

INTERNATIONAL CONGRESSES

1. I. Berruti, S. Nahim-Granados, M. J. Abeledo-Lameiro, F. X. Cadena-Aponte, P. Plaza-Bolaños, A. Agüera, I. Oller and M. I. Polo-López. **Monitoring of bacteria, antibiotic resistance phenomenon and organic microcontaminants in a real water reuse scenery.** International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment (ICWRR2024) and 7th IWA – Regional Membrane Technology Conference (IWA-RMTC 2024), Palermo (Italy), 18-21 June 2024. Oral communication.
2. A. Hernández-Zanoletty, P. Simón, I. Oller, I. Polo-López, I. Berruti, A. Agüera, P. Plaza. **Nature based solutions by wetland system combined with solar advanced oxidation processes for wastewater recovery.** International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment (ICWRR2024) and 7th IWA – Regional Membrane Technology Conference (IWA-RMTC 2024), Palermo (Italy), 18-21 June 2024 Oral presentation.
3. P. Pascacio, D.J. Vicente, F. Salazar, I. Berruti, S. Nahim-Granados, M.I. Polo-López, I. Oller. **Implementation of Machine Learning Models for Predicting the Inactivation Performance of Escherichia coli in Wastewater Through Varied Photo-chemical Processes and Aqueous Matrix Combinations.** International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment (ICWRR2024) and 7th IWA – Regional Membrane Technology Conference (IWA-RMTC 2024), Palermo (Italy), 18-21 June 2024. Short Oral communication.
4. D. J. Vicente, P. Pascacio, F. Salazar, J. Rodríguez-Chueca, M.I. Polo, I. Oller. **Towards the Optimization of Advanced Oxidation Processes using Machine Learning Modelling: the DIGIT4WATER Project.** International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment (ICWRR2024) and 7th IWA – Regional Membrane Technology Conference (IWA-RMTC 2024), Palermo (Italy), 18-21 June 2024. Oral.
5. A. Ruiz-Delgado, P. Serrano-Tarí, I. Oller, S. Malato. **Microcontaminant removal by solar photocatalysis with a new supported zero valent iron at natural pH.** 1st International Conference on Novel Photorefineries for Resource Recovery (Photorefineries 2024). Valladolid (Spain) 9-11 September 2024. Oral communication.
6. P. Serrano Tarí, G. Scelfo, A. Cipollina, A. Ruiz Delgado, I. Oller. **Operational performance of a pilot ultrafiltration unit for the treatment of ultra-concentrated brines.** 4ª Conferencia Nacional de International Water Association – Young Water Professionals – Spanish Chapter. Bilbao (Spain) 29-31 October 2024. Oral communication.
7. A. Hernández-Zanoletty, I. Oller, M.I. Polo-López, I. Berruti, A. Agüera, P. Plaza-Bolaños. **Nature-based solutions combined with solar photochemical processes for simultaneous removal of microcontaminants and pathogens contained in UWWs.** 12th European Conference on Solar Chemistry and Photocatalysis: Energy and Environmental Applications (SPEA12), Belfast, Reino Unido, 17-21 Junio 2024 (oral).
8. K. G. McGuigan, B. Sawant, K. O'Dowd, M. J. Abeledo-Lameiro, G. Yerulker, S. Nair, S. Couso-Pérez, S. C. Pillai, M. I. Polo-López, I. Oller-Alberola, H. Gómez-Couso, R. Marasini, J. Marugán, G. Kanade, R. Dhodapkar. **Suitability of polypropylene containers for use in solar water disinfection (SODIS).** 12th European Conference on Solar Chemistry and Photocatalysis: Energy and Environmental Applications (SPEA12), Belfast, Reino Unido, 17-21 Junio 2024. (oral)
9. S. Nahim-Granados, I. Berruti, I. Oller, M.I. Polo-López, S. Malato. **Commercial iron micronutrient (Fe³⁺-IDHA) as iron source for photo-Fenton-like processes at near-neutral pH: proof-of-principle study.** 12th European Conference on Solar Chemistry and Photocatalysis: Energy and Environmental Applications (SPEA12), Belfast, Reino Unido, 17-21 Junio 2024. (Oral)
10. A. Hernández-Zanoletty, I. Oller, M.I. Polo-López. **Anaerobic digester combined with nature-based solutions for urban wastewater disinfection.** 4th International Conference on Disinfection and Disinfection By-Products (DDBP 2024), Almería, España, 21-24 October 2024. (short oral).
11. A. París-Reche, E. Jambrina-Hernández, P. Plaza-Bolaños, I. Rodríguez Ruano, S. Nahim-Granados, F.J. Martínez-Rodríguez, A. Agüera. **Monitoring of selected disinfection by-products in treated water from drinking and reclaimed water facilities from Almeria province (Southeast Spain).** 4th International Conference on Disinfection and Disinfection By-Products (DDBP 2024), Almería, España, 21-24 October 2024. (Short Oral).
12. I. Espinoza-Pavón, I. Berruti, S. Nahim-Granados, I. Oller, S. Malato, M. I. Polo-López, C. Monteserín, H. Zarrabe, A. M. Goitandia, M. Blanco. **Assessment of a new pilot-scale photocatalytic reactor for simultaneous disinfection and microcontaminant removal from water.** 1st International Conference on Novel Photorefineries for Resource Recovery, Valladolid, España, 2024. (oral)
13. I. Espinoza-Pavón, I. Berruti, S. Nahim-Granados, I. Oller, S. Malato, C. Monteserín, H. Zarrabe, A. M. Goitandia, M. Blanco, M. I. Polo-López. **Scaling-up a multi-step cascade photocatalytic reactor for water disinfection and decontamination.** 4th IWA-YWP Spain National Conference, Bilbao, España, 2024. (short oral)
14. B. Sawant, K. O'Dowd, M. J. Abeledo-Lameiro, G. Yerulker, S. Nair, S. C. Pillai, M. I. Polo-López, I. Oller, H. Gómez-Couso, R. Marasini, J. Marugán, G. Kanade, R. Dhodapkar, K. G. McGuigan. **Suitability of**

- polypropylene containers for use in solar water disinfection (SODIS) of waterborne pathogens beyond the laboratory environment?** Workshop on Photo-irradiation and Adsorption based Novel Innovations for Water-treatment, PANIWATER. CSIR-National Environmental Engineering Research Institute, Nagpur, 440 020, Maharashtra, India. 22nd-24th January 2024 (oral)
15. K.J. Castañeda Retavizca, K. O'Dowd, S. Nahim-Granados, P. Plaza-Bolaños, S. Malato, M.I. Polo-López, S. Pillai, A. Agüera, I. Oller. **Urban wastewater treatment by ozonation: pathogens and microcontaminants removal, byproducts formation and toxicity evaluation.** Workshop on Photo-irradiation and Adsorption based Novel Innovations for Water-treatment, PANIWATER. CSIR-National Environmental Engineering Research Institute, Nagpur, 440 020, Maharashtra, India. 22nd-24th January 2024 (oral)
 16. Sixto Malato, Sarah Meitz. **Solar Reactor for Solar Fuel Production – Optimization via Process Intensification.** 3rd international sustainable energy conference 2024. 10-11 April 2024. Graz, Austria. Oral.
 17. Patricia García-Muñoz, Nicolas Keller, Alba Hernández-Zanolety, Fernando Fresno, Didier Robert, Sixto Malato. **Boosted activity and robustness of La_{1-x}Ti_xFeO₃ catalysts with sunlight-driven dual photo-CWPO and photocatalytic activity in water treatment. From lab-scale to pilot-scale under real sun.** 12th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Belfast (UK), June 17-21, 2024. Book of abstracts (ISBN 978-1-85923-297-2). Oral 28, page 88-89.
 18. Sixto Malato. **Mitigating risks and maximizing sustainability of treated wastewater reuse using advanced oxidation processes.** Security Enhancement for Climate Changes impacting Urban Resources – SECCURE. NATO Advanced Research Workshop ARW G6276. 9-12th July 2024, Montelibretti – Roma (Italy). Invited Lecture.
 19. P. Serrano-Tarí, A. Ruiz-Delgado, I. Oller, S. Malato, M. I. Polo-López, A. Agüera, P. Plaza-Bolaños. **Recovery of industrial wastewater by solar photocatalytic and photochemical processes.** 12th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA12). Belfast (Ireland), 17-21 June 2024.
 20. J. H. Ferreira de Jesus, K. V. Leite Lima, A. Ruiz-Delgado, A. M. París-Reche, S. Malato, A. Agüera, R. Fernandes Pupo Nogueira. **Degradation of micropollutants in WWTP effluent by recycled sludge and its performance on CPC reactor.** CIPOA-VI Iberoamerican Conference on Advanced Oxidation Technologies. Florianópolis (Brazil), 7-11 October 2024.
 21. I. Espinoza-Pavón, I. Berruti, S. Nahim-Granados, I. Oller, S. Malato, M. I. Polo-López, C. Monteserín, H. Zarrabe, A. M. Goitandia, M. Blanco. **Assessment of multi-step cascade photocatalytic reactor for the treatment of different water matrices at pilot scale.** 12th European Conference on Solar Chemistry and Photocatalysis: Energy and Environmental Applications (SPEA12), Belfast, Reino Unido, 17-21 Junio 2024. (poster)
 22. L. C. Schmidt, N. Tian, M.J. Abeledo, M. I. Polo-López, M. L. Marín, F. Boscá, I. del Castillo González, A. Hernández, S. Giannakis. **Gaining an understanding of the mechanisms of Escherichia coli disinfection through unactivated peroxymonosulfate.** 12th European Conference on Solar Chemistry and Photocatalysis: Energy and Environmental Applications (SPEA12), Belfast, Reino Unido, 17-21 Junio 2024. (poster)
 23. I. Espinoza-Pavón, I. Berruti, S. Nahim-Granados, I. Oller, S. Malato, C. Monteserín, H. Zarrabe, A. M. Goitandia, M. Blanco, M. I. Polo-López. **Solar-driven Immobilized Photocatalysis in a Flat-based Reactor for Water Disinfection.** 4th International Conference on Disinfection and Disinfection By-Products (DDBP 2024), Almería, España, 21-24 October 2024. (poster)
 24. A. Hasanzade, S. Nahim Granados, K. Lalas, I. Oller, M.I. Polo-López. **Disinfection of Simulated Aquaculture Effluent by Solar/Chlorine Driven using Raceway Pond Reactor.** 4th International Conference on Disinfection and Disinfection By-Products (DDBP 2024), Almería, España, 21-24 October 2024. (Póster).
 25. E. Jambrina-Hernández, P. Plaza-Bolaños, S. Nahim-Granados, A. París-Reche, A. Agüera. **Determination of chlorinated, brominated and iodinated haloacetic acids in environmental waters by direct injection and hydrophilic interaction chromatography coupled to mass spectrometry (DI-HILIC-MS/MS).** 4th International Conference on Disinfection and Disinfection By-Products (DDBP 2024), Almería, España, 21-24 October 2024. (Póster).
 26. K.J. Castañeda Retavizca, K. O'Dowd, E. Jambrina-Hernández, S. Nahim-Granados, P. Plaza Bolaños, S. Malato, M.I. Polo-López, S.C. Pillai, I. Oller. **Urban wastewater treatment by ozonation: pathogens and microcontaminants removal, disinfection byproducts and toxicity evaluation.** 4th International Conference on Disinfection and Disinfection By-Products (DDBP 2024), Almería, España, 21-24 October 2024. (Póster).
 27. J. G. Villachica Llamosas, A. Ruiz-Aguirre, G. Colón, J. Peral, S. Malato. **Hydrogen production by photoreforming applying natural solar radiation at pilot scale in different water sources.** 12th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Belfast (UK), June 17-21, 2024. Book of abstracts (ISBN 978-1-85923-297-2). Poster 155, page 473-474.
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29. A. Ruiz-Delgado, A. Hernández-Zanoletty, I. Oller, S. Malato. **Assesment of a new commercial supported zero valent iron obtained from olive mill residues in solar heterogeneous photocatalysis for microcontaminant removal.** 8th International Conference on Semiconductor Photochemistry (SP8). Estrasburgo (Francia), September 11-15, 2023.
30. K. O'Dowd, S. Pillai, I. Oller, M.I. Polo-López, A. García-Gil, J. Marugán, H. Gómez-Couso, R. Marasini, K. McGuigan. **The development of transparent polypropylene jerrycans for solar disinfection (SODIS) of drinking water.** Book of abstract (Poster P86). 18th Leading Edge Conference on Water and Wastewater Technologies (LET 2023). Daegu (South Korea) May 29 –June 2, 2023.
31. K.J. Castañeda Retavizca, K. O'Dowd, S. Nahim-Granados, P. Plaza-Bolaños, S. Malato, M.I. Polo-López, S. Pillai, A. Agüera, I. Oller. **Urban wastewater treatment by ozonation: pathogens and microcontaminants removal, disinfection byproducts and toxicity evaluation.** IOA World Congress & Exhibition. Milan (Italy) July 2 -7, 2023. Flash & Poster communication.
32. A. Hernández-Zanoletty, I. Oller, M. I. Polo-López, O. Cabezuelo, M. L. Marín, F. Boscá, S. Malato. **Decontamination of secondary wastewater treatment plant effluents by TiO₂ immobilized on silica support.** 8th International Conference on Semiconductor Photochemistry (SP 8). Strasbourg (France), September 11-15, 2023. Flash&Poster presentation.
33. J. G. Villachica-Llamosas, A. Ruiz-Aguirre, S. Malato. **Valorization of glycerol wastewater for hydrogen production at pilot scale under natural radiation.** 15th European Congress on Catalysis, EuropaCat 2023. Praga (República Checa), August 27 September 1, 2023.
34. Eva Jiménez-Relinque, Moisés Canle, Sixto Malato, Pedro M. Álvarez, Montserrat Pérez-Moya, M^a José López-Muñoz, Daphne Hermosilla, Antonio Arques, Jesús Santamaria, Silvia Suárez, Jose M. Doña, M^a Pilar Marco, Francisco Bosca, Ana Bahamonde, Marta Castellote. **InterPHOT - Challenging the limits of photocatalysis: interdisciplinarity for the breakthrough in fundamentals and applications.** 8th International Conference on Semiconductor Photochemistry. Strasbourg, France. September 11 – 15, 2023. Book of abstracts, p. FC-29. Flash Com. Poster.
35. I. Berruti, S. Nahim-Granados, M.J. Abeledo-Lameiro, I. Oller and M.I. Polo-López. **Peroxymonosulfate/Solar process for the simultaneous disinfection and decontamination of urban wastewater at pilot plant scale.** 6th IWA International Conference on eco-Technologies for Wastewater Treatment (ECO STP 2023) Girona (España) 26-29 junio 2023. Oral communication.
36. I. Oller, A. Ruiz-Delgado, A. Hernández-Zanoletty, I. Espinoza Pavón, M.I. Polo-López, S. Nahim-Granados, S. Malato. **Solar photocatalytic applications for water treatment and regeneration.** The 5th Photocatalytic and Superhydrophilic Surfaces Workshop (PSS2023), Praga (República Checa), 4-6 December 2023. Oral invitada.
37. S.C. Pillai, K. O'Dowd, A. Martínez-García, I. Oller, M.I. Polo-López, S. Couso-Pérez, E. Ares-Mazás, H. Gómez-Couso, Á. García-Gil, J. Marugán, R. Marasini, B. Sawant, K.G McGuigan. **Transparent Polypropylene Jerrycans** for Solar Disinfection of drinking water; antimicrobial properties, durability, and human toxicity. 2023 Spring Meeting & Exhibit. Strasbourg (France), May 29 - June 2, 2023. Invited oral communication. Book of abstract, N° 2098.
38. A. Hernández-Zanoletty, P. Simón, S. Nahim-Granados, I. Oller, M.I. Polo-López. **Natural based solutions combined with solar processes at pilot scale for urban wastewater reclamation.** 6th IWA International Conference on eco-Technologies for Wastewater Treatment. Girona (España), June 26-29, 2023. Conference proceeding, technical session 4, oral 4.7. Oral communication.
39. S. Guerra-Rodríguez, M.J. Abeledo-Lameiro, M.I. Polo-López, P. Plaza-Bolaños, A. Agüera, E. Rodríguez, J. Rodríguez-Chueca. **Evaluation of pilot-scale advanced oxidation treatments on a real secondary effluent for the removal of contaminants of emerging concern and antibiotic resistance genes.** WCCE11 - 11th World Congress of Chemical Engineering. Buenos Aires (Argentina). June 4-8, 2023. Oral communication (Keynote). 1K027
40. K. O'Dowd, I. Oller, M.I. Polo-López, J. Marugán, H. Gómez-Couso, R. Marasini, K.G McGuigan, S.C. Pillai. **Development of SODIS technologies for the effective disinfection of drinking water: Microbicidal efficacy, toxicity and long-term use.** WCCE11 - 11th World Congress of Chemical Engineering. Buenos Aires (Argentina). June 4-8, 2023. Oral communication 1K022
41. A. Hernández-Zanoletty, P. Simón, S. Nahim-Granados, I. Oller, M.I. Polo-López, K. Plakas. **AQUACYCLE project: anaerobic bioreactors combined with natural based solutions and solar open photoreactors for wastewater recovery.** Water innovation and circularity conference (WIIC). Athens (Greece), June 7-9, 2023. Oral communication.
42. K.J. Castañeda Retavizca, M.I. Polo-López, S. Malato. **Assessment of two solar photoreactor's design for water decontamination using photo Fenton reactions.** 4th Doctoral Colloquium. SFERA-III Solar Facilities for the European Research Area. Cologne (Germany). September 11-13, 2023. Oral communication.
43. P. Plaza-Bolaños, F.X. Cadena-Aponte, S. Nahim-Granados, M.I. Polo-López, I. Oller, A. Agüera. **Evaluation of antibiotic levels in a real water reuse system for agricultural irrigation.** International Conference on

