

CURRICULUM VITAE: Valentina MEDRI**Education**

- **2004:** PhD in Chemical Science, University of Bologna, with the thesis “Production and characterization of structural ceramic composites based on non-oxides”.
- **June 2000:** habilitation at the profession of Chemist, University of Bologna.
- **2000:** Master Degree in Industrial Chemistry, topic “Research and development of materials”, Faculty of Industrial Chemistry, University of Bologna, with the thesis “Production and characterization of powders and dens bulk materials based on TiCN”.

Professional Experience

- **2011-today:** permanent employment as researcher (level III) at CNR-ISTEC following the selection notice CNR n. 364.94 sector code: RA73/3
- **2014-2017:** Head of Laboratory L17 "Processes of consolidation at low temperature" at CNR-ISTEC.
- **2008-2015:** Research Project Leader “Production and characterization of geopolymers and biostructural ceramics” at CNR-ISTEC (SP.P01.033.007, than PM.P02.020.004).
- **2007:** temporary employment as researcher (level III) at CNR-ISTEC following the selection notice ISTEC.073.06.01.02 (art. 23 DPR 171/91), on the topic “Thermo-mechanical properties and oxidation-corrosion resistance of structural ceramics”.
- **2006:** research fellow at ISTEC-CNR in the frame of the contract U.E NOVIGLAS CRAFT PROJECT (COOP-CT-2004-512318) “Innovative high power laser system based on polycrystalline Nd:YAG for marking, engraving, cutting and microdrilling metal surfaces”.
- **2005:** research fellow at ISTEC-CNR on the topic “Correlation between microstructure and properties in composites with high mechanical workability, study of behavior at high temperatures and oxidizing environments”.
- **2004:** research fellow at ISTEC-CNR on the topic “Fabrication and characterization of structural ceramics for ultra-high temperatures”.
- **2001- 2003:** PhD student of Chemical Science (University of Bologna) at ISTEC-CNR with the topic “Production and characterization of structural ceramic composites based on non-oxides”.
- **January - June 2001:** research fellow at SPCTS, University of Limoges (France), in the frame of the Research Training Network (contract HPRN-CT-2000-00044) “Corrosion of ceramic matrix composites – mechanisms, kinetics, life time prediction and the development of an intelligent material”.
- **October - December 2000:** temporary employment at IRTEC – CNR of Faenza for “Preparation of dense materials from commercial or experimental powders, microstructural characterization of powders, semi-finished and dense materials”.
- **April - September 2000:** Stage on “Production of non-oxide advanced ceramics, samples preparation for various characterizations and for joints, microstructural characterizations” at IRTEC – CNR of Faenza, as a graduate of UC Chemical, Radiochemical and Metallurgical Sciences of the Faculty of Industrial Chemistry, University of Bologna.

Role in ISTEC

- **2019-today:** Research Project leader DCM.AD006.134.001 : FIREMAT- FIRE resistant MATerials & composites
- **2018-today:** Referent of the Department of Chemical Sciences and Technology of Materials for the thematic group "qualification of skills and human resources" of the Chemistry Observatory of the Municipality of Ravenna.
- **2016-today:** Research Project leader DCM.AD002.343 “EEE-CFCC: Economically and ecologically sustainable Evolution of Ceramic matrix Fibrorinforced Composite in complex form”.
- **2016-today:** Research Project leader “High tech ceramics for severe environments: research, development and technology transfer” DCM.AD002.011.
- **2016-2020:** Member representing Researchers and Technicians of the Council of the Institute (2016-2020).
- **2011- today:** Coordinator of activities on sections dedicated to advanced ceramics at the International Museum of Ceramics in Faenza, Collaboration Agreement ISTEC CNR/MIC prot. CNR-ISTEC n. 647 date 12.05.11

