



SUSTAINABLE INTEGRATED APPROACH
TO ACHIEVE CECS AND PTES REMOVAL FROM CONTAMINATED WATERS.
THE AQUACULTURE AS CASE STUDY

SusWater

Deliverable 7.3

Project booklet



Communication and dissemination activities

*1 April 2021-
31 March 2026*

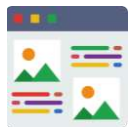
The aim of this booklet is to collect all the communication and dissemination activities carried out during the project SusWater action by consortium members.

The SusWater Consortium

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1 DISSEMINATION ACTIVITIES AIMED AT THE SCIENTIFIC COMMUNITY



1.1 PAPERS

We produced 42 research papers published in gold OA, 8 submitted for publication in peer-reviewed international journals and 10 in preparation. The published papers have a total impact factor of 220.142 with a mean value of 5.4.

1.1.1 Publications on peer reviewed journals

1. Camilla Noè, Andrea Cosola, Annalisa Chiappone, Minna Hakkarainen, Hansjorg Grützmacher, Marco Sangermano, *From polysaccharides to UV-curable biorenewable organo/hydrogels for methylene blue removal*, *Polymers* 235, 124257, **2021**. <https://doi.org/10.1016/j.polymer.2021.124257>. IF: 0.88.
2. Jorge Plaza, Amaya Arencibia, María José López-Muñoz, *Evaluation of nZVI for the degradation of atrazine in heterogeneous Fenton-like systems at circumneutral pH*, *Journal of Environmental Chemical Engineering* 9, 106641, **2021**, <https://doi.org/10.1016/j.jece.2021.106641>. IF: 7.968
3. Camilla Noè, Michael Zanon, Amaya Arencibia, María-José López-Muñoz, Nieves Fernández de Paz, Paola Calza, Marco Sangermano, *UV-Cured Chitosan and Gelatin Hydrogels for the Removal of As(V) and Pb(II) from Water*, *Polymers* 14, 1268, **2022**. <https://doi.org/10.3390/polym14061268>. IF: 5.0
4. Paolo Inaudi, Elio Mondino, Ornella Abollino, Mery Malandrino, Monica Argenziano, Laura Favilli, Roberto Boschini, Agnese Giacomino, *On-Site Determination of Methylmercury by Coupling Solid-Phase Extraction and Voltammetry*, *Molecules* 27, 3178, **2022**. <https://doi.org/10.3390/molecules27103178>. IF: 4.71.
5. Vittorio Boffa, Debora Fabbri, Paola Calza, Delia Revelli, Peter Vittrup Christensen, *Potential of nanofiltration technology in recirculating aquaculture systems in a context of circular economy*, *Chemical Engineering, Journal Advances* 10, 100269, **2022**, <https://doi.org/10.1016/j.ceja.2022.100269>. IF: 3.6.
6. Erik Cerrato, Elisa Gaggero, Paola Calza, Maria Cristina Paganini, *The role of Cerium, Europium and Erbium doped TiO₂ photocatalysts in water treatment: A mini-review*, *Chemical Engineering Journal Advances* 10, 100268, **2022**. <https://doi.org/10.1016/j.ceja.2022.100268>. IF: 3.6.
7. Elisa Gaggero, Paola Calza, Erik Cerrato, Maria Cristina Paganini, *Cerium-, Europium- and Erbium-Modified ZnO and ZrO₂ for Photocatalytic Water*

Treatment Applications: A Review, Catalysts 11, 1520, **2021**. <https://doi.org/10.3390/catal11121520>. IF: 5.1.

8. Monica Rigoletto, Paola Calza, Elisa Gaggero, Enzo Laurenti, *Hybrid materials for the removal of emerging pollutants in water: classification, synthesis, and properties*, Chemical Engineering Journal Advances 10, 100252, **2022**. <https://doi.org/10.1016/j.ceja.2022.100252>. IF: 3.6.

9. Erik Cerrato, Mario Chiesa, Elio Giamello, Stefano Livraghi, Enrico Salvadori, Maria Cristina Paganini, *Zinc oxide hollow spheres decorated with cerium dioxide. The role of morphology in the photoactivity of semiconducting oxides*, Journal of Physics: Condensed Matter 34, 134001, **2022**. IF: 2.7.

10. Erik Cerrato, Alberto Privitera, Mario Chiesa, Enrico Salvadori, Maria Cristina Paganini, *Nitrogen-Doped Zinc Oxide for Photo-Driven Molecular Hydrogen Production*, International Journal of Molecular Sciences 23, 5222, **2022**. <https://doi.org/10.3390/ijms23095222>. IF: 5.6.

11. Marco Sangermano, Antonio Grieco, Camilla Noè, Giancarlo Rizza, *UV-Cured PDMS for Oil Removal from Wastewater*, Macromolecular Chemistry and Physics, 224, 2200345, **2022**. DOI: 10.1002/macp.202200345. IF: 2.65.

12. Rossella Sesia, Sara Ferraris, Marco Sangermano, Silvia Spriano, *UV-Cured Chitosan-Based Hydrogels Strengthened by Tannic Acid for the Removal of Copper Ions from Water*, Polymers 14, 4645, **2022**. <https://doi.org/10.3390/polym14214645>. IF: 0.89.

13. Arianna Actis, Francesca Sacchi, Christos Takidis, Maria Cristina Paganini, Erik Cerrato, *Changes in Structural, Morphological and Optical Features of Differently Synthesized C₃N₄-ZnO Heterostructures: An Experimental Approach*, Inorganics 10, 119, **2022**. <https://doi.org/10.3390/inorganics10080119>. IF: 4.0.

14. Pilar Gómez-Rodríguez, Paola Calza, Debora Fabbri, Claudio Medana, Rafael van-Grieken, María-José López-Muñoz, *Photocatalytic Degradation of Methylisothiazolinone in Water by TiO₂ and TiO₂/Persulfate systems with Simulated Solar Radiation*, Catalysis Today, 413-415, 113942, **2023**. <https://doi.org/10.1016/j.cattod.2022.11.003>. IF: 5.3

15. Gaggero Elisa, López-Muñoz María-José, Paganini Maria Cristina, Arencibia Amaya, Bertinetti Stefano, de Paz Nieves Fernandez, Calza Paola, *Mercury and Organic Pollutants Removal from Aqueous Solutions by Heterogeneous Photocatalysis with ZnO-Based Materials*, Molecules, 28, 2650, **2023**. <https://doi.org/10.3390/molecules28062650>. IF: 4.6.

16. Monica Rigoletto, Paola Calza, Alexandre Santuchi da Cunha, Valentina Sederino, Debora Fabbri, Maria Laura Tummino, Enzo Laurenti, *Soybean peroxidase immobilised on cellulose-alginate hydrogels for removal of recalcitrant organic pollutants in water*, Reaction Chemistry & Engineering 8, 1629, **2023**. <https://doi.org/10.1039/D3RE00009E>. IF: 3.9.

17. Elisa Gaggero, Arianna Giovagnoni, Alessia Zollo, Paola Calza and Maria Cristina Paganini, *Photocatalytic Degradation of Emerging Contaminants with*

N-Doped TiO₂ Using Simulated Sunlight in Real Water Matrices, *Inorganics* 11, 439, **2023**. DOI: <https://dx.doi.org/10.3390/inorganics11110439>. IF: 4.0.

18. Jorge Plaza, Amaya Arencibia, María-José López-Muñoz, *Optimization of thermal exfoliation of graphitic carbon nitride for methylparaben photocatalytic degradation under simulated solar radiation*, *Journal of Material Chemistry A*, 11, 9922, **2023**. DOI: [10.1039/d3ta01109g](https://doi.org/10.1039/d3ta01109g). IF: 11.9.

19. Alessia Zollo, Stefano Livraghi, Elio Giamello, Andrea Cioni, Valentina Dami, Giada Lorenzi, Giovanni Baldi, Stefano Agnoli, Mateusz Adam Baluk, Anna Gołębiewska, Adriana Zaleska-Medynska, *How to guide photocatalytic applications of titanium dioxide co-doped with nitrogen and carbon by modulating the production of reactive oxygen species*, *Journal of Environmental Chemical Engineering*, 11 (6), 111523, **2023**. DOI: <https://doi.org/10.1016/j.jece.2023.111523>. IF: 7.4

20. Vasilios Sakkas, Claudio Medana, Federica Dal Bello, Lucia Ingaramo, Christoforos Chrimatopoulos, Maria Cristina Paganini, Paola Calza, *Removal of clozapine from polluted waters via C₃N₄ based materials*, *Catalysis Today*, 432, 114582, **2024**. <https://doi.org/10.1016/j.cattod.2024.114582>. IF: 5.3.

