



Hindex 29

CURRICULUM VITAE: CRISTINA SILIGARDI



CONTACTS DETAILS

Name

Cristina Siligardi

<https://orcid.org/0000-0003-1642-832X>

Scopus: papers 182, citations 2990 H-index 29

Work Address

Department of Engineering "Enzo Ferrari", DIF, 41125, MODENA, ITALY

E-mail

cristina.siligardi@unimore.it

Nationality

Italian

Birth date (Place)

29TH APRIL 1967 (MODENA, ITALY)

WORK EXPERIENCE

2020-

Full Professor- Department of Engineering "Enzo Ferrari" current position

2019- 2006

Associate Professor- Department of Engineering "Enzo Ferrari" DIF, University of Modena and Reggio Emilia

2000-2006

Assistant professor - Department of Engineering "Enzo Ferrari" DIF, University of Modena and Reggio Emilia

1996-2000

Assistant Technician- Department of Chemistry- University of Modena and Reggio Emilia

1993-1996

PhD PROGRAM

1992-1993

Colorobbia Italia SpA (ex- Bitossi) grant devoted to the study of glass-ceramics materials- 1 year
PhD

Academic courses

"Instrumental analysis of materials" Materials Engineering Course

"Science and technology of ceramics C" Second Level Materials Engineering Course 6 ECTS

2000-present "Science and technology of glasses with laboratory, Second Level Materials Engineering Course 6ECTS

2010-present "Applied chemistry to materials", first level Civil Engineering Course 9 ECTS

2017-present "Science and technology of building materials" Second level Civil Engineering Course 3 ECTS

2018-present "Smart glasses" Second level Materials and Nanotechnology course, University of Pisa, 1 ECTS

2019-present "Science and Engineering of ceramic process" 9 ECTS

Expertise:

Manager of glass technology. Design, preparation and characterization of glass, glass ceramics, frits, glaze, enamel, raw materials, traditional ceramics to obtain functional coatings and materials.

Aims of the position in DIEF:

Writing projects, research activities (bibliographic analysis, strategy definition, material preparation, characterisation by using several experimental techniques, properties optimisation); people selection and management (students, PhD students, post-PhD, employees); account executive, interface with other researchers; writing papers/reports and quotations for activities with private industries.

Waste Management Coordinator for DIEF

- | | |
|-----------|---|
| 2016-2108 | <i>Coordinator for DIEF, " Terza Missione"</i> |
| 2014-2016 | <i>Component of "Commissione Paritetica"</i> |
| 2004-2012 | Coordinator for international Relations and Erasmus project |

EDUCATION

- | | |
|------|--|
| 1996 | <i>PhD in Materials Engineering, University of Modena</i> |
| 1991 | <i>Academic Degree in Chemistry cum laude, University of Modena</i> |
| 1986 | Surveyor Diploma in Chemistry, ITP. Enrico Fermi, Modena |

Complementary education

1991 Visiting student at Institute for Glass Science and Engineering, NYS College of ceramics, Alfred University, USA

1995 Visiting student at Materials Research Laboratory, Penn State, USA
Visiting student at Department of Electrical and Electronic Engineering, Nottingham University UK
Visiting student at CSIC, Madrid, Spain

2019 Visiting professor COE COLLEGE (IOWA, USA)

BOOK CHAPTERS

"Erbium compound, production and applications" Emily K. Byrne. Nova Science Publishers, 2011

"Thermally stable and flame retardant polymer nanocomposites" V. Mittal, Cambridge University Press. 2011

PEER REVIEWED PAPERS

See attached

- EG. Moraes, M. Bigi, NP Stochero, S. Arcaro, C. Siligardi, A.P. Noaves de Oliveira, "Vitrocrystalline foams produced with EPS as pore former: processing and characterization", Process Safety and Environmental protection 121 (2019) 12-19.
- D. Settembre Blundo, F. Enrique García-Muñia, M. Pini, Lucrezia Volpi, C. Siligardi, A. M. Ferrari, "Sustainability as source of competitive advantages in mature sectors: The case of Ceramic District of Sassuolo (Italy)", Smart and Sustainable Built Environment February (2019) Doi 1-28 10.1108/SASBE-07-2018-0038.
- M. C. Ariza-Tarazona, J. F. Villarreal-Chiu, V. Barbieri, C. Siligardi, E. I. Cedillo-González, "New strategy for microplastic degradation: Green photocatalysis using a protein-based porous N-TiO₂ semiconductor", Ceramics International, 45, (2019), 9618-24.
- C. Signorini, A. Sola, A. Nobili, C. Siligardi, "Lime-cement textile reinforced mortar (TRM) with modified interphase", Journal of Applied Biomaterials & Functional Materials, (2019) 1-9.
- L. Sangiacomo, EG. Moraes, NP. Stochero, S. Arcaro, A. Lenzi, R. Barbosa, C. Siligardi, A.P. Noaves de Oliveira, "Innovative thermal and acoustic insulation foam by using recycled ceramic shell and expandable styrofoam (EPS) wastes", Waste Management Volume 89, (2019) 336-344.
- E. Zerazion, M. Pini, C. Mugoni, C. Siligardi, P. Veronesi, A.M. Ferrari, "E-LCA of two microwave absorbers obtained from slags of copper primary production", Waste and Biomass Valorization, 10, (2019) 733-745.
- Mohaddes Khorassani, S., Siligardi, C., Mugoni, C., Pini M., Cappucci, G.M., Ferrari, A.M. "Life cycle assessment of a ceramic glaze containing copper slags and its application on ceramic tile" International Journal of Applied Ceramic Technology 17(1), (2020) 42-54
- Mugoni, C., Rosa, R., Remigio, V.A., Ferrari, A.M., Siligardi, C. "Opportune inward waste materials toward a zero waste ceramic slabs production in a circular economy perspective" International Journal of Applied Ceramic Technology 17(1), (2020), 32-41
- E. Truzzi, T.L. Nascimento, V. Iannuccelli, V., Costantino L., Lima E.M., Leo E., Siligardi C., Gualtieri, M.L., Maretti, E. "In vivo biodistribution of respirable solid lipid nanoparticles surface-decorated with a mannose-based surfactant: A promising tool

- for pulmonary tuberculosis treatment?" *Nanomaterials* 10 (3) (2020), 568
- Cedillo-González, E.I., Hernández-López, J.M., Ruiz-Valdés, J.J., Barbieri, V., Siligardi, C. "Self-cleaning TiO₂ coatings for building materials: The influence of morphology and humidity in the stain removal performance" *Construction and Building Materials* 237, (2020), 117692
 - Barbieri, V., Lassinantti Gualtieri, M., Manfredini, T., Siligardi, C. "Hydration kinetics and microstructural development of a magnesium oxysulfate cement modified by macromolecules" *Construction and Building Materials* 248, (2020), 118624
 - L. McDonald, C. Siligardi, M. Vacchi, M. Zieser, M. Affatigato "Tellurium vanadate glasses: V⁴⁺ colorimetric measure and its effect on conductivity" *Frontiers in Materials*, volume 7, 13, 2020, 103
 - B.E. Llorente-Garcia, J.M. Hernandez-Lopez, A.A. Zaldivar-Cadena, C. Siligardi, E.I. Cedillo-Gonzalez "First insight into photocatalytic degradation of HDPE and LDPE microplastics by a mesoporous N-TiO₂ coating: effect of size and shape microplastics", *Coatings*, 10 (7) 2020, 658
 - M.C. Ariza-Tarazona, J.F. Villareal-Chiu, J.M. Hernandez-Lopez, C. Siligardi, E.I. Cedillo-Gonzalez "Microplastic pollution reduction by carbon and nitrogen-doped TiO₂: effect of pH and temperature in the photocatalytic degradation process" *Journal of Hazardous Materials*, 395 (2020) 122632
 - V. Barbieri, M. Gualtieri-Lassinantti, T. Manfredini, C. Siligardi "Wheat husk: a renewable resources for bio-based building materials" 251 (2020) 118909

INVITED TALKS

- C.Siligardi, M.C.D'Arrigo, C.Leonelli, G.C. Pellacani "Thermal effect of several inorganic oxides on glass-ceramics belonging to CaO-ZrO₂-SiO₂ system".ACERS Indianapolis 26-28 Aprile 1999.
- C.Siligardi, T. Manfredini, G.C. Pellacani_"Reformulation of porcelain stoneware tile body by using CaO-ZrO₂-SiO₂ as raw materials" 101 ACERS Indianapolis 26-28 Aprile 1999.
- S. Barbi, C. Mugoni, S. Singleton, M. Affatigato, C. Gatto, C. Siligardi "Rare-earths ions doped heavy metal borate glasses" 24° ICG, 7-11 Aprile 2016 Shanghai, Cina
- C. Siligardi "Luminescent glasses for hadronic calorimeter: structure-properties relationship" PACRIM 2017- Waikiloa, Hawaii, USA 21-26 Maggio 2017
- C. Siligardi "Phosphate and tellurite glasses containing TMI glasses: structural origin of electrical conductivity" Crystallization 2017 Segovia 10-13 Settembre 2017
- C. Siligardi "Luminescent heavy glasses for hadron calorimeter" ICG2017- Istanbul, Turkey, 22-25 Ottobre 2017
- C. Siligardi, "High reflective glass ceramics frits for ceramic glazes", ECerS 2019- Torino, 16-20 Giugno 2019.

