

Europass Curriculum Vitae



Work experience

Dates	Since October 2000
Occupation or position held	Full professor of Materials Science and Technology
Main activities and responsibilities	<ul style="list-style-type: none"> • Professor of Ceramics Science and Technology for Materials Engineering. Professor of Materials Science and Technology for Aerospace Engineering, for Civil Engineering, for Industrial Design, for Materials Engineering, for Architecture. • Scientific responsible of the INSTM (Italian InterUniversity Consortium on Materials Science and Technology) Reference Laboratory LINCE devoted to Technology and Engineering of Ceramic Materials (http://www.instm.it/en/research/excellence_to_the_power_of_15.aspx) • Vice-head of the Dept. Materials Science and Chemical Engineering, Politecnico di Torino, from October 2007 to November 2011. • Head of the Doctorate School di Politecnico di Torino, from November 2011 to March 2012. • From April 2012 to January 2017, Deputy Rector of the Politecnico di Torino (http://www.polito.it/ateneo/organizzazione/organi/prorettore.php?lang=en). Responsible of the Quality Assurance Committee of the University. Responsible of the Committee for enhancing the value of the Institutional cultural heritage.
Name and address of employer	Politecnico di Torino, Dept. of Materials Science and Chemical Engineering (from January 2012 Dept. of Applied Science and Technology DISAT), Corso Duca degli Abruzzi 24, 10129 Torino (Italy)
Type of business or sector	Education /Academic Research
Dates	From November 1998 to September 2000
Occupation or position held	Associate professor of Materials Science and Technology
Name and address of employer	Politecnico di Torino, Dept. of Materials Science and Chemical Engineering, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)
Dates	From June 1990 to October 1998
Occupation or position held	Assistant professor of Materials Science and Technology
Name and address of employer	Politecnico di Torino, Dept. of Materials Science and Chemical Engineering, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)

Education and training

Dates	1987-1990
Title of qualification awarded	European Ph.D. in Materials Processing
Principal subjects/occupational skills covered	Development of new processing routes based on sol-gel techniques for the preparation of ceramic composites
Name and type of organisation providing education and training	Ecole Nationale Supérieure des Mines ENSM, St. Etienne (F) and Institut Nationale Polytechnique INPG de Grenoble (F)

Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level

French

English

Italian

English, French

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C1	C1	C1	C1	C1	
B2	B2	B2	B2	B2	

Organisational skills and competences

- Leader of a research group made of about 15 persons since 2000.
- Responsible of the international scientific relationships of the research group (contacts: INSA Lyon; ENSM St. Etienne; Univ. Limoges; Univ. Stuttgart; CRICB Belgium; EPFL Lausanne; AGH, Krakow; KIT Kyoto, ...) and of many industrial contracts (ENI, NNEurope, Thales Alenia Space, Rhone Poulenc, Exxon, Ford Europe,...).
- Responsible of the Reference Research Centre LINCE of INSTM devoted to Ceramic Materials Technology and Engineering, grouping three Italian Universities, precisely Politecnico di Torino, University of Modena and Reggio Emilia, University of Cagliari. The mission of LINCE is to strengthen the relationships between Academia and Companies in the field of traditional and innovative ceramic materials, by promoting knowledge-based technological innovation concerning processes and /or products.
- Member of the Academic Senatus from Nov. 2011; past member of the Academic Senatus (1993-1997) at Politecnico of Torino. Member of the Board of Governors of local Research Associations (2013-2017).

Technical skills and competences

- Fellow of the European Ceramic Society (Budapest 2017)
- President of the Italian Association AIMAT, Materials Engineering (2017-2012)
- "Marco Polo Prize" Awardee (2017)
- Corresponding member of the Academy of Sciences of Torino (established in 1783, <http://www.accademiadelle scienze.it/en/the-academy>), since 2012.
- Senior Scientist at the Italian Institute of Technology (IIT) – Center of Space Human Robotics (CSHR) (2012—2014).
- Winner of the Award for the Best biannual paper published in the Journal of the European Ceramic Society (2009-2010).
- Member of the Scientific Committee of FEMS Euromat 2015; responsible of the Area "Biomaterials and Healthcare"
- Member of the Scientific Committee in the Symposium "Ceramic and Metal-Based Composites for Harsh Working Conditions" at the First International Conference on Mechanics of Nano, Micro and Macro Composite Structures, Torino (IT), June 18th – 20th 2012.
- Member of the Scientific Committee of several Symposia of CIMTEC Conferences.
- Member of the evaluation Board of the French CNRS Research Labs working on materials science topics, since 2004.
- International member in HCERES Committees for the evaluation of French Universities.
- EC Expert for the H2020 Projects.
- Member of the general Secretary of the European Society EUROSOLID (on solid reactivity and transformation kinetics) from 1995 to 1997.
- Past Chair of the TRS (Thermal reactivity of Solid) Committee in frame of ICTAC (International Confederation for thermal analysis and calorimetry), from 1998 to 2008.
- Member of the editorial board of the International journal ATM (Advances in technology of materials and materials processing Journal), since 1998.
- Scientific responsible of an INSTM Research Team in the frame of the European Integrated Project NanoKer, Structural Ceramic Nanocomposites for Top-end functional application, (European VI FP).
- Scientific responsible of WP1: Nanopowder Engineering in the frame of the 7th FP NMP Project LongLife (2012-2015).
- Involved in applied researches in the field of materials (mainly ceramics, and their composites) for structural, high-temperature, and functional applications, particularly