Scientific assignments	<ul style="list-style-type: none"> ▪ Since 2014. Evaluator of Projects of the Ministry of the Economic Development - Sustainable Growth Fund (MISE-FCS) for the panel “Advanced Manufacture and Processing”
Working group	<ul style="list-style-type: none"> ▪ Founding Member of the Geopolymer Work Group (Baggiovara, November 2008) of the Italian Ceramic Society
Training activity	<ul style="list-style-type: none"> ▪ January-June 2019: PON 10.2.5A-FSEPON-EM-2017-7 Ceram-lab, Liceo Torricelli – Ballardini, Faenza. Tutor of the course (90 h) “Ceramics Technology”. ▪ 2007-2016: Lecturer at the PhD course in Chemistry, University of Bologna. ▪ Co-relator of BS, MS and PhD theses on Geopolymers and Ceramics Science
Specific skills	<ul style="list-style-type: none"> ▪ Geopolymers, chemically bonded ceramics (CBCS) ▪ Production and characterization of advanced ceramic materials ▪ Silicon nitride based structural ceramics and composites. ▪ UHTCs, ceramic for ultra-high temperature ($T \geq 1600$ ° C): massive and porous. ▪ Ceramic-metal composites (cermets and hard metals).
Industrial contracts	<ul style="list-style-type: none"> ▪ 2007-today: Scientific research contractor for a total budget over €800,000.00
Projects in Public Funding	<ul style="list-style-type: none"> ▪ 2019-2021: Research Unit Coordinator in Regional Project "FireMAT", POR-FESR 2014-2020 Emilia Romagna Region. ▪ 2016- 2018: Research Unit Coordinator in Regional Project "EEE-CFCC", POR-FESR 2014-2020 Emilia Romagna Region. ▪ 2016- 2018 Regional Project "Hi Performance, Sustainability and Cost Reduction in Machine Tool Industry", POR-FESR 2014-2020 Emilia Romagna Region. ▪ 2016-March 2018 Regional Project "Integration of Reforming Thermo-Chemistry Processes on Biomass Disposal and Product Valorization, POR-FESR 2014-2020 Emilia Romagna Region. ▪ 2016 IT-US Great Relevance Project "Ultralight Ceramic Composites Made by an Additive Manufacturing Process with Ceramic Precursors. ▪ Head of operative unit in the Flag Project "RITMARE-Italian Search for sea" of the National Research Council of Italy. ▪ Scientific head of industrial research contracts in the frame of Project PON01_00375 "PANDION -Study of innovative functional Space-subsystems " ▪ Project PON 01_00761 "SOLTESS - Thermodynamic Solar with Solid Accumulation " ▪ Scientific head of a line of activity in the Project "MATEC- New materials and new technologies for internal combustion co-generator prototype", funded by the Ministry of Economic Development. ▪ Project CNR-MISE BioTTasa-Technology Transfer and integration of Biotechnology for Health, Food and Environment ▪ Technopole MITAI "Innovative Materials and Technologies for Industrial Applications", Faenza Project "Dedalo" funded by the Lombardy region (Italy) with for the development, production and characterization of components based on UHTC's. ▪ Materials Laboratory for Mechanical Design "MATMEC", High Technology Network of Emilia Romagna region (Italy). ▪ NOVIGLAS CRAFT PROJECT (COOP-CT-2004-512318) “Innovative high power laser system based on polycrystalline Nd:YAG for marking, engraving, cutting and microdrilling metal surfaces”. ▪ Research Training Network (HPRN-CT-2000-00044) “Corrosion of ceramic matrix composites – mechanisms, kinetics, life time prediction and the development of an intelligent material”.
Patents	<ul style="list-style-type: none"> ▪ Domanda Italiana n 102019000002049 “Sistema per lo smorzamento delle vibrazioni meccaniche” del 13/02/2019. Inventori: A. Casagrande, G. Catania, E. Landi, V. Medri, E. Papa. ▪ WO2018179019 “Flame-resistant structural composite material” del 04/10/2018. PCT/IT2018/050054 “Materiale composito strutturale resistente alla fiamma diretta” del 28/03/2018. Priorità Domanda Italiana n. 102017000033972 “Materiale composito strutturale ad elevata conducibilità termica resistente alla fiamma passante” e n. 102017000033960 “Materiale composito strutturale a bassa conducibilità termica resistente

alla fiamma passante” del 28/03/2017. Inventori: C. Bordignon, E. Landi, **V. Medri**, A. Natali Murri. Richiedente: C. Bordignon.

