

Vincenzo M. Sglavo: curriculum vitae

University education

"Laurea (Master) cum laude" in Materials Engineering (University of Trento, Italy, 1988)

Appointments

Full Professor of Materials Science and Technology Department of Industrial Engineering, University of Trento, Italy, 2019 to date)

Associated Professor of Materials Science and Technology (Faculty of Engineering - Department of Industrial Engineering, University of Trento, Italy, 1999-2018)

Adjunct Professor (Materials Research Institute, The Pennsylvania State University, USA, 2001)

Post Doctoral Fellow (Department of Materials Science and Engineering, The Pennsylvania State University, USA, 1993-1994)

Assistant professor (Department of Materials Engineering, University of Trento, Italy, 1989-1999)

Teaching and research activity

Course of Technologies and applied chemistry for environment protection (University of Trento, 1995-2000)

Course of Ceramic processing and engineering - in English (Faculty of Engineering - Department of Industrial Engineering, University of Trento, 1995 to date)

Course of Glass engineering - in English (Faculty of Engineering - Department of Industrial Engineering, University of Trento, 2005 to date)

Teacher at the International Doctoral School of Materials Science & Engineering, University of Trento

Advisor of more than 90 "laurea" (Master) thesis and of 28 PhD students

Manager and supervisor for more than 30 research projects funded by Italian and foreign private companies, NATO, Italian government, European Community and University of Trento

Referee for several international scientific journals and advisor for Italian, German, French, Austrian, Israeli, Serbian and Russian governments for the evaluation of research&development projects.

Fundamental research interests

Fatigue and fracture phenomena in glasses and ceramics

Chemical strengthening of glass by ion-exchange

Design and production of high strength-high reliability glasses and ceramics

Sintering of ceramics under electrical field

Materials for Solid Oxides Fuel Cells (SOFC)

Other research topics

Reuse of industrial wastes for the production of new materials

Oxychloride cements

Bioceramics

Additive manufacturing of inorganic materials

Other informations

Author of more than 200 scientific papers and of 12 patents

Bibliometrics parameters (according to Scopus): documents = 208, h-index = 29, citations 3104

• Associated Editor of the Journal of the American Ceramic Society

• Associated Editor of the International Journal of Ceramic Engineering and Science (IJCES) - The American Ceramic Society

• Member of the American Ceramic Society and the Society of Glass Technology

• Member of the Italian association of professional engineers

LUCA FAMBRI

Professore Associato

Luca Fambri è Professore Associato presso il Dipartimento di Ingegneria Industriale dell'Università di Trento

SSD : ING-IND/22 Scienza e Tecnologia dei Materiali.

ERC : PE8_8 Materials engineering (metals, ceramics, polymers, composites, etc.)

ORCID <http://orcid.org/0000-0002-8627-8833>

ORCID : 0000-0002-8627-8833

IRIS ID : rp03246

Author ID: 7003710369

H-Index : 26

1960

Pubblicazioni

Luca Fambri è autore o co-autore di più 110 articoli pubblicati su riviste internazionali con referaggio, 12 capitoli di libri, 1 capitolo in enciclopedia (italiana), 3 brevetti italiani.

Inoltre è autore o coautore di più di 190 contributi /proceedings presentati a convegni nazionali ed internazionali.

Secondo database SCOPUS nel 2019, le pubblicazioni hanno avuto un totale di 2559 citazioni, portando ad a h-index di 26 (escludendo le auto-citazioni: 2354 citazioni totali con h-index di 24) e i10-index di 73 secondo Google Scholar.

Aree di ricerca.

Polymer processing. Polymer blends. Fiber processing. Thermal and mechanical characterization of polymeric and composite materials. Degradable polymers and in vitro degradation. Biomaterials. Polymeric composite and nanocomposite.

BREVE CARRIERA UFFICIALE

Formazione

1979-1985 Laurea in Chimica, Università di Parma

Carriera Accademica

1988-1999 Research Scientist (Dipartimento di Ingegneria dei Materiali, Università di Trento,

1993 Visiting Research Associate (Virginia Commonwealth University, USA)

2000-2012 Professore Associato (Facoltà di Ingegneria, Università di Trento)

2013- Professore Associato (Dipartimento di Ingegneria Industriale, Università di Trento)

SSD:ING-IND/22 Scienza e Tecnologia dei Materiali

Attività Didattiche

1988-2004 Lezioni e Laboratorio nel corso of Scienza e Tecnologia dei Materiali Polimerici

1988-2005 Lezioni e Laboratorio nel corso of Scienza e Tecnologia dei Materiali Compositi

1993 - 2016 Ingegneria dei Materiali Macromolecolari poi Plastics Engineering

2001 ad oggi Scienza e Tecnologia dei Materiali 2

2004 ad oggi Doctorate School in Materials Engineering (various courses)

2011 - 2015 Polymer Science and Technology

2012-2013 Foamed Polymeric Materials

2016 ad oggi Polymeric Materials Engineering

CURRICULUM VITAE

Surname and Name	Maniglio Devid
Address	
Phone n.	
email	
Nationality	
Date of birth	
Fiscal Code	
ORCID	0000-0002-1653-861X
ResearcherID	C-4187-2014
Scopus Author ID	6506882288