concerning non-conventional synthesis and characterization of pure and composite ceramic powder, development and characterization of porous ceramics; preparation and characterization of polymer-ceramic composite.

- Speaker of several plenary as well as invited lectures in International Conferences.

Additional information

- Member of the Scientific Council of the Italian Interuniversity Consortium on Materials Science and Technology (INSTM) grouping more than 40 Italian Universities working on Materials Science and Technology, with the role of coordinator of the Thematic Area 1 entitled Advanced mechanics, Building materials and Transportation from 2008 to 2012.
- Member of the Italian Association on Materials Engineering (AIMAT), with the role of Vice-President from 2009 to 2013.

Annexes

Author or co-authors of some National and European patents and of more than 200 papers on International Journals or presented to International Conferences.

List of papers

In International Journals:

- FORNABAIO, MARTA; PALMERO, PAOLA; REVERON, HELEN; LOMBARDI, MARIANGELA; CHEVALIER, JÉRÔME; MONTANARO, LAURA, Biomedical-Grade Composite Ceramics Through a Nanopowder Engineering Approach: A Discussion of Two Successful Case Studies. In: ADVANCED SCIENCE LETTERS, 2017, vol. 23 n. 6, pp. 5970-5973
- VERGA, F.; LOMBARDI, M.; MADDINELLI, G.; MONTANARO, L., Introducing core-shell technology for conformance control, In: OIL & GAS SCIENCE AND TECHNOLOGY, 2017, vol. 72, n.1
- REVERON, H.; FORNABAIO, MARTA; PALMERO, PAOLA; FÜRDERER, T.; ADOLFSSON, E.; LUGHI, V.; BONIFACIO, A.; SERGO, V.; MONTANARO, LAURA; CHEVALIER, J., Towards long lasting zirconia-based composites for dental implants: Transformation induced plasticity and its consequence on ceramic reliability. In: ACTA BIOMATERIALIA, 2017, vol. 48 n. 15, pp. 423-432
- SCHIENLE, S.; AL-AHMAD, A.; KOHAL, R.J.; BERNSMANN, F.; ADOLFSSON, E.; MONTANARO, LAURA; PALMERO, PAOLA; FÜRDERER, T.; CHEVALIER, J.; HELLWIG, E.; KARYGIANNI, L., Microbial adhesion on novel yttria-stabilized tetragonal zirconia (Y-TZP) implant surfaces with nitrogen-doped hydrogenated amorphous carbon (a-C:H:N) coatings. In: CLINICAL ORAL INVESTIGATIONS, 2016, vol. 20 n. 7, pp. 1719-1732.
- PALMERO, P; FORNABAIO, M; MONTANARO, L; REVERON, H; ESNOUF, C; CHEVALIER, J, Towards long lasting zirconia-based composites for dental implants: Part I: Innovative synthesis, microstructural characterization and in-vitro stability. BIOMATERIALS, 2015, vol. 50, p. 38-46.
- FORNABAIO, M; PALMERO, P; TRAVERSO, R; ESNOUF, C; REVERON, H; CHEVALIER, J; MONTANARO, L, Zirconia-based composites for biomedical applications: Role of second phases on composition, microstructure and zirconia transformability. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 2015, vol. 35, p. 4039-4049.
- PALMERO, P; PULCI, G; MARRA, F; VALENTE, T; MONTANARO, L, Al₂O₃/ZrO₂/Y₃Al₅O₁₂ composites: A high-temperature mechanical characterization. MATERIALS, 2015, vol. 8 (2), p.611-624.
- LOMBARDI, M; CACCIOTTI, I; BIANCO, A; MONTANARO, L, RKKP bioactive glass-ceramic material through an aqueous sol-gel process. CERAMICS INTERNATIONAL, 2015, vol. 41, pp. 3371-3380.
- GALLIO, G; MARCUCCIO, G; BONISOLI, E; TORNINCASA, S; PEZZINI, D; UGUES, D; LOMBARDI, M; ROVARINO, D; FINO, P; MONTANARO, L, Study of the interference contribution on the performance of an adhesive bonded press-fitted cylindrical joint. INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, 2014, vol. 53, p. 89-96.
