

Output: Pubblicazioni, brevetti e congressi derivanti del Progetto SOLARIS di MICS al 2025

AUTHORS	TITLE	REF.	MICS PARTNERS	PRJ ID	REF
Mirpoor S.F., Corrado I., Di Girolamo R., Dal Poggetto G., Panzella L., Borselleca E., Pezzella C*, Giosafatto C.V.L. -	<i>Manufacture of active multilayer films made of functionalized pectin coated by polyhydroxyalkanoates: A fully renewable approach to active food packaging</i>	j.polymer.2023.126136 Polymer, 2023, 281, art. no. 126136	UNINA	4.1	4.3.1
Ferraris S., Gamna F., Nogarole, M., Florio C.	<i>Zeta potential electrokinetic measurements on solid samples: potentialities in the leather field</i>	CPMC (Cuoio, Pelli, Materie Concianti) Vol XCIX n.3 2023 ISSN: 0011-3034	PoliTo SSIP	4.1	4.2.1
Carraro M.	<i>Advancements in the use of wastes-derived polysaccharides for leather tanning and finishing</i>	<i>Italian Leather Research Institute Magazine</i> CPMC (Cuoio, Pelli, Materie Concianti) Vol XCIX - 2023/02 ISSN: 0011-3034	UniPD	4.1	4.2.2
Florio C.	<i>SOLARIS – Sustainable Options for Leather Advances and Recycling Innovative Solutions</i>	CPMC (Cuoio, Pelli, Materie Concianti) Vol XCIX - 2023/02 ISSN: 0011-3034	SSIP	4.1	4.2.1
Florio C.	<i>First year for MICS: The Actions of the Made in Italy Circolare e Sostenibile Extended Partnership and the Impact on the Leather Supply Chain</i>	CPMC (Cuoio, Pelli, Materie Concianti) Vol XCIX n.3 2023 ISSN: 0011-3034.	SSIP	4.1	4.2.1
Pezzella C.	<i>Integrated biorefineries for the valorization of waste biomasses: a bridge between the agri-food and tanning industries</i>	<i>Italian Leather Research Institute Magazine</i> CPMC (Cuoio, Pelli, Materie Concianti) Vol XCIX - 2023/02 ISSN: 0011-3034	UNINA	4.1	4.2.2
Turco R., Vitiello R.	<i>From the oleochemical sector a possible alternative to chlorinated paraffins in the fatliquoring of leathers.</i>	<i>Italian Leather Research Institute Magazine</i> CPMC (Cuoio, Pelli, Materie Concianti) Vol XCIX - 2023/02 ISSN: 0011-3034	UNINA	4.1	4.3.1
Grifasi N., Piumetti M., Liguori B., Caputo D.	<i>Chromium recovery from tannery wastewater by zeolite-based materials: a circular and sustainable approach</i>	CPMC (Cuoio, Pelli, Materie Concianti) n.3 2023 vol XCIX ISSN: 0011-3034	UNINA PoliTo	4.1	4.3.3
Corrado, I., Argenziano, R., Borselleca, E., Moccia, F., Panzella, L., Pezzella, C.	<i>Cascade disassembling of spent coffee grounds into phenols, lignin and fermentable sugars en route to a green active packaging.</i>	Separation and Purification Technology, 334, 125998.	UNINA	4.1	4.2.2
Corrado, I., Borselleca, E., Dal Poggetto, G., Staiano, I., Alfieri, M. L., Pezzella, C.	<i>Exploitation of cardoon roots inulin for polyhydroxyalkanoate production.</i>	Industrial Crops and Products, 214, 118570.	UNINA	4.1	4.3.1
Abbà L., Fina A., Carosio F.	<i>Use of leather wastes and nanocellulose for the development of lightweight and flame-retardant composite materials -</i>	- Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol C n.1 2024 ISSN: 0011-3034	POLITO	4.1	4.2.3
Florio C.	<i>- The frontiers of the new smart and circular leather -</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol C n.1 2024 ISSN: 0011-3034-annex	SSIP	4.1	4.2.3
Florio C.	<i>From basic research on Circular and Sustainable Leather, the tools to support the primacy of Leather in Circular Bioeconomy-</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/03 ISSN: 0011-3034 -annex	SSIP	4.1	4.3.1
