

## INTERNATIONAL CONGRESSES

1. I. Berruti, A. Hernández-Zanoletty, E. Jambrina-Hernández, P. Plaza-Bolaños, A. Agüera, I. Polo-López, I. Oller. **Eco-innovative wastewater treatment system: a combination of anaerobic digestion, constructed wetlands, and a solar photochemical process.** 7th International Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-7) Paestum (Italy), 10 – 13 June 2025. Oral communication.
2. I. Berruti, A. Ruiz-Aguirre, J. Villachica-Llamosas, S. Malato. **Photo-reforming of organic compounds for the simultaneous production of hydrogen and value-added chemicals.** 9th International Conference on Semiconductor Photochemistry (SP9), Madrid (Spain), 8-12 September, 2025. Oral communication.
3. A. Ruiz-Delgado, I. Oller, P. Serrano-Tarí, S. Malato. **New Supported zero valent iron for solar heterogeneous degradation of persistent microcontaminants for urban wastewater reclamation.** 7th International Conference on Environmental Application of Advanced Oxidation Processes (EAAOP-7), Paestrum, Salerno (Italia). 10-13 June 2025. Oral communication..
4. E. Clemente, K.J. Castañeda Retavizca, A. Ruiz-Delgado, R. Martins, I. Oller. **Emerging contaminant removal from aquaculture wastewater by solar advanced oxidation processes.** 7th International Conference on Environmental Application of Advanced Oxidation Processes (EAAOP-7), Paestrum, Salerno (Italia). 10-13 June 2025. Oral communication.
5. I. Espinoza-Pavón, I. Berruti, S. Nahim-Granados, S. Malato, I. Oller, C. Monteserrín, H. Zarrabe, A. Goitandia, M. Blanco, M. I. Polo-López. **Assessment the up-scaling of a photocatalytic reactor with immobilized TiO<sub>2</sub> for water purification.** 7th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP7). 10-13 Junio 2025, Paestum, Italy. Book of abstracts, 166-167. Oral.
6. A. Hasanzade, S. Nahim Granados, K. Lalas, S. Malato, M.I. Polo-López. **Solar-Chlorine Disinfection of Simulated Aquaculture Effluent in Raceway Pond Reactor.** 7th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP7). 10-13 Junio 2025,, Paestum, Italy. Book of abstracts, 233.234. Oral.
7. S. Malato. **Prospects for solar driven advanced oxidation processes in tertiary/quaternary treatment of urban wastewater.** 7th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP7). 10-13 Junio 2025, Paestum, Italy. Book of abstracts, 292-293. Plenary.
8. S. Malato. **Treatment of wastewaters and municipal effluents by solar advanced oxidation processes: technology and applications.** II International Meeting Molecules4Life. 10-12 September 2025, University of Trás-os-Montes e Alto Douro, at Vila Real (Portugal). Book of abstract, 30. Plenary Lecture.
9. S. Malato. **Solar Photocatalysis: Technology and Applications.** International congress of the mexican chemical society 2025. October 14-17<sup>th</sup>, 2025. Monterrey, Nuevo León, Mexico. Book of abstract, 46. Plenary.
10. I. Oller, Ana Ruiz, A. Hernández-Zanoletty, I. Espinoza, M.I. Polo-López, S. Nahim-Granados, S. Malato. **Solar heterogeneous photocatalysis and photochemistry for urban wastewater regeneration and reuse.** 21st Edition of Global Conference on Catalysis, Chemical Engineering & Technology (CAT2025). Valencia (Spain). 11-13 September 2025. Keynote (Virtual).
11. I. Espinoza-Pavón, I. Berruti, S. Nahim-Granados, S. Malato, I. Oller, C. Monteserrín, H. Zarrabe, A. Goitandia, M. Blanco, M. I. Polo-López. **Assessment the up-scaling of a photocatalytic reactor with immobilized TiO<sub>2</sub> for water purification.** 7th International Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-7). Salerno (Italy), 10-13 June 2025. Poster
12. A. Hasanzade, S. Nahim Granados, K. Lalas, S. Malato, I. Oller, M.I. Polo-López. **Solar-Chlorine Disinfection of Simulated Aquaculture Effluent in Raceway Pond Reactor.** 7th International Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-7). Salerno (Italy), 10-13 June 2025. Poster
13. I. Espinoza-Pavón, S. Nahim-Granados, I. Berruti, I. Oller, S. Malato, C. Monteserrín, H. Zarrabe, A.M. Goitandia, M. Blanco, M.I. Polo-López. **Development and testing of immobilized TiO<sub>2</sub> for water treatment: from the lab to pilot scale.** 9th International Conference on Semiconductor Photochemistry (SP9). Madrid (Spain), 8-12 September 2025. Poster
14. E. Clemente, A. Ruiz-Delgado, R. Martins, S. Malato, I. Oller. **Waste-based solar photo-Fenton process for persistent microcontaminant removal at pilot scale.** 7th International Conference WASTES: Solutions Treatments Opportunities. Madeira (Portugal). 3-5 September 2025. Poster
15. P. Serrano-Tarí, A. Ruiz-Delgado, I. Oller, S. Malato. **Advanced oxidation processes for industrial wastewater reclamation.** 7th International Conference on Environmental Application of Advanced Oxidation Processes (EAAOP-7). Paestrum, Salerno (Italia). 10-13 June 2025. Poster.
16. C. Frois, I. Berruti, R. Gomes, A. Fernandes, A. Agüera, S. Malato, C. Sirtori. **Effect of microplastics on degradation of cecs under solar photo Fenton process.** 7th European Conference on Environmental

- Applications of Advanced Oxidation Processes (EAAOP7). 10-13 Junio 2025, Paestum, Italy. Book of abstracts, 488-489. Poster. Poster
17. 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.
  18. 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.
  19. 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.
  20. 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.
  21. 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.
  22. 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.
  23. 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).
  24. 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)
  25. S. Nahim-Granados, I. Berruti, I. Oller, M.I. Polo-López, S. Malato. **Commercial iron micronutrient (Fe<sup>3+</sup>-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)
  26. 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).
  27. 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).
  28. 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)
  29. 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)