LECTURES

- 2008 "Ceramic glaze" PhD school University of Lecce
- 2011 "Application of glass materials" PhD School University of Camerino
- "Recycling in industrial glazes of overspray materials produced in the Thermal Barrier Coatings (TBC) thermal spray deposition process" University of South-Wales, Sidney, Australia

2012

"Effect of talc on cool roof glazes containing TiO₂" Clay DAY,
University of Pavia

**EUROPEAN AND NATIONAL
PROJECTS**

Team leader, UNIMORE:

LIFE, area: waste e natural resources title of project: Extreme energyfree valorisation of copper metallurgical waste in heating elements and semiconductive nanoceramic enamels, waste3"

3 years (01/10/2011-30/09/2014)

Coordinator: Ceramica Fondovalle

FP7-NMP-2011-LARGE-5 title of project: "High-frequency Electro-Magnetic technologies for advanced processing of ceramic matrix composites and graphite expansion, HELM"

4 years (2012-2016)

Coordinator: Prof. A. Lazzeri, INSTM.

LIFE+, area: waste e natural resources title of project: RECYCLING OF THERMAL SPRAY WASTE IN SINTERED PRODUCTS, LIFE ReTSW-SINT, 3 years (01/07/2013-30/06/2016)

Coordinator: Ceramica Maiorca

LIFE+, area: waste e natural resources title of project: "Sustainable recycling in polyvalent use of energy saving building elements, LIFE in SustainaBuilding, 30 months (1/08/2014-31/01/2017) Coordinator: Ceramica Fondovalle

LIFE+, area: waste e natural resources titolo del progetto: New model of circular economy that also predisposes the use of waste materials in other industries, ECLAT: 3 years (1/10/2016-30/09/2019)

Coordinator: Ceramica Fondovalle

2020 National project "Ministero dello sviluppo economico" MISE REDIRECT-REDuce REUSE CERAMIC TILES 2021-2023

▪ **Scientific Coordinator:**

▪ **LIFE+, Force for future, FORTURE, 3 yeras (01/10/2017-30/09/2020)**

Coordinator: Gruppo Ceramiche GRESMALT S.P.A

Progetto FAR, Fondo di Ateneo per la Ricerca Anno 2017. Progetto di ricerca Interdisciplinare: "Novel molecules to surface enginner inhalable lipid-based vehicles for pulmonary tuberculosis therapy" (2018-2019) 2 years

Collaborator: Progetto FISR2019 "Eco-earth: terre proiettate per un'industria delle costruzioni eco-sostenibile e a misura d'uomo" Responsabile prof. A.M. Tarantino

**RESEARCH FUNDS FROM
ITALIAN INDUSTRIES (IN
ITALIAN)**

- *2003 Elios Ceramica, Solignano (Mo) "Progettazione e sviluppo di un ingobbio antimacchia per uso ceramico"
- *2003, Colorobbia Italia, Sovigliana Vinci (Fi) "Studio reologico di polveri atomizzate per applicazioni in pressa per la produzione di piastrelle in gres porcellanato"
- *2004 Elle Ceramica, Fiorano (Mo) "Realizzazione di una base tintometrica per paste serigrafiche"
- *2005 Falorni Forni, Empoli (Fi) "Contributo alla progettazione e realizzazione di un prototipo di un mixer per la omogeneizzazione di vetro fuso all'interno di forni fusori"
- *2005 Falorni Forni, Empoli (Fi) "Contributo alla ottimizzazione di rivestimenti ad alta resistenza alla corrosione di componenti di forni fusori per vetro"
- * 2005 Newton Serigrafia srl, Castellarano (RE) "Contributo allo svolgimento del progetto print art ceramic" LEGGE REGIONALE PRIITT
- 2006 Florim, Fiorano (MO), "Laboratorio delle materie".
- * 2006 Tosi SpA, Sassuolo (MO) "Contributo allo svolgimento della ricerca su materiali e ricoprimenti innovativi per piastre gommate "multiflat"
- *2008 Colorificio Intercolor, Sassuolo (MO)"Caratterizzazione di fritte al cerio per smalti ceramici"
- *2009 Dott. Francesco Mascia (CO) "Contributo alla caratterizzazione in microonde di silicati"
- *2009 Vetreria Bormioli, Fidenza (PR)" Bilanci energetici delle miscele vetrificabili in fusione"
- *2009 Ceramica ASCOT Sassuolo(MO)"Caratterizzazione spettroscopica, microstrutturale e mineralogica di ingobbi e smalti"
- *2009Smaltiflex S. Felice sul Panaro "Contributo alla caratterizzazione chimica, meccanica, microstrutturale di superfici vetrose contenenti ossidi nano e micro strutturati" LEGGE REGIONALE PRIITT
- *2009 Smaltiflex S. Felice sul Panaro (MO) "Contributo alla preparazione e caratterizzazione di smalti con elevate prestazioni meccaniche" LEGGE REGIONALE PRIITT
- *2010 Dott. Francesco Mascia (CO)" Preparazione e caratterizzazione di vetri provenienti da materie prime non convenzionali"
- *2011 Colorobbia Italia SpA *Progettazione integrata di nuovi strumenti per lo studio e lo sviluppo di tecnologie avanzate e di materiali per l'architettura e l'edilizia*" Bando dai distretti produttivi ai distretti tecnologici, nell'ambito dei laboratorio INTERMECH MO.RE
- *2011 SRS Fiorano Modenese (MO) *Progettazione integrata di nuovi strumenti per lo studio e lo sviluppo di tecnologie avanzate e di materiali per l'architettura e l'edilizia*" Bando dai distretti produttivi ai distretti tecnologici, nell'ambito dei laboratorio INTERMECH MO.RE
- *2011 Ceramica Alta Frassinoro (MO) "Sviluppo di smalti colorabili per separazione di fase o devetrificazione" **subcontractors REACH project**

*2012 Ceramica Ascot, Solignano (MO) "Contributo alla sostituzione di piombo con boro all'interno di fritte e smalti ceramici" **subcontractors European Project LIFE10 ENV/IT/427 titled "Replacement of toxic lead compounds by new non-toxic substitutes as brilliant aid agent in polychromatic glazes" "LEAD-COLOURED LEAD-FREE"**;

*2013 ARDEA PROGETTI E SISTEMI, Casalecchio di Reno (BO)

*2013 Confindustria ceramica, Sassuolo MO in collaboration with System Ceramics and Ceramica Savoia "Sviluppo di tecnologie innovative per la progettazione rapida di prodotti ceramici"

*2014 Cotto Possagno, Possagno (TV): "Contributo alla caratterizzazione di materiali laterizi con peculiari proprietà, di resistenza al gelo, impermeabilità ed ottiche"

*2015 Ardea, Casalecchio di Reno, (BO): "Compositi a matrice polimerica per applicazioni strutturali nelle costruzioni edili"

*2015 Italgraniti SpA Group "Contributo alla ottimizzazione dei parametri di processo di tempra chimica da applicare su smalti ceramici"

*2015 ICE SpA, Reggio Emilia "Formulazione e applicazione di gessi per uso edilizio contenenti additivi ritardanti di origine animale"

*2016 GRESMALT, Casalgrande (RE) Progettazione e caratterizzazione di materiali ceramici (impasti, smalti e sistemi di decorazione) sostenibili ed alta efficienza energetica. **Progetto nazionale MISE "Intervento del Fondo per la crescita sostenibile in favore di grandi progetti di ricerca e sviluppo nell'ambito di specifiche tematiche rilevanti per l'industria sostenibile.**

*2016 Cotto Possagno "Contributo alla caratterizzazione di materiali laterizi con peculiari proprietà, meccaniche ed ottiche" subcontraenti Progetto LIFE+

*2016 Colorobbia Italia "Contributo allo studio di impasti innovativi e superfici funzionalizzate, di gres porcellanato" nell'ambito di un progetto regionale finanziato POR-FESR 2014-2020.

*2016 Colorobbia Italia "Contributo allo studio di impasti innovativi e superfici funzionalizzate, di gres porcellanato" **nell'ambito di un progetto regionale finanziato POR-FESR 2014-2020.**

*2017 Società Brevetti Bizz "Applicazione del Design of Experiment e caratterizzazione di materiali ad alta resistenza termica"

*2017 Transfersality (Belgio) "Feasibility study-Low fire glazing of inorganic substrates (CaCO₃)"

*2017 SICER "Progettazione, sviluppo e realizzazione di un originale ed innovativo processo per l'ottenimento di lastre ceramiche con ridotti consumi energetici e con applicazione di innovativi ed ecologici sistemi di decorazione".