21. Xinxin Chen, Vittorio Boffa, Elisa Gaggero, Fanpeng Meng, Riccardo Navone Daming Sun, Paola Calza, Murat Nulati Yesibolati, Yuanzheng Yue, *Metal organic framework-intercalated graphene oxide nanofiltration membranes for enhanced treatment of wastewater effluents*, *Chemical Engineering Journal*, 486, 150207, **2024**. IF: 16.744.

22. Xinxin Chen, Vittorio Boffa, Xianzheng Ma, Giuliana Magnacca, Paola Calza, Deyong Wang, Fanpeng Meng, Asbjørn Haaning Nielsen, Francesca Deganello, Kang Li, and Yuanzheng Yue, *Zeolite Imidazolate Frameworks-8@SiO₂-ZrO₂ Crystal-Amorphous Hybrid Core-Shell Structure as a Building Block for Water Purification Membranes*, *ACS Applied Materials & Interfaces*. 16, 11835, **2024**. <https://doi.org/10.1016/j.cej.2024.150207>. IF: 9.5.

23. Elisa Gaggero, Wenan Cai, Paola Calza, Teruhisa Ohno, *Enhanced hydrogen peroxide production and organic substrates degradation using atomically dispersed antimony P-doped carbon nitride photocatalysts*, *Surface & Interfaces*, 48, 104143, **2024**. DOI: <https://doi.org/10.1016/j.surfin.2024.104143>. IF: 5.8.

24. Raúl López Timoner, Antonio Arques, Ana María Amat, Jorge Plaza, Amaya Arencibia, María José López-Muñoz, *Use of graphitic carbon nitrides as solar-light-driven photocatalysts for the reduction of p-nitrobenzoic acid*, *Catalysis Today*, 434, 114674, **2024**. DOI: <https://doi.org/10.1016/j.cattod.2024.114674>. IF: 5.3.

25. Elisa Gaggero, Morgane Paturel, Federico Cristaudo, Rossella Sesia, Marco Sangermano, Paola Calza. Teruhisa Ohno, *Exploitation of Sb P-doped C₃N₄ and peroxidase immobilized on epoxidized linseed oil films for pollutants removal*, *Catalysis Science & Technology*, 14(17), 5086-5095, **2025**. DOI: <https://doi.org/10.1039/D4CY00474D>. IF: 4.3

26. Pilar Gómez-Rodríguez, Rafael van Grieken, María José López-Muñoz, *Influence of the TiO₂ crystalline phase on the performance of UVA/brookite/persulfate and UVA/anatase/persulfate systems for the degradation of isothiazolinones in aqueous matrices*, *Journal of Environmental Chemical Engineering*, 12, 113110, **2024**. DOI: 10.1016/j.jece.2024.113110. IF: 7.2
27. Ma, Lana Flanjak, XinXin Chen, Carmelo Morgante, Bastian Stiem Kirkebak, Vittorio Boffa, Cejna Anna Quist-Jensen, Aamer Ali, Valter Maurino, Peter Roslev, *Efficient treatment of high-salinity aquaculture effluents through synergistic membrane distillation and VUV/UVC photolysis Xianzheng*, *Journal of Water Process Engineering*, 66, 106042, **2024**. DOI: <https://doi.org/10.1016/j.jwpe.2024.106042>. IF: 6.7
28. Ni, Jingbo; Boffa, Vittorio; Westphal, Klaus; Wang, Deyong; Kristensen, Peter Kjaer; Calza, Paola, *Visible-light responsive Z-scheme Ti₃C₂ MXene/In₂S₃/CeO₂ heterojunction for enhanced photocatalytic water purification*, *Materials Science in Semiconductor Processing*, 191, 109379, **2025**. DOI: <https://doi.org/10.1016/j.mssp.2025.109379>. IF (2024): 4.6
29. Paolo Inaudi, Christian Esposito, Mery Malandrino, Laura Favilli, Agnese Giacomino, Ornella Abollino, *Development of a portable method for monitoring and speciation of arsenic in aquatic systems by anodic stripping voltammetry: Applications to real samples*, *Talanta*, 291 (15), 127880, **2025**. DOI: <https://doi.org/10.1016/j.talanta.2025.127880>. IF (2024): 6.1
30. Lorenzo Sarasino, Teruhisa Ohno, Maria Cristina Paganini *Optimised Synthesis of Rhombic dodecahedral Cu₂O Nanoparticles: A Pathway to Superior Morphological Control*, *Chemistry—Methods* e202400050, **2025**. DOI: <https://doi.org/10.1002/cmt.d.202400050>. IF (2024): 3.6
31. Monica Rigoletto, Rossella Sesia, Marco Sangermano, Paola Calza, Silvia Berto, Enzo Laurenti, Mery Malandrino, *Chitosan, gelatine and cellulose based hydrogels for the removal of potentially toxic elements from aquaculture water: a comparative study*, *Advanced Sustainable Systems*, 9, 2400933, **2025**. DOI: <https://doi.org/10.1002/adsu.202400933>. IF (2024): 6.50
32. Aleksander Kravos, Federico Cristaudo, Federica Dal Bello, Claudio Medana, Helena Prosen, Paola Calza, *Insight into photocatalyzed transformations of multiclass organic contaminants in water*, *J. Chromat. A.*, 1752, 465971, **2025**. DOI: <https://doi.org/10.1016/j.chroma.2025.465971>. IF (2024): 5.4
33. Jingbo Ni, Vittorio Boffa, Xiaoyu Sun, Teruhisa Ohno, Lorenzo Sarasino, Maria Cristina Paganini, Paola Calza, *Self-assembly synthesis of gallium-doped polymeric carbon nitride/Ti₃C₂ MXene Schottky junction for efficient photosynthesis of hydrogen peroxide*, *Applied Surface Science*, 704, 163373, **2025**. DOI: <https://doi.org/10.1016/j.apsusc.2025.163373>. IF (2024): 6.4
34. Rossella Sesia, Federica Dal Bello, Claudio Medana, Rita Binetti, Dimitra Papagiannaki, Paola Calza, *Study of the Photoinduced Fate of Selected Contaminants in Surface Waters by HPLC-HRMS*, *Rapid Communication in*

Mass Spectrometry, 39:e10075, 2025. DOI: <https://doi.org/10.1002/rcm.10075>. IF (2024): 1.7

35. Monica Rigoletto, María Rapp Díez, Amaya Arencibia, María-José López-Muñoz, Maria Laura Tummino, Enzo Laurenti, *Mercury adsorption properties of functionalized cellulose extracted from deproteinized soybean hulls*, ChemPlusChem, 90, e202400707, 2025. DOI: <https://doi.org/10.1002/cplu.202400707>. IF (2024): 2.80

36. Manuel A. Andino-Enríquez, Debora Fabbri, Davide Vione, Paola Calza, *Photoinduced transformation pathways of the sulfonamide antibiotic sulfamethoxazole, relevant to sunlit surface waters*, Environ. Poll., Volume 384, 126947, 2025. DOI: <https://doi.org/10.1016/j.envpol.2025.126947>. IF: 7.60

37. Lorenzo Sarasino, Valeria Calavita, Valeria Lagostina, Paola Calza, Maria Cristina Paganini, *Perovskite-based photoactive systems for the abatement of pollutants in aqueous solution*, Next Mater., Volume 9, 101041, 2025. DOI: <https://doi.org/10.1016/j.nxmater.2025.101041>. IF (2024): n.a.