30. 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)
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, 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)
32. 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.
33. Patricia García-Muñoz, Nicolas Keller, Alba Hernández-Zanolety, Fernando Fresno, Didier Robert, Sixto Malato. **Boosted activity and robustness of La<sub>1-x</sub>Ti<sub>x</sub>FeO<sub>3</sub> 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.
34. 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.
35. 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.
36. 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.
37. 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)
38. 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)
39. 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)
40. 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).
41. E. Jambriña-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).
42. K.J. Castañeda Retavizca, K. O'Dowd, E. Jambriña-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).
43. 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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45. 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.
46. 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.
47. 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.
48. 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 TiO<sub>2</sub> immobilized on silica support.** 8th International Conference on Semiconductor Photochemistry (SP 8). Strasbourg (France), September 11-15, 2023. Flash&Poster presentation.
49. 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.
50. Eva Jiménez-Relinque, Moisés Canle, Sixto Malato, Pedro M. Álvarez, Montserrat Pérez-Moya, M<sup>a</sup> José López-Muñoz, Daphne Herмосilla, Antonio Arques, Jesús Santamaria, Silvia Suárez, Jose M. Doña, M<sup>a</sup> 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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
56. 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
57. 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.

58. 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.
59. 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.
60. J. G. Villachica-Llamosas, 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.
61. E. Jambriña 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.
62. 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
63. 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.
64. 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.
65. 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
66. 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.
67. S. Malato, J.G. Villachica-Llamosas, 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.
68. 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
69. 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
70. 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
71. 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
72. A. Hernández-Zanoletty, I. Oller, I. Polo-López, S. Malato, A. Ruiz-Delgado, S. Nahim-Granados, J. Flores, O. Cabezuelo, 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
73. 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
74. 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

75. 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
76. 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
77. 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
78. 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
79. 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
80. 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
81. 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
82. 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.
83. A. Ruiz-Aguirre, J. G. Villachica-Llamosas, M. I. Polo-López, A. Cabrera, J. Peral, G. Colón, S. Malato. **Pilot-scale photocatalytic hydrogen production, decontamination and disinfection using TiO<sub>2</sub> 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.
84. J. G. Villachica-Llamosas, 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.
85. J. G. Villachica-Llamosas, A. Ruiz-Aguirre, M. I. Polo-López, A. Cabreira-Reina, G. Colón, J. Peral, S. Malato. **A CuO-TiO<sub>2</sub> mixture as a promising photocatalyst for simultaneous hydrogen production, wastewater treatment and disinfection.** 11th European Photocatalyst, Conference on Environmental, Solar Chemistry and Applications. Turin (Italia), 6-10 junio 2022. Oral flash.
86. 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
87. 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.
88. 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.
89. 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.
90. 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.
91. 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.
92. 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.
  93. 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
  94. J.G. Villachica-Llamas, A. Ruiz-Aguirre, M.I. Polo-López, A. Cabrera-Reina, G. Colón, J. Peral, S. Malato. **A CuO-TiO<sub>2</sub> 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.
  95. 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.
  96. A. Martínez-García, S. Nahim-Granados, M. J. Abeledo-Lameiro, I. Oller, M. I. Polo-López. **Enhancement Effect Of H<sub>2</sub>O<sub>2</sub> And Dissolved Oxygen On Solar Water Disinfection.** 12th Micropol & Ecohazard Conference. Santiago de Compostela (Spain), 6-10 June 2022.
  97. 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.
  98. 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.
  99. M.I. Polo-López, A. Martínez-García, I. Oller. **Solar water disinfection of rainwater by H<sub>2</sub>O<sub>2</sub> 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.
  100. 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.
  101. 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.
  102. 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.
  103. 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.
  104. 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.
  105. I. Sánchez-Montes, I. Salmerón, J.M. Aquino, M.I. Polo-López, S. Malato, I. Oller. **Comparison of UVC/H<sub>2</sub>O<sub>2</sub> and UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> 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.
  106. S. Nahim-Granados, A.B. Martínez-Piarnas, 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

- 107.A. Ruiz-Aguirre, R. Gueccia, S. Randazzo, A. Cipollina, G. Micale, **Continuous H<sub>2</sub>SO<sub>4</sub> recovery by diffusion dialysis**. ICheaP 15. The 15<sup>th</sup> International Conference on Chemical and Process Engineering, Naples 23-26 May 2021.
- 108.M.I. Polo-López. **Antibiotic Resistant Bacteria: occurrence and removal from urban wastewater**. ODAKtr Seminar (H2020 Project SolarTwins). Online 5 February 2021.
- 109.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.
- 110.I. Oller. **Water-Energy-Food nexus in industrial and urban wastewater recovery**. ODAKtr Seminar (H2020 Project SolarTwins). Online 5 February 2021.
- 111.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.
- 112.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.
- 113.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. Hybrid event. Mylan (Italy) 21-25 June 2021.
- 114.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. Hybrid event. Mylan (Italy) 21-25 June 2021.
- 115.A. Martínez-García, I. Oller, M.I. Polo-López. **Evaluation of small doses of H<sub>2</sub>O<sub>2</sub> for solar water disinfection enhancement**. CONGRESO INTERNACIONAL 4th SMALLWAT21v. On-line, Sevilla (España) 17-18 June 2021.
- 116.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/H<sub>2</sub>O<sub>2</sub> processes**. 17th International Conference on Environmental Science and Technology CEST2021. Oral presentation. Athens, Hybrid event (cest2021\_00744). Greece. 1-4 September 2021.
- 117.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. Hybrid event. Mylan (Italy) 21-25 June 2021.
- 118.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.
119. 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.
- 120.H. Gómez-Couso, A. Reboredo-Fernández, M.J. Abeledo-Lameiro, M.I. Polo-López, P. Fernández-Ibañez, E. Ares-Mazás. **Photocatalytic inactivation of the waterborne protozoan parasite *Cryptosporidium parvum*: heterogeneous photocatalysis with TiO<sub>2</sub> 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)
- 121.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).
- 122.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)
- 123.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
- 124.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)