2018 G.C. GRESMALT, Casalgrande (RE) 2016 GRESMALT, Casalgrande (RE)

*Progettazione e caratterizzazione di materiali ceramici (impasti, smalti e sistemi di decorazione) sostenibili ed alta efficienza energetica. **Progetto nazionale MISE "Intervento del Fondo per la crescita sostenibile in favore di grandi progetti di ricerca e sviluppo nell'ambito di specifiche tematiche rilevanti per l'industria sostenibile.**

*2018 ACR di Reggiani Albertino SpA (Mirandola, MO) "Preparazione e caratterizzazione di paste cementizie contenenti polveri pozzolaniche"

*2018 CMF Greentech, (Cavezzo, MO) "Contributo allo studio e alla caratterizzazione di leganti per applicazioni bio-edilizie"

- *2018 Tegola Canadese (Treviso) Preparazione e caratterizzazione di smalti ceramici per graniglie basaltiche
- *2019 ACR di Reggiani Albertino SpA, Mirandola (MO). Preparazione e caratterizzazione di paste cementizie contenenti aggregati riciclati.
- *2022 ESMALGLASS Caratterizzazione di smalti ceramici
- *2022 SACMI Analisi granulometriche di prodotti ceramici

REFERENCE ACTIVITIES

- **Associate EDITOR of the Journal of the American Ceramic Society;**
- **Journal of Applied Ceramic Technology**
- **Associate Editor of Ceramics**
- *Journal of the European Ceramic Society;*
- *International Journal of Applied Ceramic Technology;*
- *Advanced in Applied Ceramics: Structural, Functional and Bioceramics;*
- *Journal of Material Science.*
- *Journal of Alloy and Compounds*
- *Materials Chemistry and Physics*
- *Materials Science and Engineering C*
- *Journal of Non-Crystalline Solids*
- *Ceramics International*
- *Materials Letter*
- Member of International Editorial Board of "Bulletin of the Polytechnic Institute of Iasi", University of Iasi, Romania.
- Member of International Editorial Board of Conference Papers in Science dal 2012, <http://www.cpis.com/journals/>

SUPERVISOR OR CO-SUPERVISOR

Supervisor of more than **200** Postgraduates students
 Supervisor of 8 PhD students
 Supervisor of 9 Post-doc
Tutor of 10 students for MOREOVERSEAS project between the University of Modena and Reggio Emilia and the Federal University of Santa Catarina, Florianopolis, Brasil

NATIONAL and INTERNATIONAL COLLABORATIONS

- Dipartimento di Chimica Inorganica, Metallorganica e Analitica, Università di Milano;
- Dipartimento di Chimica Inorganica, Metallorganica e Analitica, Università di Padova;
- Dipartimento di Chimica Fisica, Università di Pavia;
- Dipartimento di Chimica, Università di Salerno
- Istituto di Chimica Fisica Applicata dei Materiali, CNR, Genova;
- Istituto di Chimica, Facoltà di Ingegneria, Università di Genova;

- Dipartimento di Ingegneria Chimica, Facoltà di Ingegneria, Università di Pisa;
- Dipartimento di Scienza dei Materiali ed Ingegneria Chimica, Politecnico di Torino;
- Istituto Nazionale di Fisica Nucleare, Frascati;
- Centro ricerche ENEA, Casaccia, Roma;
- Dipartimento di Scienze della Terra, Università di Modena e Reggio Emilia;
- Dipartimento Scientifico e Tecnologico, Università di Verona;
- Dipartimento di Chimica, Università Federico II, Napoli;
- New York State College of Ceramic, Alfred University, Alfred, N.Y., Stati Uniti;
- Intercollege Materials Research Laboratory, The Pennsylvania State University, University Park, PA, Stati Uniti;
- Dipartimento di Ingegneria Meccanica UFSC, Università Federale di Santa Caterina, Florianopolis, SC, Brasile;
- Department of Electrical and Electronic Engineering, The University of Nottingham, England;
- School of Engineering, Staffordshire University, UK;
- Dipartimento di Ingegneria dei Materiali-DEMa, Università Federale di San Carlo-UFSCar, San Carlo, SP, Brasile;
- Ecole Polytechnique de Montreal, Montreal, Canada;
- Department of Materials Science and Metallurgical Engineering, Suncheon National University, Suncheon, South Korea;
- School of Materials Science and Engineering, University of New South Wales, Sydney, Australia;
- Physics Department, Faculty of Education, Kafr Elsheikh, Egypt.
- Dipartimento Scientifico e Tecnologico, Università di Verona
- Physical Sciences, University of Kent, UK
- Department of Materials, Imperial College London, UK
- Istituto di Fisica Applicata "N. Carrara" (IFAC-CNR) Firenze
- Laboratorium voor Akoestiek en Thermische Fysica (ATF)
- Dep. Natuurkunde en Sterrenkunde - Katholieke Universiteit Leuven (KUL)
- Dipartimento di Ingegneria dell'Innovazione, Università di Lecce;
- Centro Sviluppo Materiali S.p.A. di Castel Romano, (Roma)
- University of Cagliari
- **Fermi Lab di Chicago nell'ambito dei Progetti AGLACE e RED TOP**
<http://redtop.fnal.gov/collaboration/>
- **Coe College, IOWA, USA**

Giustina Siligard.

Modena 31th October 2022

Complete list of the peer reviewed papers

1. L. Barbieri, C. Leonelli, T. Manfredini, C. Siligardi "Influence of Viscosity on the Crystallization of some Anorthite-Diopside Glass Precursors" *J. Mater. Sci. Lett.* 12 (1993) 294-96.
2. Bonamartini Corradi, C. Leonelli, T. Manfredini, e C. Siligardi "Effect of Forming Pressure on the Reactivity and Microstructure of Zircon Powder Compacts" *J. Mat. Sci. Lett.* 12 (1993) 1434-1436.
3. L. Barbieri, C. Leonelli, T. Manfredini, M. Romagnoli, G.C. Pellacani and C. Siligardi "Non-Isothermal Kinetic Equations Applied to Crystallization of Glasses" *Thermochim. Acta*, 227 (1993) 125-133.
4. Leonelli, T. Manfredini, G. C. Pellacani, C. Siligardi, G. Baldi, E. Generali, L. Frassinelli e C. Svicher "Sistemi vetroceramici come componenti di nuovi smalti per piastrelle", *Ceramica Informazione* 333 (1993) 727-733.
5. A.M. Ferrari, T. Manfredini, G.C. Pellacani and C. Siligardi "Preparazione di un pigmento ceramico nero per calcinazione di miscele di ossidi o di polveri ottenute per co-precipitazione" *Ceramica Informazione*. 334 (1994) 27-33.
6. Siligardi e C. Leonelli "96th ACerS 96^o Incontro Annuale della Società Ceramica Americana" *Ceramica Informazione* 340 (1994) 423-6.
7. L. Barbieri, C. Leonelli, T. Manfredini, G. C. Pellacani, C. Siligardi, E. Tondello, R. Bertoncetto "Solubility, Reactivity and Nucleation Effect of Cr₂O₃ in CaO-MgO-Al₂O₃-SiO₂ Glassy System" *J. Mat. Sci.* 29 (1994) 6237-80.
8. L. Barbieri, C. Leonelli, T. Manfredini, C. Siligardi "Structural Studies on RO-MgO-Al₂O₃-SiO₂ (R=Ca, Sr, Ba) Glassy System by Density Measurements" *J. Mat. Sci. Lett.* 13 (1994) 180-82.
9. G. Baldi, L. Barbieri, L. Frassinelli, E. Generali, C. Leonelli, T. Manfredini, G. C. Pellacani, C. Siligardi e C. Svicher "Vetroceramici appartenenti al sistema CaO-SiO₂-ZrO₂ come componenti di smalti per piastrelle" *Ceramurgia*. XXIV, [6] (1994) 267-270.
10. L. Barbieri, C. Leonelli, T. Manfredini, G.C. Pellacani, D. Settembre Blundo e C. Siligardi "Microindentation Test as Parameter for Evaluating the Sintering and Interface Properties of SiC-whiskers Reinforced CMAS Glass-ceramic Composite" *Mats. Eng.* 6, [4], (1995), 323-333.
11. G. Baldi, F. Generali, C. Leonelli, T. Manfredini, G. C. Pellacani, C. Siligardi "Effects of Nucleating Agents on Diopside Crystallization in New Glass-ceramics for Tile-glaze Application" *J. Mat. Sci.* 30 (1995) 3251-3255.
12. L. Barbieri, A. Bonamartini Corradi, C. Leonelli, T. Manfredini, M. Romagnoli e C. Siligardi "The microstructure and mechanical properties of sintered celsian and strontium-celsian glass-ceramics" *Mat. Res. Bul.* 30, [1] (1995), 27-41.
13. Generali, G. Baldi, A. M. Ferrari, C. Leonelli, T. Manfredini, C. Siligardi e G. C. Pellacani "Studio di sistemi vetroceramici appartenenti al sistema M₂O-CaO- ZrO₂-SiO₂ come componenti di smalti per piastrelle", *Ceramica Informazione* 358 (1996) 16-18.
14. C. Leonelli, L. Barbieri, T. Manfredini, D. Settembre Blundo, C. Siligardi, A. Bonamartini Corradi "Densification and properties of CMAS glass-ceramic prepared from compacts of pressed powders and of tape cast powder multilayers" *Br. Ceram. Trans.* 95 [5] (1996), 199-204.
15. A.P. Novaes de Oliveira, C. Leonelli, T. Manfredini C. Siligardi "Effects of Compaction on the elastic behaviour of green Monoporosa" body" *Tile and Brik Int.* 12 [6] (1996), 520-24.
16. C. Siligardi, C. Leonelli, Y. Fang, D. Agrawal "Modifications on bulk crystallization of glasses belonging to M₂O-CaO-SiO₂-ZrO₂ system in a 2.45 GHz microwave field" *Mat. Res. Soc. Symp.Proc.* 430, Materials Research Society, edited by M.F.Iskander, J.O.Kiggans, J.C. Bolomey, (1996), 429-34.
17. A.M. Ferrari, L. Barbieri, C. Leonelli, T. Manfredini, C. Siligardi, A. Bonamartini Corradi "Feasibility of using cordierite glass-ceramics as tile glazes" *J. Am. Ceram. Soc.* 80 [7] (1997), 1757-66.
18. L. Barbieri, C. Leonelli, T. Manfredini, C. Siligardi, A. Bonamartini Corradi, P. Mustarelli, C. Tomasi "Nucleation and crystallization of lithium aluminosilicate glass" *J. Am. Ceram. Soc.* 80 [12] (1997), 3077-83.
19. L. Chen, C. Leonelli, T. Manfredini, C. Siligardi "Processing of silicon-carbide whisker-reinforced glass-ceramic composite by microwave heating" *J. Am. Ceram. Soc.* 80 [12] (1997), 3245-49.

