



Elena Togliatti

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WORK EXPERIENCE

DIGITAL FABRICATION LABORATORY TECHNICIAN – UNIVERSITY OF PARMA – 11/2024 – Current – PARMA (PR), ITALY

Department: Engineering and Architecture

I manage a 3D printing lab, where I provide technical support, training and operational guidance to students, researchers and faculty members. I also contribute to lab-based engineering courses.

LECTURER – UNIVERSITY OF PARMA – 01/03/2026 – Current – ITALY

I teach the course "Materials Engineering Fundamentals" in the Bachelor's Degree program "Materials Science" for the 2025/2026 academic year.

LECTURER – UNIVERSITÀ DEGLI STUDI DI PARMA – 30/09/2025 – Current – PARMA (PR), ITALY

I teach the course "Polymeric Materials for Additive Manufacturing" in the master's degree program "Functional and Sustainable Materials" for the 2025/2026 academic year.

LECTURER – ITS MAKER – 12/2024 – 12/2024 – FORNOVO DI TARO (PARMA), ITALY

I held a 16-hour course on the properties of different classes of materials for additive manufacturing for the two-year post-diploma technical specialization course in "Motorsport Composite Materials and 3D Printing"

GUEST PH.D. – WAGENINGEN UNIVERSITY AND RESEARCH – 03/2024 – 07/2024 – WAGENINGEN, NETHERLANDS

Department: Environmental technology

I was a guest PhD student in the Department of Environmental Technology at WUR, where I researched the anaerobic fermentation of PHBV with bioplasticiser additives to optimise biodegradability and material performance. Supervised by: dr.ir. David Strik

PH.D. CANDIDATE – UNIVERSITY OF PARMA – 11/2021 – 10/2024 – PARMA, ITALY

Department: Engineering for Industrial Systems and Technologies

Title of the thesis: Realization and investigation of the properties of biocomposites based on biopolymers for novel application in agri-food and biomedical fields

Supervised by: Prof. Daniel Milanese

RESEARCH FELLOW – INSTM - INTERUNIVERSITY CONSORTIUM FOR MATERIALS SCIENCE AND TECHNOLOGY –

05/2021 – 10/2021 – PARMA, ITALY

I studied the dynamic-mechanical properties and composting degradation of PBAT-based composites filled with bioresorbable glass in order to improve their mechanical performance and environmental sustainability.

EDUCATION AND TRAINING

Parma, Italy
MASTER DEGREE IN ENGINEERING FOR THE FOOD INDUSTRY University of Parma

Final grade 110L/110 |
Thesis Preparation and characterisation of biodegradable polymeric composites for applications to agri-food packaging
Link <https://doi.org/10.1002/app.52370>

Turin, Italy
BACHELOR'S DEGREE IN CHEMICAL AND FOOD ENGINEERING Polytechnic of Turin

LANGUAGE SKILLS

Mother tongue(s): ITALIAN
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B1	B1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

3D-printing of phosphate glass biocomposite scaffolds for biomedical applications

Manuscript Status: In preparation
Authors: Togliatti, E., Lenzi, L., Morselli, D., Degli Esposti, M., Fabbri, P., Musiari, F., Milanese, D., Sciancalepore, C.*

High-Capacity Data Decoding from Miniaturized Magnetic Tags for Anti-Counterfeiting and Reliable Identification

Manuscript Status: Submitted
Authors: Gallo, M., Pradhan, G., Zago, S., Scaglione, F.*, Togliatti, E., Milanese, D., Sciancalepore, C.*, Malerba, M., Celegato, F., Tiberto, P., Barrera, G.*

2026
[Anaerobic Fermentation of Poly\(Hydroxybutyrate-co-hydroxyvalerate\) plasticized with Glycerol Trilevulinate into Volatile Fatty Acids](#)

Authors: Togliatti, E., Jin, Y., Lenzi, L., Morselli, D., Degli Esposti, M., Fabbri, P., Milanese, D., Strik, D.*, Sciancalepore, C.* | Journal Name: ACS Omega | Volume, Issue and Pages: Volume 11, Issue 14

2024
[Enhancing melt-processing and 3D printing suitability of polyhydroxybutyrate through compounding with a bioplasticizer derived from the valorization of levulinic acid and glycerol](#)

Authors: Togliatti E., Lenzi L., Degli Esposti M., Castellano M., Milanese D., Sciancalepore C., Morselli D., Fabbri P. | Journal Name: Additive Manufacturing | Volume, Issue and Pages: Volume 89, Page 104290

2022
[Flexible PBAT-based composite filaments for tuneable FDM 3D printing](#)

Authors: Sciancalepore C., Togliatti E., Marozzi M., Rizzi F., Pugliese D., Cavazza A., Pitirollo O., Grimaldi M., Milanese D. | **Journal Name:** ACS Applied Bio Materials | **Volume, Issue and Pages:** Volume 5, Issue 7, Pages 3219–3229

2022

Design of mechanical properties of poly(butylene-adipate-terephthalate) reinforced with zein-TiO₂ complex

Authors: Togliatti E., Grimaldi M., Pitirollo O., Cavazza A., Pugliese D., Milanese D., Sciancalepore C. | **Journal Name:** Material Design & Processing Communications | **Volume, Issue and Pages:** Issue 1, Page 6496985