38. Elena De Rosa, Sandra Vietti Michelina, Serena Arpaia, Francesco Oliva, Claudio Medana, Paola Calza, Federica Dal Bello, *Development of an HPLC-HRMS method for the identification and semi-quantitation in river water samples of the transformation products originated from heterogenous photocatalysis of antipsychotic drugs*, J. Separation Sci., 48 (10), 2025. <https://dx.doi.org/10.1002/jssc.70299>. IF (2024): 2.80

39. Erik Cerrato, Mario Chiesa, Elio Giamello, Stefano Livraghi, Enrico Salvadori, Maria Cristina Paganini, *Zinc oxide hollow spheres decorated with cerium dioxide. The role of morphology in the photoactivity of semiconducting oxides*, J Phys Condens Matter., 34(13), 2022. doi: 10.1088/1361-648X/ac4629. IF (2024): 2.6

40. Alex Affricano, Alberto Asteggiano, Alice Di Bernardo, Orapan Apirakkan, Angkhana Khachonwongwattana, Savarin Sinaviwat, Claudio Medana, *Case Study: Targeted HPLC-MS/MS analysis of TFA and other USC-PFAS*, Food Control, 181, 111779, 2026. DOI: <https://doi.org/10.1016/j.foodcont.2025.111779>. IF (2024): 6.3

41. Jingbo Ni, Yue Wang, Lorenzo Sarasino, Maria Cristina Paganini, Paola Calza, Teruhisa Ohno, Vittorio Boffa, *Defect-Engineered Ga-K-PCN/Ti₃C₂ MXene@TiO₂-X Ternary Heterojunction via Spontaneous MXene Oxidation for Enhanced Photocatalytic Hydrogen Evolution*, International Journal of Hydrogen Energy, 219, 153902, 2026. <https://doi.org/10.1016/j.ijhydene.2026.153902>. IF (2024): 8.3

42. Jorge Plaza, María-José López-Muñoz, Teruhisa Ohno, *Visible-light-driven photocatalytic hydrogen peroxide production in water via furan-pyrrole polymers: Influence of metal incorporation*, J. Environ. Chemical Engineering, 14 (2), 121369, 2026. <https://doi.org/10.1016/j.jece.2026.121369>. IF (2024): 7.2

1.1.2 Publications under revision

1. Óscar Rodríguez Montoro, Gema Gómez-Pozuelo, Jorge Plaza, María-José López-Muñoz, A. Arencibia, *Biomass-derived carbonaceous materials obtained by nZVI-catalysed pyrolysis for mercury adsorption in aqueous solutions*, submitted to Adsorption
2. Alexandre Santuchi da Cunha, Monica Rigoletto, Ardson dos Santos Vianna Jr., Enzo Laurenti, *Kinetic Insights into Soybean Peroxidase-Catalyzed Degradation of Persistent Organic Pollutants*, submitted to Reaction Chemistry & Engineering
3. Jingbo Ni, Vittorio Boffa, Klaus Westphal, Deyong Wang, Peter Kjær Kristensen, Paola Calza, *Visible-light responsive Z-scheme $Ti_3C_2 MXene/In_2S_3/CeO_2$ heterojunction for enhanced photocatalytic water purification*
4. Matteo Saffioti, Debora Fabbri, Fabrizio Sordello, Marco Ginepro, Maria Cristina Paganini, Teruhisa Ohno, Paola Calza, *Enhanced hydrogen peroxide production and organic pollutants degradation using p-doped carbon nitride photocatalysts*, submitted to Journal Environmental Chemical Engineering
5. Federico Cristaudo, Debora Fabbri, Jenjira Phuriragpitikhon, Pattamaporn Hemwech, Francesco Giunchino, Benedetto Sicuro, Paola Calza, *Partitioning and Mobility of Contaminants of Emerging Concern in Complex Aquatic Systems: actual aquaculture as a case study*, submitted to Aquaculture report
6. Federica Dal Bello, Enrica Mecarelli, Alex Affricano, Debora Fabbri, Paola Calza, Claudio Medana, *HPLC-HRMS determination of anticancer drugs and their degradants identified by heterogeneous photocatalysis as potential river toxicants*, European Journal of Mass Spectrometry
7. Michela Tramontini, Meagan Mehlhop, Rossella Sesia, Federica Spina, Marco Sangermano, Giovanna Cristina Varese, Paola Calza, *Sustainable fabrication and regeneration of functionalized bio-based hydrogels for organic and inorganic contaminants removal*, submitted to ESPR
8. Aleksander Kravos, Helena Prosen, Federica Dal Bello, Claudio Medana, Paola Calza, *Improved scheme for integrated insight into the aquatic photochemistry and fate of organic contaminants*, submitted to Environ. International

1.1.3 Papers under preparation

1. Beatriz Villajos, Carlos Márquez-Alvarez, Jorge Plaza, Amaya Arencibia, María José López-Muñoz *Graphitic carbon nitride for Hg(II) photocatalytic removal from aqueous solution: influence of precursor and exfoliation*
2. Sarah Abdelli, Luca Carena, Enmanuel Cruz Munoz, Davide Ballabio, Viviana Consonni, Roberto Todeschini, Javier Marugán, Paola Calza, Laura Ferrando-Climent, Davide Vione, *Assessing the photochemical lifetimes of the sulfonamide antibiotic sulfamethoxazole, of significance for sunlit freshwaters*
3. Federico Cristaudo, Paola Calza, Eleni Evgenidou, Lelouda-Athanasia Koronaiou, Claudio Medana, Federica Dal Bello, Dimitra Lambropoulou, *Timolol removal employing different AOPs and SR-AOPs: kinetics, identification of TPs and in silico toxicity assessment*
4. Michela Tramontini, Alessandro Italiano, Federica Spina, Elisa Gaggero, Enzo Laurenti, Giovanna Cristina Varese, Paola Calza, *Enzymatic degradation of emerging contaminants by laccases extracted from fungi*
5. Michela Tramontini, Michele Aicale, Federica Spina, Giovanna Cristina Varese, Paola Calza, *Fungi as a bioremediation strategy for the removal of contaminants of emerging concern and scale up*
6. Paola Calza, Debora Fabbri, Davide Longhin, Federico Cristaudo, Teruhisa Ohno, *A dual-function photocatalyst for water treatment: P/In co-doped g-C₃N₄ enabling H₂O₂ production and photo-Fenton-like oxidation*
7. Isadora Luiza Clímaco Cunha, Juliana Mendonça Silva de Jesus, Federico Cristaudo, Debora Fabbri, Luiz Kulay, *Trade-offs between technical and environmental performance of anodic oxidation and UVC/H₂O₂ for 17 α -ethinylestradiol removal in synthetic and real effluents*
8. F. Cristaudo, V. Boffa, Delia Revelli, D. Fabbri, P. Calza, *Combination of membrane filtration and AOPs for the removal of pollutants from a fish farm*
9. Michela Tramontini, Savarin Sinaviwat, Angwara Poolkasem, Paola Calza, *From Soil Adsorption to Bioavailability: Environmental Fate of a Plant-Derived Biostimulant*
10. Amaya Arencibia, Nerea Izquierdo, Gema Gomez, María-José López-Muñoz, *Development of activated carbons from lignocellulosic biomass for aqueous Hg(II) removal: influence of pyrolysis temperature and biomass source*



1.2 BOOK CHAPTER

1. María-José López-Muñoz, Jorge Plaza, Amaya Arencibia, Reducción fotocatalítica de metales, under revision to be published in Editorial CSIC, CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



1.3 CONFERENCES PRESENTATIONS

A total of 98 presentations at external conferences were delivered as follows.

1.3.1 Oral presentations



1.3.1.1 International conferences: 26 contributions

1. A. Giacomino, O. Abollino, E. Mondino, D. Rocca, M. Argenziano, M. Malandrino, B. F. Di Baldassarre, P. Inaudi, A simple portable procedure for mercury speciation characterization of fish, XXI Conferenza Nazionale Sensori e Microsistemi (AISEM 2022), Roma (Italy), 10-11 February 2022 (On-line)
2. P. Calza, Different strategies for restoring polluted environments, Abu Dhabi, CMAT Webinar, 10 March 2022 (invited talk)
3. M. Rigoletto, V. Sederino, C. Camilleri, M. Malandrino, P. Calza, E. Laurenti, Valorization of an agro-industrial waste: synthesis of soybean hulls derivatives-based hybrid materials for water purification, X Franco-Italian Days of Chemistry, Toulon (France), 26-27 April 2022
4. A. Arencibia, E. Parra, J. Plaza, M.J. López-Muñoz Photocatalytic improvement of graphitic carbon nitride materials by iron incorporation in a one-step synthesis, Flash oral communication, SPEA 11: 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications, Turin (Italy), 6-10 June 2022
5. M.C. Paganini, E. Cerrato, M. Spallone, D. Fabbri, P. Calza, Robust metal oxides as ZrO₂ doped with cerium, nitrogen and copper for photodegradation of pollutants in water, SPEA 11: 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications, Turin (Italy), 6-10 June 2022
6. A. Arencibia, J. Plaza, E. Parra, M.M. González, M.J. López-Muñoz, Exfoliated graphitic carbon nitride nanosheets for heterogeneous visible light photocatalysis, 8th Int Workshop on Layered & Nanostructured materials, Toledo (Spain) 10 -13 July 2022