- 125.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).
- 126.I. Oller. **Solar Technologies applied to wastewater purification**. Two-days of intensive course on solar desalination and water purification, Algeria (Argel), 26 March 2019.
- 127.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.
- 128.I. Oller. **Solar based technologies for disinfection and decontamination of water for reusing purposes**. INTERSOLAR 2019. Solar Energy & Water: The Nesus of Two Essential Ingredients for Life, Munich (Germany), 15 May 2019.
- 129.I. Oller. **Session 6: Towards Real Implementation: Real examples: tertiary treatment**. 3<sup>rd</sup> European Summer School of Environmental Applications on Advanced Oxidation Processes, Alcoy (Spain), 6 June 2019.
- 130.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.
- 131.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 TiO<sub>2</sub> photoanodes and cathodic electrogeneration of H<sub>2</sub>O<sub>2</sub> for water decontamination and disinfection**. 3<sup>rd</sup> 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).
- 132.I. Salmerón. G. Rivas, I. Oller, S. Malato. **Electrochemical wastewater treatments enhanced by combination with solar energy**. 1<sup>st</sup> Doctoral Colloquium SFERA III project. Odeillo (Francia) 11-13 Septiembre 2019. Oral communication.
- 133.I. Salmerón. G. Rivas, I. Oller, S. Malato. **Combination of nanofiltration membranes and electrooxidative processes as tertiary treatment for the removal of microcontaminants**. 4<sup>th</sup> IWA Spain National Young Water Professionals Conference (YWP 2019) Madrid (España) 12-15 noviembre 2019. Oral communication.
134. 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**. 6<sup>th</sup> 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).
135. 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**. 6<sup>th</sup> 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).
136. 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.
- 137.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.
- 138.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**. 6<sup>th</sup> European Conference on Environmental Applications of Advance Oxidation Processes (EAAOP-6). Portoroz (Slovenia), 26-30 Junio 2019. Oral communication. Book of abstracts pp. 203-204 (ISBN 978-961-93849-5-4).
- 139.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, microcontaminatns 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.
140. A. Martínez-García, I. Oller, P. Fernández-Ibañez, M.I. Polo-López. **Evaluation of a new solar photo-reactor design for solar disinfection (SODIS)**. 6<sup>th</sup> European Conference on environmental Applications of Advanced

- Oxidation Processes (EAAOP-6). Portorož, (Eslovenia), 26-30 junio 2019. Oral communication. Book of abstracts, pp. 251-252 (ISBN 978-961-93849-5-4).
141. 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.
  142. 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.
  143. A. Martínez-García, I. Oller, P. Fernández-Ibáñez, M.I. Polo-López. **Evaluation of a new solar photo-reactor for solar water disinfection.** 1<sup>st</sup> Doctoral Colloquium of the SFERA-III project. Odeillo (Francia), 11-13 septiembre 2019. Oral communication.
  144. L. Perez-Estrada. **Urban wastewater for irrigation and reuse: Innovative and solar processes.** ALICE project thematic workshop. ALICE workshop, Belfast (UK), 12 Septiembre 2018.
  145. 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.
  146. M. A. Roccamante, S. Miralles-Cuevas, 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.
  147. 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.
  148. S. Malato. Ponencia “Novel trends in photo-Fenton”. **3<sup>rd</sup> European Summer School on Environmental Applications of Advanced Oxidation Processes.** Alcoy, Spain, June 3-7, 2019.
  149. 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. 14<sup>th</sup> Nov. 2019.
  150. 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.
  151. 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.** 6<sup>th</sup> 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.
  152. 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/H<sub>2</sub>O<sub>2</sub> process.** 6<sup>th</sup> 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.
  153. 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.** 6<sup>th</sup> 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.
  154. 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 TiO<sub>2</sub>-nanotubes-carbon felt cathode electrochemical cell.** 6<sup>th</sup> 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.
  155. 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.** 6<sup>th</sup> 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.

156. 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 (Fe<sup>3+</sup>-EDDHA)**. 20<sup>th</sup> Symposium on Health-Related Water Microbiology (HRWM). Vienna, Austria. 15/09/2019-20/09/2019. Abstract book, p 54. Oral POP 15.
157. A. Cabrera, S. Miralles, L. Cornejo, S. Malato and I. Oller. **Engineering aspects of solar photo-Fenton: process simulation as scaling-up tool**. 2<sup>nd</sup> Energy, Efficiency and Environmental Sustainability Conference, La Serena, Chile. October 16-18, 2019. Book of Abstracts, pp. 60. Oral SED06-A.
158. 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.
159. 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.
160. E. Pinheiro Costa, M. Roccamante, S. Malato, I. Oller, C. Amorim. **Improvement of solar photo-Fenton reaction in open reactors with reflective surface**. IV Iberoamerican Conference on Advanced Oxidation Technologies. 18-22 Nov 2019, Natal, Brasil. Oral PFE-O06.
161. A. Martínez García, I. Oller, M.I. Polo-López. **Solar-assisted Water Disinfection by H<sub>2</sub>O<sub>2</sub> for Drinking Proposes**. III Summer School of the European Phd school on Advanced Oxidation Processes. Alcoy (Alicante), junio 3-7, 2019. Poster P1.
162. 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**. 20<sup>th</sup> International Symposium on Health-Related Water Microbiology (HRWM). Vienna (Austria), 15-20 Septiembre 2019. Poster. Book of abstracts (Pag 156).
163. 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**. 6<sup>th</sup> 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
164. 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.
165. 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 H<sub>2</sub>O<sub>2</sub> electrogeneration by response surface methodology**. III Summer School of the European PhD School on Advanced Oxidation Processes. Alcoy (España) 3-6 junio 2019.
166. 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**. 3<sup>rd</sup> European Summer School of Environmental Applications on Advanced Oxidation Processes. Alcoy (Spain), June 3 – 7, 2019.
167. 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**. International Conference on Chemical Energy Semiconductor Photochemistry. Trabzon (Turkey), September 4 – 6, 2019.
168. Maldonado M.I., A. López-Martín, G. Colón, J. Peral, J.I. Martínez-Costa, S. Malato. **Solar Pilot Plant Scale Hydrogen Generation by Irradiation of Cu/TiO<sub>2</sub> Composites in Presence of Sacrificial Electron Donors**. 10<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P5, page 322-324.
169. S. Y. Toledo Camacho, A. Rey, M. I. Maldonado, S. Contreras, F. Medina, **Photocatalytic hydrogen generation in a solar pilot plant using Pd/TiO<sub>2</sub>(-WO<sub>3</sub>) based catalyst**. 10<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications SPEA10. Almería (Spain). June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P13, page 342-344.
170. S. Nahim-Granados, I. Oller, S. Malato, J.A. Sánchez-Pérez, M.I. Polo-López. **Commercial fertilizer as effective iron chelate (Fe<sup>3+</sup>-EDDHA) for fresh-cut wastewater disinfection under natural sunlight**. 10<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P87, page 513-515.
171. Dennis Deemter, Isabel Oller, Sixto Malato, Ana M. Amat. **Application of Advanced Integrated Technologies (Membrane and Photo-Oxidation Processes) for the Removal of CECs contained in Urban Wastewater**. 10<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P89, page 519-520.
172. I. Berruti, M.I. Polo-López, I. Oller, M. Manfredi. **Assessment of novel advanced oxidation processes for removal of disinfection by-products and CECs from drinking water**. 10<sup>th</sup> European Meeting on Solar

- Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 88. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 516-518).
173. P. Soriano-Molina, J.L. García Sánchez, O.M. Alfano, L.O. Conte, S. Malato, J.A. Sánchez Pérez. **Modeling of Solar Photo-Fenton Process with Fe<sup>3+</sup>-EDDS at Neutral pH**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P91, page 524-526.
  174. Ruiz-Delgado A., García-Gómez E., Pérez-Estrada L.A., Malato S., Oller I., Agüera A. **Treatment line for landfill leachates remediation. Analytical assessment**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P224, page 861-863.
  175. I. Oller, S. Malato, M.I. Maldonado, M.I. Polo-López. Solar treatment of Water at Plataforma Solar de Almería. Workshop on Water Efficiency in Process Industry. Frankfurt (Alemania), 8 Febrero 2018. E4400
  176. Ruiz-Delgado A., Roccamante M., Oller I., Malato S. **Natural iron complexes from Olive Mill Wastewater for Solar Photo-Fenton degradation of micro-contaminants**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P105, page 560-562.
  177. Polliotto, Pomilla, Maurino, Marci, Bianco Prevot, Nisticò, Magnacca, Paganini, Ponce Robles, Malato, Perez. **Magnetic hybrid nanomaterials for the photodegradation of microcontaminants in aqueous environment**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P134, page 634-636.
  178. E. Grilla, V. Matthaiou, Z. Frontistis, I. Oller, I. Polo, D. Mantzavinos, S. Malato. **Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO<sub>2</sub> and persulfate: A pilot plant study**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P141, page 653-654.
  179. L. Ponce-Robles, M. I. Polo-López, I. Oller, A. Agüera, S. Malato. **Strategy for remediation of cork boiling wastewater using a combination of advanced chemical-biological oxidation technologies. Microbiological evaluation**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P236, page 891-893.
  180. Roccamante M., Ruiz-Delgado A., Oller I., Malato S. **Advanced Oxidation Processes based on Ozonation for Contaminants of Emerging Concern removal**. 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Poster P239, page 899-901.
  181. P. Soriano-Molina, A. Lorenzo, P. Plaza-Bolaños, S. Malato, J.A. Sanchez-Perez. **Assessment of solar photo-Fenton in raceway pond reactors at neutral pH with Fe(III)-EDDS for micropollutants removal in municipal wastewater treatment plant effluents of different composition**. 19th European Meeting on Env. Chem (EMEC 19). 3-6 December 2018. Royat, Clermont-Ferrand, France. Poster.
  182. M.I. Polo-López, S. Nahim-Granados, I. Oller, S. Malato, J.A. Sánchez Pérez. **Use of a commercial iron fertilizer (Fe<sup>3+</sup>-EDDHA) as effective solar disinfectant agent to treat fresh-cut wastewater for reusing purposes**. Int. Conf. on Challenges and Solutions related to Xenobiotics and Antimicrobial Resistance in the Framework of Urban Wastewater Reuse: Towards a blue circle society (XENOWAC II). 10th-12th October 2018, Limassol, Cyprus. Poster.
  183. Ruiz-Delgado, E. García-Gómez, P. Plaza-Bolaños, S. Malato, I. Oller, A. Agüera. **Identification and removal of contaminants of emerging concern in landfill leachate**. Int. Conf. on Challenges and Solutions related to Xenobiotics and Antimicrobial Resistance in the Framework of Urban Wastewater Reuse: Towards a blue circle society (XENOWAC II). 10th-12th October 2018, Limassol, Cyprus. Poster.
  184. I. Salmerón, I. Oller, I. Sirés, K.V. Plakas, M.I. Maldonado, S. Malato. **Application of electro-Fenton and solar photoelectro-Fenton processes for the treatment of membrane concentrates**. IWA Regional Conference on Water Reuse and Salinity Management. 11-15 June 2018, Murcia, Spain. Poster.
  185. A. Martínez García, I. Oller, P. Fernández-Ibáñez, M.I. Polo-López. **Assessment of Low-Cost Pilot Photo-Reactors for Solar Disinfection of Synthetic Rainwater**. 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 175. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 742-744).
  186. M.J. Abeledo-Lameiro, A. Reboredo-Fernández, P. Fernández-Ibáñez, M.I. Polo-López, E. Ares-Mazás, H. Gómez-Couso. **Efficacy of two solar reactors fitted with compound concentrators in the inactivation of Cryptosporidium in harvested rainwater**. 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 178. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 751-753).
  187. M.J. Abeledo-Lameiro, P. Fernández-Ibáñez, M.I. Polo-López, E. Ares-Mazás, H. Gómez-Couso. **Solar disinfection of harvested rainwater in developing countries: evaluation of two high capacity reactors against Cryptosporidium**. 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental

- Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 179. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 754-756).
- 188.M.J. Abeledo-Lameiro, A. Reboredo-Fernández, M.I. Polo-López, E. Ares-Mazás, H. Gómez-Couso. **Inactivation of Cryptosporidium oocysts by photo-Fenton process under natural solar conditions.** 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 180. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 757-759).
- 189.M.J. Abeledo-Lameiro, A. Reboredo-Fernández, P. Fernández-Ibáñez, M.I. Polo-López, E. Ares-Mazás. **Transparent polypropylene buckets are an alternative to PET bottles in the solar disinfection procedures against Cryptosporidium.** 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 181. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 760-762).
- 190.N.F.F. Moreira, C. Narciso-da-Rocha, M. I. Polo-López, L. M.Pastrana-Martínez, J. L. Faria, C.M. Manaiá, P. Fernández-Ibáñez, O.C. Nunes, A.M.T. Silva. **Urban Wastewater Treatment by Solar Advanced Oxidation Processes: Chemical and Biological Response.** 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Poster N° 228. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 871-872).
- 191.I. Oller. **Solar based technologies for disinfection, decontamination and desalination of water for reusing purposes.** The use of reclaimed water: best practices and new challenges. ALICE project thematic workshop. ALICE workshop, Murcia (España), 18 Junio 2018. 1K018
- 192.Sixto Malato. **Conferencia en Seminario Internacional de Tratamiento Solar de Aguas.** Ciclo de Seminarios de Ayllu Solar 2018. Facultad de Ciencias de la Univ. de Tarapacá, Chile. 3 de Abril de 2018.
- 193.I. Oller, M.I. Maldonado-Rubio, S. Malato. **Solar Photocatalytic technology for Hydrogen generation and contaminants elimination.** Joint UK and Ireland/Spain Semiconductor Photochemistry Meeting. Las Palmas de Gran Canaria (Spain) 10-11 September 2018.
- 194.Marcì, G., García-López, E.I., Palmisano, L., Ilkaeva, M., Krivtsov, I., García, J.R., Díaz, E., Ordóñez S., Maldonado, M.I., Malato S. **HMF Selective Photo-Oxidation in Aqueous Suspension of Both Bare and H<sub>2</sub>O<sub>2</sub> Treated Carbon Nitride Carried Out in a Solar Pilot Plant.** 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Oral OC -63, page 160-162.
- 195.K. Plakas, I. Salmerón, I. Oller, I. Sirés, M.I. Maldonado, S. Malato, A. Karabelas. **A novel solar photoelectro-Fenton pilot unit for water and wastewater treatment.** 11th National Conference on Renewable Energy Sources, Thessaloniki (Greece), 14-16 Marzo 2018.
- 196.Salmerón, I., Oller I., Sirés I., Plakas K.V., Maldonado M.I., Malato S. **Elimination of Contaminants of Emerging Concern by Solar Photoelectro-Fenton Process at Pilot Plant Scale.** 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Almeria (Spain), June 4-8, 2018. Book of proceedings (ISBN 978-84-17261-27-6). Oral SOC-15-P25, page 258-260.
- 197.S. Nahim-Granados, I. Oller, S. Malato, J.A. Sánchez-Pérez, M.I. Polo-López. **Fresh-cut wastewater disinfection by solar processes: a case study of the commercial iron micronutrient (Fe<sup>3+</sup>-EDDHA) for reuse purpose.** IWA regional conference of water reuse and salinity management (IWARESA). Murcia (España), 11-15 julio 2018. Oral communication. Book of abstracts (Pag. 77).
- 198.L. Ponce-Robles, A. Agüera, M.I. Polo-López, I. Oller, S. Malato. **Advanced Techniques for industrial water reuse assessment.** IWA regional conference of water reuse and salinity management (IWARESA). Murcia (España), 11-15 julio 2018. Oral communication. Book of abstracts (Pag. 75).
- 199.S. Nahim-Granados, I. Oller, S. Malato, J.A. Sánchez-Pérez, M.I. Polo-López. **Use of a commercial iron fertilizer for water disinfection under natural sunlight.** Summer School «Photochemistry and Depollution» 1st Aquality Symposium. Clermont-Ferrand (Francia), 25-27 Abril 2018. Oral presentation. Book of abstracts.
- 200.M. I. Maldonado, S. Malato, M. Nolan, G. Colón, J.R. van Ommen, I. Oller. **RATOCAT project: rational design of highly effective photocatalysts with atomic-level control.** International Sustainable Energy Conference - ISEC 2018, 3-5 October 2018, Graz, Austria. Oral presentation. Proceedings. pp. 349-350.
- 201.I. Oller, A. Ruiz-Delgado, M. Roccamante, I. Salmerón, L. Ponce-Robles, S. Malato. **Advanced Oxidation Technologies for removal of Contaminants of Emerging Concern. TRICERATOPS Project.** Int. Conf. on Challenges and Solutions related to Xenobiotics and Antimicrobial Resistance in the Framework of Urban Wastewater Reuse: Towards a blue circle society (XENOWAC II). 10th-12th October 2018, Limassol, Cyprus. Oral presentation.
- 202.J.A. Sanchez-Perez, P. Soriano-Molina, J.L. Garcia-Sanchez, S. Malato. **Solar photo-Fenton as a tertiary wastewater treatment. From mechanisms to reactor design.** 19th European Meeting on Env. Chem (EMEC 19). 3-6 December 2018. Royat, Clermont-Ferrand, France. Invited Oral.
- 203.P. Fernández-Ibáñez, M.I. Polo-Lopez, A. Martinez, M. Domingos, M.J. Abeledo-Lameiro, A. Reboredo-Fernández, E. Ares-Mazás, H. Gomez-Couso. **The Waterspoutt Project: Solar rainwater reactors for water disinfection.** The 7th European Bioremediation Conference (EBC-VII) and 11th International Society for