- WO2017/013581 A “Alternating potential gas separation process with capacitive membranes, and relevant plant” del 26/01/2017. PCT/IB2016/054285 del 19/07/2016. Priorità Domanda Italiana n. 102015000037715 “Processo ed impianto a potenziale alternato per separazione di gas con membrane capacitive” del 23/07/2015. Inventori F. Doghieri, G. C. Sarti, M. Minelli, E. Landi, **V. Medri**, F. Miccio.
- US1607893 (28/02/19). WO/2017/130134 Composite material based on C/SiC fibers with ultra refractory, high tenacity and ablation resistant matrix (EU,USA, Cina)(03/08/2017). PCT/IB2017/050418 “Materiali compositi a base di fibre C/SiC con matrice ultrarefrattaria ad alta tenacità e resistenza all’ablazione” del 26/01/2017. Priorità Domanda Italiana n.102016000008310 del 27/01/2016. Inventori: **V. Medri**, D. Sciti; L. Zoli.
- MI2014U000387 Brevetto per modello di utilità “Pannelli compositi” del 15/12/2014. Inventori: E. Landi, **V. Medri**, A. Natali Murri.
- MI2012A002111 “Assorbitore di CO₂ comprendente idrossiapatite porosa” del 11/12/2012. Inventori: E. Landi, **V. Medri**, F. Miccio, A. Sanson.
- MI2012A000583 “Materiale ceramico per ultra alte temperature (UHTC) a porosità gerarchica, e processo per la sua preparazione” del 11/04/2012. Inventori: E. Landi, **V. Medri**, D. Sciti

Conferences organization

- Member of International Advisory Board of Symposium CH "Porous Ceramics for Environmental Protection, Energy-related Technologies and Advanced Industrial Cycles" CIMTEC 2020, Montecatini Terme, Italy, June 2020.
- Organizer of the ECerS satellite event: “Geopolymers and Alkali Activated Materials”- June 20th and 21th 2019, Politecnico di Torino, Turin, Italy.
- Organizer and Chair of the III European Geopolymer Network, Faenza, 30 November 2018.
- Member of International Advisory Board of Symposium CI "Porous Ceramics for Environmental Protection, Energy-related Technologies and Advanced Industrial Cycles", CIMTEC 2018, Perugia, Italy, June 2018
- Chair and organizer of Workshop “How to exploit the porosity of geopolymers?”, Faenza, 2 October 2014.
- Chair and organizer of “Seconda Giornata di Studio, I Geopolimeri: dalla preparazione all’applicazione”, Faenza, 9 October 2009.

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Exhibitions organization

- Member of the organizing committee of the exhibition “Materializzando”, Palazzo delle Esposizioni, 10-24 October 2019, Faenza
- A. Lega, V. Medri, Bioceramic - Permanent section at the International Museum of Ceramics in Faenza, October 2013.
- A. Lega, V. Medri, Exhibition on Advanced Ceramic - Bioceramic section at the International Museum of Ceramics in Faenza, 17 May 2011- 2013.

Editor

- Workshop Proceedings Book of Abstracts "How to exploit the porosity of geopolymers?", Faenza, 2nd October 2014, V. Medri, A. Natali Murri, A. Vaccari (Eds), Lulu.com, Trezzano sul Naviglio (Italia), 2014, 1-25.
- Geopolymers: a new and smart way for a sustainable development. Special Issue on Applied Clay Science. A. Vaccari, P. Benito, C. Leonelli and V. Medri (Eds.), 73 (2013), 1-110.
- Bioceramiche, Libro di mostra, a Cura di A.M. Lega e V. Medri, Museo Internazionale delle Ceramiche di Faenza e CNR-ISTEC, Faenza. maggio 2011.