Florio C.	<i>Approaches and new technologies for non-destructive product and process control in the tanning industry</i>	- Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/02 ISSN: 0011-3034	SSIP	4.1	4.2.1
Spena P.L., De Maddis M., Panza L., RazzaV., Lombardi F., Florio C. - Italian Leather	<i>Quality-Related Innovation: Use of Thermal Imaging in the Tanning Industry</i>	Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/02 ISSN: 0011-3034 -annex	POLITO SSIP	4.1	4.2.1
Ventre M., Cimmino C.	<i>Micromechanical approach for the characterization of leather</i>	- Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/02 ISSN: 0011-3034	UNINA	4.1	4.2.1
Preziosi V., Capuano A., Florio C., Caputo D., Guido S.	<i>The Excellence of Made in Italy: use of advanced optical microscopy for leather analysis</i>	- Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/02 ISSN: 0011-3034	UNINA SSIP	4.1	4.2.1

AUTHORS	TITLE	REF.	MICS PARTNERS	PRJ ID	REF
Sara Ferraris; Francesca Gamna; Thomas Luxbacher; Giacomo Maculotti; Lorenzo Giorio; Jasurkhuja Kholkhujayev; Gianfranco Genta; Maurizio Galetto; Andrea Sarnataro; Marco Nogarole; Claudia Florio,	<i>Comparative characterization of leather from traditional and innovative tanning processes: a focus on the impact on surface reactivity as a contribution for a sustainable development of the leather industry,</i>	Scientific Reports (Nature Portfolio) (2025) 15:10608, https://doi.org/10.1038/s41598-025-94531-y	POLITO SSIP	4.1	4.2.1
Turco R., Vitiello R.,	<i>Green Chemistry and Industrial Symbiosis for the Leather Supply Chain: A Case Study on Fattening Agents</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/03 ISSN: 0011-3034	UNINA	4.1	4.3.1
Anzuoni,	<i>Nanocellulose production from waste textiles by using deep eutectic solvents (DES) and its functionalization for hide treatment</i>	Tesi di Laurea, Università di Padova. October 2024	UNIPD	4.1	D4.2.2
Carraro, M.,	<i>Advancements in the use of wastes-derived polysaccharides for leather tanning and finishing</i>	<i>Indian Leather - India International Leather Fair (iilf) special issue 2024, 57 (11), 63-72</i>	UNIPD	4.1	D4.2.2
Omar Salmi, Alessandro Molinelli, Simone Gelosa, Alessandro Sacchetti, Filippo Rossi and Maurizio Masi	<i>Use of Antioxidants to Reduce Chromium (VI) Formation during the Leather Tanning Process - Use of Antioxidants to Reduce Chromium (VI) Formation during the Leather Tanning Process</i>	- Sustain. Chem. 2024, 5(3), 244-257; https://doi.org/10.3390/suschem5030016	POLIMI	4.1	4.2.3
D. Karimian, S. Gross, M. Carraro et al.	<i>Enhanced Nanocellulose Production from Cotton and Textile Waste Using Binary and Ternary Natural Deep Eutectic Solvents</i>	Adv. Sustain. Syst., 2024, 2400525	UNIPD		
Corbisiero F., Marotta I., Zaccaria A.M.,	<i>Social sustainability in the Italian tanning industry: challenges and opportunities</i>	- Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. C - 2024/03 ISSN: 0011-3034	UNINA	4.1	4.4.1
Salmi O., Laudisa G., Pacchi G., Rossi F., Lupi R., Masi M,	<i>How agri-food waste should become an opportunity in leather: the study of Hydroil</i>	Journal of the Society of Leather Technologists and Chemists , ISSN 0144-0322, Vol. 109, Num. 3, 2025, pag. 69-80	POLIMI	4.1	4.2.3
O. Salmi, G. Laudisa, F. Rossi, M. Masi,	<i>Evaluation of antioxidants performance in chromium oxidation prevention inside leather</i>	<i>Materials</i> 18, no. 8 (2025): 1858. https://doi.org/10.3390/ma18081858	POLIMI	4.1	4.2.3