- Environmental & Food Monitoring (ISEAC-41). Amsterdam (The Netherlands), November 20-24, 2023. Oral communication.
44. J. G. Villachica-Llamas, A. Ruiz-Aguirre, S. Malato. **Hydrogen production improvements by glycerol photoreforming under natural radiation at pilot scale.** 4th SFERA-III and 17th SOLLAB Doctoral Colloquium 2023, Cologne (Germany), September 11-13, 2023. Oral communication.
 45. E. Jambina Hernández, P. Plaza Bolaños, S. Nahim Granados, A.M. Paris Reche, I. Oller Alberola, A. Agüera Lopez. **Determination of haloacetic acids in reclaimed water and drinking water by direct injection and hydrophilic interaction chromatography coupled with mass spectrometry.** International Conference on Environmental & Food Monitoring (ISEAC-41). Amsterdam (The Netherlands) November 20-24, 2023. Oral communication.
 46. S. Nahim-Granados. **Water/wastewater disinfection by AOPs.** 1st Latin America School on Environmental Applications of Advanced Oxidation Processes. Cali (Colombia) Octubre 30-31, 2023. 1K027
 47. Isabel Oller. **Fundamentals and applications of ozonation process.** 1st International school on Environmental Applications of Advanced Oxidation Processes, Universidad del Valle, Cali (Colombia), 30 de octubre de 2023. Ponencia invitada.
 48. P. Núñez-Tafalla, I. Salmerón, I. Oller, S. Venditti, S. Malato, J. Hansen. **Effective micropollutant depuration by a novel sustainable approach: coupling solar photo-Fenton with regenerated activated carbon.** 6th IWA International Conference on eco-Technologies for Wastewater Treatment. Girona (España), June 26-29, 2023. Oral communication.
 49. S. Malato. Conventional vs new photo-Fenton processes. I Escuela Latinoamericana de Procesos Avanzados de Oxidación, Universidad del Valle, Cali, Colombia. 30 al 31 de octubre del 2023. Ponencia invitada. 1K037
 50. Sixto Malato. **Development of solar photoreactors for water treatment.** XVIII National Meeting of the Portuguese Society of Chemistry (XVIII EN-SPQ). 24th to the 26th of July 2023 Aveiro, Portugal. Abstract book, p 36. Plenary lecture.
 51. S. Malato, J.G. Villachica-Llamas, A. Ruiz-Aguirre. **Hydrogen production from glycerol wastewater at pilot scale under natural radiation.** 8th International Conference on Semiconductor Photochemistry. Strasbourg, France. September 11 – 15, 2023. Book of abstracts, p. OC31. Oral.
 52. M.J. Abeledo-Lameiro, A. Hernandez-Zanoletty, S. Nahim-Granados, M.I. Polo-López, I. Oller, P. Plaza-Bolaños, A. Agüera, S. Malato. **Simultaneous decontamination and disinfection of real urban wastewater using solar processes at pilot scale.** Workshop on Photo-irradiation and Adsorption based Novel Innovations for Water-treatment, PANIWATER. Lecce (Italia) 4th May 2022. Oral communication
 53. S. Nahim-Granados, T. Agovino, M. Castro-Alfárez, L. Rizzo, M.I. Polo-López. **Urban Wastewater disinfection by Sunlight/Peracetic Acid: inactivation of antibiotic-resistant bacteria.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022. Oral communication
 54. M.I. Polo-López, A. Agüera, S. Nahim-Granados, A. González, M.J. Abeledo-Lameiro, I. Oller, S. Malato, P. Plaza-Bolaños. **Comprehensive Evaluation Of A Real Water Reuse Scenery In Agricultural Irrigation: Monitoring Of Antibiotics, Bacteria And Resistant Genes** 12th Micropol & Ecohazard Conference. Santiago de Compostela (Spain) 6-10 June 2022. Oral communication
 55. I. Salmerón, I. Sánchez-Montes, A. Ruiz-Delgado, I. Oller, M.I. Polo-López, S. Malato. **Comparison of UVC and Solar-based Processes for the Simultaneous Removal of Microcontaminants and Microorganisms from Urban Wastewater Effluents.** 12th Micropol & Ecohazard Conference. Santiago de Compostela (Spain) 6-10 June 2022. Oral communication
 56. A. Hernández-Zanoletty, I. Oller, I. Polo-López, S. Malato, A. Ruiz-Delgado, S. Nahim-Granados, J. Flores, O. Cabezueto, M.L. Marín, F. Boscá. **Assessment of new immobilized photocatalysts for wastewater disinfection and decontamination.** 39th IAHR World Congress. Granada (Spain) June 19-24, 2022. Oral communication
 57. S. Nahim-Granados, P. Plaza-Bolaños, I. Oller, S. Malato, A. Agüera, J.A. Sánchez-Pérez, M.I. Polo-López. **Solar processes to treat and reuse agro-industrial wastewater: close the water-food-energy nexus in fresh-cut industries.** 39th IAHR World Congress, Granada (Spain) June 19-24, 2022. Oral communication
 58. M.J. Abeledo-Lameiro, A. Hernández-Zanoletty, S. Nahim-Granados, M.I. Polo-López, I. Oller, S. Malato. **Solar Processes For Urban Wastewater Purification: A Comparative Disinfection And Decontamination Study At Pilot Plant Scale In A Compound Parabolic Collector (CPC) Reactor.** 39th IAHR World Congress. Granada (Spain) June 19-24, 2022. Oral communication
 59. M.J. Abeledo-Lameiro, A. Hernández-Zanoletty, S. Nahim-Granados, M.I. Polo-López, I. Oller, S. Malato. **Urban wastewater disinfection by solar processes at pilot scale in a Compound Parabolic Collector reactor.** 3rd IWA Specialized International Conference on Disinfection and DBPs 2022. Milan (Italy) June 27th – July 1st, 2022. Oral communication
 60. S. Nahim-Granados, M.J. Abeledo-Lameiro, A. González, I. Oller, S. Malato, P. Plaza-Bolaños, Ana Agüera, M.I. Polo-López. **Antimicrobial resistance and wastewater reuse: a field study in the intensive agriculture**