7. M.J. López-Muñoz, B. Villajos, A. Arencibia, Influence of the synthesis parameters on the photocatalytic performance of g-C₃N₄ for Hg(II) removal from water, 5th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOA 5th), Cusco (Perú), 7-11 November 2022
8. X. Chen, V. Boffa, Y. Yue, Porous ZIF8-SiO₂ Nanofiltration Membranes for Water Purification, Euromembrane, Sorrento (Italy), 22-24 November 2022
9. F. Dal Bello, HPLC-HRMS determination in water environment of anticancer drugs subjected to heterogeneous photocatalysis mediated by semiconductor, 22 European Meeting on Environmental Chemistry, Ljubljana (Slovenia), 5-8 December 2022
10. M. Sangermano, “Photopolymerization of bio-based epoxy monomers”, Polymer Meeting15, Bratislava (Slovakia), 4-7 September 2023
11. M. Sangermano, “Cationic UV-Curing of bioderived epoxy resins”, RadTech Meeting, Munich (Germany), 17-18 October 2023
12. M.C. Paganini, E. Cerrato, V. Lagostina, P. Calza, Doped and mixed transition metal oxides as visible light photoactive interfaces, 14th International Workshop on Oxide Surfaces (IWOX14), Schladming (Austria), 14-19 January 2024
13. P. Inaudi, L. Favilli, M. Malandrino, S. Bertinetti, O. Abollino, A. Giacomino A Voltammetric Approach for the evaluation of the presence of UV Filter in Water 36th Topical Meeting of the International Society of Electrochemistry, Sibenik (Croatia), 26-29 May 2024
14. P. Calza, M. Paturel, F. Cristaudo, R. Sesia, E. Gaggero, M. Sangermano, T. Ohno, Exploitation of Sb P-doped C₃N₄ -peroxidase coupling and immobilization on epoxidized linseed oil films, SPEA12, Belfast (UK), 17-21 June 2024
15. Pilar Gómez, Rafael van Grieken, María-José López-Muñoz, Influence of the TiO₂ crystalline phase on persulfate activation for UVA-assisted degradation of isothiazolinones in water matrices, SPEA 12, Belfast (United Kingdom), 17 -21 June 2024
16. A. Arencibia, N. Izquierdo, G. Gómez-Pozuelo, M.J. López-Muñoz, Mercury adsorption from water using activated carbons developed from lignocellulosic biomass, 43rd Iberian Adsorption Meeting (RIA43), Porto (Portugal), 1– 4 September 2024
17. A. Kravos, F. Cristaudo, H. Prosen, F. Dal Bello, C. Medana, P. Calza, Exploring the photo-induced transformations of multiclass organic contaminants with tandem Orbitrap-HRMS, 35th MassSpec Forum Vienna, TU Wien, 19-20 February 2025
18. M. Tramontini, M. Mehlhop, R. Sesia, F. Spina, M. Sangermano, C. G. Varese, P. Calza, Functionalized hydrogels as novel adsorbent media for the removal of organic and inorganic contaminants ICCE2025, Belgrade (Serbia), 8-12 June 2025

19. A. Kravos, H. Prosen, F. Cristaudo, F. Dal Bello, C. Medana, P. Calza, Natural photodegradation of emerging contaminants and their transformations in aquatic environments, ICCE2025, Belgrade (Serbia), 8-12 June 2025
20. P. Calza, D. Fabbri, D. Longhin, M. Cabot, P. Inaudi, G.M Sicurella, C. Esposito, T. Ohno, Enhanced removal of contaminants of emerging concerns by boosting the photocatalytic production of hydrogen peroxide via carbon nitride-based materials, EAAOP7, Paestum (Italy), 10-13 June 2025
21. M.C. Paganini, P. Iaconis, V. Lagostina, F. Angus, M. A. Andino-Enriquez, P. Calza, Ti₃C₂ MXENE heterojunctions for enhanced photocatalytic properties, EAAOP7, Paestum (Italy), 10-13 June 2025
22. J. Ni, V. Boffa, Atomically gallium doped polymeric carbon nitride anchored on Ti₃C₂ MXENE for visible-light-driven artificial photosynthesis of hydrogen peroxide, EAAOP7, Paestum (Italy), 10-13 June 2025
23. J. Plaza, M.J. López-Muñoz, T. Ohno, One-step synthesis of metal-loaded furan-pyrrole polymers for improved photocatalytic H₂O₂ production in pure water, EAAOP7, Paestum (Italy), 10-13 June 2025
24. A. Losa, M.J. López-Muñoz, J. Marugán, Parametric study and modelling of UV-photoassisted nitrification process with peroxymonosulfate (PMS), EAAOP7, Paestum (Italy), 10-13 June 2025
25. J. Plaza, M.J. López-Muñoz, T. Ohno, Exfoliation of D-A polymers for enhancing their photocatalytic production of H₂O₂, 9th International Conference on Semiconductor Photochemistry (SP9), Madrid (Spain), 8-12 September 2025
26. M. A. Andino-Enriquez, D. Fabbri, F. Cristaudo, F. Dal Bello, C. Medana, P. Calza, Cross-regional LC-HRMS suspect and non-target screening of contaminants in rivers and aquaculture waters, 10th EuChemS Chemistry Congress: ECC10 – EuChemS 2026, Antwerp (Belgium), 12-16 July 2026



1.3.1.2 National Conferences: 11 Contributions

1. E. Gaggero, P. Calza, G.C. Varese, F. Spina, M. Rigoletto, E. Laurenti, Removal of contaminants of emerging concern by enzymatic treatment with fungal laccases, SCI 2021 (on line)
2. E. Gaggero, P. Calza, E. Bertozzi, M.C. Paganini, E. Cerrato, M.J. López-Muñoz, Photocatalytic removal of organic contaminants and mercury from aqueous solutions, Merck Young Chemists' Symposium (MYCS) 2021, Rimini (Italy), 22-24 November 2021
3. A. Giacomino, O. Abollino, E. Mondino, D. Rocca, M. Argenziano, M. Malandrino, B. F. Di Baldassarre, P. Inaudi, A simple portable procedure for mercury speciation characterization of fish, XXI Conferenza Nazionale Sensori e Microsistemi (AISEM 2022), Roma (Italy), 10-11 February 2022 (On-line)
4. P. Inaudi, L. Favilli, A. Diana, S. Bertinetti, M. Malandrino, O. Abollino, M. Rocci, A. Giacomino, Characterization and monitoring of UV filters in sunscreens by voltammetric methods, XIX Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali, Turin (Italy), 20 - 23 June 2022
5. F. Dal Bello, HPLC-HRMS characterization of transformation products of droperidol induced by TiO₂ mediated photocatalysis and their quantitation in water samples, XIX Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali, Turin (Italy), 20 - 23 June 2022
6. E. Gaggero, A. Italiano, M. C. Paganini, G. C. Varese, F. Spina and P. Calza, Development of innovative strategies for pollutants abatement in aquaculture systems, XIX Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali, Turin (Italy), 20 - 23 June 2022
7. M.C. Paganini, E. Cerrato, M. Spallone, D. Fabbri, P. Calza, Robust metal oxides for mixed and doped systems in the photodegradation of pollutants in water, 48° Congresso Nazionale di Chimica Inorganica, Pisa (Italy) , 7-10 September 2022
8. M.J. López-Muñoz, R. van Grieken, P. Gómez-Rodríguez, Eliminación de isotiazolinonas en aguas mediante procesos TiO₂/UVA, PS/UVA y TiO₂/PS/UVA, VII Reunión Nacional de Grupos de Fotocatálisis, Valencia (Spain), 9 -10 November, 2023
9. M.J. López-Muñoz, J. Plaza, T. Ohno, Producción de H₂O₂ bajo radiación visible mediante polímeros basados en furano-pirrol dopados con metales, Nuevos Desafíos en Catálisis en la Era Digital (SECAT 2025), Alcalá de Henares (Spain), 17-20 June 2025
10. N. Izquierdo, G. Gómez-Pozuelo, M.J. López-Muñoz, A. Arencibia, Optimización del proceso de pirólisis para la obtención de carbón activo a partir de biomasa lignocelulósica como adsorbente de Hg(II) en disolución acuosa, Nuevos Desafíos en Catálisis en la Era Digital (SECAT 2025), Alcalá de Henares (Spain), 17-20 June 2025

11. M. A. Andino-Enrriquez, D. Fabbri, D. Vione, P. Calza, Sunlight-driven transformation pathways of micropollutants in surface waters. XXXI Congresso Nazionale della Divisione di Chimica Analitica, Pisa (Italy), 7 – 11 September 2025