Giulia Laudisa Author: Giulia Laudisa - Advisor Mauro Masi; Co-advisor: Omar Salmi, Giacomo Pacchi;	<i>"Chemical characterization of Hydroil: a novel tanning product derived from olive mill wastewaters</i>	- " TESI DI LAUREA MAGISTRALE IN CHEMICAL ENGINEERING - INGEGNERIA CHIMICA Academic Year: 2022-23	POLIMI		
Venturelli G., Guida L., Fasani M.G.T., Mantero S., Petrini P., Levi M.	<i>3D-printable circular composites as sustainable leather alternative for the valorization of tanneries' solid waste</i>	<i>Applied Materials Today</i> , 44, 102776 https://doi.org/10.1016/j.apmt.2025.102776	POLIMI	4.1	4.3.2
Guida L., Romani A., Negri D., Cavallaro M., Levi M.	<i>3D-printable PVA-based inks filled with leather particle scraps for UV-assisted Direct Ink Writing: characterization and printability</i>	<i>Sustainable Materials and Technologies</i> , 44, e01335 https://doi.org/10.1016/j.susmat.2025.e01335	POLIMI	4.1	4.3.2
Venturelli, G., Guida, L., Fasani, M. G. T., Mantero, S., Petrini, P., & Levi, M	<i>Bacterial cellulose for scalable and sustainable biogels in the circular economy</i>	<i>Gels</i> , 11(4), 262. https://doi.org/10.3390/gels11040262	POLIMI	4.1	4.3.2
Venturelli, G., Guida, L., & Levi, M.	<i>Upcycling Leather Waste Through Zero-Waste Hydrolysis for Versatile 3D Printable Composites.</i>	<i>Polymers</i> , 17(17), 2366. https://doi.org/10.3390/polym17172366	POLIMI	4.1	4.3.2
Cassano A., Basile A., De S., Mondal S.	<i>Treatment of leather industry effluents by membrane-based technologies</i>	Book Chapter, in <i>Advanced Technologies in Wastewater Treatment - Waste Water Treatment of Leather Industry</i> , Elsevier, Amsterdam, Netherlands, Chapter 5, pp. 29-62, 2025	CNR	4.1	4.3.3
Bresolin B.M., Nogarole M., Florio C., Cassano A.	<i>Recovery of valuable material from tannery wastewater</i>	Book Chapter, in <i>Advanced Technologies in Wastewater Treatment - Waste Water Treatment of Leather Industry</i> , Elsevier, Amsterdam, Netherlands, Chapter 2, pp. 125-178, 2025	CNR SSIP UNIBS	4.1	4.3.3
Grifasi N., Fornaro M., Piumetti M., Liguori B.,	<i>Chromium recovery from tannery wastewater by zeolite-based</i>	Book Chapter, in <i>Advanced Technologies in Wastewater</i>	POLITO UNINA	4.1	4.3.3

AUTHORS	TITLE	REF.	MICS PARTNERS	PRJ ID	REF
Caputo D.	<i>materials: A circular and sustainable approach</i>	<i>Treatment - Waste Water Treatment of Leather Industry</i> , Elsevier, Amsterdam, Netherlands, Chapter 8, pp. 243-262, 2025	CNR INSTM		
Bianca Maria Bresolin, Barbara Liguori, Nicola Gargiulo, Assunta Campanile, Marco Piumetti, Nadia Grifasi, Olimpia Tammaro, Serena Esposito, Domenico Caputo, Claudia Florio	<i>Application of zeolites for efficient tannery wastewater remediation.</i>	Environmental Science and Pollution Research - Published: 28 December 2024 - Volume 32, pages 1073–1094, (2025)	UNIBS UNINA POLITO SSIP	4.1	4.3.3
Taisch, M.	<i>"MADE IN" should be a constant evolution, with the future in mind</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. A - 2025/01	POLIMI	4.1	4.4.1
Florio, C.	<i>Towards the future of national tanning production: the role of research based on the MICS model, from cross-cutting competences to systemic approaches</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. A - 2025/01	SSIP	4.1	4.4.1