- of Spain. 3rd IWA Specialized International Conference on Disinfection and DBPs 2022. Milan (Italy) June 27th – July 1st, 2022. Oral communication
61. A. Hernández-Zanoletty, I. Oller, M.I. Polo-López, S. Malato. **Natural based solutions combined with solar advanced oxidation processes for wastewater recovery.** 3rd SFERA-III and 16th SolLab Doctoral Colloquium. Zürich (Switzerland) September 12th-14th, 2022. Oral communication
 62. S. Malato, G. Maniakova, M. I. Polo-López, I. Oller, L. Rizzo. **Sunlight advanced oxidation processes vs ozonation for safe reclamation and contaminants of emerging concern elimination of urban wastewater secondary effluent.** Oral communication. 5th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOA). Cusco (Peru) 7-11th September 2022. Oral communication
 63. S.C. Pillai, K. O'Dowd, I. Oller, M.I. Polo-López, J. Marugán, H. Gómez Couso, K. G McGuigan. **Integration of SODIS technologies for the effective disinfection and decontamination of drinking water: Microbicidal efficacy and toxicity.** Oral communication. 5th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOA). Cusco (Peru) 7-11th September 2022. Oral communication
 64. M.I. Polo-López, A. Hernández-Zanoletty, I. Oller, S. Malato, J. Flores, M.L. Marín, F. Bosca. **Disinfection of secondary wastewater effluents by Rose Bengal immobilized in glass wool.** SOC-040 (Book of abstract). 5th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOA), Cusco (Peru) 7-11th September 2022. Oral communication
 65. I. M. Sciscenko, A. Arques, M. Roccamante, A. Ruiz-Delgado, S. Miralles-Cuevas, S. Malato, I. Oller. **Coupling zerovalent iron pre-treatment with Fenton oxidation for recalcitrant pollutant degradation enhancement: A case study for p-nitrobenzoic acid.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022. Oral communication
 66. A. Ruiz-Aguirre, P. Hurtado, I. Oller, G. Zaragoza. **Treatment and pickling of passivation solutions by diffusion dialysis and membrane distillation at a pilot scale.** Euromembrane 2022, Sorrento (Italia), 20-24 noviembre 2022. Oral communication.
 67. A. Ruiz-Aguirre, J. G. Villachica-Llamas, M. I. Polo-López, A. Cabrera, J. Peral, G. Colón, S. Malato. **Pilot-scale photocatalytic hydrogen production, decontamination and disinfection using TiO₂ mixed with metal-cocatalysts under natural radiation.** EuroSun 2022, International conference on solar energy for buildings and industry, Kassel (Alemania), 25-29 septiembre 2022. Oral communication.
 68. J. G. Villachica-Llamas, A. Ruiz-Aguirre, S. Malato. **Photocatalytic hydrogen production by natural solar radiation at pilot scale.** 16th Sollab Doctoral Colloquium. Zürich (Switzerland), 12-14 September 2022. Oral communication.
 69. J. G. Villachica-Llamas, A. Ruiz-Aguirre, M. I. Polo-López, A. Cabreira-Reina, G. Colón, J. Peral, S. Malato. **A CuO-TiO₂ mixture as a promising photocatalyst for simultaneous hydrogen production, wastewater treatment and disinfection.** 11th European Photocatalysis, Conference on Environmental, Solar Chemistry and Applications. Turin (Italia), 6-10 junio 2022. Oral flash.
 70. I. Sciscenko, I. Oller, C. Escudero-Oñate, L. Ferrando-Climent, A. Arqués. **EEM-PARAFAC to evaluate oxidation treatments of fluorescent contaminants of emerging concern.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022. Oral communication
 71. M. Covei, C. Bogatu, I. Polo-Lopez A. Duta, S. Malato. **Phenol and Imidacloprid Degradation under Solar Radiation at Pilot Plant Scale using ZnO photocatalyst.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy), June 6-10, 2022.
 72. I. Berruti, F. Bosca, M.L. Marin, I. Oller, M.I. Polo-López. **Assessment of Sulfate Radical Anion Reactivity: A Laser Flash Photolysis Study.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022.
 73. I. Berruti, N. Gonçalves, P. Calza, M.C. Paganini, I. Oller, M.I. Polo-López, **Ce-Modified Zinc Oxide Photocatalyst for the Simultaneous Disinfection and Decontamination of Urban Wastewater.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022.
 74. I. Oller, I. Berruti, M.I. Polo-López, E. Laurenti, P. Calza, M. Minella. **Study of the reactivity of peroxymonosulfate towards sulfamethoxazole.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022.
 75. A. Hernández-Zanoletty, I. Oller, M.I. Polo-López, S. Malato, J. Flores, O. Cabezuelo, M.L. Marín, F. Bosca. **Evaluation of new immobilized photocatalyst for simultaneous wastewater decontamination and disinfection.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022.
 76. I. Oller, M.I. Polo-López, S. Nahim-Granados, S. Malato, M.J. Abeledo Lameiro, S. Miralles, A. Agüera. **Simultaneous micropollutant removal and pathogen inactivation by advanced oxidation technologies for wastewater recovery.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA), Turin, Italy, June 6-10, 2022. Keynote.

77. Sixto Malato. **Treatment of municipal effluents using advanced oxidation processes based on solar radiation: a new water resource for arid regions?** conference "Understanding and mitigating effects of treated wastewater reuse in agriculture: From risks to policy and new opportunities". Kibbutz Hagoshrim, Israel October 23rd-27th 2022. Invited conference
78. J.G. Villachica-Llamas, A. Ruiz-Aguirre, M.I. Polo-López, A. Cabrera-Reina, G. Colón, J. Peral, S. Malato. **A CuO-TiO₂ mixture as a promising photocatalyst for simultaneous hydrogen production, wastewater treatment and disinfection.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy), June 6-10, 2022.
79. M. J. Abeledo-Lameiro, A. Hernández-Zanoletty, S. Nahim-Granados, M. I. Polo-López, I. Oller, S. Malato. **A Comparative Study Of Disinfection And Decontamination For Urban Wastewater Purification Using Solar Processes At Pilot Scale In A Compound Parabolic Reactor (CPC).** 12th Micropol & Ecohazard Conference. Santiago de Compostela (Spain), 6-10 June 2022.
80. A. Martínez-García, S. Nahim-Granados, M. J. Abeledo-Lameiro, I. Oller, M. I. Polo-López. **Enhancement Effect Of H₂O₂ And Dissolved Oxygen On Solar Water Disinfection.** 12th Micropol & Ecohazard Conference. Santiago de Compostela (Spain), 6-10 June 2022.
81. S. Nahim-Granados, M. J. Abeledo-Lameiro, I. Oller, S. Malato, I. Polo-López. **Solar Oxidation Processes To Fight Against The Silent Global Health Emergency: Simultaneous Removal Of Antibiotics And Antibiotic-resistant Bacteria In Urban Wastewater.** 12th Micropol & Ecohazard Conference. Santiago de Compostela (Spain), 6-10 June 2022.
82. I. Berruti, S. Nahim-Granados, M.J. Abeledo-Lameiro, I. Oller, M.I. Polo-López. **Sulfate Radical-based Advanced Oxidation Processes for wastewater disinfection.** 3rd IWA Specialized International Conference on Disinfection and DBPs 2022. Milan (Italy), June 27th – July 1st, 2022.
83. M.I. Polo-López, A. Martínez-García, I. Oller. **Solar water disinfection of rainwater by H₂O₂ and dissolved oxygen: a pilot plant scale study.** 3rd IWA Specialized International Conference on Disinfection and DBPs 2022. Milan (Italy), June 27th – July 1st, 2022.
84. M. I. Polo-López, I. Oller, S. Malato, S. Nahim-Granados, M. J. Abeledo-Lameiro, A. Ruiz-Aguirre, S. Miralles-Cuevas. **Solar treatments for urban wastewater effluent reclamation: the experience at Plataforma Solar de Almería.** 3rd International Conference on Disinfection and DBPs (IWA DDBPs 2022)-PRIMA DSWAP WORKSHOP, Milan, Italia, junio 27 –julio 1, 2022. Oral communication.
85. B. Sawant, J. Marugán, M.I Polo-López, R. Marasini, R. Dhodapkar, K.G. McGuigan. **Evaluation of solar water disinfection (SODIS) efficacy of a 10L polypropylene transparent jerrycan.** P-278 (Book of abstract) IWA World Water Congress & Exhibition. Copenhagen (Denmark), September, 11-15, 2022.
86. K.G. McGuigan, A. Martinez-Garcia, S. Couso-Pérez, Á. García-Gil, B. Sawant, K. O Dowd, S. Nair, J. Marugán, M.I Polo-López, H. Gómez-Couso, R. Marasini, S. Pillai, R. Dhodapkar, E. Ares-Mazas. **Evaluation of a 10L transparent polypropylene jerrycan for solar water disinfection (SODIS) applications.** P-280 (Book of abstract) IWA World Water Congress & Exhibition. Copenhagen (Denmark), September, 11-15, 2022.
87. S. Nahim-Granados, P. Plaza-Bolaños, I. Oller, S. Malato, A. Agüera, J.A. Sánchez-Pérez, M.I. Polo-López. **Close the water-food-energy nexus by renewable energy: reuse of agro-industrial wastewater treated by solar processes.** ISES and IEA SHC International Conference on Solar Energy for Buildings and Industry (EUROSUN 2022). Kassel (Germany) 25 - 29 September, 2022.
88. S. Malato, S. Miralles, M. Roccamante, I. Oller, A. Cabrera, A. Ruiz-Delgado. **Solar photo-Fenton process using zero valent iron obtained from olive mill wastewater for microcontaminants removal: A pilot plant scale assessment.** 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA). Turin (Italy) June 6-10, 2022.
89. I. Sánchez-Montes, I. Salmerón, J.M. Aquino, M.I. Polo-López, S. Malato, I. Oller. **Comparison of UVC/H₂O₂ and UVC/S₂O₈²⁻ processes for simultaneous removal of microcontaminants and bacteria in simulated municipal wastewater at pilot-scale.** Congreso INTERNACIONAL 4th SMALLWAT21v. On-line, Sevilla (España). 17-18 June 2021.
90. S. Nahim-Granados, A.B. Martínez-Piernas, G. Rivas-Ibáñez, P. Plaza-Bolaños, I. Oller, S. Malato, J.A. Sánchez Pérez, A. Agüera, M.I. Polo-López. **Solar processes and ozone as alternative treatments for wastewater reuse in agro-food industries: water, crops and risk assessment.** Congreso INTERNACIONAL 4th SMALLWAT21v. On-line, Sevilla (España). 17-18 June 2021
91. A. Ruiz-Aguirre, R. Gueccia, S. Randazzo, A. Cipollina, G. Micale, **Continuous H₂SO₄ recovery by diffusion dialysis.** ICheaP 15. The 15th International Conference on Chemical and Process Engineering, Naples 23-26 May 2021.
92. M.I. Polo-López. **Antibiotic Resistant Bacteria: occurrence and removal from urban wastewater.** ODAKtr Seminar (H2020 Project SolarTwins). Online 5 February 2021.
93. M.I. Polo-López. **Water and Wastewater disinfection by AOPs.** International PhD School on Advanced Oxidation Processes (IPS-AOP) Webinars series 2020-2021. Online 16 March 2021.

94. I. Oller. **Water-Energy-Food nexus in industrial and urban wastewater recovery.** ODAKtr Seminar (H2020 Project SolarTwins). Online 5 February 2021.
95. S. Malato. **Industrial wastewater treatment by solar AOPs and polishing urban wastewaters for irrigation.** PHOTOWATER Virtual Workshop. Action “Promotion of Transnational Research Projects for Small and Medium-Sized Enterprises - Year 2018” which is co-financed by the European Union and National Resources through the Operational Program “Western Greece 2014–2020” (project code: MIS 5032954). May 21st, 2021.
96. S. Malato. **Solar photoreactors for water reuse.** 8th AQUALity Networking Symposium “Workshop: Sustainable technologies for water reuse”. European Union’s Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 765860. July 8th, 2021.
97. I. Berruti, M.I. Polo-López, G. Nuno, I. Oller, P. Calza, M.C. Paganini. **Novel photocatalysts based on Zinc Oxides for the simultaneous disinfection and decontamination of water.** 5th IWA Specialized International Conference on ecoSTP. Hibrid event. Mylan (Italy) 21-25 June 2021.
98. S. Nahim-Granados, M.I. Polo-López, P. Plaza-Bolaños, I. Oller, M. Malato, A. Aguera, J.A. Sánchez Pérez. **Fresh-cut wastewater reclamation by solar processes and reuse in agriculture: Assessment of chemical and microbial risks of raw-eaten crops.** 5th IWA Specialized International Conference on ecoSTP. Hibrid event. Mylan (Italy) 21-25 June 2021.
99. A. Martínez-García, I. Oller, M.I. Polo-López. **Evaluation of small doses of H₂O₂ for solar water disinfection enhancement.** CONGRESO INTERNACIONAL 4th SMALLWAT21v. On-line, Sevilla (España) 17-18 June 2021.
100. G. Maniakova, I. Salmeron, M.I. Polo-López, I. Oller, L. Rizzo, S. Malato. **Application of two different strategies for the simultaneous disinfection and decontamination of urban wastewater using solar photo-Fenton and solar/H₂O₂ processes.** 17th International Conference on Environmental Science and Technology CEST2021. Oral presentation. Athens, Hibrid event (cest2021_00744). Greece. 1-4 September 2021.
101. I. Berruti, M.I. Polo-López, G. Nuno, I. Oller, P. Calza, M.C. Paganini. **Novel photocatalysts based on Zinc Oxides for the simultaneous disinfection and decontamination of water.** 5th IWA Specialized International Conference on ecoSTP. Hibrid event. Mylan (Italy) 21-25 June 2021.
102. Sixto Malato. **Solar photocatalytic hydrogen production at pilot scale.** Challenges and opportunities in materials for green energy production and conversion. Virtual meeting. LE STUDIUM CONFERENCES. Loire Valley Institute for Advanced Studies, France. 15 - 17 June 2021. Invited speaker. p. 25.
103. S. Malato. **Regeneración de agua mediante energía solar, como solución para cerrar el ciclo integral del agua.** 1er Congreso Iberoamericano Ciencia, Educación y Tecnología y del 3er Encuentro de Buenas Prácticas Docentes. Univ. Nacional Autónoma de México, 9 diciembre 2021.
104. H. Gómez-Couso, A. Reboredo-Fernández, M.J. Abeledo-Lameiro, M.I. Polo-López, P. Fernández-Ibáñez, E. Ares-Mazás. **Photocatalytic inactivation of the waterborne protozoan parasite *Cryptosporidium parvum*: heterogeneous photocatalysis with TiO₂ versus homogeneous photocatalysis with photo-Fenton.** International Conference on Photo-irradiation and Adsorption based Novel Innovations for Water treatment, PANI-WATER. Goa (India), 3th-4th March 2020. (Oral presentation)
105. I. Sánchez-Montes, I. Salmerón, G. Rivas-Ibañez, J.M. Aquino, M.I. Polo-López, I. Oller, S. Malato. **UV-C based advanced oxidation processes for the simultaneous elimination of microcontaminants and pathogens for wastewater reusing purposes.** International Conference on Photo-irradiation and Adsorption based Novel Innovations for Water treatment, PANI-WATER. Goa (India), 3th-4th March 2020. (Oral presentation).
106. M.I. Polo-López. **Reuse of reclaimed wastewater: assessment of chemical and biological cross-contamination and phytotoxicity on crop.** ALICE (H2020) conference, Belfast (UK), 4 diciembre, 2020. (On-line) (Ponencia)
107. Isabel Oller. **Solar Energy-Water Nexus for industrial wastewater recovery.** International conference on Nexus: Energy Water & (Bio)Industry – Technological solutions towards industrial resource efficiency organized by AEE-INTEC. Viena (Austria), 30th January 2020. (Keynote) 1k025
108. Isabel Oller. **A common vision for a Water-Smart Society WG: Contaminants of Emerging Concern.** Virtual event on Polluters of growing concerns: pharmaceutical in ground and drinking water. 2nd October 2020, SMECONNECT. (Keynote)
109. I. Oller, I. Polo-López, S.N. Granados, S. Malato. **Water-Energy-Food nexus in industrial and urban wastewater recovery.** PHOTOPUR Online-Symposium. 9th and 10th December, 2020. (Invited talk).
110. I. Oller. **Solar Technologies applied to wastewater purification.** Two-days of intensive course on solar desalination and water purification, Algeria (Argel), 26 March 2019.
111. I. Oller. **Monitorización del tratamiento y reutilización de aguas residuales industriales mediante técnicas analíticas y microbiológicas avanzadas.** Curso-Taller de actualización en Procesos Avanzados de