20. L. Barbieri, A. Bonamartini Corradi, C. Leonelli, C. Siligardi, T. Manfredini e G.C. Pellacani "Effect of TiO₂ addition on the properties of complex aluminosilicate glasses and glassceramics" *Mat. Res. Bul.* 32 [6], (1997), 637-648.
21. Bondioli, A.M. Ferrari, C. Leonelli, C. Siligardi, T. Manfredini "Conventional and Microwave preparation of the Al₂O₃/Cr₂O₃ (ss) pink pigment" *Microwaves Theory and Application in Materials Processing IV Ceramic Transaction 80*, The American Ceramic Society, Westerville (OH), USA (1997) 483-490.
22. C. Siligardi, M. Paganelli "La soluzione di problemi ceramici attraverso le tecniche a raggi X" *Ceramica Informazione* 370, (1997), 216-221.
23. Bondioli, A. Bonamartini Corradi, A.M. Ferrari, C. Leonelli, C. Siligardi, T. Manfredini e N.G. Evans "Microwave synthesis of Al₂O₃/Cr₂O₃ (ss) ceramic pigments" *J. Microwave Power and Electromagnetic Energy* 33, [1], (1998) 18-23.
24. C. Fontanesi, C. Leonelli, T. Manfredini, C. Siligardi, G.C. Pellacani "Characterisation of the surface conductivity of glassy materials by means of impedance spectroscopy measurements" *J. Europ. Ceram. Soc.* 18 (1998) 1593-1598.
25. C. Leonelli, C. Siligardi, G.C. Pellacani, G. Gherardi, G. Marucci, Brevetto Italiano relativo a "Procedimento di inertizzazione di amianti mediante applicazioni a microonde" depositato Settembre 1998.
26. L. Barbieri, S. Bruni, F. Cariati, C. Leonelli, G.C. Pellacani, C. Siligardi, U. Russo. "Influence of some transition metal cations on the properties of BaO-containing glasses and glass-ceramics" *Mat. Res. Bul.* 34 [12/13] (1999) 1825-1836.
27. C. Meneghini, A.F. Gualtieri, C. Siligardi "Differential anomalous wide-angle X-ray scattering and X-Ray absorption experiments to investigate the formation of glass ceramics in the CaO-SiO₂-ZrO₂ system" *J. Appl. Cryst.* (1999), 32, 1090-1099.
28. C. Siligardi, C. Leonelli "Applicazione delle microonde nel campo dei materiali ceramici" *Alta Frequenza, Rivista di elettronica* 11, [3] (1999) 28-31.
29. C. Siligardi, C. Leonelli, G. Baldi, E. Generali "Studio di sinterizzazione di polveri di fritte vetro-ceramiche" *Ceram. Inf.* 393 (1999) 929-932.
30. A.P. N. de Oliveira, O.E. Alarcon, T. Manfredini, G.C. Pellacani and C. Siligardi, "Crystallisation kinetics of a 2.3Li₂O.1.1ZrO₂.6.6SiO₂ glass" *Phys. Chem Glasses*, 41 (2) (2000) 100-3.
31. C. Siligardi, M.C. D'Arrigo, C. Leonelli, G.C. Pellacani, T.E. Cross "Bulk Crystallization of glasses belonging to CaO-ZrO₂-SiO₂ system by microwave energy" *J. Am. Ceram. Soc.* 83, [4] (2000), 1001-03.
32. C. Siligardi, C. Leonelli, F. Bondioli, A. Corradi, G.C. Pellacani "Densification of glass powders belonging to CaO-ZrO₂-SiO₂ system by microwave" *J. Europ. Ceram. Soc.* 20 (2000) 177-183.
33. C. Siligardi, L. Barbieri, A. Bonamartini Corradi, C. Leonelli, M. De Sanctis, A. Lazzeri. "Color development during devitrification in ZnO-Li₂O-Al₂O₃-SiO₂ glasses under conventional and microwave heating" *Phys. Chem. Glasses* 41 (2) (2000) 81-8.
34. Andreola, C. Leonelli, C. Siligardi, A. Bonamartini Corradi "Sintering of sludge from porcelain stoneware polishing by conventional and microwave firing technology" *Tile and Brick Int.* 16, (1) (2000) 6-11.
35. L. Barbieri, M.C. D'Arrigo, C. Leonelli, C. Siligardi, G.C. Pellacani, C.C. Sorrel, M. Hoffman, S. Moricca "Effect of Silicon Carbide Whisker Reinforcement on the CaO-ZrO₂-SiO₂ Glass-Ceramic System" *British Ceramic Transaction Vol.99 No.6*, (2000) 274-277.
36. C. Siligardi, C. Leonelli, G.C. Pellacani, W.C. LaCourse, P. Mustarelli, C. Tommasi "Transparent glass-ceramics obtained during cooling" *Glastech. Ber. Glass Sci. Technol.* 73 C1 (2000) 213-220.
37. P. Veronesi, C. Leonelli, C. Siligardi, "Applicazioni del riscaldamento a microonde in campo ceramico.I. Aspetti teorici", *Ceramica Informazione.* 397 (2000) 397-399
38. P. Veronesi, C. Leonelli, C. Siligardi, "Applicazioni del riscaldamento a microonde in campo ceramico.II. Tecnologia", *Ceramica Informazione* 401 (2000) 875-78
39. C. Siligardi, M.C. D'Arrigo, C. Leonelli "Sintering criteria for glass-ceramic frits belonging to CaO-ZrO₂-SiO₂ system" *Ceramic Bulletin Vol. 79 (9)* (2000) 88-92.
40. Ragazzo C. Siligardi, P. Veronesi, L. Lusvardi, M. R. Rivasi G. Gherardi G. Marucci, M. Annibali, G. Carboni "Characterization of microwave inertized asbestos containing materials", in "Series of monographs on Materials Science, Engineering and Technology-Vol.3: Application of microwave technology to synthesis and materials processing" curatori: D. Acierno, C. Leonelli, G. C. Pellacani, Mucchi Editore, Modena, (2000) 115-125.

41. C. Leonelli, F. Bondioli, C. Siligardi, M. C. D'Arrigo, A. Corradi, "Synthesis and processing of ceramic materials by application of microwave radiation", in "Series of monographs on Materials Science, Engineering and Technology-Vol.3: Application of microwave technology to synthesis and materials processing" curatori: D. Acierno, C. Leonelli, G. C. Pellacani, Mucchi Editore, Modena, (2000) 169-183.
42. F.J.S. Arantes, E., Quinteiro, C. Siligardi, C. Leonelli, A. O. Boschi, C. Siligardi "Comparative Study of different methods used to characterize the crystalline phases of ceramic frits: microscopy and X-Ray diffraction" *Acta Microscopica* v.9., (2000), 347-348.
43. P. Veronesi, C. Leonelli, C. Siligardi, "Applicazioni del riscaldamento a microonde in campo ceramico III: Dispositivi", *Ceramica Informazione* 403 (2001) 77-83.
44. P. Veronesi, C. Siligardi, M. Franchini, C. Leonelli "Microwave industrial in the ceramic field" *International Ceramics Journal*, February (2001) 57-62.
45. C. Siligardi, C. Leonelli, P. Veronesi "La tecnologia a microonde applicata ai fanghi di levigatura del grès porcellanato" *Ceramica Informazione* 404 (2001) 172-75.
46. C. Leonelli, F. Bondioli, C. Siligardi, P. Veronesi, G.C. Pellacani, "Synthesis of Oxide Pigment Powders by Microwave Treatments", in *Microwaves: Theory and Application in Materials Processing V*, *Ceramic Transaction* vol.111, edited by D.E. Clark and J.G.P. Binner (2001), 321-327.
47. F. Bondioli, A.M.Ferrari, C. Leonelli, C.Siligardi, G.C.Pellacani "Microwave-hydrothermal synthesis of nanocrystalline zirconia powders" *J. Am. Cer. Soc.* 84 [11] (2001), 2728-30.
48. C. Leonelli, C. Siligardi "Vetri colorati in assenza di cromoforo" *Ceramica Inf.* 404, (2001) 167-170.
49. F. Bondioli, A.M. Ferrari, C. Leonelli, C.Siligardi, N. Hart, N. Evans "The application of microwaves in the synthesis of Ce_{0.9}Pr_{0.1}O₂ nanostructured powders" *J. of Materials Chemistry* 11 (2001) 2620-24.
50. A.M. Ferrari, F. Bondioli, C. Siligardi, C. Leonelli "Applicazione di pigmenti fosfatici ottenuti mediante trattamento termico convenzionale e a microonde" *Ceramica Informazione* 411, (2001) 973-978.
51. C. Leonelli, T. Manfredini, C. Siligardi "New tile glaze families based on glass ceramic system" *International Ceramic Journal* April (2002) 31-35.
52. Quinteiro, Eduardo, Boschi, Anselmo Ortega, Flavio Josè Sanches Arantes, Leonelli, Cristina, Manfredini, Tiziano, Siligardi, Cristina "Importancia do Controre da velocidade de resfriamento na Obtencao de Vidrados Vitro-Cristalinos" *Ceramica Industrial*, 7 (1) Janeiro/Fevereiro, (2002), 41-43.
53. C. Siligardi, A.M. Ferrari, C. Leonelli, S. Bruni "Vanadium doping in CaO-ZrO₂-SiO₂ glasses" *Phys. Chem. Glasses* 43 (2) (2002) 97-101.
54. L. Barbieri, A. Corradi, I. Lancellotti, C. Leonelli, C. Siligardi "Additive properties in CaO-MgO-Al₂O₃-SiO₂ glasses belonging to diopside-anorthite phase diagram" *Phys. Chem. Glasses* 43 (3) (2002), 161-4.
55. L. Barbieri, I. Lancellotti, C. Leonelli, G.C. Pellacani, C. Siligardi "Glass formation and devitrification in the K₂O-ZrO₂-SiO₂ system" *Phys. Chem. Glasses*, 43C, (2002) 462-464.
56. Lancellotti, C. Meneghini, M. Montorsi, C. Leonelli, G.C. Pellacani, C. Siligardi. "Correlation between structure and properties in new glasses containing ZrO₂" *Phys. Chem. Glasses*, 43C, (2002), 108-112.
57. M.C. D'Arrigo, C. Siligardi, C. Leonelli, J.Y So, H.S Kim " Evolution of macropores in glass-ceramic under microwave and conventional heating " *J. of Porous Materials* 9: (2002) 299-305.
58. C. Siligardi, P. Veronesi, C. Leonelli, D. Settembre Blundo, G.Baldi, E.Generali "CaO-ZrO₂-SiO₂ glass frit addition to porcelainized stoneware enhancement of tiles colouring capabilities" *Tile and Brick*, Volume 18, n. .4, (2002) 216-221.
59. C. Leonelli, C. Siligardi "CaO-SiO₂-ZrO₂ glasses: modelling and experimental approach" *Recent Res. Devel. Mat. Sci.* 3 (2002) 599-618.
60. A.M. Ferrari, C. Leonelli, G. C. Pellacani C. Siligardi "Effect of V₂O₅ addition on the crystallisation of glasses belonging to CaO-ZrO₂-SiO₂ system" *J. of Non-Cryst. Solids* 315 (2003) 77-88.
61. M.C. D'Arrigo, C. Leonelli, C. Siligardi, T. Manfredini "Crystallisation evolution of glass powder under microwave and conventional sintering" *Materials Engineering* vol.14, n.1, (2003) 109-117.
62. F. Andreola, M.C. D'Arrigo, C. Leonelli, C. Siligardi, G. C. Pellacani "Comparison of various solvent media efficiency in the grinding of a frit containing Zirconium" *J. Am. Ceram. Soc.* 86 [5] (2003) 864-66.