Scientific papers 2009-2019

*corresponding author

- F. Miccio, A. Natali Murri, V. Medri, E. Landi, Utilization of Fireclay for Preventing Fluidized Bed Agglomeration during Biomass Thermochemical Processing, Industrial & Engineering Chemistry Research (2019); <https://doi.org/10.1021/acs.iecr.9b06253> IF2018=3.375
- Medri V*, Papa E, Lizion J, Landi E, Metakaolin-based geopolymer beads: Production methods and characterization, Journal of Cleaner Production (2019), doi: <https://doi.org/10.1016/j.jclepro.2019.118844>. IF 2018=6.395
- E. Papa, V. Medri*, C. Paillard, B. Contri, A. Natali Murri, A. Vaccari, E. Landi, Geopolymer-hydroxalite composites for CO₂ capture, Journal of Cleaner Production 237 (2019) 117738, IF 2018=6.395

- V Medri*, F Servadei, R Bendoni, A Natali Murri, A Vaccari, E Landi, Nano-to-macroporous TiO₂ (anatase) by Cold Sintering Process, *Journal of the European Ceramic Society* 39 [7] (2019) 2453-2462, IF2018=4.029.
- E. Papa, V. Medri, A. Natali Murri, F. Miccio, E. Landi, Ice-templated geopolymer—Fe/Mn oxide composites conceived as oxygen carriers, *Ceramics* 2 (2019) 148–160.
- R. Bendoni, F. Miccio, V. Medri, P. Benito, A. Vaccari, E. Landi, Geopolymer composites for the catalytic cleaning of tar in biomass-derived gas, *Renewable Energy* 131 (2019) 1107-1116, IF2018=5.439
- F Miccio, A Natali Murri, V Medri, E Landi, Agglomeration Phenomena During Fluidized Bed Combustion/Gasification of Biomass Fuels, *Chemical Engineering Transactions* 74 (2019) 91-96
- M Minelli, F Doghieri, F Miccio, E Landi, V Medri, New Hybrid Unit Operation for Gas Separation Membranes Application, *Chemical Engineering Transactions* 74 (2019) 925-930.
- E Papa, V Medri*, A Natali Murri, L Laghi, G De Aloysio, S Bandini, E Landi, Characterization of alkali bonded expanded perlite, *Construction and Building Materials* 191 (2018) 1139–1147. doi:10.1016/j.conbuildmat.2018.10.086, IF2018=4.046.
- F Miccio, R Bendoni, A Piancastelli, V Medri, E Landi, Geopolymer composites for chemical looping combustion, *Fuel* (2018) 436-442, IF2018=5.128
- M Minelli, E Papa, V Medri, F Miccio, P Benito, F Doghieri, E Landi, Characterization of novel geopolymer - zeolite composites as solid adsorbents for CO₂ capture, *Chemical Engineering Journal* 341 (2018) 505-515, IF 2018= 8.355
- R. Bendoni, F. Miccio, V. Medri, E. Landi, Chemical looping combustion using geopolymer-based oxygen carriers, *Chemical Engineering Journal* 341 (2018) 187–197, doi:10.1016/j.cej.2018.02.018. IF 2018= 8.355
- E. Papa, V. Medri*, S. Amari, J. Manaud, P. Benito, A. Vaccari, E. Landi, Zeolite-geopolymer composite materials: Production and characterization, *Journal of Cleaner Production* 171 (2018) 76-84. IF 2018=6.395