Oxidación: Nuevos desarrollos ambientales de los Procesos Avanzados de Oxidación, Universidad de Caldas (Manizales, Colombia), 29 Abril 2019.

- 112.I. Oller. **Solar based technologies for disinfection and decontamination of water for reusing purposes.** INTERSOLAR 2019. Solar Energy & Water: The Nexus of Two Essential Ingredients for Life, Munich (Germany), 15 May 2019.
- 113.I. Oller. **Session 6: Towards Real Implementation: Real examples: tertiary treatment.** 3rd European Summer School of Environmental Applications on Advanced Oxidation Processes, Alcoy (Spain), 6 June 2019.
- 114.I. Oller. **Tecnologías solares aplicadas al tratamiento, desinfección y reutilización de aguas: Técnicas analíticas y microbiológicas aplicadas a la evaluación de PAOx.** Curso Internacional de Transferencia de Conocimiento Tecnológico sobre la Energía Solar y Tratamiento Solar de Aguas de la Macro Región Centro Sur Andina (Chile, Perú y Bolivia)”. Universidad de Tarapacá, Arica (Chile), 17 Julio 2019.
- 115.I. Salmerón, P.K. Sharma, M.I. Polo-López, P. Fernández-Ibañez, J.A. Byrne, I. Oller, M.I. Maldonado. **Development of a photoelectrocatalytic reactor combining TiO₂ photoanodes and cathodic electrogeneration of H₂O₂ for water decontamination and disinfection.** 3rd International Congress of Chemical Engineering (ANQUE-ICCE 3) Santander (España) 19-21 junio 2019. Oral communication. Book of abstracts (ISBN 978-84-09-12430-5 page 316).
- 116.I. Salmerón. G. Rivas, I. Oller, S. Malato. **Electrochemical wastewater treatments enhanced by combination with solar energy.** 1st Doctoral Colloquium SFERA III project. Odeillo (Francia) 11-13 Septiembre 2019. Oral communication.
- 117.I. Salmerón. G. Rivas, I. Oller, S. Malato. **Combination of nanofiltration membranes and electrooxidative processes as tertiary treatment for the removal of microcontaminants.** 4th IWA Spain National Young Water Professionals Conference (YWP 2019) Madrid (España) 12-15 noviembre 2019. Oral communication.
118. Iván Matías Sciscenko, Sara García, Consuel Sabater, Maria Angeles Castillo, I. Oller, Antonio Arqués. **Changes induced in aqueous solutions of Enrofloxacin by photolysis and (photo)-Fenton at different media: EEM-PARAFAC analysis and bioassays.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6) Portoroz (Eslovenia) 26-29 junio 2019. Oral communication. Book of abstracts (ISBN 978-961-93849-5-4).
119. Ilaria Berruti, Maria Inmaculada Polo-López, I. Oller, Marcello Manfredi. **Assessment of sulfate radical-based advanced oxidation processes for removal of bacteria and CECs from water.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6) Portoroz (Eslovenia) 26-29 junio 2019. Oral communication. Book of abstracts (ISBN 978-961-93849-5-4).
- 120.M.I. Polo-López. **Basis of disinfection.** III Summer School of the European PhD School on Advanced Oxidation Processes. Alcoy (Spain), 3-7 June 2019.
- 121.I. Berruti, M.I. Polo-López, I. Oller, M. Manfredi. **Solar Heterogeneous Photocatalysis for the Simultaneous Removal of Organic Micropollutants and Microorganisms of Concern.** III Summer School of the European PhD School on Advanced Oxidation Processes. Alcoy (Spain), 3-7 June 2019. Short oral communication.
- 122.S. Nahim-Granados, E. García-Gómez, P. Plaza-Bolaños, J.A. Sánchez, Pérez, A. Agüera, M.I. Polo-López. **Solar driven processes to reclaim wastewater from fresh-cut industry: assessment of pathogens and microcontaminants in water and raw-eaten crops.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). Portoroz (Slovenia), 26-30 Junio 2019. Oral communication. Book of abstracts pp. 203-204 (ISBN 978-961-93849-5-4).
- 123.S. Nahim-Granados, G. Rivas-Ibañez, P. Plaza-Bolaños, I. Oller, S. Malato, A. Agüera, J. A. Sánchez-Pérez, M. I. Polo-López. **Evaluation of ozone as an alternative treatment to chlorine in the fresh-cut industry : disinfection, microcontaminants elimination and agricultural reuse of treated wash-water.** II National congress of international water association-young water professional-spanish chapter. Madrid (Spain), 12-15 Noviembre 2019. Oral communication. Book of abstracts, p. 109.
- 124.A. Martínez-García, I. Oller, P. Fernández-Ibañez, M.I. Polo-López. **Evaluation of a new solar photo-reactor design for solar disinfection (SODIS).** 6th European Conference on environmental Applications of Advanced Oxidation Processes (EAAOP-6). Portoroz, (Eslovenia), 26-30 junio 2019. Oral communication. Book of abstracts, pp. 251-252 (ISBN 978-961-93849-5-4).
- 125.I. Berruti, N.P.F. Gonçalves, M.I. Polo-López, I. Oller, P. Calza, M.C. Paganini, M. Manfredi. **Doped Zinc Oxides for the simultaneous removal of Microorganisms and Contaminants of Emerging Concern from Water.** International conference on chemical energy semiconductor photochemistry (CESCOP2019). Trabzon (Turkey), 4-6 September 2019. Oral communication. Book of abstract, p. 38.

- 126.K.G. McGuigan, J Marugán, M.I. Polo, A. Martínez, P. Fernández, M.J. Abeledo, H. Gómez, E. Ares, A. Reboredo, T.D. Morse, L. Buck, K. Lungu, A. Gebreyesus, M. Teferi, T. Asmelash. **Evaluation of 20L transparent containers for household solar water disinfection (SODIS) of drinking water in resource poor environments: The Waterspoutt Project.** 20th International Symposium on Health-Related Water Microbiology (HRWM). Vienna (Austria), 15-20 September 2019. Short oral communication. Book of abstracts, p. 67.
- 127.A. Martínez-García, I. Oller, P. Fernández-Ibáñez, M.I. Polo-López. **Evaluation of a new solar photo-reactor for solar water disinfection.** 1st Doctoral Colloquium of the SFERA-III project. Odeillo (Francia), 11-13 septiembre 2019. Oral communication.
- 128.L. Perez-Estrada. **Urban wastewater for irrigation and reuse: Innovative and solar processes.** ALICE project thematic workshop. ALICE workshop, Belfast (UK), 12 Septiembre 2018.
- 129.L. A. Pérez-Estrada, S.I. Chávez Ruiz. **Application Of Iron-Based Catalysts In Advanced Hydrothermal Oxidation Process For Decontamination Of Highly Polluted Wastewater.** Workshop on Applications of Multi-scale Approaches in Environmental chemistry. AMARE 2019, 22-28 Abril 2019. Oral Communication.
- 130.M. A. Roccamante, S. Miralles-Cuervas, A. Cabrera-Reina, I. Oller, S. Malato. **Zero Valent Iron technology at neutral pH assisted with iron complexes to remove pesticides in natural water.** III Summer School of the European PhD School on Advanced Oxidation Processes. Alcoy (España), 3-7 junio 2019. Short Oral Communication.
- 131.S. Malato. Conferencia en **Curso-taller internacional de actualización en PAOs: Nuevos desarrollos ambientales de los Procesos Avanzados de Oxidación.** Universidad de Caldas, en Manizales – Caldas (Colombia). 29 de Abril a 3 de Mayo de 2019.
- 132.S. Malato. Ponencia “Novel trends in photo-Fenton”. **3rd European Summer School on Environmental Applications of Advanced Oxidation Processes.** Alcoy, Spain, June 3-7, 2019.
- 133.S. Malato. Ponencia **Valorización de resultados experimentales mediante su publicación en revistas especializadas.** Graduate Chemistry Program, Institute of Chemistry. Federal University of Rio Grande do Sul, Brasil. 14th Nov. 2019.
- 134.S. Malato. **Solar AOPs for wastewater treatment: overview of processes and photoreactors.** II Sustainable Raw Materials. International Project Week and Scientific Conference. 6 – 10 May 2019, Szeged, Hungary. Invited Oral.
- 135.A. Ruiz-Delgado, I. Oller, A.M.T. Silva, S. Malato, A. Agüera. **Industrial wastewater treatment by combining AOPs, biological and membrane technologies: ammonium recovery.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). 26/06/2019 - 30/06/2019. Portorov. Eslovenia. Book of Abstracts (ISBN 978-961-93849-5-4), pp. 48-40. Keynote.
- 136.G. Cerreta, M.A. Roccamante, I. Oller, P. Plaza-Bolaños, A. Agüera, L. Rizzo, S. Malato. **Advanced treatment of municipal wastewater effluents by UVC/free chlorine process: contaminants of emerging concern removal, trihalomethanes formation and comparison with UV/H₂O₂ process.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). 26/06/2019 - 30/06/2019. Portorov. Eslovenia. Book of Abstracts (ISBN 978-961-93849-5-4), pp. 66-67. Oral.
- 137.L. A. Pérez-Estrada, S. I. Chávez Ruiz, B. A. Hernandez, S. Malato. **Decontamination of highly polluted wastewater by a high temperature oxidation process. Feasibility study to design a solar concentration system as source of energy for the process.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). 26/06/2019 - 30/06/2019. Portorov. Eslovenia. Book of Abstracts (ISBN 978-961-93849-5-4), pp. 77-78. Oral.
- 138.I. Salmerón, P.K. Sharma, P. Fernández-Ibáñez, J.A. Byrne, I. Oller, M.I. Polo-López, M.I. Maldonado Rubio, S. Malato. **Photoelectrocatalytic purification of urban wastewater using a TiO₂-nanotubes-carbon felt cathode electrochemical cell.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). 26/06/2019 - 30/06/2019. Portorov. Eslovenia. Book of Abstracts (ISBN 978-961-93849-5-4), pp. 213-214. Oral.
- 139.A. Cabrera-Reina, S. Miralles-Cuevas, L. Cornejo-Ponce, I. Oller, S. Malato. **Solar photo-Fenton process evaluation through simulation: the influence of location on process performance and treatment cost.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). 26/06/2019 - 30/06/2019. Portorov. Eslovenia. Book of Abstracts (ISBN 978-961-93849-5-4), pp. 225-226. Oral.
- 140.M.I. Polo-López, S. Nahim-Granados, J.A. Sánchez-Pérez, I. Oller, S. Malato. **Fresh-cut wastewater disinfection by solar processes with iron-chelate (Fe³⁺-EDDHA).** 20th Symposium on Health-Related Water Microbiology (HRWM). Vienna, Austria. 15/09/2019-20/09/2019. Abstract book, p 54. Oral POP 15.
- 141.A. Cabrera, S. Miralles, L. Cornejo, S. Malato and I. Oller. **Engineering aspects of solar photo-Fenton: process simulation as scaling-up tool.** 2nd Energy, Efficiency and Environmental Sustainability Conference, La Serena, Chile. October 16-18, 2019. Book of Abstracts, pp. 60. Oral SED06-A.