63. C. Siligardi, L. Lusvarghi "Tecniche di analisi termica applicate ai ceramici" *Ceramica Informazione* 422, (2003) 133-136.
64. C. Siligardi, D. Settembre Blundo, M. Montorsi, P. Miselli, T. Manfredini "Analisi microstrutturale e tecnologica di impasti da monoporosa di produzione industriale: I° Parte" *Ceramica Informazione* 424, (2003) 347-353.
65. C. Siligardi, D. Settembre Blundo, M. Montorsi, E. Generali, P. Miselli, T. Manfredini "Analisi microstrutturale e tecnologica di impasti da monoporosa di produzione industriale: II° Parte" *Ceramica Informazione* 425, (2003) 447-456.
66. V. Cannillo, T. Manfredini, M. Montorsi, C. Siligardi, A. Sola "Functionally graded materials: a review of fabrication processes and modeling of properties" *Materials Engineering* Vol. 14 n.3, (2003) 207-228
67. L. Barbieri, C. Leonelli, M. Montorsi, P. Mustarelli, C. Siligardi. "Experimental and MD simulations study of CaO-ZrO₂-SiO₂ glasses", *J. Phys. Chem. B*, 107 (2003) 6519-6525.
68. L. Barbieri, A. Corradi, I. Lancellotti, C. Leonelli, C. Siligardi "The effect of ZrO₂ in 30K₂O-70SiO₂ glass: a comparison with 30Li₂O-SiO₂" *Journal of Materials Science* 38 (2003) 2627-2631.
69. Luisa Barbieri, Valeria Cannillo, Cristina Leonelli, Monia Montorsi Piercarlo Mustarelli*, Cristina Siligardi "Characterization by MAS-NMR and molecular dynamics of CaO-ZrO₂-SiO₂ glasses" *Phys. Chem. Glasses* 45 (2004) 138-40
70. A.P. Novaes de Oliveira, C. Siligardi, T. Manfredini "Li₂O-ZrO₂-SiO₂ sintered glass-ceramics for ceramic tile applications" *American Ceramic Society Bulletin* 83 (4) (2004) 9401-8
71. C. Leonelli, C. Siligardi, P. Veronesi "Microwave processing of glass" *Glasstech. Ber. Glass Sci.* 77 C (2004) 261-266
72. F. Bondioli, T. Manfredini, C. Siligardi, A.M. Ferrari "A new glass-ceramic red pigment" *J. Europ. Ceram. Soc.* 24 (14) (2004) 3593-3601
73. Montedo, G.M. Reitz, F. Bertan, A.P. Novaes de Oliveira, D. Hotza, C. Siligardi "Extruded LZS glass-ceramics" *American Ceramic Society Bulletin* 83 (8) (2004) 9201-6
74. L. Lusvarghi, F. Bondioli, A.M. Ferrari, C. Siligardi, C. Meneghini, S. Mobilio "The structure of ZrO₂ in glass ceramics phases and devitrification processes in a Ca-Zr-Si-O-based glass ceramic: a combined α -XRD and XAS study" *Journal of Applied Crystallography* 37, (2004), 890-900.
75. Grandi, R; Corradi, A; Leonelli, C; Siligardi, C; Veronesi, P "Reactivity of tosylhydrazones under microwave irradiation in solvent-free environment" *MATERIALS RESEARCH INNOVATIONS*. 8, 65 - 67 (2004)
76. C. Siligardi, D. Settembre Blundo, M. Montorsi, P. Miselli, T. Manfredini "Microstructural and technological analysis of industrially produced porous single-firing bodies: part 1" *International Ceramic Journal* February (2005), 63-69.
77. V. Cannillo, T. Manfredini, M. Montorsi, C. Siligardi, A. Sola "Experimental characterization and computational simulation of glass-alumina Functionally Graded Materials" *Materials Science Forum* Vols. 492-493 (2005) 647-652.
78. F. Bondioli, A.M. Ferrari, T. Manfredini, C. Siligardi "New glass-ceramic inclusion pigment" *J. Am. Ceram. Soc.* 88 [4] (2005) 1070-1071
79. Bonamartini Corradi, V. Cannillo, M. Montorsi, C. Siligardi A.N. Cormack "Structural characterization of neodymium containing glasses by molecular dynamic simulation" *J. of Non-crystalline solids* 351 (2005) 1185-1191
80. G. Bolelli, V. Cannillo, L. Lusvarghi, T. Manfredini, C. Siligardi, C. Bartuli, A. Loreto, T. Valente "Plasma-sprayed glass-ceramic coating on ceramic tiles: microstructure, chemical resistance and mechanical properties" *J. Europ. Ceram. Soc.* 25 (2005) 1835-1853
81. S. Berneschi, M. Bettinelli, M. Brenci, G. Nunzi Conti, S. Pelli, S. Sebastiani, C. Siligardi, A. Speghini, G. C. Righini "Aluminum co-doping of soda-lime silicate glasses: effect on optical and spectroscopic properties" *J. Non Crystalline Solids*, 351 (2005) 1747-1753
82. C. Siligardi, D. Settembre Blundo, M. Montorsi, P. Miselli, T. Manfredini "Microstructural and technological analysis of industrially produced porous single-firing bodies: part 2" *International Ceramic Journal*, August, (2005), 67-75
83. G. C. Righini, C. Arnaud, S. Berneschi, M. Bettinelli, M. Brenci, A. Chiasera, P. Feron, M. Ferrari, M. Montagna, G. Nunzi Conti, S. Pelli, C. Siligardi, A. Speghini, L. Zampedri "Integrated optical amplifiers and microspherical lasers based on erbium-doped oxide glasses" *Optical Materials* 27 (2005) 1711-1717
84. C. Siligardi "Luce e materia creano immagine ed estetica" *Ceramica Informazione* 443, (2005) 483-486