1.3.2 Poster presentations



1.3.2.1 International Conferences: 44 Contributions

1. X. Chen, V. Boffa, Y. Yue, Preparation of High-Performance Porous Zeolite-Silica Membranes for Water Desalination, Euromembrane, Copenhagen (Denmark), 28 November - 2 December 2021
2. E. Gaggero, M.J. López-Muñoz, M.C. Paganini, A. Arencibia, N. Fernandez, P. Calza, Mercury and organic pollutants removal from aqueous solutions by heterogeneous photocatalysis with ZnO-based materials, SPEA11, Turin (Italy), 6-10 June 2022
3. P. Gómez-Rodríguez, D. Fabbri, P. Calza, D. Revelli, R. van-Grieken, M.J. López-Muñoz, Photocatalytic Degradation of Methylisothiazolinone in Water by TiO₂ and TiO₂/Persulfate Activation with Simulated Solar Radiation, SPEA11, Turin (Italy), 6-10 June 2022
4. B. Villajos, M. J. López-Muñoz, A. Arencibia, Síntesis de carbones microporosos a partir de lignina para la adsorción de metales pesados, 42 RIA, Reunión Ibérica de Adsorción, Valencia (Spain), 13-16 September 2022
5. M.J. López-Muñoz, J. Plaza, P. Bonilla, A. Arencibia, Evaluation of quantitative estimation of hydroxyl radicals production by exfoliated g-C₃N₄ materials in solar photocatalytic processes, 5th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOA 5th), Cusco (Perú), 7-11 November 2022

6. M. Rigoletto, P. Calza, D. Fabbri, A. Santuchi da Cunha, M. L. Tummino, E. Laurenti, Removal of recalcitrant organic pollutants by soybean peroxidase immobilized on cellulose-alginate hydrogels, ISABC-16, Ioannina (Greece), 11-14 June 2023
7. E. Laurenti, M. Rigoletto, V. Daniele, L. Lavagna, M. L. Tummino, G. Magnacca, Enzymatic bio-sensors for biogenic amines determination in aqueous matrices, ISABC-16, Ioannina (Greece), 11-14 June 2023
8. L. Ingaramo, V. Sakkas, C. Chrimatopoulos, M.C. Paganini, P. Calza, Removal of clozapine from polluted waters via C_3N_4 based materials ICCE 2023, Venice (Italy), 11-13 June 2023
9. P. Calza, E. Gaggero, A. Giovagnoni, M.C. Paganini, D. Fabbri, Photocatalytic degradation of contaminants of emerging concern by N doped TiO_2 using simulated sunlight in real water matrices ICCE 2023, Venice (Italy), 11-13 June 2023
10. M. Macrì, S. Bonetta, A. Di Cesare, R. Sabatino, M. Catozzo, C. Pignata, V. Schiavo, C. Medana, E. Carraro, S. Bonetta, Treatment of urban effluent for agricultural reuse: occurrence and removal of antibiotic resistance and pathobiome, FEMS, Hamburg (Germany), 9-13 July 2023
11. E. Gaggero, W. Cai, P. Calza, T. Ohno, Enhanced hydrogen peroxide production using atomically dispersed antimony P-doped carbon nitride photocatalysts, (SP8), Strasbourg (France), 11 – 15 September 2023
12. P. Gómez-Rodríguez, R. van Grieken, M.J. López-Muñoz, Influence of TiO_2 crystalline phase on persulfate activation for the photocatalytic degradation of isothiazolinones in secondary effluent water, 8th International Conference on Semiconductor Photochemistry (SP8), Strasbourg (France), 11 – 15 September 2023
13. J. Plaza, A. Arencibia, M.J. López-Muñoz, Influence of the thermal exfoliation conditions on the properties of carbon nitride materials and their solar photocatalytic performance, 8th International Conference on Semiconductor Photochemistry (SP8), Strasbourg (France), 11 – 15 September 2023
14. J. Ni, V. Boffa, Visible-Light Responsive Z-scheme Ti_3C_2 MXene/ In_2S_3 / CeO_2 Heterojunction for Enhanced Water Depollution, 18th International Congress on Catalysis, Lyon (France), 26-29 May 2024
15. F. Cristaudo, P. Calza, E. Evgenidou, L.-Athanasia Koronaiou, C. Medana, F. Dal Bello, D. Lambropoulou, Timolol removal employing different AOPs and SR-AOPs: kinetics, identification of TPs and in silico toxicity assessment, SPEA12, Belfast (UK), 17-21 June 2024
16. M. C. Paganini, V. Sakkas, P. Calza C_3N_4 - ZnO a photoactive interface: Understanding the mechanism of photon absorption for the removal of clozapine, SPEA12, Belfast (UK), 17-21 June 2024

17. A. Losa, J. Marugán, M.J. López-Muñoz, Estudio paramétrico y modelado del proceso de nitrificación fotoasistida con peroximonosulfato, XV Congreso Español de Tratamiento de Aguas (META 2024), A Coruña (Spain), 19 -21 June, 2024
18. F. Cristaudo, P. Calza, M. A. Andino-Enríquez, M. Tramontini, D. Fabbri, P. Inaudi, A. Giacomino, On site analytical strategies to monitor organic and inorganic pollutants in fish farms, 3rd European Sample Preparation Conference (EuSP2024) & 2nd Green and Sustainable Analytical Chemistry Conference (GSAC2024), Chania (Greece), 15– 18 September 2024
19. F. Dal Bello, E. De Rosa, S. Arpaia, F. Oliva, P. Calza, C. Medana, Development of an HPLC-HRMS method for the identification and semi-quantitation in river water samples of the transformation products originated from heterogenous photocatalysis of antipsychotic drugs, ISC2024, Liverpool (United Kingdom), 6-10 October 2024
20. J. Plaza, M.J. López-Muñoz, T Ohno, Metal-Loaded Furan-Pyrrole Polymer: A Highly Efficient Photocatalyst for Solar-driven H₂O₂ Production, SPEA 12, Belfast (United Kingdom), 17 -21 June 2024
21. M. Rigoletto, B. Machado de Faria, B. Milardi, E. Laurenti, Study of influence of organic matter and inorganic ions on soybean peroxidase activity: toward real applications, 11th Italian-French Chemistry Days, Torino (Italy), 4-5 April 2024
22. M. Rigoletto, A. Arencibia, M. J. López Muñoz, M. Rapp, C. Vineis, M. L. Testa, M. L. Tummino, E. Laurenti, Functionalized cellulose from deproteinized soybean hulls as an environmental decontamination and disinfection tool, EMEC24, Alicante (Spain), 26-29 November 2024
23. J. Plaza, A. Arencibia, P. Calza, C. Medana, F. Dal Bello, M.J. López-Muñoz, Evaluation of the solar photocatalytic performance of g-C₃N₄ on the removal of the insecticide acetamiprid in water, (EMEC24), Alicante (Spain), 26-29 November 2024
24. A. Arencibia, N. Izquierdo, G. Gómez-Pozuelo, M.J. López-Muñoz, Adsorption of aqueous Hg(II) using activated carbons developed from agroforestry biomass: equilibrium and kinetics studies (EMEC24), Alicante (Spain), 26-29 November 2024
25. N. Izquierdo, G. Gómez-Pozuelo, M.J. López-Muñoz, A. Arencibia, Development of activated carbon from lignocellulosic biomass as adsorbents for heavy metals removal from water, 15th Fundamental of Adsorption (FOA), Conference of the International Adsorption Society, Porto (Portugal), 18-23 May 2025
26. O. Rodríguez Montoro, G. Gómez-Pozuelo, N. Izquierdo, M.J. López-Muñoz, A. Arencibia, Catalytic pyrolysis methods of biomass for the production of nanocarbons as aqueous mercury adsorbents, 15th Fundamental of Adsorption (FOA). Conference of the International Adsorption Society, Porto (Portugal), 18-23 May 2025