- Environmental Biotechnology Conference (ISEB 2018). Chania, (Grecia), 25-28 Junio 2018. Oral (Nº 108). E-book of Abstracts (pag. 390).
- 204.L. Rizzo, T. Agovino, S. Nahim-Granados, M. Castro-Alfárez, P. Fernández-Ibáñez, M.I. Polo Lopez. **Removal of contaminants of emerging concern and inactivation of antibiotic resistant bacteria in water by sunlight/peracetic acid.** 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Oral (Nº 26). Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 71-72).
- 205.L.C. Ferreira, M. Castro-Alfárez, S. Nahim-Granados, M.I. Polo-López, M. Lucas, G. Li Puma, P. Fernández-Ibáñez. **Inactivation of E. coli and E. faecalis by Sulphate Radicals Under Natural Sunlight in a Solar Compound Parabolic Collector Reactor.** 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Application (SPEA10). Almería (España) 4-8 junio 2018. Short Oral Communication Nº 28. Book of Proceedings. ISBN: 978-84-17261-27-6 (pag. 291-293).
- 206.S.G. Michael, I. Michael-Kordatou, M.I. Polo López, J. Rocha, A.Martinez-Piernas, P. Fernandez-Ibáñez, A. Agüera, C. Manaia, D. Fatta-Kassinos. **Removal of antibiotic-resistant bacteria and resistance gene (ARB&ARGs) from urban wastewater effluents by solar- and UV-C-driven oxidation processes.** International Conference on Challenges and Solutions related to Xenobiotics and Antimicrobial Resistance in the Framework of Urban Wastewater Reuse (XENOWAC II). Limassol (Chipre) 10-12 octubre 2018. Oral. Book of abstracts.
- 207.S. Nahim-Granados, J.A. Sánchez-Pérez, M.I. Polo-López, S. Malato. **Solar photochemical disinfection of synthetic wastewater from fresh-cut industry.** 3rd Iberoamerican Conference on Advanced. Oxidation Technologies (III CIPOA) and 2nd Colombian Conference on Advanced Oxidation Processes (II CCPAOX). Guatapé (Colombia), 14-17 Noviembre 2017. Poster 39. Abstract book
- 208.I. Salmerón, M. Benedetto, I. Oller, Celia del Curto, M.I. Maldoando, S. Malato. **Electrochemistry treatment applied to landfill leachates depuration.** 10th World Congress Chem. Eng. 1-5 October 2017, Barcelona (Spain). Book of abstract (ISBN 978-84-697-8629-1) pag. 2968. Poster.
- 209.S. Miralles-Cuevas, I. Oller, A. Ruiz-Delgado, A. Cabrera-Reina, L. Cornejo, S. Malato. **Effect of iron species and different oxidants using EDDS as complexing agent for enhancing solar advanced oxidation processes.** 3rd Iberoam. Conf. on Adv. Oxid. Tech.. (III CIPOA). November 14th-17th, 2017, Guatapé (Colombia). Poster.
- 210.M.I. Maldonado-Rubio, S. Malato, I. Oller, I. Polo-López, L.A. Pérez-Estrada, J. Peral, M. Navas. **Solar Treatment of Water Unit at the Plataforma Solar de Almería (CIEMAT): Solar photocatalytic production of Hydrogen.** 11th EERA AMPEA Joint Programme Steering Committee. AMPEA workshop: Photo- and Electro- Catalysis in Energy Conversion. November 20th-21st, 2017, Prague (Czech Republic). Poster.
- 211.S. Nahim-Granados, J.A. Sánchez-Pérez, M.I. Polo-López. **Solar photochemical processes: an alternative water disinfection treatment in fresh-cut industry.** 2nd summer school on Environmental Applications of Advanced Oxidation Processes of the European PhD School on AOPs and NEREUS COST Action ES1403 Summer School on Advanced Treatment Technologies and Contaminants of Emerging Concern, Porto (Portugal), 10-14 Julio 2017. Short oral communication (OP19), pag. 21 Abstract book.
- 212.N.F.F. Moreira, C. Narciso-da-Rocha, M.I. Polo-López, J.L. Faria, C.M. Manaia, P. Fernández-Ibáñez, O.C. Nunes, A.M.T. Silva. **Solar Advanced Oxidation Processes for the Treatment of Urban Wastewater: Chemical and Biological Response.** 2nd summer school on Environmental Applications of Advanced Oxidation Processes of the European PhD School on AOPs and NEREUS COST Action ES1403 Summer School on Advanced Treatment Technologies and Contaminants of Emerging Concern, Porto (Portugal), 10-14 Julio 2017. Short oral communication (OP26), pag. 23 Abstract book.
- 213.A. Ruíz-Delgado, L. Ponce Robles, I. Salmerón, I. Oller, M.I. Polo-López, S. Malato, A. Agüera. **Combination of advanced technologies for landfill leachate treatment and nutrient recovery.** 2nd summer school on Environmental Applications of Advanced Oxidation Processes of the European PhD School on AOPs and NEREUS COST Action ES1403 Summer School on Advanced Treatment Technologies and Contaminants of Emerging Concern, Porto (Portugal), 10-14 Julio 2017. Short oral communication (OP4), pag. 16 Abstract book.
- 214.N. F. F. Moreira, C. Narciso-da-Rocha, M. I. Polo-López, L. M. Pastrana-Martínez, J. L. Faria, C. M. Manaia, P. Fernández-Ibáñez, O. C. Nunes, A. M. T. Silva. **Pilot-scale H<sub>2</sub>O<sub>2</sub>-assisted heterogeneous photocatalytic treatment of effluents from urban wastewater treatment plants.** 13th European congress on catalysis (Europacat2017). Florencia (Italia) 27-31 Agosto 2017, Oral communication. Abstract book.
- 215.L. Ponce-Robles, A. Agüera, I. Oller, L. Pérez-Estrada, M.J. Trinidad-Lozano, F.J. Yuste, S. Malato. **Cork boiling wastewater treatment and reuse by combination of Advanced physicochemical technologies.** Cork in Science and Applications (CSA 2017). September 7th-8th, 2017, Aviero (Portugal). Oral Communication. Abstract book.