142. M. I. Polo López, S. Nahim-Granados, I. Oller, S. Malato, E. García-Gómez, P. Plaza-Bolaños, J. A. Sánchez Pérez, A. Agüera. **Assessment of organic micro-contaminants and microbial of emerging concern: From solar treated fresh-cut wastewater to irrigated crops.** IV Iberoamerican Conference on Advanced Oxidation Technologies. 18-22 Nov 2019, Natal, Brasil. Oral PPA-O01.
143. S. Malato. **Solar Photo-Fenton: Applications at conventional and neutral pH.** IV Iberoamerican Conference on Advanced Oxidation Technologies. 18-22 Nov 2019, Natal, Brasil. Plenary.
144. E. Pinheiro Costa, M. Roccamante, S. Malato, I. Oller, C. Amorim. **Improvement of solar photo-Fenton reaction in open reactors with reflective surfasse.** IV Iberoamerican Conference on Advanced Oxidation Technologies. 18-22 Nov 2019, Natal, Brasil. Oral PFE-O06.
145. A. Martínez García, I. Oller, M.I. Polo-López. **Solar-assisted Water Disinfection by H₂O₂ for Drinking Proposes.** III Summer School of the European Phd school on Advanced Oxidation Processes. Alcoy (Alicante), junio 3-7, 2019. Poster P1.
146. M.I. Polo-López, A. Martínez García, I. Oller, P. Fernández-Ibáñez. **Development and testing of low-cost solar photo-reactors for solar disinfection (SODIS) of harvested rainwater.** 20th International Symposium on Health-Related Water Microbiology (HRWM). Vienna (Austria), 15-20 Septiembre 2019. Poster. Book of abstracts (Pag 156).
147. M. A. Roccamante, S. Miralles-Cuervas, A. Cabrera-Reina, I. Oller, S. Malato. **Zero Valent Iron at neutral pH assisted with iron complex to remove pesticides in natural water.** 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6). Portoroz, Slovenia, June 26-30, 2019. Book of proceedings (ISBN 978-961-93849-5-4), pp. 520-521
148. M. A. Roccamante, S. Miralles-Cuervas, A. Cabrera-Reina, I. Oller, S. Malato. **Evaluation of different sources of Zero Valent Iron to remove pesticides in natural water at neutral pH.** IWA Young Water Professionals Spain Conference 2019. Madrid (Spain), November 12-15, 2019. Book of proceedings (ISBN 978-84-09-19073-7). Poster P35, pp. 181-182.
149. I. Salmerón, K.V. Plakas, I. Oller, I. Sirés, M.I. Maldonado, S. Malato. **Determination of operating parameters for CECs removal by EF and SPEF at pilot plant scale: optimization of H₂O₂ electrogeneration by response surface methodology.** III Summer School of the European PhD School on Advanced Oxidation Processes. Alcoy (España) 3-6 junio 2019.
150. D. Deemter, I. Oller, S. Malato, Ana M. Amat. **Application of Advanced Integrated Technologies (Membrane and Photo-Oxidation Processes) for the Removal of CECs contained in Urban Wastewater.** 3rd European Summer School of Environmental Applications on Advanced Oxidation Processes. Alcoy (Spain), June 3 – 7, 2019.
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 219. Isabel Oller, Sixto Malato. **Solar Advanced oxidation processes: photoreactors, applications and economical approach.** 6th EuCheMS Chemistry Congress. Seville (Spain), September 11-15 (2016). Invited lecture, page 109. Abstract Book.
 220. P. Fernández-Ibáñez. **Fundamentals on solar technologies for water remediation.** European Science Open Forum (ESOF 2016) within the Symposium 'Is solar remediation a solution to global water shortages?'. Manchester (UK), July 22-27 (2016). Oral.
 221. P. Fernández-Ibáñez. **WATERSPOUTS project-Water Sustainable Point-of-use Treatment Technologies.** Engineering for Sustainable Development Forum Granada 2016 H2020 Horizon 2020 Area. Granada (Spain), September 29-30 (2016). Oral.
 222. M. Castro-Alferez, M.I. Polo-López, P. Fernández-Ibáñez. **Intracellular mechanisms of solar water disinfection (ROS detection by fluorescence probe in E. coli).** AOPs Workshop. Barcelona (Spain), July 7-8 (2016). Oral.
 223. S. Malato, P. Fernández-Ibáñez, M.I. Maldonado, I. Oller, I. Polo. **Fotoreactores solares: potencial en procesos fotocatalíticos y su alcance empleando carbones o materiales híbridos.** 2º Taller latinoamericano de materiales de carbono (TLMC2). Termas de Chillán, Chile, 16-18 Noviembre 2016. Oral Presentation. Libro de resúmenes, pag. 59.
 224. S. Malato. Ponencia en **3rd Water, Membrane Environment and Energy Technology Expo (WM2E-2016).** BITEC, Bangkok, Thailand. 14-16 Sept. 2016.
 225. Leónidas Pérez-Estrada. **Application of Ion-Mobility to Characterize Complex Mixtures of Environmental Concern.** The fingerprinting of Canada's Oil Sands Tailings. 2016 MS Technology day. Waters Corporation, Madrid 25 Octubre 2016. .
 226. M.I. Polo-López, P. Fernández-Ibáñez, S. Malato, M. Castro-Alferez, S. Nahim Granados. **Solar photochemical and photocatalytic inactivation of Legionella jordanis in water: EMA-qPCR versus culture-based analyses for new mechanistic insights.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg (France), June 13-17 (2016), Oral OC -50, page 94. Abstract Book.
 227. M. I. Maldonado; S. Malato; X. Domènech; J. Peral; **Hydrogen generation by photoreforming of real wastewater at solar pilot plant scale.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg (France), June 13-17 (2016), Oral OC -23, page 85 Abstract Book.
 228. I. Oller, S. Malato, P. Fernández-Ibáñez, D. Alarcón-Padilla. **Opportunities for Industrial R&D Co-operation in Environmental Technologies.** Malaysian-Spanish Joint Workshop. Kuala Lumpur, 31st May 2016. Invited talk. Technological embassy to Malaysia and Thailand in environmental technologies organised by CDTI (Spanish Government) and PLANETA.
 229. I. Oller, S. Malato, P. Fernández-Ibáñez, D. Alarcón-Padilla. **Opportunities for Industrial R&D Co-operation in Environmental Technologies.** Thailand-Spanish Joint Workshop. Bangkok, 3rd June 2016. Invited talk. Technological embassy to Malaysia and Thailand in environmental technologies organised by CDTI (Spanish Government) and PLANETA..
 230. I. de la Olla, L. Ponce, S. Miralles, I. Oller, S. Malato, J. A. Sánchez. **Raceway pond photoreactors for solar photo-Fenton applications: degradation of microcontaminants contained in real effluents.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg (France), June 13-17 (2016), Oral OC -04, page 79 Abstract Book.
 231. A.B. Martínez-Piñas, I. Polo López, P. Fernández-Ibáñez, S. Malato, A. Agüera. **Application of Quenchers Extraction Coupled to LC-MS/MS Analysis for the Determination of Contaminants of Emerging Concern in Crops Irrigated by Recycled Water.** 44th International Symposium & Exhibit on High Performance Liquid Phase Separations and Related Techniques HPLC 2016. San Francisco, CA, USA. 19-24 June, 2016. Poster communication. P-Th-2413. Pg. 238.
 232. M.C. Campos Mañas, A. Agüera López, J.A. Sánchez Pérez, S. Malato. **Multiresidue analysis of 115 microcontaminants in wastewater using direct injection coupled to high performance liquid chromatography-tandem Mass Spectrometry.** 44th International Symposium & Exhibit on High Performance Liquid Phase Separations and Related Techniques HPLC 2016. San Francisco, CA, USA. 19-24 June, 2016. Poster communication. P-W-1305. Pg. 167.
 233. M.C. Campos Mañas, G. García Ibáñez, A. Agüera López, J.A. Sánchez Pérez, S. Malato. **Development of a SPE-LC-MS/MS method for the analysis of microcontaminants during wastewater treatment processes.** 44th International Symposium & Exhibit on High Performance Liquid Phase Separations and Related

- Techniques HPLC 2016. San Francisco, CA, USA. 19-24 June, 2016. Poster communication. P-W-1306. Pg. 167.
234. M. Castro-Alferez, M.I. Polo-López, S. Nahim-Granados, P. Fernández-Ibáñez. **Internal Reactive Oxygen Species (ROS) Detection by Fluorescent Probes in E. coli Cells Exposed to Solar Radiation.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster communication.
 235. S. Papoutsakis, C. Pulgarin, I. Oller, S. Malato. **I Synthetic vs natural iron-complexing agents for solar photo-Fenton at near-neutral pH: The potential of reused wastewaters.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-9, page 102 Abstract Book.
 236. S. Miralles-Cuevas, D. Darowna, A. Wanag, S. Mozia, S. Malato, I. Oller. **Economical Assessment of UV/H₂O₂, UV/S₂O₈²⁻, solar/Fe(II)/H₂O₂ and solar/Fe(II)/S₂O₈²⁻ Processes for the Removal of Micro-contaminants.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-67, page 122 Abstract Book.
 237. V. A. de la Peña O'Shea, F. Fresno, J. L. G. Fierro, A. Llobet, H. García, J. J. Vilatela, M. A. García-Aranda, F. Illas, S. Giménez, S. Malato. **FOTOFUEL: An Excellence Network Facing the New Challenges in Artificial Photosynthesis.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-84, page 127 Abstract Book.
 238. M.C. Campos-Mañas, A. Agüera, G. Rivas, J.A. Sánchez Pérez, S. Malato. **Analytical approach for monitoring microcontaminants during wastewater treatment. Effect of variation in the composition of the matrix on the quantitative analysis.** 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-138, page 145 Abstract Book.
 239. A. Reboredo-Fernández, M.J. Abeledo-Lameiro, I. Polo-López, P. Fernández-Ibáñez, E. Ares-Mazás, H. Gómez-Couso. **Addition of hydrogen peroxide to natural ferruginous water improves the efficacy of SODIS method against Cryptosporidium.** The 13th IWA Leading Edge Conference on Water and Wastewater Technologies. Jerez de la Frontera, España. 13-16 June, 2016. Poster communication.
 240. M. Castro-Alferez, M. I. Polo-López, J. Marugán Aguado, P. Fernández-Ibáñez. **Mechanistic model for bacteria photo-inactivation in water using solar radiation: new understanding of solar disinfection.** European Society for Photobiology, ESP 2015 Congress. Aveiro, Portugal, 31th August-4th September, 2015.
 241. P. Fernández-Ibáñez, S. Malato, M.I. Maldonado, I. Oller, M.I. Polo-López. **Photocatalytic water disinfection: new materials and solar applications.** Joint RSC Ireland – UK&I SPC Meeting on Photocatalysis, Queen's University Belfast, UK. 9th September 2015.
 242. P. Fernández-Ibáñez. **Drinking water disinfection using solar energy (possibilities in the UK).** 8th Conference of the UK Network on Potable Water Treatment & Supply. Invited lecture. Cranfield University, London, UK, 23 September 2015.
 243. M.I. Polo-López, S. Malato, P. Fernández-Ibáñez, I. Oller, M.I. Maldonado. **Water purification by solar photocatalysis: techniques and technologies.** 1st International Water Nexus Conference 2015. Catalysis for water purification. Daegu, Korea, 28-30 October, 2015.
 244. P. Fernández-Ibáñez, M. Castro-Alferez, M.I. Polo-López, J. Marugán. **Mechanistic model for bacteria photo-inactivation in water using solar radiation.** 4th European Conference on Environmental Applications of AOPs. Athens, Greece. 21-24 October 2015. Oral communication C1-12, Book of abstracts, pag. 93.
 245. S. Malato, S. Miralles, J.A. Sánchez-Pérez, Isabel Oller, A. Agüera, M. Llorca. **Treatment of real effluents by nanofiltration and solar photo-Fenton: analytical and toxicology assessment.** 4th European Conf. on Environmental Appl. of Advanced Oxid. Proc., 21-24 October 2015, Athens. Book of Abstracts B2-7. Oral.
 246. Sixto Malato; Pilar Fernández-Ibáñez; Manuel I. Maldonado; Isabel Oller; Inmaculada Polo; Jose A. Sánchez. **Solar AOPs: overview of processes and photoreactors.** VIII Meeting on Environmental Applications of Advanced Oxidation Processes and II Iberoamerican Congress of Advanced Oxidation Technologies. Belo Horizonte, Brasil. 3-6th November 2015. Book of abstracts PL011. Plenary Lecture.
 247. I. Oller; S. Miralles; L. Ponce-Robles; A. Agüera; S. Malato; M.J. Trinidad-Lozano; F.J. Yuste. **Cork boiling wastewater regeneration and reuse by combination of advanced oxidation technologies.** VIII Meeting on Environmental Applications of Advanced Oxidation Processes and II Iberoamerican Congress of Advanced Oxidation Technologies. Belo Horizonte, Brasil. 3-6th November 2015. Book of abstracts OR054. Oral.
 248. S. Malato. Ponencia en "Escuela de Formación en Procesos de Oxidación Avanzada". Univ. de Caldas, Manizales, Colombia. 21-24 septiembre de 2015.
 249. S. Malato. Ponencia en seminario "SOS OZAMA". Pontificia Universidad Católica Madre y Maestra (PUCMM), Rep. Dominicana, 14 de octubre de 2015.
 250. S. Malato. Ponencia en Workshop "Application and Implication of Nanotechnology for Water and Wastewater Treatment" Organized by COST ENTER (ES1205), Working Group 1. Athens, Greece, 22 October 2015.