- P. Fabbri, G. Magnani, F. Mazzanti, C. Mingazzini, M. Scafè, E. Landi, V. Medri, A. Natali Murri, S. Bandini, G. De Aloysio, L. Laghi, E. D'Angelo, L. Giorgini, G. Zattini, D. Caretti, D. Nanni, P. Bernardelli, Compositi a matrice ceramica, ottenuti da prepreg, per tubi di scarico e paracalore, *Compositi magazine*, 47 (2018) 38-45.
- E. Landi, V. Medri, A. Natali Murri; S. Bandini, G. De Aloysio, L. Laghi; E. D'Angelo, L. Giorgini, G. Zattini; P. Bernardelli; P. Fabbri, C. Mingazzini, M. Scafè, F. Bezzi, *Econerre* (2018) <https://www.econerre.it/innovazione/ricerca-industriale/compositi-ceramici-nuova-frontiera-edilizia-trasporti/>
- L. Giorgini, E. D'angelo, G. Zattini, L. Laghi, S. Bandini, G. D'Aloysio, V. Medri, E. Landi, A. Natali Murri, C. Mingazzini, P. Fabbri, F. Bezzi, F. Mazzanti, M. Scafè, P. Bernardelli, Fire resistant low cost inorganic ceramic composites, *Composite solutions*, 12[1] (2018) 12-15.
- A Natali Murri, V Medri, E Papa, L Laghi, C Mingazzini, E Landi, Porous Geopolymer Insulating Core from a Metakaolin/Biomass Ash Composite, *Environments* 4 (4) (2017) 86.
- A. Natali Murri, V. Medri, E. Landi, Production and thermo-mechanical characterization of wool-geopolymer composites, *Journal of the American Ceramic Society* 100 (2017) 2822–2831, IF 2017= 2.956
- E Papa, V Medri, D Kpogbemabou, V Morinière, J Laumonier, A Vaccari, S Rossignol, Porosity and insulating properties of silica-fume based foams, *Energy and Buildings* 131 (2016) 223–232. IF 2016=4.067
- M. Minelli, V. Medri, E. Papa, F. Miccio, E. Landi, F. Doghieri, Geopolymers as solid adsorbent for CO₂ capture, *Chemical Engineering Science* 148 (2016) 267–274. IF 2016= 2.895
- E. Papa, V. Medri, P. Benito, A. Vaccari, S. Bugani, J. Jaroszewicz, E. Landi, Insights into the macroporosity of freeze-cast hierarchical geopolymers, *RCS Advances* 6 (2016) 24635-24644. IF 2016=3.108
- E. Chicardi, F.J. Gotor, V. Medri, S. Guicciardi, S. Lascano, J.M. Córdoba, Hot-Pressing of (Ti, Mt)(C, N)-Co-Mo₂C (Mt=Ta, Nb) powdered cermets synthesized by a mechanically induced self-sustaining reaction, *Chemical Engineering Journal* 292 (2016) 51–61. IF 2016= 6.216
- E. Sani, E. Landi, D. Sciti, V. Medri, Optical properties of ZrB₂ porous architectures, *Solar Energy Materials & Solar Cells* 144 (2016) 608–615. IF 2016=4.784
- V. Medri*, E. Papa, A. Natali Murri, E. Landi, P. Benito, A. Vaccari, La porosità nei geopolimeri, *La Chimica & l'Industria*, Anno XCVIII n°1, gennaio/febbraio 2016, 16-18
- L. Zoli, V. Medri, C. Melandri, D. Sciti, Continuous SiC fibers-ZrB₂ composites, *Journal of the European Ceramic Society* 35 [16] (2015) 4371–4376. IF 2015=2.933