216. Y. Aguas-Mendoza, M. Hincapie, M.I. Polo-López, P. Fernández-Ibáñez. **Solar AOPs for disinfection and reuse of real urban wastewater for agriculture: Assessment of total coliforms, E.coli, salmonella and E.faecalis.** 3rd Iberoamerican Conference on Advanced Oxidation Technologies (III CIPOA) and 2nd Colombian Conference on Advanced Oxidation Processes (II CCPAOX). Guatapé (Colombia), 14-17 Noviembre 2017. Short Oral communication (N° 31). Abstract book
217. S. Malato. **Treatment of contaminants of emerging concern: applications by Solar AOPs and combination with other technologies.** 3rd Iberoam. Conf. on Adv. Oxid. Tech.. (III CIPOA). November 14th-17th, 2017, Guatapé (Colombia). Plenary lecture.
218. A.B. Martínez-Piernas, S. Nahim-Granados, M.I. Polo-López, S. Malato, S. Murgolo, G. Mascolo, P. Fernández-Ibáñez, A. Agüera. **Suspect-screening Strategy Applied To The Identification Of Transformation Products Of Carbamazepine In Lettuce And Soil Commodities.** 18th European Meeting on Environmental Chemistry (EMEC18), Porto (Portugal), 26 -29 Noviembre 2017. Oral communication. Pag. 145, Abstract book. Nereus Cost Action ES1403
219. M.I. Polo-López, M.I. Maldonado Rubio, L. Pérez-Estada, I. Oller Alberola, S. Malato Rodríguez. **Solar water purification and reuse: new photocatalytic materials and pilot plants experiences.** Photocatalytic and Superhydrophilic Surfaces Workshop PSS2017. Museum of Science and Industry, Manchester, Reino Unido. 7-8 Diciembre 2017. Oral invitada, pag. 12, Abstract book.
220. S. Malato Rodríguez. **Treatment of CECs by solar driven AOPs.** 2nd Summer School on Environmental Applications of Advanced Oxidation Processes and Training School on Advanced Treatment Technologies and Contaminants of Emerging Concern. Biblioteca Municipal Almeida Garrett, Porto, Portugal. July 10-14, 2017.
221. A.B. Martínez-Piernas, M.I. Polo-López, P. Fernandez-Ibañez, A. Agüera. **Development and application of analytical methods for the determination of contaminants of emerging concern in crops and soils irrigated with reclaimed water.** 13th SOLLAB doctoral colloquium. Alexanderplatz, Berlín (Germany), May 15-17 (2017), Oral, pag. 13. Abstract Book.
222. S. Nahim Granados, J.A. Sánchez Pérez, M.I. Polo-López. **Solar photochemical processes: an alternative water disinfection treatment in fresh-cut industry.** 13th SOLLAB doctoral colloquium. Alexanderplatz, Berlín (Germany), May 15-17 (2017), Oral, pag. 14. Abstract Book.
223. A. Ruíz-Delgado, L. Ponce Robles, I. Salmerón, I. Oller, M.I. Polo-López, S. Malato, A. Agüera. **Treatment Strategy for Landfill Leachate Solar Remediation and Reuse.** 13th SOLLAB doctoral colloquium. Alexanderplatz, Berlín (Germany), May 15-17 (2017), Oral, pag. 16. Abstract Book.
224. M.I. Polo-López, S. Nahim-Granados, M. Castro-Alfárez, J. Marugán, P. Fernández-Ibáñez. **Evaluation of solar water disinfection model for E. coli inactivation at real field conditions.** 5th European Conference on Environmental Applications of Advance Oxidation Processes. Prague (Czech Republic), June 25-29 (2017), Oral 41, pag. 103. Abstract Book.
225. S. Malato. Ponencia en **“Workshop & NIS colloquium. Keywords: environment, water, sustainable materials, circular economy. Towards 2018-20 European proposals”.** Università di Torino – Dipartimento di Chimica, 20-21 April 2017.
226. S. Malato, I. Oller, S. Miralles-Cuevas, M.I. Maldonado, L. Perez-Estrada. **Different applications of solar photo-Fenton process: economical approach and comparison with other AOPs.** 5th European Conf. on Environmental Appl. of Advanced Oxid. Proc. (EAAOP5), 25-29 June, 2017, Prague (Czech Rep.) Book of Abstracts Pag. 48. Keynote (KL6).
227. Leonidas Perez-Estrada. **Fingerprinting indigenous organic pollutants and its degradation products using UPLC-ESI-Ion-Mobility (T-wave)/TOF-MS.** Agilent Ion Mobility Spectrometry Seminar. Manchester (UK), January 12th 2017.
228. L. Ponce-Robles, A. Martinez, M.C. Campos, A. Agüera, I. Oller, S. Malato, L. Perez-Estrada. **Identification of transformation products and suspects during the treatment of municipal and industrial wastewaters using a traditional workflow and the Omics approach.** 2017 Water Contaminants Annual Forum (AFWC) and SCIEX User Group Meeting. Freising (Germany), April 24-26th 2017.
229. Leonidas Perez-Estrada. **Testing performance of the separation potential of the SelexIon (FAIMS) in a 6600 Triple-TOF/MS for untreated complex samples.** AB Sciex, Warrington (UK), May 24-26th 2017.
230. S. Nahim-Granados, M. Castro-Alfárez, J.A. Sánchez-Pérez, M.I. Polo-López. **Solar water treatments for fresh-cut produce industry: sanitation and reduction of the water consumption.** 5th European Conference on Environmental Applications of Advance Oxidation Processes EAAOP5. Prague, Czech Republic. 25-29 June, 2017. Book of Abstracts, pag. 353. Poster (P-10-3).
231. A. Ruíz-Delgado, L. Ponce Robles, I. Salmerón, I. Oller, M.I. Polo-López, S. Malato, A. Agüera. **Landfill leachate treatment and reuse for nutrient recovery by combination of advanced technologies.** 5th European Conference on Environmental Applications of Advance Oxidation Processes EAAOP5. Prague, Czech Republic. 25-29 June, 2017. Book of Abstracts, pag. 434. Poster (P-17-5).
232. Ruíz-Delgado, A., Miralles-Cuevas, S., Cornejo-Ponce, L., Malato, S., Oller, I. **EDDS as complexing agent for enhancing solar advanced oxidation processes to degrade micro-contaminants in natural water:**

