



SYMSITES

Deliverable name: 5 publications in peer reviewed journals and 15 participations in relevant International and national conferences, and exhibitions	
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Work package leader	OSM
Dissemination level (PU/SEN)	PU



1. Publications in peer reviewed journals

1. From lab to pilot: sonochemical coating of PDDA-based polymer dots for scalable, wash-durable antibacterial textiles, Rathee, Garima; Puertas-Segura, Antonio; Blair, Jeniffer; Tzanov, Tzanko, *Ultrasonics Sonochemistry*, Volume 122, Nov. 2025, 107619,
2. Advanced water treatment with antimicrobial silver-lignin nanoparticles sonochemically-grafted on cork granulates in activated carbon packed-bed columns, Puertas-Segura, Antonio; Pérez, Leonardo Martín; Tzanov, Tzanko, *Environmental Research*, Volume 279, Part 1, 15 August 2025, 121783
3. Pilot-Scale Polysulfone Ultrafiltration Patterned Membranes: Phase-Inversion Parametric Optimization on a Roll-to-Roll Casting System, Ilyas, Ayesha; Vankelecom, Ivo F.J. *Membranes* 2025,5(8) 228.
4. Selection of Optimal Nanofiltration/Reverse Osmosis (NF/RO) Membranes for the Removal of Organic Micropollutants from Drinking Water, E.Busra, Tasdemir; Pardon, Marie; Rezaei Hosseinabadi, Sareh; Rutgeerts, Laurens; Cabooter, Deirdre; Vankelecom, Ivo F.J., *Membranes* 2025, 15(6), 183,
5. Polyethyleneimine crosslinkers: Towards greener crosslinking and simultaneous conditioning of solvent-resistant nanofiltration polyimide membranes? Simon Van Buggenhout, Jozefien Lenaerts, Scout Caspers, Alexander Volodine, Ivo F.J. Vankelecom, *Journal of Membrane Science*, 704, 2024
6. Meat-Processing Wastewater Treatment Using an Anaerobic Membrane Bioreactor (AnMBR), Ferdinand Hummel; Lisa Bauer; Wolfgang Gabauer; Werner Fuchs, *Fermentation*, 2025, 11(2) 68
7. Sono-Enzymatically Embedded Antibacterial Silver-Lignin Nanoparticles on Cork Filter Material for Water Disinfection, Lizeth Bermeo, Kristina Ivanova, Leonardo Martín Pérez, Eva Forés, Sílvia Pérez-Rafael, Juan C. Casas-Zapata, Jordi Morató, Tzanko Tzanov, *Int. J. Mol.*, 2022 23(19), 11679
8. Unveiling the Potential of CuO and Cu₂O Nanoparticles against Novel Copper-Resistant Pseudomonas Strains: An In-Depth Comparison, Olesia Havryliuk, Garima Rathee, Jeniffer Blair, Vira Hovorukha, Oleksandr Tashyrev, Jordi Morató, Leonardo M. Pérez, Tzanko Tzanov, *Nanomaterials*, 2024, 14(20) 1644

2. Publications in conferences

1. Co-treatment of waste water from meat producing industries and blood waste in an Anaerobic Membrane Bioreactor AnMBR), Hummel, F.; Gabauer, W.; Fuchs, W., Publication at the European Biomass Conference and Exhibition (EUBCE) -01-2024



2. Acclimation of microbial consortia on acidogenic effluents for enhanced production of polyhyrtoxyalkanoates, Rokizas S., Kora E., Kalogirou T., Antonopoulou G., (Corresponding) Ntaikou I., Lyberatos G., 18th International Conference on Environmental Science and Technology, held on Wed 30 Aug - Sat 2 Sep 2023 in Athens, Greece (CEST2023).
3. An Industrial-Urban Symbiosis (I-US) concept for the production of gaseous biofuels. Papadopoulou*, C. Pavlopoulos, A. Zarkaliou, G. Lyberatos, RETASTE: Rethink Food Resources, Losses, and Waste Third International Conference, Athens, Greece, September 27-29, 2023
4. Anaerobic Co-Digestion of olive oil wastewater with municipal solid and liquid waste: An Urban-Industrial symbiosis concept, 18th International Conference on Environmental Science and Technology, Papadopoulou K., Pavlopoulos C., Zarkaliou A., Lyberatos G. Wed 30 Aug - 2 Sep 2023 in Athens, Greece (CEST2023).
5. Biohydrogen production from household food waste through dark fermentation: the possibility of water minimization during dilution, G. Antonopoulou, M. Alexadropoulou, I. Ntaikou, G. Lyberatos, International Conference "Closed cycles and the Circular Society 2023: The power of ecological engineering" of the International Ecological Engineering Society (IEES).
6. Co-treatment of Wastewater from the Meat-producing Industry and Blood-waste in an Anaerobic Membrane Bioreactor (AnMBR), Hummel, F., Gabauer, W., Fuchs, W., ETA-Florence Renewable Energies
7. Continuous bio-hydrogen production from household food waste: the possibility of symbiosis with municipal wastewaters treatment, D. Missallidou, M. Alexandropoulou, G Antonopoulou, I. Ntaikou, G Lyberatos, 10th International Conference on Sustainable Solid Waste Management Chania, Greece, 21 - 24 JUNE 2023
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8. Acclimation of microbial consortia on acidogenic effluents for enhanced production of polyhyrtoxyalkanoates.- NTUA CEST2023 PHAs
9. Introduction of the Danish EcoSite to young researchers and professionals in the Danish water sector, and sharing results from the demonstration of an anaerobic membrane bioreactor. - DTU - Oral presentation at 10th IWA YWP Denmark
10. Water and the Future: Crisis or Challenges a-*Opportunities?*<https://symsites.eu/water-and-future-crisis-or-challenges-and-opportunities/> ITG's participation in roundtable
11. The Use of residual cork coated with antimicrobial lignin-capped silver nanoparticles (AgPLNs) as a novel filtering media, 26.6.24 7th IWWEM-24. Lisbon, Portugal - UPC
12. Actions for Municipal Solid Waste Management in West Achaia Municipality" program, implemented by the Municipality as part of the 2014-2020 Transport, Environment, and Sustainable Development Operation, 20-9-23 Municipal Solid Waste Management, MWA



13. Use of residual olive-derived biomass doped with antimicrobial nanoparticles as a novel filtration filler in advanced tertiary treatment technologies, ACS National Meeting & Exposition 2025 -UPC
14. Work title: Cork embedded with silver-lignin nanoparticles as an additive for adsorption filters for tertiary wastewater treatment Oral presentation -. ACS Spring 2024 Event – New Orleans, LA, USA – UPC.
15. The 6th IWA ECOSTP 2023 (26-29/06/2023, Girona, Spain) in order to disseminate SYMSITES project in research communities, industry to search for synergies - FACSA-Poster presentation in IWA ECOSTP2023
16. CuO nanoparticles as modifiers for membranes: An analysis of performance for digestate treatment, NTUA CEST2025
17. Presentation of the bottlenecks in I-US activities (topic: reuse of wastewater) 17/01/2024 Project H4C online workshop – BOKU
18. Dissemination of project results in XV META Congress (XV Congreso Español de Tratamiento de Aguas) (19-21/06/2024)FOVASA
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19. Production of methane (AnMBR), hydrogen and bioplastics from liquid waste (olive oil) The 10th Int. Conf. on Engineering for Waste& Biomass Valorization
20. SYMSITES project delivered a technical presentation of the Greek EcoSite at IFAT Munich 2024 May 2024 - SIRMET

And more...