- PALMERO, P; MONTANARO, L; REVERON, H; CHEVALIER, J, Surface Coating of Oxide Powders: A New Synthesis Method to Process Biomedical Grade Nano-Composites. MATERIALS, 2014, vol. 7 n. 7, p. 5012-5037.
- LOMBARDI, M; FINO, P; MONTANARO, L, Influence of ceramic particle features on the thermal behavior of PPO-matrix composites. SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, 2014, vol. 21, pp. 23-28.
- PALMERO, P; KERN, F; SOMMER, F; LOMBARDI, M; GADOW, R; MONTANARO, L, Issues in nanocomposite ceramic engineering: focus on processing and properties of alumina-based composites. JOURNAL OF APPLIED BIOMATERIALS & FUNCTIONAL MATERIALS, 2014, vol. 12 n. 3, p. 113-128.
- CHIOLERIO, A; LOMBARDI, M; GUERRIERO, A; CANAVESE, G; STASSI, S; GAZIA, R; CAUDA, V; MANFREDI, D; CHIODONI, A; VERNA, A; COCUZZA, M; MONTANARO, L; PIRRI, CF, Effect of the fabrication method on the functional properties of BaTiO₃: PVDF nanocomposites. JOURNAL OF MATERIALS SCIENCE, 2013, vol. 48 n. 20, p. 6943-6951.
- NAGLIERI, V; PALMERO, P; MONTANARO, L; CHEVALIER, J, Elaboration of alumina-zirconia composites: Role of the zirconia content on the microstructure and mechanical properties. MATERIALS, 2013, vol. 6 n. 5, p. 2090-2102.
- SANGERMANO, M; LOMBARDI, M; GUERRIERO, A; KORTABERRIA, G; MONDRAGON, I; PIRRI, F; MONTANARO, L, Epoxy - BaTiO₃ light-cured composites as organic capacitor. MACROMOLECULAR MATERIALS AND ENGINEERING, 2013, vol. 298, p. 634-643.
- SPINA, G; BONELLI, B; PALMERO, P; MONTANARO, L, An IR and XPS spectroscopy assesment of the physico-chemical surface properties of alumina-YAG nanopowders. MATERIALS CHEMISTRY AND PHYSICS, 2013, vol. 143, p. 286-295.
- GALLIO, G; LOMBARDI, M; ROVARINO, D; FINO, P; MONTANARO, L, Influence of the mechanical behaviour of different adhesives on an interference-fit cylindrical joint. INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, 2013, vol. 47, p. 63-68.
- NAGLIERI, V; GUTKNECHT, D; GARNIER, V; PALMERO, P; CHEVALIER, J; MONTANARO, L, Optimized Slurries for Spray Drying: Different Approaches to Obtain Homogeneous and Deformable Alumina-Zirconia Granules. MATERIALS, 2013, vol. 6, p. 5382-5397.
- PALMERO, P; BONELLI, B; FANTOZZI, G; SPINA, G; BONNEFONT, G; MONTANARO, L; CHEVALIER, J, Surface and mechanical properties of transparent polycrystalline YAG fabricated by SPS. MATERIALS RESEARCH BULLETIN, 2013, vol. 48 n. 7, p. 2589-2597.
- MONTANARO, L; PALMERO, P; LOMBARDI, M; ESNOUF, C; CHEVALIER, J; CARDINAL, S, Thermal analyses applied to ceramic nanopowders: from synthesis to sintering. A review on transition alumina powder-based materials. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2013, vol. 112 n. 1, p. 437-445.

- PALMERO, P; FANTOZZI, G; LOMELLO, F; BONNEFONT, G; MONTANARO, L, Creep behaviour of alumina/YAG composites prepared by different sintering routes, CERAMICS INTERNATIONAL, 2012, vol. 38, p. 433-441.
- LEHMANN, G; CACCIOTTI, I; PALMERO, P; MONTANARO, L; BIANCO, A; CAMPAGNOLO, L; CAMAIONI, A, Differentiation of osteoblast and osteoclast precursors on pure and silicon-substituted synthesized hydroxyapatites, BIOMEDICAL MATERIALS, 2012, vol. 7, p. 1-14.
- LOMBARDI, M; FINO, P; MALUCELLI, G; MONTANARO, L, Exploring composites based on PPO blend as ablative thermal protection systems - Part I: The role of layered fillers, COMPOSITE STRUCTURES, 2012, vol. 94 n. 3, p. 1067-1074.
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