- A. Natali Murri, V. Medri, A. Piancastelli, A. Vaccari, E. Landi, Production and characterization of geopolymer blocks based on hydroxyapatite rich biomass ashes, *Ceramics International* 41 (2015) 12811–12822. IF 2015= 2.758
- V. Medri*, E. Papa, M. Mazzocchi, L. Laghi, M. Morganti, J. Francisconi, E. Landi, Production and characterization of lightweight vermiculite/geopolymer-based panels, *Materials and Design* 85 (2015) 266–274. IF 2015= 3.997
- D. Sciti, A. Natali Murri, V. Medri, L. Zoli, Continuous C fibres-ZrB₂ composites with a porous matrix, *Materials and Design* 85 (2015) 127–134. IF 2015= 3.997
- E. Papa, V. Medri*, P. Benito, A. Vaccari, S. Bugani, J. Jaroszewicz, W. Swieszkowski, E. Landi, Synthesis of porous hierarchical geopolymer monoliths by ice-templating, *Microporous and Mesoporous Materials* 215 (2015) 206–214. IF 2015= 3.349
- V. Medri*, D. Sciti, D. Dalle Fabbriche, A. Piancastelli, E. Landi, Ice templating of ZrB₂-SiC systems, *Ceramics International* 41(2015) 10324–10330. IF 2015= 2.758
- A. Natali Murri, V. Medri, A. Ruffini, E. Papa, E. Landi, Study of the chemical activation of hydroxyapatite rich ashes as raw materials for geopolymers, *Ceramics International* 41(2015) 9734–9744. IF 2015= 2.758
- E. Chicardi, Y. Torres, M.J. Sayagués, V. Medri, C. Melandri, J.M. Córdoba, F.J. Gotor, Toughening of complete solid solution cermets by graphite addition, *Chemical Engineering Journal* 267 (2015) 297–305. IF 2015= 5.310
- L.M. González, F.J. Gotor, R. Bermejo, E. Chicardi, J.M. Córdoba, V. Medri, D. Dalle Fabbriche, Y. Torres, Diseño y fabricación de laminados tipo Ti(C,N)-Co/WC-Co con un potencial equilibrio de propiedades en servicio, *Anales de Mecánica de la Fractura* 32 (2015) 279–284.
- E Chicardi, Y Torres, MJ Sayagués, V Medri, C Melandri, JM Córdoba, FJ Gotor, Aumento de la tenacidad de fractura en cermets basados en carbonitruro de titanio mediante la adición de grafito, *Anales de Mecánica de la Fractura* 32 (2015) 273–278.
- D. Sciti, L. Pienti, A. Natali Murri, E. Landi, V. Medri, L. Zoli, From random chopped to oriented continuous SiC fibers-ZrB₂ composites, *Materials and Design* 63 (2014) 464–470. IF 2014= 3.501.
- F.J. Gotor, R. Bermejo, J.M. Córdoba, E. Chicardi, V. Medri, D. Dalle Fabbriche, Y. Torres, Processing and characterisation of cermet/hardmetal laminates with strong interfaces, *Materials and Design* 58 (2014) 226–233. IF 2014= 3.501, IF 2015= 3.997.
- V. Medri*, S. Martelli, E.Landi, L. Esposito, Alkali inorganic binders for the production of fibre based foams, *Ceramics International* 40 (2014) 10131–10136. IF 2014= 2.605- IF 2015= 2.758
- E Papa, V Medri*, E Landi, B Ballarin, F Miccio, Production and characterization of geopolymers based on mixed compositions of metakaolin and coal ashes, *Materials & Design* 56 (2014) 409–415. IF 2014= 3.501
- V. Medri, E. Landi, Recycling of porcelain stoneware scraps in alkali bonded ceramic composites, *Ceramics International* 40, 1 PART A (2014) 307–315. IF 2014= 2.605
- A. Natali Murri, E. Papa, V. Medri, E. Landi, Design of wool-geopolymer pots, *Ceramic Engineering and Science Proceedings* 35[8] (2014) 79–86.
- F Miccio, V Medri, E Papa, A. Natali Murri, E Landi, Geopolymerization as Effective Measure for Reducing Risks during Coal Ashes Handling, Storage and Disposal, *Chemical Engineering Transactions* 36 (2014) 133–138.
- J. M. Córdoba, E. Chicardi, R. Poyato, F. J. Gotor, V. Medri, S. Guicciardi, C. Melandri, Spark plasma sintering of Ti_xTa_{1-x}C_{0.5}N_{0.5}-based cermets: Effects of processing conditions on chemistry, microstructure and mechanical properties, *Chemical Engineering Journal* 230 (2013) 558–566. IF 2013= 4.058.
- V. Medri, E. Papa, E. Landi, Behaviour of alkali bonded silicon carbide foams in modified synthetic body fluid, *Materials Letters* 106 (2013) 377–380. IF 2013= 2.269
- E. Landi, J. Uggeri, V. Medri, S. Guizzardi, Sr, Mg cosubstituted HA porous macro-granules: Potentialities as resorbable bone filler with antiosteoporotic functions, *Journal of Biomedical Materials Research - Part A* 101 A (9) (2013) 2481–2490. IF 2013= 2.841
- V. Medri*, E. Landi, E. Papa, J. Dedecek, P. Klein, P. Benito, A. Vaccari, Effect of metallic Si addition on polymerization degree of in situ foamed alkali- aluminosilicates, *Ceramics International*, 39 (7) (2013) 7657–7668. IF 2013= 2.086.
- E. Landi, D. Sciti, C. Melandri, V. Medri, Ice templating of ZrB₂ porous architectures, *Journal of the European Ceramic Society* 33 (2013) 1599–1607. IF 2013= 2.307
- Landi, E., Medri, V., Papa, E., Dedecek, J., Klein, P., Benito, P., Vaccari, A. Alkali-bonded ceramics with

