013, 22-36

- P. Piccardo, M. Mödlinger, G. Ghiara, S. Campodonico, V. Bongiorno, *Investigation on a “tentacle-like” corrosion feature on Bronze Age tin-bronze objects*, Applied Physics A, 113(4), 2013, 1039-1047
- G. Ghiara, P. Piccardo, S. Campodonico, M.M. Carnasciali, *Microstructural Features in Corroded Celtic Iron Age Sword Blades*, JOM, 66(5), 2014, 793-801
- P. Grosso, V. Bongiorno, P. Piccardo, L.G. Magnani, *Virtues of Giambologna from Grimaldi Chapel Archaeometrical Characterization*, JOM, 66(5), 2014, 802-807
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- R. Spotorno, P. Piccardo, F. Perrozzi, *Interaction between Crofer 22 APU Current Collector and LSCF Cathode Contacting Layer under Cell Operation*, ECS Transactions, Volume 68, 2015, 1633-1640
- P. Piccardo A. Pecunia, V. Bongiorno, R. Spotorno, Z. Wuillemin, J.P. Ouweltjes, *Aging of Materials at Inlet and Outlet Fuel Manifolds in a SOFC Stack*, ECS Transactions, Volume 68, 2015, 2611-2624
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- V. Bongiorno, P. Grosso, P. Piccardo, L. G. Magnani, and M. M. Carnasciali, *Virtues of Giambologna from Grimaldi Chapel Archaeometric Characterisation Part II: 'Artistic' and Natural Patinas*, JOM 68(8), May 2016, 2222-2232
- R. Spotorno, G. Ghiara, P. Piccardo, *Studio elettrochimico sulla biocorrosione del bronzo: effetto della microstruttura*, La Metallurgia Italiana, 12, 2016, 34-41
- A. Bertei, G. Arcolini, J.P. Ouweltjes, Z. Wuillemin, P. Piccardo, C. Nicolella, *Physically based deconvolution of impedance spectra: interpretation, fitting and validation of a numerical model for lanthanum strontium cobalt ferrite-based solid oxide fuel cells*, Electrochimica Acta 208 (2016) 129–141
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- G. Ghiara, C. Grande, S. Ferrando, P. Piccardo, *The influence of Pseudomonas fluorescens on corrosion products of archaeological tin-bronze analogues*, JOM, 2017, 1-5
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- G. Ghiara, P. Piccardo, V. Bongiorno, C. Geipel, R. Spotorno, *Characterization of Metallic Interconnects Extracted from Solid Oxide Fuel Cell Stacks Operated up to 20,000 h in Real Life Conditions: The Air Side*, Energies 2020, 13, 6487

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- *Networks of trade in raw materials and technological innovations in Prehistory & Protohistory: an archaeometry approach*, Edited by Davide Delfino, Paolo Piccardo, and João Carlos Baptista, Archaeopress Archaeology, 2016
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- V. Bongiorno, J. Vernet, P. Piccardo, *La statuaire funeraire contemporaine du cimitero monumental de Staglieno, Gênes, Italie*, in *Quatre mille ans d'histoire du cuivre*, 2017, p. 299-317