Carraro, M., Gross, S., Anzuoni, V.	<i>Green chemistry and industrial symbiosis applied to the tanning industry. New opportunities from the textile sector</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. A - 2025/01	UNIPD	4.1	4.3.1
Battini, D., Cristaldi, L.	<i>The perspectives of digital innovation in the leather supply chain: solutions and technologies from MICS Spoke 8</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. A - 2025/01	POLIMI UNIPD	4.1	4.4.1
Florio, C.	<i>Leather's evolutionary path in the multidimensional universe of production sustainability</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. B - 2025/02	SSIP	4.1	4.4.1
Giannoccaro, I.	<i>Innovative Business Models and Circular Supply Chains for a new Made in Italy</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. B - 2025/02	POLIBA	4.1	4.4.1
Brondi, C., Zangiacomi, A., Boffelli, A., Cornaro, M.	<i>Anticipating sustainability in manufacturing: synergies and results of the Solaris - ReStart survey</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. B - 2025/02	CNR-STIMA UNIBG	4.1	4.4.1
Corbisiero, F., Marotta, I., Zaccaria, A.M.	<i>Innovation and social impact in the leather supply chain. Some evidence from the SOLARIS project</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. B - 2025/02	UNINA	4.1	4.4.1
Converso, G., Grassi, A.	<i>A markovian tool to support the circular and sustainable innovation in the industrial sector</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. B - 2025/02	UNINA	4.1	4.4.1
Cassano, A.	<i>Membrane technology as a sustainable tanning production approach according to a circular vision</i>	Italian Leather Research Institute Magazine CPMC (Cuoio, Pelli, Materie Concianti) Vol. B - 2025/02	CNR-ITM	4.1	4.3.3
Rosario Mascolo, Felicia Vietri, Luca Giorleo and Alfonso Martone	<i>Estimation of Particle Dimension and Particle Size Distribution (PSD) of Ground Leather using a Digital Image Processing Method (DIP)</i>	Journal of the American Leather Chemists Association - Vol. 120 No. 9 (2025) - DOI: https://doi.org/10.34314/q3wq0y12	SSIP - UNIBS	4.1	4.3.2
Mascolo R., Calvanese G., Nazir M.U., Bilotti E., Giorleo L.	<i>Approaching the threshold of leather waste percentage within the TPU matrix for the manufacture of filament used in Fused Filament Fabrication applications</i>	Under review on Collagen and Leather	SSIP - UNIBS	4.1	4.3.2
Florio C., Medici A., Aveta R, Esposito L., Favazzi A., Belvedere F., Zarrelli A., Sarno M.	<i>The potential of Near Infrared Spectroscopy (NIR) for product and tanning process control of innovative leathers</i>	Scientific Reports (Nature Portfolio) 15(1) – October 2025 - https://doi.org/10.1038/s41598-025-17598-7	SSIP	4.1	4.2.1
Lorenza Abbà, Rosario Mascolob, Claudia Floriob, Alberto Finaa, Federico Carosio*a	<i>Development of flame retardant polyelectrolyte complex composite with collagen-rich shavings from tannery wastes</i>	Under Submission	POLITO SSIP	4.1	4.3.2
Francesca Gamna, Giacomo Maculotti, Andrea Sarnataro, Maurizio Galetto, Claudia Florio, Sara Ferraris	<i>Advances in the Physical and Chemical Characterization of Tanned Leather: A Comprehensive Review</i>	Under review on Journal of Materials Science JMSC-D-25-07526	POLITO SSIP	4.1	4.2.1
Valentina Preziosi ¹ , Angela Capuano ¹ , Claudia Florio ² , Domenico Caputo ¹ , Stefano Guido ¹ .	<i>Investigation of Water Absorption in Leather Using CryoScanning Electron Microscopy</i>	Under Submission	UNINA SSIP	4.1	4.2.1
