

## CV PROF.SSA ISABELLA LANCELLOTTI

Orcid

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Hindex 41, 165 documents on Scopus, 4833 citations

### Academic Career

- In 1995 degree in Chemistry at the University of Modena (Italy)
- In 2000 PhD in Chemistry with a thesis entitled "Oxide based Inorganic complex systems starting from waste materials"
- 2000-2001 post doctoral grant in the field of materials science and technology.
- In 2003 post doctoral research position on "Developing of innovative processes for the disposal, recovery and valorisation of by-product from industry and waste treatment".
- From 1-12-05 assistant professor in Chemistry
- From 31-10-2015 up to now Associate Professor
- From April 2018 national qualification for full professor

### Teaching activities and PhD supervision

University of Modena and Reggio Emilia

From AA 2005-2006 to 2008-2009

§ Chemistry B/Lab (3cfu) for bachelor in Materials Engineering

From AA 2006-2007 to 2008-2009

§ Principles of chemistry for environment (6cfu) bachelor in Environmental Engineering

From 2009-2010 to 2020-2021

§ Fundamentals of chemistry 9CFU, bachelor in Civil and Environmental Engineering, Curr. Environment

• Chemical technology for wastes treatment (3cfu on the total 6cfu) for Master Degree in Engineering for environmental sustainability

From 2021-2022 to 2023-2024

§ Fundamentals of chemistry for environment 9CFU, bachelor in Civil and Environmental Engineering, Curr. Environment,

Laboratory of chemistry and construction materials for LP in Constructions and management of territory (3cfu on the total 6cfu).

• Inorganic and organic chemistry for bachelor in Biomedical Engineering University of Verona (2cfu on the total 6cfu).

Tutor and co-tutor of PhD students in School of Industrial and Territory Engineering "Enzo Ferrari":

Elena Bursi XXX cycle

Fabiana Altimari XXXVII cycle

### Other work experience

In 2009 she participated to an international Round Robin for the study of liquidus temperature of glasses for the immobilization of radioactive wastes.

In 2008 she participated to the constitution of the National Research Group on Geopolymers during the Workshop "I Geopolimeri" in Modena Italy.

### Keynotes and Invited Lectures

#### 2015

-Conference Geopolymers: The route to eliminate waste and emissions in ceramic and cement manufacturing, in Hernstein, Austria.

#### 2018

-CIMTEC 14th Ceramics Congress, Perugia, Italy

-Congress MS&T2018, 14-18 October, 2018 Columbus, Ohio (USA),

**2019**

-Seminar on “Geopolymers and Alkali Activated Materials”, XVI ECerS Conference - Torino, June 20th - 21st 2019.

**2020**

-44th Int. Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, Florida 26th-31st Jan 2020

**2021**

-45th Int. Conference and Exposition on Advanced Ceramics and Composites, Feb 8-12th 2021

-2nd Workshop-symposium vitrogeowastes: Vitrification, Geopolymerization, Wastes Management, Green Cements and Circular Economy, 23-26 May, 2021 Baeza, Spain.

-ENGINEERING AND CIRCULAR ECONOMY: THE ROAD TO SUSTAINABILITY, 27- 29 September 2021 Baeza, Spain.

**2022**

-Invited lecture at 15th Ceramics Congress, 20-24 June 2022, PERUGIA (Italy)

-Keynote at WOOL2LOOP project: final Conference keynote: 26 october, 2022 Lisbon Portugal

-Keynote at ECI conference, Alkali Activated Materials and Geopolymers: Sustainable

**2023**

Construction Materials and Ceramics Made Under Ambient Conditions, 28 Maggio – 2 Giugno, 2023 entitled “Alkali activation for management of Construction and demolition wastes coming from earthquake”

-Invited lecture at V JORNADAS DE JÓVENES CIENTÍFICOS EN MATERIALES DE CONSTRUCCIÓN, Workshop "Situación actual y perspectiva de los materiales de construcción", Madrid, 27-28 NOVEMBRE 2023 entitled “Alkali activation and sustainability: valorization and inertization of wastes”.

-Invited lecture at VitroGeoWaste III VITRIFICATION and GEOPOLIMERIZATION of WASTES for INERTIZING and/or RECYCLING, Third Edition, 9-10 November, 2023 Sophia, Bulgaria.

## **PATENT**

-Title: “Procedure for liquid waste inertization”, Nr 0001410758, 2014

-Title: “use of char from gasification and pyrolysis with other wastes for the formulation of lightweight materials as fertilizers and polymers for thermal insulation”, Nr: 102018000009844, 30/09/2020.

-Title: “PLANT AND PROCEDURE FOR THE ABATEMENT OF POLLUTANTS ON A GASEOUS FLOW” Extension PCT: WO2021161351, International Application No.PCT/IT2021/050012, International Filing Date 15.01.2021.