251. S. Malato. Curso "Water and wastewater decontamination by solar radiation" in the Graduate Program of Sanitary, Environment and Hydraulic Resources at Federal University of Minas Gerais, Belo Horizonte-MG, Brazil. November 9th to 11th, 2015. 15 hours.
252. S. Malato. Ponencia en **First workshop on nanostructured materials for light harvesting technologies: from solar fuels to energy storage**. IMDEA Materials Institute, Madrid, 25-26 November 2015.
253. S. Malato. Ponencia en **Nuevos Conceptos del Uso de la radiación solar para la descontaminación de aguas**. Univ. del Valle, Cali, Colombia. 1-4th Diciembre, 2015.
254. M.I. Maldonado, S. Malato, P. Fernández-Ibáñez, M.I. Polo-López, I. Oller, J. Peral. **Solar pilot plant facility for photocatalytic generation of hydrogen**. Solar Fuels Network. International Discussion Meeting. Solar Fuels: Moving from Materials to Devices. Royal Society of Chemistry, London. 7-8 Julio, 2015.
255. M.J. Abeledo-Lameiro, A. Reboredo-Fernández, M.I. Polo-López, P. Fernández-Ibáñez, E. Ares-Mazás, H. Gómez-Couso. **Photocatalytic inactivation of the waterborne protozoan parasite *Cryptosporidium parvum* using TiO₂/H₂O₂ under simulated and natural solar conditions**. 4th European Conference on Environmental Applications of AOPs. Athens, Greece. 21-24 October 2015. Poster communication PP3-31, pg 211.
256. I.M. Román Sánchez, M. Segura, J.A. Sánchez Pérez, E. Ortega Gómez, P. Fernández-Ibáñez. **Cost analysis of photo-Fenton disinfection in real municipal wastewater**. 4th European Conference on Environmental Applications of AOPs. Athens, Greece. 21-24 October 2015. Poster communication PP3-29, pg 210.
257. M. Hobbs, P. Jarvis, I. Carra, B. Jefferson, I. Oller, S. Malato, A. Agüera, A. Martínez. **Photocatalytic degradation of the herbicide quinmerac. Kinetics and transformation products**. 4th European Conf. on Environmental Appl. of Advanced Oxid. Proc., 21-24 October 2015, Athens. Book of Abstracts PP2-49. Poster.
258. Malato, P. Fernández-Ibáñez, I. Oller, M.I. Polo-López, M.I. Maldonado. **Water and Wastewater Treatment: Applications with Solar Photocatalysis**. 3rd Water Research Conference. Shenzhen, China, 11th – 14th January, 2015. Invited Lecture.
259. P. Fernández Ibáñez, M. I. Polo López, M. Castro, I. Oller, G. Zaragoza. **Assessment of solar AOPs for disinfection of effluents of urban wastewater**. 3W Expo 205+CPPE Expo 2015. BITEC, Bangkok, Thailand, 28th-31th January, 2015. Oral communication 23, Session 8: Membrane bioreactor, Reuse and Zero Discharge.
260. M. Castro-Alfárez, M. I. Polo-López, P. Fernández-Ibáñez. **Solar Disinfection of Water: treatment decay model (SODIWA)**. 11th SolLab Doctoral Colloquium on Solar Concentrating Technologies. Melchsee-Frutt, Switzerland, 2nd-4th March, 2015. Oral communication 42.
261. G. Ferro, M.I. Polo-López, A.B. Martínez-Piarnas, P. Fernández-Ibáñez, A. Agüera, L. Rizzo. **Evaluation of cross-contamination of residual emerging contaminants and multi-drug resistant bacteria in lettuce crops irrigated with wastewater treated by sunlight/H₂O₂**. Environmental protection in a multi-stressed world: challenges for science, industry and regulators. SETAC Europe 25th Annual Meeting. Barcelona, Catalonia, Spain, 3rd -7th May, 2015. Oral communication 663, pag. 176.
262. A. Fiorentino, G. Ferro, M. Castro Alferez, M. I. Polo-López, P. Fernández-Ibáñez, L. Rizzo. **Inactivation of antibiotic resistant bacteria in urban wastewater by solar advanced oxidation processes**. Environmental protection in a multi-stressed world: challenges for science, industry and regulators. SETAC Europe 25th Annual Meeting. Barcelona, Catalonia, Spain, 3rd -7th May, 2015. Platform communication 423, pag. 111.
263. I. Oller, L. Ponce, P. Fernández-Ibáñez, S. Malato. **Integration of Advanced Technologies (Biological treatment and Solar based chemical oxidation) for Industrial Wastewater Remediation**. International Exhibition on Water, Environmental and Chemical Engineering (3W EXPO+CPPE 2015). Bangkok (Thailand) 29th-31st January, 2015. Oral communication. Session 9: Industrial & Hazardous Management.
264. I. Oller & S. Malato. **Wastewater Treatment by Solar driven AOPs: design and applications**. Oral communication in 1st Summer School on Environmental Applications of Advanced Oxidation Processes. University of Salerno, Department of Civil Engineering. Fisciano (Italy), 15th-16th June, 2015.
265. I. Oller. **Integrated Advanced Technologies for the remediation of Industrial wastewaters: case studies**. Oral communication in 1st Summer School on Environmental Applications of Advanced Oxidation Processes. University of Salerno, Department of Civil Engineering. Fisciano (Italy), 15th-16th June, 2015.
266. S. Malato. **Photocatalysis for water detoxification**. Harbin Institute of Technology, Campus Shenzhen University, China. January 13th, 2015. Invited Lecture
267. Sixto Malato, Manuel I. Maldonado, Pilar Fernández, Isabel Oller, Inmaculada Polo. **Decontamination and disinfection of water by solar photocatalysis: the pilot plants of the Plataforma Solar de Almería**. E-MRE

- Meeting. Symposium B. Materials for applications in water treatment and water splitting. May 11-15, 2015. Lille, France. Invited Lecture.
268. P. Fernández-Ibáñez, I. Oller, S. Malato, M.I. Maldonado, M.I. Polo-López. **Solar Treatment of water at Plataforma Solar de Almería.** 3W Expo 205+CPPE Expo 2015. BITEC, Bangkok, Thailand, 28th-31th January, 2015.
 269. M.I. Maldonado, S. Malato, P. Fernández-Ibáñez, M.I. Polo-López, I. Oller, J. Peral. **Solar pilot plant facility for photocatalytic generation of hydrogen.** Solar Fuels Network. International Discussion Meeting. Solar Fuels: Moving from Materials to Devices. Poster 17. Royal Society, London, 7th -8th July, 2015.
 270. S. Miralles-Cuevas, I. Oller, M. Llorca, S. Rodríguez-Mozaz, C. Sabater, M.A. Castillo, A. Agüera, M. Petrovic, P. Fernández-Ibáñez, S. Malato. **Assessment of acute and chronic toxicity in real MWTP effluents treated by different AOPs.** SETAC Europe 25th Annual Meeting. Environmental protection in a multi-stressed world: challenges for science, industry and regulators. Barcelona, 3-7 Mayo de 2015.
 271. Gómez-Couso H., Ares-Mazás E., Polo-López I., Fernández-Ibáñez P., Timmers R., Rodríguez I., Molina R., Martínez F., Marugán J. **Removal of chemical and biological emerging pollutants in wastewater by coupling biotreatment and solar photocatalytic processes.** ANQUE-ICCE-BIOTEC2014, Libro de Actas, pg. 275. ISBN: 978-84-697-0726-5. Madrid, 1-4 Julio de 2014. Poster.
 272. Fernández Ibáñez P., Inmaculada Polo López M., Bichai F. **Solar disinfection of wastewater for reuse in food crop irrigation.** 248th American Chemical Society National Meeting & Exposition, San Francisco, CA (USA), 10 – 14 August, 2014. Oral.
 273. Cruz-Ortiz B. R., Byrne J. A., Dunlop P., Magee E., Fernández-Ibáñez P., Polo Lopez M. I., O'Shea K., Dionysiou D., Hamilton J. W. **Solar photocatalytic disinfection of water for developing countries.** 248th American Chemical Society National Meeting & Exposition August 10 - 14, 2014 San Francisco, CA. Oral.
 274. Fernández-Ibáñez P. **SODIS Enhancement Technologies: Pilot testing for developing countries.** UNESCO-IHE, Institute for Water Education (Delft, The Netherlands). One-day symposium on UV disinfection in developing countries, 6th November 2014. Invited lecture.
 275. Oller I., Miralles S., De Torres-Socías E., Polo-López I., Malato S., Fernández-Ibáñez P. **Application of solar Advanced Oxidation processes for wastewater remediation.** Third International Conference on Advanced Oxidation Processes AOP-2014. Munnar, Kerala (India), 25-28 Septiembre 2014. Oral.
 276. De Torres-Socías E., Malato S., Oller I., Amor C., Lucas M. S., Peres J. A. **Detailed treatment line for specific landfill leachate remediation and reuse based on photo-Fenton and Ozono (O₃, O₃/H₂O₂): Toxicity and biodegradability assessment.** International Congress on Water, Waste and Energy Management (EWWM). Oporto (Portugal), 15-18 Julio, 2014. Oral.
 277. Malato S., Fernández-Ibáñez P., Oller I., Polo-López M.I., Maldonado M.I.. **Waste Water Treatment and Reclamation: applications with Solar AOPs.** 2nd International Conference on Recycling and Reuse (R&R, 2014), 4-6 June, 2014, Istanbul, Turkey. Keynote.
 278. Malato S., Maldonado M. I., Fernández P., Oller I., Polo I. **Solar Photocatalysis, overview and applications.** 12th Pannonian Symp. on Catalysis. Trest, Czech Republic. 16-20 September, 2014. Plenary Lecture. PL4.
 279. Malato S., Maldonado M. I., Fernández P., Oller I., Polo I. **Photocatalysis for water treatment.** IEEE Nanotechnology materials and devices conference 2014. October 12-15, 2014. Aci CAstello, Italy. Invited Talk.
 280. M. Castro-Alfárez, M.B. Keogh, M.I. Polo-López, I. Fernández-Calderero, K.G. McGuigan, P. Fernández-Ibáñez, **Solar water disinfection in using a 20- litre Water Dispenser Container (WDC).** 11th IWA Leading Edge Conference on Water and Wastewater Technologies, 26-30 May 2014, Abu Dhabi, United Arab Emirates. Poster communication.
 281. C. Sirtori, I. Carra, A. Agüera, S. Malato, J. A. Sánchez Pérez. **Acetamiprid and thiabendazole removal and transformation products monitoring in raceway ponds by solar photo-Fenton.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-1-29. Poster presentation.
 282. José Luis Casas López, Irene Carra Ruiz, José Luis García Sánchez, Sixto Malato Rodríguez and José Antonio Sánchez Pérez. **A simplified kinetic model for micropollutant removal with solar photo-Fenton process.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-1-44. Poster presentation.