Borselleca, E., Gargiulo, L., Cerruti, P., Varriale, S., Faggio, N., Pinto, G., Amoresano, A., Pezzella, C., Santagata, G.	<i>Bio-based adhesives from spent coffee grounds: A sustainable pathway using medium chain length polyhydroxyalkanoates</i>	International Journal of Biological Macromolecules, 320, 145855. https://doi.org/10.1016/j.ijbiomac.2025.145855 (2025)	UNINA	4.1	4.2.1

Tab.1: elenco delle pubblicazioni del progetto 4.01 SOLARIS

AUTHORS	TITLE	CONFERENCE REF.	MICS PARTNER	PRJ ID	REF
ANNO 2023					
Florio C., Nogarole, M., Gamna F., Ferraris S.	<i>Comparative analysis of the surface properties of leathers produced with different tanning systems</i>	37th WORLD CONGRESS of the International Union of Leather Technologists and Chemists Society (IULTCS), Chengdu, China, from October 17 to 20, 2023 (Poster)	SSIP, PoliTo	4.1	D.4.2.1
Mascolo, R., Bilotti, E., Giorleo, L., Umar Nazir M.	<i>Novel PLA and TPU bio-composites from leather wastes for Fused Filament Fabrication Additive Manufacturing technologies</i>	37th WORLD CONGRESS of the International Union of Leather Technologists and Chemists Society (IULTCS), Chengdu, China, from October 17 to 20, 2023	SSIP UniBs	4.1	D.4.2.1
Mascolo, R., Bruno, M., Calvanese, G., Scaglia E.	<i>Study of the variability of the surface measurement of leathers in different conditioning atmospheres</i>	- 37th WORLD CONGRESS of the International Union of Leather Technologists and Chemists Society (IULTCS), Chengdu, China, from October 17 to 20, 2023. (Poster)	SSIP	4.1	D.4.2.1
Mascolo R., Vietri F., Martone A., Florio C.	<i>Insights on the estimation of particle size distribution (PSD) of grinded leather particulate using a Digital Image Processing Method (DIP)</i>	37th WORLD CONGRESS of the International Union of Leather Technologists and Chemists Society (IULTCS), Chengdu, China, from October 17 to 20, 2023 (Poster)	SSIP	4.1	D.4.3.1
Mascolo R., De Piano F., Calvanese G., Bilotti E.	<i>Innovative method for the determination of hydrothermal stability of leathers using DMA techniques: statistical assessment of method performance</i>	37th WORLD CONGRESS of the International Union of Leather Technologists and Chemists Society (IULTCS), Chengdu, China, from October 17 to 20, 2023 (Poster)	SSIP	4.1	D.4.3.1
Bresolin, B. M., Nogarole, M., Mascolo, R., Sarnataro, A. & Florio, C.	<i>Application of the circular economy model to leather tannery waste Italian Leather Production.</i>	ECOMONDO November - 07-10 2023 (Poster)	SSIP	4.1	D.4.3.3
Varriale, S., Borselleca, E., Levorato, L. L., Pezzella, C.	<i>Tailored biorefinery approaches for the obtainment of lignin and polyhydroxyalkanoates</i>	12th International Conference on Fiber and Polymer Biotechnology (IFPB-2024).	UNINA	4.1	4.2.2
ANNO 2024					
F. Gamna, S. Ferraris, T. Luxbacher, G. Maculotti, J. Kholkhujjev, G. Genta, M. Galetto, M. Nogarole, C. Florio	<i>- Characterization of leather from different tanning processes as a contribution for a sustainable development of the leather industry –</i>	Nanoinnovaton, Rome, 12-09 2024	POLITO SSIP	4.1	4.2.1
D. Karimian, S. Gross, M. Carraro et al.	<i>Valorizing textile wastes through the extraction of nanocellulose utilizing Deep eutectic solvents</i>	7th Symposium on Circular Economy and Urban Mining, Capri, Italy, 2024 (poster)	UNIPD		