85. L. Lusvarghi, T. Manfredini, C. Siligardi, G. Bolelli "Influence of the manufacturing process on the crystallization behaviour of a CZS glass system" *J. Non-cryst. Solids* 351 (2005) 2537-2546
86. V. Cannillo, T. Manfredini, M. Montorsi, C. Siligardi, A. Sola "New frontiers in engineered materials: fabrication processes and relevant applications of functionally graded materials" *International Ceramic Journal* XIII [5] 2005, 59-65.
87. C. Siligardi "Light and material create image and aesthetics" *International Ceramic Journal* December 2005,
88. V. Cannillo, E. Carlier, T. Manfredini, C. Siligardi "Design and optimisation of glass-celsian composites" *Composites: part A* 37 (2006) 23-30
89. E. Assem, K. R. Mahmoud, T. Sharsher, C. Siligardi "Structure, Magnetic and positron lifetime studies on CaO-ZrO₂-SiO₂ glass system doped with vanadium oxide" " *J. Phys. D: Appl.Phys.* 39 (2006) 734-739
90. V. Cannillo, T. Manfredini, C. Siligardi, A. Sola "Preparation and experimental characterization of glass-alumina functionally graded materials" *Journal European Ceramic Society* 26 (2006) 993-1001
91. C. Siligardi, J.P.Wu, A.R.Boccaccini "Sintering and crystallisation of vanadium doped CaO-ZrO₂-SiO₂ glass-ceramics" *Materials Letters* 60 (2006) 1607-1612
92. V. Cannillo, T. Manfredini, M. Montorsi, C. Siligardi A. Sola, G. de Portu, L. Micele, G. Pezzotti, "Microscale computational simulation and experimental measurement of thermal residual stresses in glass-alumina Functionally Graded Materials" *Journal of the European Ceramic Society*, 26[8] (2006) 1411-1419.
93. V. Cannillo, T. Manfredini, M. Montorsi, C. Siligardi, A. Sola "Glass-alumina FGMs: their preparation and compositional profile evaluation" *Journal of European Ceramic Society* 26 [13] (2006) 2685-2693
94. Bonamartini Corradi, V. Cannillo, M. Montorsi, C. Siligardi "Influence of Al₂O₃ addition on thermal and structural properties of erbium doped glasses" *Journal of Materials Science* 41 (2006) 2811-2819
95. V. Cannillo, M. Montorsi, C. Siligardi, A. Sola, "Microstructure-based modelling and experimental investigation of crack propagation in glass-alumina Functionally Graded Materials" *Journal of the European Ceramic Society*, 26 [15] (2006) 3067-3073.
96. C. Ferone, M. Pansini, F. Andreola, L. Barbieri, C. Siligardi and T. Manfredini, "Non Conventional Synthesis Of Monoclinic Celsian From Ba-Exchanged Zeolite A: Study Of The Effect Of Residual Na And Forming Pressure", 11th International Ceramics Congress – Advances in Science and Technology – Trans Tech Publications Ltd (Switzerland) - Vol. 45 (2006) pp. 963 – 968.
97. T. Manfredini, C. Siligardi "I sistemi vetroceramici" *I quaderni di Cer on line* Anno 5 marzo-aprile 2006
98. G. Bolelli, L. Lusvarghi, T. Manfredini, C. Siligardi "Rivestimenti termospruzzati su ceramici tradizionali" *I quaderni di Cer on line* Anno 5 Luglio agosto 2006
99. V. Cannillo, L. Lusvarghi, T. Manfredini, M. Montorsi, C. Siligardi and A. Sola, "Glass-ceramic Functionally Graded Materials produced with different methods", *Journal of the European Ceramic Society*, 27 (2007) 1293-1298.
100. V. Cannillo, L. Lusvarghi, M. Montorsi, C. Siligardi, A. Sola, "Characterization of glass-alumina functionally graded coatings obtained by plasma spraying", *Journal of the European Ceramic Society*, 27 (2007) 1935-1943
101. V. Cannillo, L. Lusvarghi, T. Manfredini, M. Montorsi, C. Siligardi, A. Sola, "Glass-alumina functionally graded materials produced by plasma spraying", *Key Engineering Materials*, vol. 333 (2007) pp.227-230.
102. Bolelli, L. Lusvarghi, M. Tiziano C. Siligardi, "Devitrification behaviour of plasma sprayed glass coating" *Journal of the European Ceramic Society*, 27 (2007) 623-628
103. M. Montorsi, M. Reginelli, A. Rovini, D. Settembre, C. Siligardi, C. Lugli "Reattività di alcuni carbonati con illite e caolinite negli impasti da monoporosa" *Ceramic World Review*, n.69, (2007) 110-120.
104. C. Carbonchi, P. Danasino, F. Andreola, C. Siligardi "Esempi di utilizzo in impasti di gres porcellanto delle argille plastiche SC1, SC2 e SC3 prodotte dalla Sarda Silicati" *Ceramurgia+Ceramica Acta, Speciale Materie Prime*, 2, (2007) 121-127
105. V. Cannillo, L. Lusvarghi, C. Siligardi, A. Sola, "Prediction of the elastic properties profile in glass-alumina functionally graded materials", *Journal of the European Ceramic Society* 27 (2007) 2393-2400

106. Goossens, P. Leclaire, X. Xu, C. Glorieux, L. Martinez, A. Sola, C. Siligardi, V. Cannillo, T. Van der Donk, J.P. Celis « Surface acoustic wave depth profiling of functionally graded material" J. of Applied Physics 102 053508 (2007)
107. G. Bolelli, L. Lusvarghi, T. Manfredini, E. Parsini, C. Siligardi "BAS, CMAS and CZAS glass coatings deposited by plasma spraying" Journal of the European Ceramic Society 27 (2007) 4575-4588
108. C. Siligardi, M. Romagnoli "Ceramizzazione di vetri mediante tecnica D.O.E. (Design of Experiment)" Ceramica Informazione, 463, (2007) 611-619.
109. C. Siligardi, M. Montorsi, E. Venturelli "Caratterizzazione di smalti ferro-metallici apiombici" Ceramica Informazione 464, 716-721 (2007)
110. C. Ferone, M. Pansini, C. Siligardi, F. Andreola, M. Romagnoli "Densification and Crystallization of Ba-Exchange Zeolite A Powders" Ceramics International 34 (2008) 543-549
111. V. Cannillo, D. Mazza, C. Siligardi, A. Sola, "Cobalt doped glass for the fabrication of percolated glass-alumina functionally graded materials", Ceramics International 34 (2008) 447-453
112. A. Corradi, V. Cannillo, M. Montorsi and C. Siligardi "Local and medium range structure of erbium containing glasses: a molecular dynamic study" Journal of non-crystalline solids 354 (2008) 173-180
113. C. Siligardi, M. Montorsi, L. Lusvarghi, C. Vernia "Sintering and crystallization of CaO-Al₂O₃-ZrO₂-SiO₂ glasses containing different amount of Al₂O₃" J. Am. Ceram. Soc. 91 [3] (2008) 990-995
114. M. Bertoni, M. Reginelli, A. Rovini, D. Settembre, C. Siligardi, C. Lugli, M. Montorsi "Bicottura e monoporosa a confronto relazioni tra le differenze composizionali e le caratteristiche dei materiali" Ceramica Informazione, 467, 135-143, 2008
115. V. Cannillo, L. Lusvarghi, C. Siligardi, A. Sola "Effects of different production techniques on glass-alumina functionally graded materials" Ceramics International 34 (2008) 1719-1727
116. M. Comes Franchini, P. Fabbri, A. Frache, G. Ori, M. Messori, C. Siligardi, A. Ricci "Bentonite-based organoclays as innovative flame retardants agents for SBS copolymer" Journal of Nanoscience and Nanotechnology" 8, (2008) 6316-6324
117. C. Siligardi, M. Montecchi, M. Montorsi, F. Avoni, E. Venturelli "Caratterizzazione di smalti metallici apiombici da gres" Ceramica Informazione, 471, (2008) 521-523
118. V. Cannillo, F. Pierli, S. Sampath, C. Siligardi "Thermal and Physical characterisation of apatite/wollastonite bioactive glass-ceramics" Journal of the European Ceramic Society, 29 (2009) 611-619
119. F. Andreola, C. Siligardi, T. Manfredini, C. Carbonchi "Rheological behaviour and mechanical properties of porcelain stoneware bodies containing italian clay added bentonites" Ceramics International 35 (2009) 1159-1164
120. C. Siligardi, P. Miselli, M. Montecchi, C. Ansaloni "Smalti ad effetto lustro: applicazioni di paste vserigrafiche al CeO₂" Ceramica Informazione, 475, (2009) 9-15
121. V. Cannillo, F. Pierli, I. Ronchetti, C. Siligardi, D. Zaffe "Chemical durability and microstructural analysis of glasses soaked in water and in biological fluids" Ceramics International 35 (2009) 2853-2869
122. C. Siligardi, M. Montecchi, M. Montorsi, L. Pasquali "Lead free cu-containing frit for modern metallic glaze" J. Am. Ceram. Soc., 92 [11] 2784-2790 (2009)
123. C. Siligardi, C. Mugoni, D. Corradini, D. Venturelli, M. Montorsi, A. P. Novaes de Oliveira "Nova frita pertencente ao sistema CaO-ZnO-SiO₂ para aplicacoes ceramicas" Ceramica Industrial 14 (5/6) Setembro/Dezembro (2009)
124. C. Siligardi, C. Mugoni, D. Corradini, D. Venturelli, M. Montorsi "Nuova frita appartenente al sistema CaO-ZnO-SiO₂ per applicazioni ceramiche" Ceramica Informazione 482 (2009)
125. R. Giovanardi, M. Montorsi, G. Ori, J. Cho, T. Subhani, A. R. Boccaccini, C. Siligardi "Microstructural Characterisation and Electrical Properties of Multiwalled Carbon Nanotube/Glass-Ceramic Nanocomposites" J. Mater. Chem., 2010, 20, 308-313
126. Bastos Mundstock, E. Guzi de Moraes, D. Hotza, A. P. Novaes de Oliveira, S. Ota Rogero, C. Siligardi "Processamento e Caracterização de Espumas Vitrocerâmicas do Sistema SPNC (SiO₂-P₂O₅-Na₂O-CaO) Quim. Nova, vol. 33, no. 3, 598-602, (2010)
127. De Freitas Nunes, L. Corradini, B. Goulart de Oliveira, T. M. Novais de Oliveira, M. A. Viana Nascimento, C. Siligardi, A. P. Novaes de Oliveira "Placas Ceramicas Esmaltadas com