## **Editorial activity**

Member of the Editorial Board of the international journal Materials MDPI;

Associate Editors of Frontiers in Sustainability - Alternative Materials

Evaluation of the book Paolo Chiorboli, Fondamenti di Chimica, UTET Università in 2021

Guest Editor for the Special Issue:

“Novel cementitious matrices for heavy metal encapsulation” Frontiers in Chemistry

## Congress organization and participation to Scientific Panel

- 4° National Workshop, GRUPPO INTERDIVISIONALE DI GREEN CHEMISTRY-CHIMICA SOSTENIBILE, 10 Giugno 2016, Florence, Italy
- Congress Engineering for environment and territory, III Edizione, Modena, 6-7 giugno 2017, Dip. di Ingegneria “Enzo Ferrari”, Università degli Studi di Modena e Reggio Emilia
- 5° National Workshop GRUPPO INTERDIVISIONALE DI GREEN CHEMISTRY-CHIMICA SOSTENIBILE, Dipartimento di Chimica, Università “La Sapienza”, 16 Giugno 2017, Roma, Italy
- Co-organizer of the session Eco-Friendly and Sustainable Ceramics — Innovative Binders and Cement Blends al MS&T2018, 14-18 Ottobre, 2018 Columbus, Ohio (USA)
- 7° National Workshop GRUPPO INTERDIVISIONALE DI GREEN CHEMISTRY-CHIMICA SOSTENIBILE, 5 Luglio 2019, Padova, Italy
- Congress 5th International Conference Wastes 2019, September 4-6, 2019, Lisbona, Portugal.
- 8° National Workshop GRUPPO INTERDIVISIONALE DI GREEN CHEMISTRY-CHIMICA SOSTENIBILE, 29 Settembre 2020, online
- Congress ENGINEERING AND CIRCULAR ECONOMY: THE ROAD TO SUSTAINABILITY, Baeza (Spain) 27- 29 Settembre 2021.
- Congress New frontiers of innovative and green materials in restoration of cultural heritage and construction sector. 24 – 25 febbraio 2022, Catania Italy.
- Congress Non-traditional Cement and Concrete NTCC 2023 June 25-28, 2023 Brno, Czech Republic

## Funding

2024: HORIZON-CL4-2023-TWIN-TRANSITION-01-31, METAWAVE High-temperature heating processes with breakthrough microwave and digital technologies for increased energy efficiency, 2024-2027.

2023: PROGETTO DI RICERCA DI RILEVANTE INTERESSE NAZIONALE (PRIN): Advanced Chemical Characterization of Heavy metals and Anions encapsulated in geopolymers with synthetic redox environment ACCHA, 2022LKEKJ7.

2023: PRIN 2022 PNRR project #P2022S4TK2 GLASS-based TREATments for Sustainable Upcycling of inorganic RESidues (GLASS\_Trea.S.U.Res)

2020 FAR 2020 Progetto di Ricerca Interdisciplinare, GREW - NUOVO SISTEMA INTEGRATO PER COLTURE DOMESTICHE E GIARDINI VERTICALI (2021-2022)

2018: Lightweight alkali-activated composite foams based on secondary raw materials, FLOW, Eramin 2 EU project

2018: AGM for CuHe, Materiali di nuova generazione per il restauro dei Beni Culturali: nuovo approccio alla fruizione PNR 2015-2020, Domanda: ARS01\_00697

2018: Progetto Regione Emilia Romagna PO FSE 2014/2020 Obiettivo Tematico 10”, Materiali Funzionali per uno sviluppo sostenibile. Tutor di un assegno di ricerca, 2018-2019.

2017: FORCE OF THE FUTURE EU, Life project:LIFE 16 ENV/IT/000307

2017: FAR 2017 Progetto di Ricerca Interdisciplinare, La valorizzazione degli scarti agroindustriali tra diritto e scienza: processi innovativi dalla sperimentazione all’industrializzazione nel contesto legale (2018-2019).

2016: Recupero energetico biomasse alvei fluviali (REBAF) National project POR-FESR

2014: -Progetto LIFE13 ENV/IT/000593 LIFE for life's material - Titanium life in titanium hands: advanced use and reuse, 2014-2017 .

2014: Progetto LIFE11 ENV/IT/036: "low resources low energy", capofila: Ceramiche Majorca, luglio 2012- giugno 2014 .

2014: Progetto LIFE13 ENV/IT/000535: "Sustainable recycling in polyvalent use of energy saving building elements", capofila: Mamma Rosa's Project S.r.l., agosto 2014- gennaio 2017 .

2014: Progetto LIFE13 ENV/IT/000655: NATURè“New aluminum and titanium use and recycling for the long-term protection of steel in biocorrosive special environments”, capofila: SACME S.r.l., agosto 2014- gennaio 2017 .

#### **Membership of scientific societies**

Member of Italian Chemical Society

Member of Interdivisional group in Green Chemistry of the Italian Chemical Society

Member of Italian Ceramic Society

Member of Italian Association of Chemistry for Engineering

In particular in 2016-2018 and 2018-2021 part of Directive Council of Interdivisional group in Green Chemistry of the Italian Chemical Society

#### **Administrative role and position responsibility**

2013-2023 member of board of PhD School in Industrial and territory engineering “Enzo Ferrari”.

Since 2024 member of board of PhD School in CIVIL, ENVIRONMENTAL AND MATERIALS ENGINEERING

Since 2012 to 2019 Erasmus Coordinator for the Department of Engineering “Enzo Ferrari”.

Since 2019 responsible of the international activities for the Department of Engineering “Enzo Ferrari”.

Updated at 2 July 2024