- hierarchical tailored porosity, *Applied Clay Science*, 73 (2013) 56–64. IF 2013= 2.703.
- V. Medri*, A. Ruffini, Alkali-bonded SiC based foams, *Journal of the European Ceramic Society* 32 (2012) 1907-1913. IF 2012= 2.360
 - V. Medri*, A. Ruffini, The influence of process parameters on in situ inorganic foaming of alkali-bonded SiC based foams, *Ceramic International* 38 (2012) 3351–3359. IF 2012= 1.789.
 - V. Medri*, P. Pinasco, A. Sanson, E. Roncari, S. Guicciardi, A. Bellosi, ZrB₂-Based Laminates Produced by Tape Casting, *International Journal of Applied Ceramic Technology*, 9 [2] (2012) 349–357. IF 2012= 1.153
 - D. Sciti, L. Silvestroni, V. Medri, S. Guicciardi, Pressureless sintered in situ toughened ZrB₂-SiC platelets ceramics, *Journal of the European Ceramic Society* 31 (2011) 2145–2153. IF 2011= 2.353.
 - V. Medri*, S. Fabbri, A. Ruffini, J. Dedecek, A. Vaccari, SiC-based refractory paints prepared with alkali aluminosilicate binders. *Journal of the European Ceramic Society* 31 (2011) 2155–2165. IF 2011= 2.353.
 - V. Medri*, M. Mazzocchi, A. Bellosi, ZrB₂-based sponges and lightweight devices, *International Journal of Applied Ceramic Technology* 8 [4] (2011) 815–823. IF 2011= 1.384
 - V. Medri*, C. Capiani, A. Bellosi, Properties of slip-cast and pressureless sintered ZrB₂-SiC composites, *International Journal of Applied Ceramic Technology* 8 [2] (2011) 351–359. IF 2011= 1.384
 - V. Medri*, M. Mazzocchi, A. Bellosi, Doped Calcium-Aluminium-Phosphate Cements for biomedical applications, *Journal of Materials Science: Materials in Medicine* 22 (2011) 229-236. IF 2011= 2.316
 - V. Medri*, S. Fabbri, J. Dedecek, Z. Sobalik, Z. Tvaruzkova, A. Vaccari, Role of the morphology and the dehydroxylation of metakaolins on geopolymerization, *Applied Clay Sciences* 50 (2010) 538–545. IF 2010= 2.303
 - D. Sciti, V. Medri, L. Silvestroni, Oxidation behaviour of HfB₂-15vol% TaSi₂ at intermediate and high temperatures, *Scripta Materialia*, 63 (2010) 601–604. IF 2010= 2.820
 - V. Medri*, C. Capiani, D. Gardini, Slip Casting of ZrB₂-SiC Composite Aqueous Suspensions, *Advanced Engineering Materials* 12 (2010) 210-215. IF 2010= 1.746.
 - C. Leonelli, E. Kamseu, V. Medri, S. Fabbri, Materie prime di origine naturale nel processo di geopolimerizzazione, *Ceramica Informazione*, Luglio-Agosto 489 2010, 305-310.
 - V. Medri*, Applicazione dei geopolimeri come materiali composite coibentanti e refrattari, *Ceramica Informazione –Speciale Cerasaie 2009*, 83-86.
 - V. Medri*, Geopolimeri: “Ceramiche” per uno sviluppo sostenibile, *L’Industria del Laterizio*, 115 gennaio-febbraio 2009, 48-53.
 - T. Plachky, J. Krestan, M. Korenko, V. Medri, L. Lences, P. Sajgalik, Corrosion and oxidation behaviour of beta-SiAlON ceramics via different processing route, *Journal of the Ceramic Society of Japan* 117 (2009) 482-488. IF 2009= 0.862