283. S. Papoutsakis, S. Miralles-Cuevas, I. Oller, J.L. García Sánchez, C. Pulgarin, S. Malato. **EDDS assisted photo-Fenton treatment of a mixture of five organic contaminants in MWTP effluent at neutral pH. An experimental design approach towards the optimization of operational parameters.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-1-45. Poster presentation.
284. I. Carra, J. A. Sánchez Pérez, S. Malato, O. Autin, B. Jefferson, P. Jarvis. **Acetamidiprid Degradation by Different AOPs. Effect of the Water Matrix.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-1-72. Poster presentation.
285. I. Carra, J. A. Sánchez Pérez, S. Malato, O. Autin, B. Jefferson, P. Jarvis. **Micropollutant Removal by Photo-Fenton Using UVC-LED.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-1-75. Poster presentation.
286. De Torres-Socías, E., Oller I., Malato, S. **Treatment Strategy for Cork Boiling Wastewater Remediation at Pilot Plant Scale.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-3-16. Poster presentation.
287. S. Miralles-Cuevas, I. Oller, J.A. Sánchez-Pérez, S. Malato. **Solar photo-Fenton with EDDS at neutral pH for removing emerging contaminants from concentrate MWTP effluents by NF membrane.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. PC-3-17. Poster presentation.
288. Pilar Fernández-Ibáñez. **Solar Disinfection of Water using Nanomaterials.** NIBEC, School of Engineering, University of Ulster (UK), 16th April 2014. Invited lecture.
289. R.A. Timmers, M.I. Polo-López, P. Fernández-Ibáñez, J. Marugán. **Concurrent water disinfection and micro pollutant removal by solar radiation in 2 pilot scale photoreactors.** 2nd International Conference on Recycling and Reuse, Istanbul, Turkey, 4-6 June, 2014. Oral communication.
290. M. Castro-Alferez, M.I. Polo-López, J. Marugán, P. Fernández-Ibáñez. **New mechanistic model for bacterial inactivation with direct solar radiation.** 10th SolLab Doctoral Colloquium on Solar Concentrating Technologies, 23-25 June, 2014. Oral communication.
291. P. Fernández-Ibáñez, I. García-Fernández, S. Miralles-Cuevas, M.I. Polo-López, S. Malato, M. Castro-Alferez. **Municipal Wastewater Effluent disinfection with solar photo-Fenton process: benefits of using Fe(III)-EDDS complex at neutral pH.** OC33, 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, Greece, 25-28, June, 2014. Oral communication.
292. I. Oller, E. De Torres-Socías, M. J. Trinidad-Lozano, F. J. Yuste-Córdoba, S. Malato. **Comparison of ozonation (O₃ and O₃/H₂O₂) with solar photo-Fenton for cork boiling wastewater remediation.** Electronic Proceedings of the International Conference & Exhibition EA3G2014. Ozone and Related Oxidants Advances in Science and Technology. Dublin, 3rd-5th June, 2014. Oral communication. ISBN 979-10-92607-01-7. Oral communication. 2.2, 1-5.
293. S. Miralles-Cuevas, F. Audino, I. Oller, J. A. Sánchez-Pérez, S. Malato. **Treatment of nanofiltration concentrates by ozonation for pharmaceuticals removal in different water matrixes.** Electronic Proceedings of the International Conference & Exhibition EA3G2014. Ozone and Related Oxidants Advances in Science and Technology. Dublin, 3rd-5th June, 2014. Oral communication. 5.2, 1-6.
294. J. A. Sánchez Pérez, I. Carra, L. Santos-Juanes, S. Malato. **Application of raceway ponds reactors for micropollutant removal by solar photo-Fenton.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. OC44. Oral presentation.
295. J. Giménez, B. Bayarri, O. González, S. Malato, J. Peral, S. Esplugas. **Ways for the Estimation of Environmental and Economic Impact of Advanced Oxidation Processes.** Proceedings of the 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Thessaloniki, 25th-28th June, 2014. OC47. Oral presentation.
296. Sixto Malato. **Photocatalysis for water detoxification.** Invited Lecture. Thematic workshop on clean and sustainable technologies: photocatalysis as a tool for sustainability. Portoroz, Slovenia, 24-25 Sept, 2013.
297. Sixto Malato. **solar photocatalysis in water treatment.** Invited Lecture. In ChemH₂O 2013, Leading edge conference on sustainable water management. Madrid, 1-2 October, 2013.

298. Irene Carra, Sixto Malato, Jose A. Sánchez Pérez. **Fe/UV-light interrelation in the photo-Fenton process when removing contaminants at µg/L scale by solar photo-Fenton.** 2nd Int. Conf on Photocatalytic and advanced oxidation technologies for treatment of water, air, soil and surfaces (PAOT-2). Univ. Gdansk, Poland. Sept 9-12, 2013. Book of abstracts, P24. Oral presentation.
299. Sixto Malato, Manuel I. Maldonado, Pilar Fernández, Isabel Oller, Inmaculada Polo. **Photocatalysis for water treatment. 3rd European Conference on Photocatalysis.** Portorož, Slovenia, September 25-27, 2013. Book of Abstracts (ISBN 978-961-6311-78-6). PL2. Plenary Lecture.
300. S. Malato, P. Fernández-Ibáñez, I. Oller, M. I. Maldonado, M. I. Polo-López Solar. **AOPs for Waste Water Reclamation and Water Disinfection.** VII Brazilian Congress of Advanced Oxidation and 1st Iberoamerican Congress of Advanced Oxidation. Recife (Brazil) in October 15-18, 2013. Keynote lecture.
301. M. S. Lucas, J. A. Peres, A. Sampaio, L. Prieto-Rodríguez, I. Oller, M. I. Maldonado, S. Malato. **Treatment of pulp mill wastewater by biologic and solar photo-Fenton processes: a case study.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). O11, p 8. Oral presentation.
302. D. Lambropoulou, E. De Torres Socías, I. Oller, A. Agüera, S. Malato. **Degradation of Bupropion by Solar Driven Advanced Oxidation Processes at Pilot Scale: Kinetics, Transformation Products and routes.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). O28, p 14. Oral presentation.
303. R. Gonzalez-Olmos, M.J. Martin, I. Oller, S. Malato, F.-D. Kopinke, A. Georgi. **Fe-zeolites as Materials for Adsorption / Oxidation Processes in Water Treatment. 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3).** Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). O33, p 15. Oral presentation.
304. M.I. Polo-López, A. Ruiz-Aguirre, G. Zaragoza, P. Fernández-Ibáñez. **Treatment and reclaim of irrigation water using solar membrane distillation and advanced oxidation.** Pretoria, South Africa. July 1-4, 2013. Book of abstracts, paper 655. 5th International Conference on Applied Energy (ICAE2013). 1K009.
305. J.A. Byrne, E. Magee, J.W.J. Hamilton, P.S.M. Dunlop, S.C. Pillai, R. Fagan, K. O'Shea, C. Han, D.D. Dionysiou, M.I. Polo-Lopez and P. Fernandez-Ibanez. **Novel Photocatalytic Materials: The Need for Research Standards (KeyLecture).** 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
306. K.G., McGuigan, R. Nalwanga, B. Quilty, C. Muyanja, P. Fernandez-Ibanez. **Evaluation of a 25 Litre Batch SODIS Reactor Fitted with a Compound Parabolic Collector Under Ugandan Field Conditions (Oral).** 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
307. S. Miralles-Cuevas, I. Oller, J.A. Sánchez Pérez, S. Malato. **Application of Modified Solar Photo-Fenton Treatment to Nanofiltration Membranes Concentrates for Removal of Pharmaceuticals in MWTP Effluents.** The 19th Int. Conf. on Advanced Oxidation Technologies for Treatment of Water, Air and Soil (AOTs-19). 17-21 November, San Diego (California, USA). Oral Communication.
308. E. De Torres-Socías, I. Oller, L. Prieto-Rodríguez, A. Zapata, S. Malato. **Landfill Leachate treatment by Solar Photo-Fenton: toxicity, biodegradability and economic assessment.** The 19th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil (AOTs-19). 17-21 November, San Diego (California, USA). Oral Communication.
309. S. Papoutsakis, S. Miralles-Cuevas, N. Gondrexon, S. Baup, S. Malato, C. Pulgarin. **Synergistic Pilot-scale Coupling Between High-frequency Ultrasound and Solar Photo-Fenton for the Treatment of Selected Contaminants.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). P52, p 46. Poster presentation.
310. M. Jiménez, M. Ignacio Maldonado, S. Malato, A. Hernández-Ramírez. **Photocatalytic degradation of pesticides mixture found in citrus processing industry wastewater using TiO₂ supported on glass beads.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). P88, p 58. Poster presentation.
311. S. Miralles-Cuevas, F. Audino, I. Oller, J.A. Sánchez-Pérez, M. Tanveer, S. Malato. **Pharmaceuticals removal by combining nanofiltration with advanced oxidation tertiary treatments.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). P89, p 58. Poster presentation.

312. De Torres-Socías, E, Oller, I., Malato, S. **Treatment strategy for cork boiling wastewater remediation at pilot plant scale.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). P122, p 69. Poster presentation.
313. L. Prieto-Rodríguez, I. Oller, A. Agüera, S. Malato. **Pharmaceuticals behavior throughout a secondary immobilized biomass reactor followed by a solar photo-Fenton tertiary treatment.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). P153, p 79. Poster presentation.
314. I. Carra, S. Malato, J. A. Sánchez Pérez. **Effect of Iron Dosage on Reaction Time in the Photo-Fenton Process when Removing Micropollutants.** 3rd European conference on environmental applications of advanced oxidation processes (EAAOP3). Almería, Spain. October 27th 30th 2013. Book of abstracts (ISBN 978-84-15487-99-9). P202, p 96. Poster presentation.
315. M. Castro-Alfárez, M.I. Polo-López, P. Fernández-Ibáñez. **Evaluation of the photon flux in a CPC photo-reactor by ferrioxalate actinometry** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
316. A. Ruiz- Aguirre, M.I. Polo-López, M. Castro-Alfárez, G. Zaragoza, P. Fernández-Ibáñez. **Combination of Solar Membrane Distillation and Advanced Oxidation Processes In Removing Fusarium solani and Clostridium sp from Contaminated Wastewater Effluent** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
317. I. García-Fernández, M.I. Polo-López, S. Miralles, P. Fernández-Ibáñez. **Photo-Fenton with Fe (III)-EDDS Complex at Neutral pH for Disinfection of Real Wastewater Effluents** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
318. M.I. Polo-López, P. Fernández-Ibáñez. **Disinfection of simulated municipal wastewater treatment plant effluents using solar Advanced Oxidation Processes** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
319. J. Rodríguez-Chueca, M.I. Polo-López, M.P. Ormad, R. Mosteo, P. Fernández-Ibáñez. **Disinfection of municipal wastewater effluents by solar photo-Fenton treatment** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
320. D. Venieri, E. Chatzisyseon, C. Brebou, M.I. Polo-López, I. García-Fernández, D. Mantzavinos, P. Fernández-Ibáñez. **Solar photo-Fenton Inactivation of Legionella pneumophila in Environmental Samples** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
321. E. Ortega-Gómez, B. Esteban García, M.M. Ballesteros Martín, P. Fernández Ibáñez, J.A. Sánchez Pérez. **Disinfection of WWTP Secondary Effluent by Solar Photo-Fenton at Neutral pH** (Poster). 3rd European Conference on Environmental Application of Advanced Oxidation Processes. Almería, Spain, 27-30, October, 2013.
322. L. Maya-Treviño; A. Hernández-Ramírez; J. Guzmán-Mar; L. Hinojosa-Reyes; M. I. Maldonado. **Photocatalytic activity of the ZnO-Fe⁰ catalyst on the degradation of 2,4-D under simulated solar light.** 3rd European Conference on Environmental Applications of Advanced Oxidation Processes. Almería, Spain, October 27th-30th, 2013. Book of Abstracts (ISBN 978-84-15487-99-9) P22, pp 36.
323. A. Cabrera-Reina; G. Li Puma; J. L. Casas López; M. I. Maldonado; L. Santos-Juanes Jordá; J. L. García Sánchez; J. A. Sánchez-Pérez. **A Fenton/Photo-Fenton model including reactor geometry.** 3rd European Conference on Environmental Applications of Advanced Oxidation Processes. Almería, Spain, October 27th-30th, 2013. Book of Abstracts (ISBN 978-84-15487-99-9) P119, pp 68. 1K008
324. E. Saggioro; A. Oliveira; T. Pavesi; M. Jiménez-Tototzintle; E. Gonçalves, M. I. Maldonado; J. Moreira. **Efficiency of photocatalytic degradation of bisphenol A in batch and CPC reactors mediated TiO₂ suspensions.** 3rd European Conference on Environmental Applications of Advanced Oxidation Processes. Almería, Spain, October 27th-30th, 2013. Book of Abstracts (ISBN 978-84-15487-99-9) P163, pp 83.
325. A. Cabrera Reina; J. L. Casas López; M. I. Maldonado Rubio; L. Santos-Juanes Jordá; J. L. García Sánchez; J. A. Sánchez-Pérez. **The use of Photo-Fenton modelling for plant design.** 3rd European Conference on Environmental Applications of Advanced Oxidation Processes. Almería, Spain, October 27th-30th, 2013. Book of Abstracts (ISBN 978-84-15487-99-9) P177, pp 87.