27. M. Tramontini, M. Aicale, F. Spina, G. C. Varese and P. Calza, Fungi as a bioremediation strategy for the removal of contaminants of emerging concern, ICCE2025, Belgrade (Serbia), 8-12 June 2025
28. A. Kravos, H. Prosen, F. Cristaudo, F. Dal Bello, C. Medana, and P. Calza, Interactions of emerging contaminants and their transformation products with aquaculture waste sludge ICCE2025, Belgrade (Serbia), 8-12 June 2025
29. P. Calza, M.C. Paganini, E. Gaggero, Y. Noiha, J. Phuriragpitikhon, W. Punkrawee, V. Boffa, Development of photocatalytic membranes and their applications to aquaculture as a case study, EAAOP7, Paestum (Italy), 10-13 June 2025
30. P. Calza, D. Fabbri, M. Saffioti, F. Sordello, M. Ginepro, M.C. Paganini, T. Ohno, Enhanced hydrogen peroxide production and organic pollutants degradation using p-doped carbon nitride photocatalysts, EAAOP7, Paestum (Italy), 10-13 June 2025
31. I.L.C. Cunha, B. Ramos, J.G.V. Vieira, J.A.W. Gut, D. Fabbri, P. Calza, V. Boffa, L. Kulay, Environmental feasibility analysis of AOP technologies for the Oanini, Ti₃C₂ MXENE photocatalyst for the abatement of emerging pollutants, EAAOP7, Paestum (Italy), 10-13 June 2025
32. P. Iaconis, V. Lagostina, F. Angus, M. A. Andino-Enriquez, P. Calza, M.C. Paganini, Ti₃C₂ mxene photocatalyst for the abatement of emerging pollutants, EAAOP7, 10-13 June 2025, Paestum (Italy)
33. C. Torchia, F. Spina, M. Tramontini, M. Aicale, F. Venice, M. Sangermano, P. Calza, G. Cristina Varese. Can polluted urban wastewater sludges be a source of fungal biocatalysts? Insights from the SusWater project, 43rd Annual Meeting of the European Culture Collections' Organization (ECCO XLIII). Utrecht (The Netherlands), 15-17 September
34. F. Spina, M. Tramontini, M. Aicale, C. Torchia, A. Reginato, M. Florio Furno, F. Venice, M. Sangermano, P. Calza, G. Cristina Varese. Micropollutants are a problem, but the fungal kingdom can help to solve it, 8th International Conference on Microbial Diversity (MD25), Rome (Italy), 23-26 September 2025
35. C. Torchia, F. Spina, M. Tramontini, M. Aicale, A. Reginato, F. Venice, M. Sangermano, P. Calza, G. Cristina Varese. Can polluted urban wastewater sludges be a source of fungal biocatalysts? Insights from the SusWater project Insights from the SusWater project, International Forum on Industrial Biotechnology and Bioeconomy (IFIB25), Turin (Italy), 25-26 September 2025
36. B. Villajos, J. Plaza, C. Márquez-Álvarez, A. Arencibia, M. José López-Muñoz, Graphitic carbon nitride for Hg(II) photocatalytic removal from aqueous solution: influence of precursor and exfoliation, 9th International Conference on Semiconductor Photochemistry (SP9), Madrid (Spain), 8-12 September 2025
37. S. Arpaia, P. Calza, D. Fabbri, R. Binetti, F. Dal Bello, C. Medana, Targeted and untargeted methods to detect micropollutants in wastewater and aquaculture, YMASS 2025, Turin (Italy), 30 September 2025

38. F Cristaudo, D Fabbri, C Medana, F Dal Bello, P Calza, Untargeted spatial profiling of emerging contaminants in Chao Phraya River: evaluating SPE selectivity via high-resolution Orbitrap MS ASMS 2026 San Diego (USA), 31 May - 4 June 2026.

39. F. Cristaudo, D. Fabbri, J. Phuriragpitikhon, P. Hemwech, F. Giunchino, B. Sicuro, P. Calza, High-resolution mass spectrometry insights into pharmaceutical partitioning and transformation in aquaculture water-sediment microcosms ASMS 2026 San Diego (USA), 31 May - 4 June 2026.

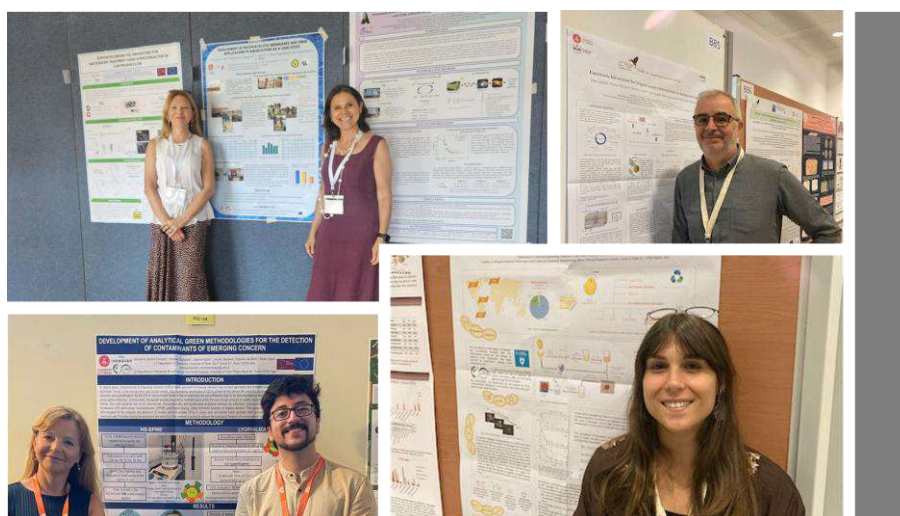
40. M. A. Andino-Enriquez, D. Fabbri, Davide Vione, Paola Calza, Matrix Dependent Photochemical Transformation of Sulfamethoxazole in Natural and Managed Waters, 10th EuChemS Chemistry Congress: ECC10 – EuChemS 2026, Antwerp (Belgium), 12-16 July 2026

41. M Tramontini, M Mehlhop, R Sesia, M. Sangermano, P. Calza, Bio-based polymeric films for the photocatalytic degradation of contaminants of emerging concern in aqueous media, 10th EuChemS Chemistry Congress: ECC10 – EuChemS 2026, Antwerp (Belgium), 12-16 July 2026

42. P. Calza, F. Cristaudo, D. Revelli, V. Boffa, D. Fabbri, Sustainable integrated approach for CECs removal in aquaculture: bench-scale validation of a hybrid membrane-AOP system 10th EuChemS Chemistry Congress: ECC10 – EuChemS 2026, Antwerp (Belgium), 12-16 July 2026

43. M. Tramontini, S. Sinaviwat, A. Poolkasem, P. Calza, From Soil Adsorption to Bioavailability: Environmental Fate of a Plant-Derived Biostimulant, 10th EuChemS Chemistry Congress: ECC10 – EuChemS 2026, Antwerp (Belgium), 12-16 July 2026

44. F. Spina, M. Aicale, F. Venice, M. Tramontini, E. Gaggero, P. Calza, G. C. Varese. Can polluted urban wastewater sludges be a source of fungal biocatalysts? 2026. 44th Annual Meeting of the European Culture Collections' Organization (ECCO XLIV). Ponta Delgada, Azores (Portugal) 14-16 September 2026.



1.3.2.2 National Conferences: 17 Contributions

1. M. Rigoletto, E. Gaggero, C. Noè, E. Laurenti, P. Calza, M. Sangermano, "Agri-food waste derived materials for the removal of pollutants from water" Congresso SCI 2021, 14-23 September 2021 (on line)
2. M. Rigoletto, E. Laurenti, and P. Calza, Synthesis of new bio-based hybrid materials for water purification" Merck Young Chemists' Symposium (MYCS) 2021, Rimini (Italy), 22-24 November 2021
3. P. Inaudi, O. Abollino, M. Malandrino, E. Botticella, A. Giacomino, Monitoring UV filters through the use of voltammetric methods, XXI Conferenza Nazionale Sensori e Microsistemi (AISEM 2022), Roma (Italy), 10-11 February 2022 (On-line)
4. P. Calza, V. Sederino, D. Fabbri, M. Rigoletto, E. Laurenti, Use of waste materials to remove organic contaminants from water, XIX Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali, Torino (Italy), 20 - 23 June 2022
5. B. Villajos, A. Arencibia y M. J. López-Muñoz, Síntesis de nitruros de carbono grafiticos para la reducción fotocatalítica de Hg(II) en aguas, META 2022: XIV Congreso Español de Tratamiento de Aguas, Sevilla (Spain), 1-3 June, 2022
6. P. Inaudi, M. Rocci, L. Favilli, A. Diana, S. Bertinetti, M. Malandrino, O. Abollino, A. Giacomini, Voltammetric methods for monitoring UV filters in sunscreens, GEI2022 Giornate dell'Elettrochimica Italiana, Orvieto (Italy) 11-14 September 2022
7. M.C. Paganini, V. Lagostina, F. Sacchi, V. Sakkas, P. Calza, Harvesting the potential of heterojunction between C₃N₄ and ZnO in photocatalysis for the removal of CECs, 49° Congresso Nazionale di Chimica Inorganica, Perugia (Italy) 12-15 September 2023
8. P. Calza, V. Sakkas, C. Medana, F. Dal Bello, L. Ingaramo, C. Chrimatopoulos, MC Paganini, Kinetics and transformation mechanism of an antipsychotic drug treated with C₃N₄ based materials, XXX Congresso della Divisione di Chimica Analitica, Vasto (Italy), 17-21 September 2023
9. P. Calza, D. Fabbri, S. Arpaia, R. Binetti, F. Dal Bello, C. Medana, Combination of target and untargeted approaches for unravelling water micropollutants in fish farms and wastewaters, XXX Congresso della Divisione di Chimica Analitica, Vasto (Italy), 17-21 September 2023
10. P. Inaudi, L. Favilli, O. Abollino, M. Malandrino, S. Bertinetti, F. Velocci, D. Fabbri, M. Locatelli, A. Giacomino, Analyzing UV Filter Levels in Water and Sunscreens: A Voltammetric Approach, Workshop del Gruppo Interdivisionale "Sensori" della Società Chimica Italiana, Roma (Italy), 13-15 December 2023
11. S. Arpaia, P. Calza, D. Fabbri, R. Binetti, F. Dal Bello, C. Medana, Targeted and untargeted methods to detect micropollutants in wastewater and aquaculture, YMASS day, Turin (Italy), 8 February 2024