Book chapters
2009-2019
(corresponding author)

- V. Medri, E. Landi, A. Bellosi, Chapter 7 Non-Oxide Ceramics, in: *Materials for Joint Arthroplasty - Biotribology of Potential Bearings*, R. Sonntag, J. P. Kretzer (Eds.), Imperial College Press, London, 2016, pp. 183-222.
- D. Sciti, L. Silvestroni, V. Medri, F. Monteverde, Chapter 6 Sintering and densification of ultra-high temperature ceramics. In: *Ultra-High Temperature Ceramics: Materials for Extreme Environment Applications*, William G. Fahrenholtz, Eric J. Wuchina, William E. Lee, and Yanchun Zhou (Eds.), Wiley, Inc. (2014), pp. 112-143.
- V. Medri, Capitolo 2 Materie Prime, in: *Geopolimeri Polimeri Inorganici Chimicamente Attivati*, Seconda Edizione, Lulu.com, 2014, pp. 23-44, ISBN 9781291639650
- V. Medri, Capitolo 7 Materiali Compositi A Base Geopolimerica, in: *Geopolimeri Polimeri Inorganici Chimicamente Attivati*, Seconda Edizione, Lulu.com, 2014, pp. 149-168, ISBN 9781291639650.
- V. Medri, D. Sciti, E. Landi, Chapter 8 Production of UHTC Complex Shapes and Architectures. In: *MAX Phases and Ultra-High Temperature Ceramics for Extreme Environments*; I. M. Low, Y. Sakka, C. F. Hu (Eds.), IGI Global (2013), pp.246-272.
- A. Bellosi, S. Guicciardi, V. Medri, F. Monteverde, D. Sciti, L. Silvestroni, Processing and Properties of Ultra-Refractory Composites Based on Zr- and Hf-Borides: State of the Art and Perspectives. In: *Boron Rich Solids. Sensors, Ultra High Temperature Ceramics, Thermoelectrics, Armor*; Series: NATO Science for Peace and Security Series B: Physics and Biophysics; N. Orlovskaya, M. Lugovy (Eds.), Springer, 2011,

Curriculum Vitae of Valentina Medri

pp. 147-160.

- V. Medri, Capitolo 2 Materie Prime, in: Geopolimeri Polimeri Inorganici Chimicamente Attivati, Prima Edizione, Lulu.com, 2011, pp. 23-42, ISBN 987-1-4477-1913-7.
 - V. Medri, Capitolo 6 Materiali compositi a base geopolimerica, in: Geopolimeri Polimeri Inorganici Chimicamente Attivati, Prima Edizione, Lulu.com, 2011, pp. 105-122, ISBN 987-1-4477-1913-7.
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Quanto dichiarato nel presente curriculum vitae corrisponde al vero ai sensi degli artt. 46 e 47 del DPR 445/2000

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