- fina vitroceramica obtidas por biqueima rapida" *Ceramica Industrial* 15 (2) Marco/Abril 34- 37 (2010)
128. C. Siligardi, M. Montecchi, M. Montorsi, L. Pasquali "Ceria-containing frit for lustre modern ceramic glaze"" *J. Am. Ceram. Soc.* 93 [9] 2545–2550 (2010)
 129. G.G. Moraes, B.G. Oliveira, C. Siligardi, M.D.M. Innocentini, A.A.M. Oliveira Jr., J.B. Rodrigues Neto, D. Hotza, A.P. Novaes de Oliveira "Production of foundry filters using Al₂O₃ from Al-anodizing process" *Advances in Science and technology*, vol.62, 119-124 (2010)
 130. A. Licciulli, V. Contaldi, S. K. Padmanabhan, A. Balakrishnan, C. Siligardi, D. Diso "Influence of glass phase on Al₂O₃ fiber-reinforced Al₂O₃ composites processed by slip casting" *J. Eur. Ceram. Soc.* 31 (2011) 385-389
 131. C. Siligardi, P. Miselli, L. Lusvarghi, M. Reginelli "Influence of CaO-ZrO₂-Al₂O₃-SiO₂ glass-ceramic frits on the technological properties of porcelain stoneware bodies" *Ceramics International* 37 (2011) 1851-1858
 132. G. Ori, M. Montorsi, A. Pedone, C. Siligardi. "Insight into the Structure of Vanadium containing Glasses: a Molecular Dynamics Study" *J. Non-Cryst. Solids* 357 (2011) 2571-2579 doi: 10.1016/j.noncrysol.2011.02.002
 133. M. Montorsi, G. Ori, C. Siligardi, "Structural characterization of erbium containing glasses by using molecular dynamics simulation" in "Erbium: compounds, production & Applications" edited by Emily K. Byrne Nova Science Publishers Inc. ISBN: 978166689896 February 2011
 134. A. Libbra, A. Muscio, C. Siligardi, P. Tartarini, "Assessment and improvement of the performance of antisolar surfaces and coatings". *Progress in Organic Coatings* 72 (2011) 73-80
 135. G. Ori, D. Gentili, M. Cavallini, M. Comes Franchini, M. Zapparoli, M. Montorsi, C. Siligardi "Immobilization of Monolayer Protected Lipophilic Gold Nanorods on a Glass Surface" *Nanotechnology I.F.* 3.65 doi:10.1088/0957-4484/23/5/055605 : [Nanotechnology](#), Volume 23, Number 5, 10 February 2012 , pp. 55605-55609(5)
 136. A. Zucchelli, M. Dignatici, M. Montorsi, C. Siligardi "Characterization of vitreous enamel-steel interface by using hot stage ESEM and nano-indentation techniques" *Journal of the European Ceramic Society* 32 (2012) 2243–2251
 137. E. Mussatti, C. Merlini, G. M. de Oliveira Barra, S. Guths, A.P.N. de Oliveira, C. Siligardi "Evaluation of the properties of iron oxide-filled castor oil polyurethane" *Material Research* 16 (1) (2013) 65-70
 138. C. Ferrari C., Libbra A, Muscio A, Siligardi C. "Design of ceramic tiles with high solar reflectance through the development of a functional engobe" *Ceramic International* 39 (2013) 9583-9590
 139. F. Bozza, G. Bolelli, L. Lusvarghi, C. Siligardi, C. Giolli, A. Giorgetti, A. Scrivani "Analisi del processo di "pack chromising" su superleghe diNi per turbine a gas" *La Metallurgia Italiana* n. 3 2013
 140. E. Gasparini; S. C Tarantino; P. Ghigna; M. P. Riccardi; E. I Cedillo-González; C. Siligardi; M. Zema " Thermal dehydroxylation of kaolinite from an industrial kaolin: insights from IR autocorrelation spectrum" *Applied Clay Science* 80-81 (2013) 417-425
 141. E. I. Cedillo Gonzalez, M. Montorsi, C. Mugoni, M. Montorsi, C. Siligardi "Improvement of the adhesion between TiO₂ nanofilm and glass substrate by roughness modifications" *Physics Procedia* 40 (2013) 19-29
 142. Pini M., Cedillo-González, E.I., Neri, P., Siligardi, C., Ferrari, A.M. "Life Cycle Assesment of nanoTiO₂ coated self-cleaning float glass" *Technical Proceedings of the 2013 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2013*; 3:728.
 143. A. Libbra, A. Muscio, C. Siligardi "Energy performance of opaque building elements in summer: analysis of a simplified calculation method in force in Italy" *Energy and Buildings available Energy and Buildings* 64 (2013) 384–394
 144. Chiara Ferrari, Antonio Libbra, Alberto Muscio, Cristina Siligardi "Influence of the Irradiance Spectrum on Solar Reflectance Measurements" *Advances in Building Energy Research Volume 7, Issue 2*, 2013, 244-253
 145. C. Siligardi, L. Lusvarghi, C. Giolli, A. Scrivani, D. Venturelli "Recycling in ceramic glazes of zirconia overspray from thermal barrier coatings manufacturing" *Journal of European Ceramic Society Volume 34, Issue 1*, January 2014, Pages 147–154
 146. C. Siligardi, L. Tagliaferri, L. Lusvarghi, G. Bolelli, D. Venturelli "Preparation of innovative metallic composite glazes for porcelainized stoneware tiles" *Ceramics International Volume 40, Issue 1, Part B*, January 2014, Pages 1821–1828

147. E. I. Cedillo Gonzalez, R. Riccò, M. Montorsi, M. Montorsi, P. Falcaro, C. Siligardi "Self-cleaning glass prepared from a commercial TiO₂ nano-dispersion and its photocatalytic performance under common anthropogenic and atmospheric factors" *Building and Environment* 71 (2014) 7-14
148. Chiara Ferrari, Ali Gholizadeh Touchaei, Mohamad Sleiman, Antonio Libbra¹, Alberto Muscio¹, Cristina Siligardi, Hashem Akbari "Effect of Ageing Processes on Solar Reflectivity of Clay_Roof Tiles", *Advances in Building Energy Research* 2014 DOI: 10.1080/17512549.2014.890535
149. C. Ferrari, A. Libbra, A. Muscio, C. Siligardi "Isola di calore estivo: cool colors in laterizio" *Costruire in laterizio* 158, 64-69, 2014
150. C. Mugoni, M. Montorsi, C. Siligardi, Himanshu Jain "Electrical conductivity of copper lithium phosphate glasses" *Journal of Non-Crystalline solids* 383 (2014) 137-140
151. G. Broglia, C. Mugoni, D. Jincheng, C. Siligardi, M. Montorsi, "Lithium Vanado-Phosphate Glasses: Structure and Dynamics Properties Studied by Molecular Dynamics Simulations" *Journal of Non-Crystalline solids* 403 (2014) 53-61
152. F. Andreola, M. Dignatici, C. Siligardi, A. Boccacini "Effect of additives on the dispersion and electrophoretic deposition of very diluted enamel suspensions" *Interceram* 64 [1] 45-48, 01/2015.
153. C. Mugoni, M. Montorsi, C. Siligardi, F. Andreola, I. Lancellotti, E. Bernardo, L. Barbieri "Design of glass foams with low environmental impact" *Ceramics International* *Ceramics International* n. volume Volume 41, Issue 3, Part A, April 2015 - pp. da 3400 a 3408 ISSN: 0272-884
154. C. Ferrari, G. Santunione, A. Libbra, A. Muscio, E. Sgarbi, C. Siligardi, G.S. Barozzi "Review on Influence Of Biological Deterioration On The Surface Properties Of Building Materials: Organisms, Materials, And Methods" *International Journal of Design & Nature and Ecodynamics*, Volume 10 (2015), Issue 1, 21-39
155. X. Shi, G. Zhang, C. Siligardi, G. Ori, A. Lazzeri "Comparison of Precipitated Calcium Carbonate/Polylactic Acid and Halloysite/Polylactic Acid nanocomposites" *Journal of* Volume 2015, Article ID 905210, 11 pages <http://dx.doi.org/10.1155/2015/905210>
156. C. Mugoni, A. Licciulli, D. Diso, C. Siligardi "Lanthanum glass infiltrated alumina/alumina composites for dental prosthetic applications" *Ceramics International* 2015 Volume 41, Issue 10, Part A, December 2015, Pages 13090-13099
157. C. Ferrari, A. Muscio, C. Siligardi, T. Manfredini "Design of a cool color glaze for solar reflective tile application" *Ceramics International* (2015) Volume 41, Issue 9, Part A, November 2015, Pages 11106-11116
158. C. Ferrari, A. Libbra, F.M. Cernuschi, L. De Maria, S. Marchionna, A. Barozzi, C. Siligardi, A. Muscio "A composite cool colored tile for sloped roofs with high 'equivalent' solar reflectance" *Energy and Buildings* (2015) *Energy and Buildings*, Volume 114, 15 February (2016), Pages 221-226
159. G. Pia, C. Siligardi, L. Casnedi, U. Sanna "Porosity and pore size distribution influence on Sorptivity of ceramic tiles: Experimental findings and model predictions" *Ceramic International* 42 (8) (2016)
160. C. Mugoni, C. Siligardi, M. Montorsi "Structural origin of electrical conductivity of copper lithium metaphosphate glasses" *Journal of Non-Crystalline Solids* 447 (2016) 91-97
161. E. I. Cedillo-González, C. Mugoni, M. Montorsi, C. Siligardi "Evaluation of the correlations between temperature, humidity, incident UV light and the photocatalytic activity of TiO₂ films using a rationale approach" *Applied Surface Science* 378 (2016) 73-79
162. S. Barbi, P. Miselli, C. Siligardi "Failure analysis of LAS glass-ceramic for dental application" *Ceramics International* 43 (1-B) (2017) 1472-78
163. C. Siligardi, P. Miselli, E. Francia, M. Lassinantti Gualtieri "Board aerogel insulation vs mineral wool insulation building materials: thermal, microstructural, weathering and fire resistance behaviour" *Energy and Building*, 138, (2017) 80-87
164. C. Siligardi, S. Barbi, R. Casini, L. Tagliaferri, V. Remigio "Recycling of yttria-stabilized zirconia waste powders in glazes suitable for ceramic tiles" *Applied Ceramic Technology* 14 (6), (2017), 1236-1247
165. C. Mugoni, C. Gatto, A. Pla-Dalmau, C. Siligardi "Structure and luminescent properties of Dy₂O₃ doped barium bismuth borate glasses" *J. Non-Cryst. Solids* 471 (2017) 295-300
166. C. Ferrari, C. Mugoni, M. Montorsi, C. Siligardi "One a solar reflective ceramics based glazed for asphalt shingle" *Ceramics International* 43 (17), (2017) 14710-14717