EDUCATION AND TRAINING

14/02/2003 Doctorate in Materials Engineering, University of Trento

17/12/1999 Master degree in Physics, University of Trento

LANGUAGE COMPETENCE

Italian: mother tongue

English: fluent

Spanish: intermediate

WORK EXPERIENCE

01/06/2019 – Today :	Associate professor at Department of Industrial Engineering of the University of Trento.
01/06/2016 – 30/05/2019:	Assistant Professor (Ricercatore a t.d., art. 24 c.3-B L. 240/10) at the University of Trento
02/04/2013 – 01/04/2016 :	Assistant Professor (Ricercatore a t.d., art. 24 c.3-A L. 240/10) at the University of Trento
01/05/2011 - 30/04/2013 :	Research fellow (Assegnista di ricerca) at the University of Trento
01/08/2010 – 30/04/2011 :	Research fellow (Collaboratore coordinato continuativo) at the University of Trento
01/08/2007 – 31/07/2010 :	Research associate (Titolare di contratto di ricerca) at the University of Trento
01/03/2007 – 31/07/2007 :	Research fellow (Borsista post-doc) at the University of Trento
01/03/2004 – 28/02/2007 :	Researcher (Ricercatore a t.d. presso Ente di Ricerca) at INSTM - Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (Firenze)
04/11/2002 – 29/02/2004 :	Research fellow at the University of Trento University of Trento (Assegnista di ricerca)

RESEARCH ACTIVITY

MAIN RESEARCH INTERESTS AND EXPERTIES

- Bioactive materials
- Principles and applications of tissue engineering and regenerative medicine
- Interactions between materials, proteins and cells
- Chemical, physical and biological characterization of materials for biomedical applications
- Surface modifications for biomedical applications, self-assembly mechanisms, RF plasma surface activation/modification/etching, surfaces wetting mechanisms and wettability, applications of soft lithography techniques for chemical/physical surface patterning.
- Micro- and nano-structured materials for biomedical applications, among which micro- and nano-fibers, micro-beads, micro-emulsions for drug delivery
- Natural-derived polymers for biomedical applications
- Bioreactors for Tissue Engineering
- Scaffolds fabrication techniques for Tissue Engineering, with particular focus on computer assisted 3D microfabrication from high concentrated polymer solutions, electrospinning of natural and synthetic polymers, electrodeposition of natural biopolymers on metal substrates, gas foaming.
- Biosensors for ultra low concentration biomolecules/particles detections in solutions.
- Core shell FeOx/polymer or FeOx / Au nanoparticles for active cancer targeting, treatment and enhanced MRI contrast.
- Protocols and methods for cell encapsulation and cell delivery to address organ printing.

PUBLICATIONS LIST

See: <https://orcid.org/0000-0002-1653-861X>

Referee activity

Referee for international journals: Biomaterials, Biomacromolecules, Acta Biomaterialia, Journal of Bioactive and Compatible Polymers, Tissue Engineering A and B, Journal of Biomedical Materials Research: Part A, Advanced Materials, Colloids and Surfaces B: Biointerfaces.

Review Editor on the Editorial Board of Tissue Engineering and Regenerative Medicine (specialty section of Frontiers in Bioengineering and Biotechnology).

RESEARCH/LECTURING ACTIVITY ABROAD

- Research on self-assembly mechanisms through Breath Figures technique on UV crosslinkable polymeric solutions at the Department of Mechanical Engineering at the University of Colorado, prof. Yifu Ding, January-August 2010 (7 months).
- Research on the electrodeposition of fibroin and chitosan by means of Quartz Microbalance at the Instituto de Ciencia y Tecnologia de Polimeros in Madrid, Consejo Superior de Investigaciones Cientificas (CSIC), prof. Julio San Roman, July-December 2011 (5 months).
- Invited lecturer at: Chonbuk National University (South Korea, Chonbuk National University, Dept PolymerNano Sci & Tech & Dept BIN Fusion Tech), Chulalongkorn University (Thailand, Department of Chemical Engineering) in the framework of the MSCA-RISE REMIX project, Shanghai University | SHU (Republic of China, Department of Chemical Engineering and Technology) in the framework of Erasmus+ program.

FUNDED PROJECTS

PI and coordinator of the PRISMA project named "Nanostructured surfaces having a specific biological response" (75000 €, 24 months project involving 3 research units and supported by the National Interuniversity Consortium of Materials Science and Technology, INSTM) - 2005.

Winner of a "post doc" grant from Provincia Autonoma di Trento with a project entitled "Evaluation of the interaction between cells and materials for applications in the field of the bio-hybrid materials" (150000 €, 3 years) - 2004.

Winner of a "post doc" grant from Provincia Autonoma di Trento with a project entitled "Realization of hepatic constructs as alternatives to animal models to test potentially nocive molecules" (150000 €, 3 years) - 2009.

HONOURS AND AWARDS

Elsevier prize for the "Top-50 most cited article" of the Elsevier journals in the period 2004-2007 for the paper: C. Della Volpe, D. Maniglio, M. Brugnara, S. Siboni, M. Morra, "The solid surface free energy calculation: I. In defense of the multicomponent approach"

MEMBERSHIPS

- Member of the National Interuniversity Consortium of Materials Science and Technology
- Member of the TERMIS (Tissue Engineering and Regenerative Medicine International Society)

SCIENTIFIC TRANSFER

- CEO of "Bio Tools s.r.l.", start-up company of the University of Trento whose activity was focused on the design, realization and production of materials, devices and tools for biomedical use to support research activity and applications in the field of regenerative medicine - 2010-2019.
- Patent: D. Maniglio, C. Migliaresi, A. Motta, M. Preghenella, E. Servoli, "Covering and/or impregnating method", Pub. n. 1369678, 12/12/2006.
- Patent: D. Maniglio, W. Bonani, "Method for manufacturing porous scaffolds for biomedical uses and scaffolds thereof" n. 1427718, 17/03/2017.

Trento, 29/08/2020