2022

Viscoelastic Characterization and Degradation Stability Investigation of Poly(butylene-adipate-coterephthalate) – Calcium-Phosphate Glass Composites

Authors: Togliatti, E., Milanese, D., Pugliese, D., Sciancalepore, C. | **Journal Name:** Journal of Polymers and the Environment | **Volume, Issue and Pages:** Volume 30, Pages 3914-3933

2022

Preparation and characterization of innovative poly(butylene adipate terephthalate)-based biocomposites for agri-food packaging application

Authors: Sciancalepore, C., Togliatti, E., Giubilini, A., Pugliese, D., Moroni, F., Messori, M., Milanese, D. | **Volume, Issue and Pages:** Volume 139, Issue 24, Page 52370

2022

Preparation and characterization of PBAT-based biocomposite materials reinforced by protein complex microparticles

Authors: Togliatti, E*, Laporta, C., Grimaldi, M., Pitirollo, O., Cavazza, A., Pugliese, D., Milanese, D., Sciancalepore, C. | **Journal Name:** Materials proceedings, 2nd International Online Conference on Polymer Science (IOCPS) | **Volume, Issue and Pages:** Volume 7, Issue 1, Page 20

● **CONFERENCES AND SEMINARS**

28/05/2025 – 30/05/2025 Pisa, Italy

Macrogiovani2025

SLS-printed electrically conductive PA-graphene composites

Elena Togliatti, Corrado Sciancalepore, Roberto Giovanardi, Henrik Andersson, Luke Bond, Magnus Larsson, Magnus Engholm, Daniel Milanese*

Participation as Oral presentation.

08/09/2024 – 11/09/2024 Naples, Italy

XXV AIM National Conference (Italian Association of Macromolecular Science and Technology)

Anaerobic fermentation of PHBV with bioplasticizer for potential application in biological recycling

Togliatti E., Jin Y., Milanese D., Strik D. P. B. T. B., Lenzi L., Degli Esposti M., Morselli D., Fabbri P., Sciancalepore C.*

Participation as Oral presentation.

09/06/2024 – 12/06/2024 Cagliari, Italy

XIV INSTM Conference on Materials Science and Technology

Study of potential biological recycling through anaerobic fermentation of PHBV blended with bioplasticizer

Togliatti E., Jin Y., Strik D. P. B. T. B., Lenzi L., Morselli D., Degli Esposti M., Fabbri P., Milanese D., and Sciancalepore C.*

Participation as Poster.

Preparation and characterisation of FDM 3d-printed biocomposite scaffolds for biomedical applications

Santolini c., Togliatti E., Lenzi L., Gallichi-Nottiani D., Morselli D., Degli Esposti M., Sciancalepore C., Fabbri P., Lousteau J., Milanese D.*

Participation as Oral presentation.

24/10/2023 – 27/10/2023 Turin, Italy

ICPMAT 2023 - 17th International Conference on the Physical Properties and Application of Advanced Materials

Characterization of plasticized poly(hydroxybutyrate-co-valerate) (PHBV) for 3D printing applications

E. Togliatti, L. Lenzi, M. Degli Esposti, P. Fabbri, D. Gallichi Nottiani, D. Milanese, D. Morselli e C. Sciancalepore*

Participation as Oral presentation.

04/09/2022 – 07/09/2022 Trento, Italy

XXIV AIM National Conference (Italian Association of Macromolecular Science and Technology)

Design of mechanical properties of poly(butylene-adipate-terephthalate) reinforced with zein-TiO₂ complex

E. Togliatti, M. Grimaldi, O. Pitirillo, A. Cavazza, D. Pugliese, D. Milanese, C. Sciancalepore*

Participation as Oral presentation.

16/06/2022 – 17/06/2022 Florence, Italy

Macrogiovani2022

Viscoelastic properties and degradation of poly (butylene-adipate-terephthalate) – calcium-phosphate glass composites

Elena Togliatti, Daniel Milanese, Diego Pugliese, Corrado Sciancalepore*

Participation as Oral presentation.

25/05/2022 – 27/05/2022 Turin, Italy

Polymers 2022 - New Trends in Polymer Science: Health of the Planet, Health of the People

Characterization of Biodegradable PBAT-based Composites: Dynamic-Mechanical Analysis and Degradation Behaviour

Elena Togliatti, Daniel Milanese, Diego Pugliese, Corrado Sciancalepore*

Participation as Poster.

05/09/2021 – 09/09/2021 Ischia, Italy

TOP Conference 2021

Novel PBAT-based biocomposites reinforced with bioresorbable phosphate glass micro-particles

Corrado Sciancalepore, Elena Togliatti, Diego Pugliese, Alberto Giubilini, Massimo Messori, Daniel Milanese*

Participation as co-author.

15/09/2021 – 18/09/2021 Cagliari, Italy

AIMAT2021

Preparation and characterization of polymer-based biocomposites for agri-food packaging applications

Corrado Sciancalepore, Elena Togliatti, Diego Pugliese, Alberto Giubilini, Massimo Messori, Daniel Milanese*

Participation as co-author.