167. E. Zerazion, M. Pini, C. Mugoni, C. Siligardi, P. Veronesi, A.M. Ferrari "E-LCA of two microwave absorbers obtained from slags of copper primary production", *Waste and Biomass Valorization* in press 2017
168. S. Barbi, C. Mugoni, C., Montorsi, M., C. Gatto, C. Siligardi, "Structural and optical properties of rare-earths doped barium bismuth borate glasses" *Journal of Non-Cryst. Solids* 481, (2018) 239-247
169. G. Broglia, C. Mugoni, C. Siligardi, M. Montorsi "Lithium and copper transport properties in phosphate glasses: A Molecular Dynamics study" *Journal of Non-Cryst. Solids* 481, (2018) 522-529
170. E.I. Cedillo-González, R. Riccò, S. Costacurta, C. Siligardi, P. Falcaro "Below room temperature: How the photocatalytic activity of dense and mesoporous TiO₂ coatings is affected" *Applied Surface Science*, 435, (2018) 769-775
171. C. Signorini, A. Nobili, E.I. Cedillo González, C. Siligardi "Silica coating for interphase bond enhancement of carbon and AR-glass Textile Reinforced Mortar (TRM)" *Composites Part B: Engineering* 141, (2018) 191-202
172. G. Santunione, C. Ferrari, C. Siligardi, A. Muscio, E. Sgarbi "Accelerated biological ageing of solar reflective and aesthetically relevant building materials" *Advances in Building Energy Research* (2018) 1-18
173. M. Lassinatti Gualtieri, M. Mugoni, S. Guandalini, A. Cattini, D. Mazzini, C. Alboni, C. Siligardi, "Glass recycling in the production of low-temperature stoneware tiles" *Journal of Cleaner Production* 197 (2018) 1531-1539
174. G. Pia, M. Lassinatti Gualtieri, L. Casnedi, F. Delogu, M. Meloni, C. Siligardi "Microstructural evolution in porous ceramics subjected to freezing-thawing cycles: Modelling experimental outcomes" *Ceramics International* 44(14) 16992-16998
175. S. Barbi, C. Mugoni, M. Montorsi, M. Affatigato, C. Gatto, C. Siligardi "Structural and optical properties of cerium oxide doped barium bismuth borate glasses" *Journal of Non-Crystalline Solids* 499 (2018) 183-188
176. M. Lassinatti Gualtieri, E. Colombini, D. Mazzini, T. Manfredini, C. Siligardi "The effect of alkaline earth carbonates on the microstructure and mechanical properties of impermeable and lightweight ceramics" *Journal of European ceramic Society* 38 (16) (2018) 5563-5568
177. EG. Moraes, M. Bigi, NP Stochero, S. Arcaro, C. Siligardi, A.P. Noaves de Oliveira, "Vitreous foams produced with EPS as pore former: processing and characterization", *Process Safety and Environmental Protection* 121 (2019) 12-19.
178. D. Settembre Blundo, F. Enrique García-Muiña, M. Pini, Lucrezia Volpi, C. Siligardi, A. M. Ferrari, "Sustainability as source of competitive advantages in mature sectors: The case of Ceramic District of Sassuolo (Italy)", *Smart and Sustainable Built Environment* February (2019) Doi 1-28 [10.1108/SASBE-07-2018-0038](https://doi.org/10.1108/SASBE-07-2018-0038).
179. M. C. Ariza-Tarazona, J. F. Villarreal-Chiu, V. Barbieri, C. Siligardi, E. I. Cedillo-González, "New strategy for microplastic degradation: Green photocatalysis using a protein-based porous N-TiO₂ semiconductor", *Ceramics International*, 45, (2019), 9618-24.
180. C. Signorini, A. Sola, A. Nobili, C. Siligardi, "Lime-cement textile reinforced mortar (TRM) with modified interphase", *Journal of Applied Biomaterials & Functional Materials*, (2019) 1-9.
181. L. Sangiacomo, EG. Moraes, NP. Stochero, S. Arcaro, A. Lenzi, R. Barbosa, C. Siligardi, A.P. Noaves de Oliveira, "Innovative thermal and acoustic insulation foam by using recycled ceramic shell and expandable styrofoam (EPS) wastes", *Waste Management* Volume 89, (2019) 336-344.
182. E. Zerazion, M. Pini, C. Mugoni, C. Siligardi, P. Veronesi, A.M. Ferrari, "E-LCA of two microwave absorbers obtained from slags of copper primary production", *Waste and Biomass Valorization*, 10, (2019) 733-745.
183. Mohaddes Khorassani, S., Siligardi, C., Mugoni, C., Pini M., Cappucci, G.M., Ferrari, A.M. "Life cycle assessment of a ceramic glaze containing copper slags and its application on ceramic tile" *International Journal of Applied Ceramic Technology* 17(1), (2020) 42-54
184. Mugoni, C., Rosa, R., Remigio, V.A., Ferrari, A.M., Siligardi, C. "Opportune inward waste materials toward a zero waste ceramic slabs production in a circular economy perspective" *International Journal of Applied Ceramic Technology* 17(1), (2020), 32-41
185. E. Truzzi, T.L. Nascimento, V. Iannuccelli, V., Costantino L., Lima E.M., Leo E., Siligardi C., Gualtieri, M.L., Maretti, E. "In vivo biodistribution of respirable solid lipid nanoparticles surface-decorated with a mannose-based surfactant: A promising tool for

- pulmonary tuberculosis treatment?" *Nanomaterials* 10 (3) (2020), 568
186. Cedillo-González, E.I., Hernández-López, J.M., Ruiz-Valdés, J.J., Barbieri, V., Siligardi, C. "Self-cleaning TiO₂ coatings for building materials: The influence of morphology and humidity in the stain removal performance" *Construction and Building Materials* 237, (2020), 117692
 187. Barbieri, V., Lassinantti Gualtieri, M., Manfredini, T., Siligardi, C. "Hydration kinetics and microstructural development of a magnesium oxysulfate cement modified by macromolecules" *Construction and Building Materials* 248, (2020), 118624
 188. L. McDonald, C. Siligardi, M. Vacchi, M. Zieser, M. Affatigato "Tellurium vanadate glasses: V⁴⁺ colorimetric measure and its effect on conductivity" *Frontiers in Materials*, volume 7, 13, 2020, 103
 189. B.E. Llorente-García, J.M. Hernandez-Lopez, A.A. Zaldivar-Cadena, C. Siligardi, E.I. Cedillo-Gonzalez "First insight into photocatalytic degradation of HDPE and LDPE microplastics by a mesoporous N-TiO₂ coating: effect of size and shape microplastics", *Coatings*, 10 (7) 2020, 658
 190. M.C. Ariza-Tarazona, J.F. Villareal-Chiu, J.M. Hernandez-Lopez, C. Siligardi, E.I. Cedillo-Gonzalez "Microplastic pollution reduction by carbon and nitrogen-doped TiO₂: effect of pH and temperature in the photocatalytic degradation process" *Journal of Hazardous Materials*, 395 (2020) 122632
 191. V. Barbieri, M. Gualtieri-Lassinantti, T. Manfredini, C. Siligardi "Wheat husk: a renewable resource for bio-based building materials" 251 (2020) 118909
 192. Governatori, M., Ferrari, C., Manfredini, T., Siligardi, C. Preparation and characterization of glass ceramic frits with high solar reflectance *Open Ceramics*, 2021, 6, 100091
 193. Alonso-Muñoz, S., González-Sánchez, R., Siligardi, C., García-Muñina, F.E. New circular networks in resilient supply chains: An external capital perspective *Sustainability (Switzerland)*, 2021, 13(11), 6130
 194. Mugoni, C., Rosa, R., Giovanardi, R., ...Andronenko, S.I., Misra, S.K. Synthesis and characterization of (68-x) CuO – xV₂O₅ – 32TeO₂ (x = 0–68 mol%) and (35-x) CuO – xV₂O₅ – 65TeO₂ (x = 0–35 mol%) glasses: Conduction mechanism, structure and EPR study *Materials Chemistry and Physics*, 2021, 266, 124488
 195. Vacchi, M., Siligardi, C., Demaria, F., ...González-Sánchez, R., Settembre-Blundo, D. Technological sustainability or sustainable technology? A multidimensional vision of sustainability in manufacturing *Sustainability (Switzerland)*, 2021, 13(17), 9942
 196. Vacchi, M., Siligardi, C., Cedillo-González, E.I., Ferrari, A.M., Settembre-Blundo, D. Industry 4.0 and smart data as enablers of the circular economy in manufacturing: Product re-engineering with circular eco-design *Sustainability (Switzerland)*, 2021, 13(18), 10366
 197. Malchiodi, B., Siligardi, C., Pozzi, P. Insaturated Polyester-Based Polymer Concrete Containing Recycled Cathode Ray Tube Glass Aggregate *Journal of Composites Science*, 2022, 6(2), 47
 198. Cedillo-González, E.I., Governatori, M., Ferrari, C., Siligardi, C. Solar reflective ink-jet printed porcelain stoneware tiles as an alternative for Urban Heat Island mitigation *Journal of the European Ceramic Society*, 2022, 42(2), pp. 707–715
 199. Sgarlata, C., Formia, A., Siligardi, C., Ferrari, F., Leonelli, C. Mine clay washing residues as a source for alkali-activated binders *Materials*, 2022, 15(1), 83
 - 200.

Cristina Siligardi