12. A. Losa, J. Marugán, M.J. López-Muñoz, Estudio paramétrico y modelado del proceso de nitrificación fotoasistida con peroximonosulfato, XV Congreso Español de Tratamiento de Aguas (META 2024), A Coruña (Spain), 19 -21 June 2024

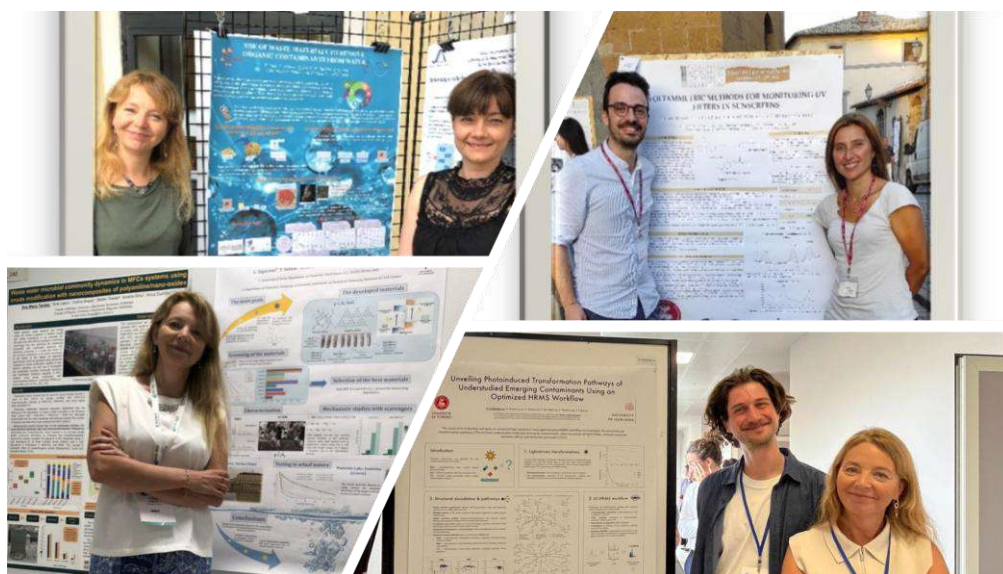
13. P. Gómez, R. van Grieken, M.J. López-Muñoz, Degradación fotocatalítica de isotiazolinonas en matrices acuosas: influencia de la fase cristalina de TiO₂ en la activación de persulfato, XV Congreso Español de Tratamiento de Aguas (META 2024), A Coruña (Spain), 19 -21 June 2024

14. F. Cristaudo, D. Fabbri, J. Phuriragpitikhon, P. Hemwech, P. Inaudi, B. Sicuro, P. Calza, Partitioning and Mobility of CECs and PTEs in Complex Aquatic Systems: A Study Between Italy and Thailand, XXXI Conference of the Analytical Chemistry Division of the Italian Chemical Society (SCI), Pisa (Italy), 7 - 11 September 2025

15. M. A. Andino-Enríquez, D. Fabbri, A. Faka, Y. Noiha, J. Phuriragpitikhon, W. Punkrawee, D. Vione, P. Calza. "Unravel the role of DOM in the photodegradation of sulfamethoxazole in real water matrices". XXXI Conference of the Analytical Chemistry Division of the Italian Chemical Society (SCI), Pisa (Italy), 7 - 11 September 2025

16. F. Cristaudo, A. Kravos, H. Prosen, F. Dal Bello, C. Medana, P. Calza, Unveiling Photoinduced Transformation Pathways of Understudied Emerging Contaminants Using an Optimized High-Resolution Mass Spectrometry Workflow. XXXI Conference of the Analytical Chemistry Division of the Italian Chemical Society (SCI), Pisa (Italy), 7 - 11 September 2025

17. M. Malandrino, O. Abollino, S. Bertinetti, S. Berto, A. Diana, P. Inaudi, E. Laurenti, M. Marafante, M. Rigoletto, M. Sangermano, R. Sesia, P. Calza, Chitosan, gelatine, and cellulose based hydrogels for the removal of potentially toxic elements from aquaculture water, XXII Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali, Palermo (Italy), 16 - 19 giugno 2026



2 DISSEMINATION ACTIVITIES TO POTENTIAL USERS

2.1 ARTICLES IN NON-SCIENTIFIC MAGAZINES

Publication in Platinum Magazine – Research & Innovation pressed and diffused with IlSole24ore. It was released in March 2023 in Italian and English (Open Access, www.platinum-online.com). Readership: 815.000 readers.



2.2 PRESS AND MEDIA MATERIALS

1. Seven Electronic newsletters

Seven newsletters have been published on the project website to communicate and disseminate the activities and results of the SUSWATER project.



2. Susy History

Project's activities have been described in a comic book (in Italian and English) entitled “A Suswater story” by A. Giacomino, P. Inaudi and E. Laurenti.



3. A narrative about the SUSWATER project was published on Frida, the first portal in Italy where researchers from the University of Turin personally share their projects, how they originate, and the directions they take.



Pulire l'invisibile: le tecnologie verdi che proteggono acqua e cibo

INZAQUAS e SusWater: progetti europei monitorano e bonificano le acque. Obiettivo: garantire risorse pulite e alimenti sicuri.

SOMMARIO

Il mondo sta vivendo una crisi idrica globale senza precedenti. Non basta analizzare l'acqua, bisogna bonificarla. Progetti europei monitorano e rimuovono elementi potenzialmente tossici garantendo risorse pulite e alimenti sicuri.

STORIA:

“Acqua azzurra, acqua chiara...”
...sodo alcune delle carat-

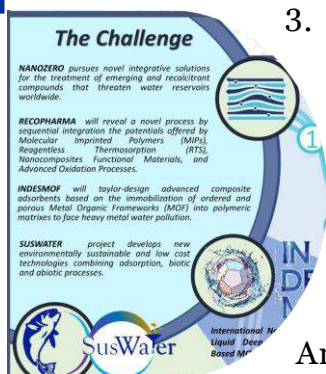
4. On the occasion of World Water Day, 22 March 2026, the University magazine published an interview to Paola Calza about “L’acqua tra scarsità e contaminazione: la sfida invisibile del nostro tempo”. <https://www.otto.unito.it/it/articoli/lacqua-tra-scarsita-e-contaminazione-la-sfida-invisibile-del-nostro-tempo>
5. A video on nanofiltration membranes produced by AAU was created by Xinxin Chen (AAU) and is available on YouTube and on the project website: <https://www.suswater.eu/dissemination/>



2.3 PARTICIPATION IN EVENTS

We have attended and/or organized specific external matchmaking events with stakeholders or public as detailed below:

1. **Giornata internazionale della bioeconomia**, 24 September 2020, P. Calza, ETN AQUALity & SusWater: Interdisciplinary approach to achieve removal of contaminants from water using a green approach
2. “**GREENGAME DAY**, Next level, non giochiamo *con l'ambiente*”, Conference dedicated to the ecological transition Torino, 24 September **2022** (targeted to students but opened to adults) (<https://www.greengame.day/>) M. Sangermano, lesson on *I materiali polimerici: dal petrolio alle fonti rinnovabili*



3. **EuroScience Open Forum (ESOF)** 13–16 July **2022**, Leiden (the Netherlands). Nanotechnologies targeting zero-toxic water (NANO ZERO). Interaction with RISE projects RECOFARMA and INDESMOF, R. Fernández de Luis, P. Calza, M. Valiente Malmagro
4. M. Sangermano, **Presentation of the SusWater RISE project** and the funding opportunity within the EU at the University Network Magalhaes, a network of University of South America, London (UK), 20 November **2023**

5. P. Calza and A. Changsuphan presentation of Suswater project at - **EU Thailand Conference on Circular Economy and Food Technology**, Bangkok (and online) 28 November **2023**
6. **Workshop on Materials Science for Environment and Beyond** within the framework of the final meeting of **INDESMOF RISE project**, P. Calza, *Sustainable integrated approach to achieve pollutants removal from contaminated waters*, 19th December **2023**, Braga (Portugal)

7. Participation in **Ecomondo**. The Green Technology Expo” Rimini, Italy a leading international event in Europe concerning environmental technologies, specifically focusing on the green and circular economy, waste management, integrated water cycle, and bio-economy. It acts as a crucial meeting point for various stakeholders, including industries, policymakers, research institutions, and public authorities, to discuss and shape environmental policies and strategies. Participation at the edition in November 2023 with flyers. A presentation of SusWater project was showcased during the 27th Edition, 5-8 November **2024**- Rimini, Italy



and on 4-7 November **2025** newsletters were printed and distributed in the framework of Water Reuse Platform (UNITO).