326. Jose A. Sánchez, I. Carra, E. Ortega, B. Essteban, Josse L. Casas, S. Malato. **Study of irradiance and Fe concentration effect for removal of contaminants at µg/L scale by solar photo-Fenton at natural pH.** 245th ACS National Meeting and Exposition, Division of Environmental Chemistry. New Orleans, LA, USA. April 7-11, 2013. Paper 335, Session on “Chemistry and applications of advanced oxidation processes for removal of contaminants of emerging concern”. Poster presentation.
327. E. De Torres-Socías, I. Oller, S. Malato. **Cork boiling wastewater treatment at pilot plant scale: comparison of solar photo-Fenton and ozone (O₃, O₃/H₂O₂ at different initial pH values). Toxicity and biodegradability assessment.** 14th EuCheMs International Conf. on Chemistry and the Environment. Barcelona, Spain. June 25th 28th, 2013. Book of abstracts, PW-9. Poster presentation.
328. S. Miralles-Cuevas, I. Oller, J.A. Sánchez Pérez, S. Malato Rodríguez. **Combined nanofiltration and photo-Fenton for treating water containing pollutants at µg L⁻¹ initial concentration in natural water.** 14th EuCheMs International Conf. on Chemistry and the Environment. Barcelona, Spain. June 25th 28th, 2013. Book of abstracts, PE-22. Poster presentation.
329. L. Prieto-Rodríguez, P. Fernández, S. Miralles-Cuevas, I. Oller, A. Agüera, S. Malato. **Optimization of mild heterogeneous photocatalysis with low concentration of TiO₂ for WWTP effluents containing microcontaminants.** 4th Int. Conf. On Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). P3-17, pp. 251. Poster presentation.
330. I. García-Fernandez, M.I. Polo-Lopez, I. Martin-Cara, M. Jiménez-Tototzintle, P. Fernández-Ibáñez. **Photocatalytic inactivation of fungi and bacteria in CPC reactor: effect of air injection and water temperature.** 4th Int. Conf. on Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). P3-23, pp. 255. Poster communication.
331. Sixto Malato Ponencia invitada en “**Heterogeneous catalysis: from electronic processes to photocatalysis**”. IRCELYON-CNRS. Amphithéâtre CNRS, Villeurbanne, France. 24 Enero, 2013.
332. S. Malato, I. Oller, A. Agüera, L. Prieto-Rodríguez, S. Miralles. **Advanced treatments (solar AOPs and nanofiltration) for elimination of micropollutants in municipal wastewater treatment plant effluents.** 245th ACS National Meeting and Exposition, Division of Environmental Chemistry. New Orleans, LA, USA. April 7-11, 2013. Paper 84, Session on “Chemistry and applications of advanced oxidation processes for removal of contaminants of emerging concern”. Oral presentation.
333. Sixto Malato Rodríguez. **Removal of Pollutants in Water and Wastewater by Solar Advanced Oxidation Processes.** 14th EuCheMs International Conf. on Chemistry and the Environment. Barcelona, Spain. June 25th 28th, 2013. Book of abstracts, KN 12. Keynote presentation.
334. L. Prieto-Rodríguez, D. Spasiano, I. Oller, A. Agüera, S. Malato. **Removal of organic micro-contaminants from municipal waste water by an IBR system coupled to a solar photo-Fenton process as tertiary treatment.** 14th EuCheMs International Conf. on Chemistry and the Environment. Barcelona, Spain. June 25th 28th, 2013. Book of abstracts, OW-5. Oral presentation.
335. P. Fernández-Ibáñez, S. Malato, M.I. Maldonado, I. Oller, M.I. Polo-Lopez. **Decontamination and disinfection of water in solar photocatalytic reactors.** 4th Int. Conf. On Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). O33, pp. 83. Oral presentation.
336. N. Miranda-García, S. Suarez, M.I. Maldonado, S. Malato, B. Sánchez. **Regeneration strategies for TiO₂ immobilised photocatalysts used in the elimination of emerging contaminants in water.** 4th Int. Conf. On Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). O29, pp. 79. Oral presentation.
337. Invited keynote lecture: P. Fernández-Ibáñez, **Solar Water Treatment.** Photochemistry Early Career Researchers Meeting. 15th-16th May 2013, Belfast (UK), Royal Society of Chemistry and University of Ulster.
338. M. Jiménez-Tototzintle; S. Malato; E. M. Rodríguez; A. Hernández-Ramírez, M. I. Maldonado. **Supported-TiO₂ solar photocatalysis at pilot plant scale: degradation of pesticides found in wastewater from citrus processing industry. Reactivity and reaction pathways.** 4th Int. Conf. On Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). P3-22. Oral presentation.
339. M. Castro-Alfárez, M.I. Polo-López, I. Oller, P. Fernández-Ibáñez, **Modelling and simulation of photo-Fenton reactions in a CPC solar reactor: formic acid case.** 9th Sollab Doctoral Colloquium on Solar Concentrating Technologies. 13th -14th May 2013, Balck Forest (Germany), DLR.

- 340.P. Fernández-Ibáñez. Invited lecture: **Solar technologies for wastewater treatment**, at the Faculty of Sciences of the Dublin City University (DCU), 14th May 2013.
- 341.P. Fernández-Ibáñez, S. Malato, M.I. Maldonado, I. Oller, M.I. Polo-López. **Decontamination and disinfection of water in solar photocatalytic reactors**. 4th Int. Conf. on Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). O33, pp. 83. Oral presentation.
- 342.J.A. Byrne, P. Fernández-Ibáñez, M.I. Polo-López, J.W.J. Hamilton, et al. **Rapid solar photocatalytic disinfection of water using titania and graphene-titania composites**. 4th Int. Conf. on Semiconductor Photochemistry. Prague, Czech Republic. 23rd 27th June 2013. Book of abstracts (ISBN 978-80-7080-854-2). O33, pp. 83. Oral presentation
- 343.P. Fernandez-Ibañez, M.I. Polo-López, S. Wandhwa, et al. **Rapid solar photocatalytic disinfection of water using graphene-titania composites**. 245th ACS National Meeting and Exposition, Division of Environmental Chemistry. New Orleans, LA, USA. April 7-11, 2013. Paper 134, Session on “Chemistry and applications of advanced oxidation processes for removal of contaminants of emerging concern”. Oral presentation.
- 344.M.I. Polo-López, A. Ruiz-Aguirre, G. Zaragoza, P. Fernández-Ibáñez. **Treatment and reclaim of irrigation water using solar membrane distillation and advanced oxidation**. Pretoria, South Africa. July 1-4, 2013. Book of abstracts, paper 655. 5th International Conference on Applied Energy (ICAE2013).
- 345.C. Sirtori, A. Zapata, A. Agüera, S. Malato. **Advanced oxidation processes mediated by solar energy: an useful technology for treat different emerging contaminants**. 4th Int. IUPAC Conf. on Green Chemistry (4th ICGC). Foz do Iguazu, Brasil, 25-29 August, 2012. Oral Communication.
- 346.Sixto Malato y Pilar Fernández. **Decontamination and disinfection of water: solar plants and other engineering aspects**. The 17th Int. Conf. On Semiconductor Photocatalysis and Solar Energy Conversion. Jacksonville, Florida, USA, November 11th-15th, 2012. Book of Abstract, p. 35. Plenary lecture.
- 347.M. Inmaculada Polo-López, Sixto Malato-Rodriguez, Pilar Fernández-Ibáñez. **Inactivation of Pathogens inWater by Solar Photocatalysis**. The 17th Int. Conf. On Semiconductor Photocatalysis and Solar Energy Conversion. Jacksonville, Florida, USA, November 11th-15th, 2012. Book of Abstract, p. 64. Short talk.
- 348.Sixto Malato. **Advanced Technologies Based on Solar Energy for Wastewater Treatment**. Workshop “Sustainable water treatment technologies: achievements, perspectives, constraints”. 10-11 December 2012, Girona, Spain. Book of abstract, pp. 9-11. Oral presentation.
- 349.S. Malato. Ponencia invitada en “**Seminario Internacional de Energía Solar para la Agricultura y la Agroindustria**”. Fundación para la Innovación Agraria (Ministerio de Agricultura, Chile). 18-23 Noviembre, 2012.
- 350.I. Oller. Ponencia Invitada. **Solar photo-reactors for water treatment**, en International Workshop on New Advanced Wastewater Treatment Technologies. September 6, 2012. ICCF (Clermont-Ferrand).
- 351.García-Fernandez, M.I. Polo-López, I. Oller, P. Fernández-Ibáñez, **Inactivation of *Clavibacter michiganensis* in Water Using solar photo-Fenton**. Poster. International Conference on Recycling and Reuse (R&R2012), Istanbul (Turkey), June 4-6, 2012.
- 352.M.I. Polo-López, I. García-Fernandez, I. Oller, P. Fernández-Ibáñez, T. Velegraki, A. Katsoni, D. Matzavinos. **Removal of pathogens from municipal effluents using mild solar photo-Fenton**. Poster. International Conference on Recycling and Reuse (R&R2012), Istanbul (Turkey), June 4-6, 2012.
- 353.Turki, H Kochkar, I. García-Fernández, M.I. Polo-López, A. Ghorbel, C. Guillard, G. Berhault, P. Fernández-Ibáñez. **Solar Photocatalytic Inactivation of *Fusarium Solani* Over TiO₂ Nanomaterials With Controlled Morphology -- Formic Acid Effect** (Poster). 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA7), Oporto, 17-20 junio 2012.
- 354.P. Fernández-Ibáñez, M.I. Polo-López, I. García-Fernandez, I. Oller, **Phytophthora capsici Inactivation using Photo-Fenton, H₂O₂ and Fe²⁺/Fe³⁺ under Natural Solar Radiation**. Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 177-178. Poster.
- 355.P. Fernández-Ibáñez, I. García-Fernandez, I. Fernandez-Calderero, M.I. Polo-Lopez. **Photocatalytic Inactivation of *Fusarium* spp in Simulated Wastewater Effluent: Effect of Temperature and Dissolved Oxygen**. Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental

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- 356.E. I. Magee, J.A. Byrne, P. Fernández-Ibáñez, J.W.J. Hamilton, P.S.M. Dunlop. **Photocatalytic activity of Visible Light Active TiO₂ towards the inactivation of E. coli under natural sunlight.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 445-447. Poster.
- 357.J. M. Peralta-Hernández; A. Saldaña-Robles; R. J. Guerra-Sánchez; M. I. Maldonado. **Response Surface Optimization of Methyl Orange from Aqueous Solution by Fenton Oxidation Process.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 644.646. Poster.
- 358.L. Maya; A. Hernández; J. Guzman; L. Hinojosa; M. I. Maldonado. **Comparative Study of the Photocatalytic Activity of ZnO-Fe₂O₃ and ZnO-Fe₀ on Dicamba Degradation Using Solar Light.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp 702-704. Poster.
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- 360.L. Santos-Juanes, E. Ortega, A. Cabrera, J. L. Casas, M.I. Maldonado. **Dissolved Oxygen Monitoring for Enhancement the Photo-Fenton Process Efficiency and Economics.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 376-377. Poster.
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- 362.S. Miralles-Cuevas, S. Malato Rodríguez, M.I. Maldonado, J.A. Sánchez-Pérez. **Enhancing Solar Photo-Fenton Efficiency Applied to Micropollutants by Coupling With Nanofiltration.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 202-204. Poster.
- 363.G. Mascolo, G. Del Moro, M. Bello, S. Belaidi, S. Miralles-Cuevas, I. Oller, S. Malato, R. Gerbas, F. Visentin. **Degradation of Iopamidol by Solar Photo-Fenton and Solar Photocatalysis Employing Supported TiO₂.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 365-367. Poster.
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- 365.N.Klamerth, S.Malato, A.Agüera, A.R.Fernandez-Alba. **Comparison of Photo-Fenton and Modified Photo-Fenton Processes for the Degradation of Micro and Emerging Contaminants in Wastewater Treatment plant Effluents.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 389-390. Poster.
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367. J. Giménez, B. Bayarri, M.I. Maldonado, S. Malato, S. Esplugas. **2,4-Dichlorophenol Degradation by Means of Heterogeneous Photocatalysis. Comparison Between Laboratory and Pilot Plant Performance.** Proceedings of the 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Porto, June 17th 20th, 2012. A. Silva, C. Gomes, J.L. Faria, R. Segundo, V.J.P. Vilar (Eds.). Sociedade Portuguesa de Química. ISBN 978-989-97667-4-7. pp. 474-476. Poster.
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