Venturelli G., Guida L., Fasani M.G.T., Mantero S., Petrini P., Levi M.	<i>Production and characterization of hydrolyzed bacterial cellulose for extrusion-based 3D printing applications Polymers 2024</i>	– Polymers for a safe and sustainable future, Athens 28-31 May 2024 - Poster Presentation	POLIMI	4.1	4.3.2
Venturelli G., Guida L., Fasani M.G.T., Mantero S., Petrini P., Florio C., Mascolo R., Levi	<i>3D-Printable composite materials as sustainable surrogates to leather for the upcycling of leather waste</i>	XIV Convegno INSTM 2024 sulla scienza e tecnologia dei materiali, Cagliari 9-12 June 2024 - Poster Presentation	POLIMI	4.1	4.3.2
Romani A., Riccardi G., Guida L., Florio C., Mascolo R., Levi M.-	<i>Valorizing scraps from the leather industry through additive manufacturing: Direct Ink Writing and nonplanar slicing for personalized products in the watch sector</i>	XIV Convegno INSTM 2024 sulla scienza e tecnologia dei materiali, Cagliari 9-12 June 2024 - Poster Presentation	POLIMI	4.1	4.3.2
Guida L., Florio C., Mascolo R., Levi M.	<i>Leather Scrap-Polymer Composite Materials in a Circular Economy Perspective</i>	XIV Convegno INSTM 2024 sulla scienza e tecnologia dei materiali, Cagliari 9-12 June 2024 - Poster Presentation	POLIMI	4.1	4.3.2
Venturelli G., Dotelli G., Levi M.	<i>Life Cycle Assessment of bio-based leather surrogates: a review</i>	XVIII Convegno dell'Associazione Rete Italiana LCA, Pescara 3-5 July 2024 - Poster	POLIMI	4.1	4.3.2
Campanile, A., Medici, A., Zarrelli, A., Liguori, B., Florio, C., & Caputo, D. (2024).	<i>Removal and monitoring of chrome tanning agents.</i>	In Proceedings of the Mediterranean Life Sciences Union Annual Meeting (MedLIFE-24). Istanbul Technical University. Conference Paper Reference: 293.	UNINA SSIP	4.1	4.3.3
Maria Papallo, Antonio Gloria, Barbara Liguori, Claudia Florio and Domenico Caputo.	<i>Design strategies towards the development of novel zeolite systems for the recovery of heavy metals in</i>	In Proceedings of the Mediterranean Life Sciences Union Annual Meeting (MedLIFE-24). Istanbul Technical University.	UNINA SSIP	4.1	4.3.3

AUTHORS	TITLE	CONFERENCE REF.	MICS PARTNER	PRJ ID	REF
	wastewater	Conference Paper Reference: 293			
ANNO 2025					
Leonardo Maretto and Niloofar Katirae and Daria Battini and Maria Cristina Lavagnolo and Claudia Florio	Selecting Sustainable Leather Suppliers for the Made in Italy Fashion Industry of the Future	11th IFAC Conference on Manufacturing Modelling, Management and Control June 30 - July 3, 2025, Trondheim, Norway (submitted)	UNIPD SSIP	4.1	4.3.3
Claudia Florio	NEW GENERATIONS OF LEATHERS AND CIRCULAR MATERIALS IN THE PERSPECTIVE OF INDUSTRIAL SYMBIOSIS	SUM 2025 – Symposium on Urban Mining and Circular Economy	SSIP	4.1	4.3.3
Venturelli, G., Guida, L., Mantero, S., Petrini, P., & Levi, M.,	Mechanical and chemical recycling of leather waste into composites suitable for diverse 3D printing techniques	(SUM2025), Procida (IT) 21-31 May 2025 – Oral presentation	POLIMI	4.1	4.3.2
Venturelli, G., Guida, L., & Levi, M	Upcycling of leather waste to produce versatile composites for different 3D printing techniques	XVIII Nazionale AIMAT, Ischia (IT) 31 August – 3rd September 2025 – Oral presentation.	POLIMI	4.1	4.3.2
Lorenza Abbà	Lightweight and flame retardant polyelectrolyte complex composite materials based on tannery wastes	Best Oral Presentation at the last 20th European Meeting on Fire Retardant Polymeric Materials (FRPM25) hosted in Madrid from 3rd to 6th of June 2025	POLITO	4.1	4.3.3