8. **ESOF (EuroScience Open Forum) 2024**, 10-11 June 2024, Katowice, Poland. Paola Calza was invited to attend ESOF2024. During this event, selected MSCA fellows, students, supervisors and project leaders have been invited to work on the most pressing issues in science and society through a combination of discussions interactive workshops, trainings and networking opportunities.



2.4 ORGANIZATION OF EVENTS

2.4.1 Outreach to the general public

The public has been involved in activities organized directly by the network members in their local structures. In particular, the public engagement activities performed in these three years were:

1. **GRREEN festival**, 17 September 2023, Zoom Park with the joint participation of UNITO (Agnese Giacomino), URJC (Eloy Sanz Perez) and USP (Isadora Luiza Clímaco Cunha).
2. **Dissemination event (14 November 2024), Bricherasio, Torino, Italy**

A dissemination evening regarding “Environmental and food pollution: old contaminants and new protagonists” together with the SPONDE project. Participants: **UNITO** - A. Giacomino.



3. Festival della scienza (3 June 2025), Grugliasco (Turin, Italy)

The aims of the project and the strategies used by Suswater to tackle water



pollution issues were explained to students of all ages and public in the municipality of Grugliasco, as part of the local Science Festival and in coordination with

Department of Veterinary Sciences, Department of Agricultural, Forest and Food Science and Department of Life Sciences and Systems Biology. **UNITO**- D. Fabbri and Elena de Rosa.

4. University of the third age (October-November 2025), Pinerolo, Torino, Italy

A five-lesson course to elder people dedicated to contaminants in the environment and food, including two lessons dedicated to SusWater research topics. Participants: **UNITO** -A. Giacomino, P. Inaudi.



5. The road of discoveries (6-18 October 2025), Turin, Italy

Activity in street. We showed experiments, explained the project and involving young and elderly people. Participants: **UNITO** - O. Abollino, A. Giacomino, P. Inaudi.

6. Participation in five editions of the European Researchers' Night
-European Researchers' Night 2021 (24 September 2021), Turin, Italy.

We showed experiments and explained the project to young and elderly people jointly with the H2020-ITN project AQUAlity, gaining the interest and approval of hundreds of people. Participants: **UNITO**- P. Calza, D. Fabbri, E Gaggero, M. Malandrino, M. Rigoletto, F. Spina, G.C. Varese.



-European Researchers' Night 2022 (30 September 2022), Turin, Italy.



A joint activity was performed together with three H2020 ITN projects (AQUAlity, PARACAT and CHASS). Participants: **UNITO**- P. Calza, D. Fabbri, A. Diana, S. Bertinetti



-European Researchers' Night 2023 (29-30 September 2023), Turin, Italy



A joint activity was performed together with the HE-DN-IN2AQUAS project. Participants: **UNITO**-P. Calza, D. Fabbri, F. Dal Bello, M. Malandrino, S. Bertinetti, E. Gaggero, **USP**-I. L. Climaco Cunha

-European Researchers' Night 2024 (27 September 2024), Turin, Italy.

We showed experiments, explained the project and played AQUAbingo involving young and elderly people jointly with the HEU-MSCA-DN-JD project IN2AQUAS, gaining the interest and approval of hundreds of people. Participants: **UNITO**-P. Calza, D. Fabbri, F. Cristaudo and M. Tramontini.



-European Researchers' Night 2025 (28 September 2025), Turin, Italy.



We showed experiments, explained the project and involving young and elderly people jointly with the HEU-MSCA-DN-JD project IN2AQUAS, gaining the interest and approval of hundreds of people. Participants: **UNITO**- D. Fabbri, M. Malandrino, S. Bertinetti.



7. 26 September 2025, Savigliano (Cuneo, Italy).

Agnese Giacomino showed experiments, explained the project and involving elementary and middle schools.

8. Science is Wonderful! (17-21 March 2026), Brussels, Belgium

Our PhD student Federico Cristaudo, in collaboration with the DCs Manuel Andino and Paolo Iaconis, participated in Science is Wonderful!, the European Commission's major public engagement initiative in Brussels, after passing a highly competitive selection process from over 200 projects. The event takes research outside the lab, connecting scientists, students, and citizens directly to share science in an accessible and engaging way.

A great achievement and a wonderful example of how research can engage with society!



9. Ricercatori alla spina, 11 March 2026, Turin, Italy

From the scientific menu it can be selected the talk of Ornella Abollino on *Is it clean the water in fish farms?*

10. 23 February 2026, Alba (Cuneo, Italy). A meeting with citizens to show the health of the area's water, air, and soil as part of the "Environment and Quality of Life" event. The presentation dedicated to SusWater research topics was entitled: **“Water quality: between historical contaminants and new protagonists”**. M. Malandrino.

2.4.2 Activities tailored for students

Proper experiments were selected and collected in a “SusWater Lab” to be shown to students of different countries and levels (from primary school to high school).



For students



Target to elementary school students



María José López Muñoz, presentation for students of elementary school in the framework of *Semana de la Niña y la Mujer en la Ciencia* (Week of girls and women in Science), February 2025, C.E.I.P Manuel de Falla, Fuenlabrada (Spain).

- Federica Dal Bello- elementary school May 21, 2025: The SusWater Project.



- María José López Muñoz, presentation for students of elementary school in the framework of *Semana de la Niña y la Mujer en la Ciencia (Week of girls and women in Science)*, February 2026, C.E.I.P Gerardo Diego, Getafe, Spain.

Target to secondary school students

- SusWater Lab at University of Torino, Dept. Chemistry (14th February 2023). It was performed within the framework of **GWB2023-Global Women's Breakfast 2023-Breaking Barriers in Science**, organized by IUPAC, with the title "A morning with SusWaterlab@UNITO". Local team: **UNITO**-P Calza, D Fabbri, F Spina, E Laurenti, M. Malandrino, A. Giacomino, C. Medana, E. Gaggero, M Rigoletto, P. Inaudi and **POLITO**-M. Sangermano.

Target to high school students



- A SusWater lab has been presented by P. Calza, E. Gaggero and M. Rigoletto at **UNITO** during **APERTAMENTE "ApertaMenteChimica"**, 13-14 May **2022**, University of Turin, Turin, Italy.
- A laboratory practice within the framework of "**Explora Project**" was held on 30 March **2023** at the Department of Chemistry, Turin, Italy and presented by **UNITO**-M. Malandrino, A. Giacomino, P. Inaudi, M. Rigoletto and E. Laurenti.
- A laboratory practice within the framework of the Summer School "**CHEMISTRY: "The thousand faces of water: properties, uses, treatments and reuse"**" held on 27-30 June **2023**, Turin. Participants: **UNITO**-E. Laurenti, D. Fabbri, M. Rigoletto
- A laboratory practice within the framework of "**Scientific Degree Plan (PLS) Chemistry at the service of water reuse**, 6 February **2024**, Turin. Participants: **UNITO**-D. Fabbri, P. Calza, M. Malandrino, A. Giacomino, P. Inaudi, F. Spina, E. Laurenti, M. Rigoletto
- SusWater Lab jointly with the IN2AQUAS lab at University of Torino, Dept. Chemistry (20 February 2025). Local team: **UNITO**-



P. Calza, D. Fabbri, F. Spina, E. Laurenti, M. Malandrino, A. Giacomino, P. Inaudi, M. Tramontini, M. Mehlhop and A. Faka.

- A laboratory presentation within the framework of “Inorganic pollutants in water: how to identify them for a correct abatement” (5 February 2026). Local team: **UNITO**-M. Malandrino, S. Bertinetti, R. Cecire.



3 NETWORKING

Networking activities were carried out through the following 13 projects:



<https://www.aquality-etn.eu/>



<https://paracat.eu/wp/>



<https://www.in2aquas.eu/>



<https://www.eu-project-o.eu/>



<https://jpi-oceans.eu/en/nanothecaba>



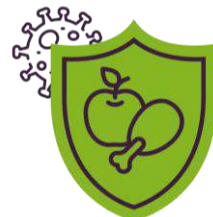
<https://www.chass-itn-project.eu/our-phds/>



<https://www.indesmof.eu/>



https://recopharma.eu/en_US/



A-Block



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