A. Sarnataro*; C. Furbatto*; G. Calvanese*; C. Florio*	From waste to values: hydrolysis and purification of tanning shavings for new circular materials chitosan-collagen hydrolysate based	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP	4.1	4.3.3
A. Medici1, A. Campanile2, B. Liguori2, D. Caputo2, C. Florio1	Potential of NIR Spectroscopy and Chemometrics as Predictive Tools for Products and Processes in the Leather Industry	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP UNINA	4.1	4.3.3
Marco Nogarole & Francesco de Laurentiis	New plasma application technologies for leather finishing	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP	4.1	4.2.1
Mascolo R., Esposito L., Bertazzo M. Pierro G.	Degradability by micro-organisms of tanned leather: a case study of different kinds of tannings for the sustainability of the processes	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP	4.1	4.3.3
C. Brondi, A., M. Cornaro, J. Maciel, A. Boffelli, B. Colombo, F. Visintin, G. Revol, M. Nogarole, R. Mascolo	Transitioning Towards Circularity in the Italian Leather Industry: Insights from a Qualitative Comparative Analysis	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP CNR UNIFI	4.1	4.3.3
Rosario Mascolo & Fabio Piccirillo. Giorleo L. T.Cacciatori.	Direct Pellet Material Extrusion of PLA-Collagen Composites: A Circular Approach to Leather Waste Valorisation	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP UNIBS	4.1	4.3.2
Mascolo R., Nazir M.U., Giorleo L., Bilotti E.	Thermoplastic Polyurethane Composites Reinforced with Leather Waste: Influence of Particle Size on Performance for Footwear Applications	XXXVIII IULTCS WorldCongress, held in Lyon, France, from September 8 to 11	SSIP UNIBS	4.1	4.3.2
Varriale S., Borselleca E., Dzhambazova I.I., Di Matteo P.G., Pezzella C.	Green Solvents for Green Plastics: NADES as Key Enablers for PHA Production	1st International Symposium on Deep Eutectic Solvents (ISYDES), Bari, 3-6 June 2025- Oral presentation	UNINA	4.1	4.3.1
Varriale S., Borselleca E., Dzhambazova I.I., Di Matteo P. G., Avitabile M., Giosafatto C. V. L., Florio C., Pezzella C.	Green Solvents for Green Plastics: NADES as Key Enablers for PHA Production	Green Deal Biotechnology (EFB), Aveiro, Portugal 26-28 May 2025- Flash oral and poster presentations	UNINA SSIP	4.1	4.3.1 and 4.2.2
Borselleca S., Gargiulo L., Santagata G., Varriale S., Dzhambazova I., Pezzella C.	Brewing Sustainability: turning Spent Coffee Grounds into Bioplastics	Green Deal Biotechnology (EFB), Aveiro, Portugal 26-28 May 2025- Oral presentations	UNINA CNR-IPCB	4.1	4.2.1 and 4.3.1
Pezzella C., Di Matteo P. G., Florio C., Avolio R., Varriale S	Tailored biorefinery approaches for the obtainment of lignin and polyhydroxyalkanoates	Green Deal Biotechnology (EFB), Aveiro, Portugal 26-28 May 2025- Poster presentations	UNINA CNR-IPCB	4.1	4.2.1 and 4.2.2

Tab.2: elenco di Conference Papers/ International Congresses del progetto 4.01 SOLARIS

PATENTS

Patent demand: “METODO IMPLEMENTATO MEDIANTE ELABORATORE E SISTEMA CONFIGURATO PER ESEGUIRE TALE METODO PER LA DETERMINAZIONE NON DISTRUTTIVA DEL CONTENUTO D'ACQUA NELLA PELLE CONCIATA MEDIANTE SPETTROSCOPIA NEL VICINO INFRAROSSO (NIR) E ANALISI CHEMIOMETRICA” – Owner: STAZIONE SPERIMENTALE PER L'INDUSTRIA DELLE PELLI E DELLE MATERIE CONCIANTI SRL – inventors: Marco Nogarole, Claudia Florio, Antonio Medici, n 12.3371, 14/07/2025.