- assessment of iron species and oxidant agents.** 5th European Conf. on Environmental Appl. of Advanced Oxid. Proc. (EAAOP5), 25-29 June, 2017, Prague (Czech Rep.) Book of Abstracts Pag. 419. Poster (P13-33).
233. P. Soriano-Molina, I. de la Olla, S. Malato, J. L. García Sánchez, J. A. Sánchez Pérez. **Kinetics of micropollutant removal by solar photo-Fenton with Fe(III)-EDDS at neutral pH.** 5th European Conf. on Environmental Appl. of Advanced Oxid. Proc. (EAAOP5), 25-29 June, 2017, Prague (Czech Rep.) Book of Abstracts Pag. 151. Poster (SPC II-11).
234. L. Ponce-Robles, A. Agüera, L. Pérez-Estrada, S. Malato, I. Oller. **Advanced analytical techniques applied to cork boiling wastewater treatment and reuse by using advanced oxidation processes.** 5th European Conf. on Environmental Appl. of Advanced Oxid. Proc. (EAAOP5), 25-29 June, 2017, Prague (Czech Rep.) Book of Abstracts Pag. 166. Poster (SPC IV-3).
235. 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.
236. 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.
237. 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.
238. M. Castro-Alfárez, 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.
239. 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.
240. S. Malato. Ponencia en **3rd Water, Membrane Environment and Energy Technology Expo (WM2E-2016).** BITEC, Bangkok, Thailand. 14-16 Sept. 2016.
241. Leonidas Perez-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. .
242. M.I. Polo-López, P. Fernández-Ibáñez, S. Malato, M. Castro-Alfárez, 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.
243. 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.
244. 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, 31<sup>st</sup> May 2016. Invited talk. Technological embassy to Malaysia and Thailand in environmental technologies organised by CDTI (Spanish Government) and PLANETA.
245. 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, 3<sup>rd</sup> June 2016. Invited talk. Technological embassy to Malaysia and Thailand in environmental technologies organised by CDTI (Spanish Government) and PLANETA.
246. 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.
247. A.B. Martínez-Piñas, I. Polo Lopez, P. Fernandez-Ibanez, S. Malato, A. Agüera. **Application of Quechers Extraction Coupled to LC-MS/MS Analysis for the Determination of Contaminants of Emerging Concern in Crops Irrigated by Recycled Water.** 44<sup>th</sup> 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.
248. 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.** 44<sup>th</sup> 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.
249. 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.** 44<sup>th</sup> 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.
250. 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.** 9<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster communication.
251. S. Papoutsakis, C. Pulgarin, I. Oller, S. Malato. **Synthetic vs natural iron-complexing agents for solar photo-Fenton at near-neutral pH: The potential of reused wastewaters.** 9<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-9, page 102 Abstract Book.
252. S. Miralles-Cuevas, D. Darowna, A. Wanag, S. Mozia, S. Malato, I. Oller. **Economical Assessment of UV/H<sub>2</sub>O<sub>2</sub>, UV/S<sub>2</sub>O<sub>8</sub><sup>2-</sup>, solar/Fe(II)/H<sub>2</sub>O<sub>2</sub> and solar/Fe(II)/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> Processes for the Removal of Microcontaminants.** 9<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-67, page 122 Abstract Book.
253. 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.** 9<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-84, page 127 Abstract Book.
254. 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.** 9<sup>th</sup> European meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Strasbourg, Francia, 13 - 17 June, 2016. Poster P-138, page 145 Abstract Book.
255. 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 13<sup>th</sup> IWA Leading Edge Conference on Water and Wastewater Technologies. Jerez de la Frontera, España. 13-16 June, 2016. Poster communication.
256. 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, 31<sup>th</sup> August-4<sup>th</sup> September, 2015.
257. 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. 9<sup>th</sup> September 2015.
258. P. Fernández-Ibáñez. **Drinking water disinfection using solar energy (possibilities in the UK).** 8<sup>th</sup> Conference of the UK Network on Potable Water Treatment & Supply. Invited lecture. Cranfield University, London, UK, 23 September 2015.
259. M.I. Polo-López, S. Malato, P. Fernández-Ibáñez, I. Oller, M.I. Maldonado. **Water purification by solar photocatalysis: techniques and technologies.** 1<sup>st</sup> International Water Nexus Conference 2015. Catalysis for water purification. Daegu, Korea, 28-30 October, 2015.
260. P. Fernández-Ibáñez, M. Castro-Alferez, M.I. Polo-López, J. Marugán. **Mechanistic model for bacteria photo-inactivation in water using solar radiation.** 4<sup>th</sup> European Conference on Environmental Applications of AOPs. Athens, Greece. 21-24 October 2015. Oral communication C1-12, Book of abstracts, pag. 93.
261. 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.** 4<sup>th</sup> European Conf. on Environmental Appl. of Advanced Oxid. Proc., 21-24 October 2015, Athens. Book of Abstracts B2-7. Oral.
262. 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. 3-6<sup>th</sup> November 2015. Book of abstracts PL011. Plenary Lecture.
263. 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. 3-6<sup>th</sup> November 2015. Book of abstracts OR054. Oral.
264. S. Malato. Ponencia en "Escuela de Formación en Procesos de Oxidación Avanzada". Univ. de Caldas, Manizales, Colombia. 21-24 septiembre de 2015.

- 265.S. Malato. Ponencia en seminario “**SOS OZAMA**”. Pontificia Universidad Católica Madre y Maestra (PUCMM), Rep. Dominicana, 14 de octubre de 2015.
- 266.S. Malato. 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.
- 267.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 9<sup>th</sup> to 11<sup>th</sup>, 2015. *15 hours*.
- 268.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.
- 269.S. Malato. Ponencia en **Nuevos Conceptos del Uso de la radiación solar para la descontaminación de aguas**. Univ. del Valle, Cali, Colombia. 1-4<sup>th</sup> Diciembre, 2015.
- 270.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.
- 271.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 TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub> under simulated and natural solar conditions**. 4<sup>th</sup> European Conference on Environmental Applications of AOPs. Athens, Greece. 21-24 October 2015. Poster communication PP3-31, pg 211.
- 272.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**. 4<sup>th</sup> European Conference on Environmental Applications of AOPs. Athens, Greece. 21-24 October 2015. Poster communication PP3-29, pg 210.
273. 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**. 4<sup>th</sup> European Conf. on Environmental Appl. of Advanced Oxid. Proc., 21-24 October 2015, Athens. Book of Abstracts PP2-49. Poster.
- 274.Malato, P. Fernández-Ibáñez, I. Oller, M.I. Polo-López, M.I. Maldonado. **Water and Wastewater Treatment: Applications with Solar Photocatalysis**. 3<sup>rd</sup> Water Research Conference. Shenzhen, China, 11<sup>th</sup> – 14<sup>th</sup> January, 2015. Invited Lecture.
- 275.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, 28<sup>th</sup>-31<sup>th</sup> January, 2015. Oral communication 23, Session 8: Membrane bioreactor, Reuse and Zero Discharge.
- 276.M. Castro-Alfárez, M. I. Polo-López, P. Fernández-Ibáñez. **Solar Disinfection of Water: treatment decay model (SODIWA)**. 11<sup>th</sup> SolLab Doctoral Colloquium on Solar Concentrating Technologies. Melchsee-Frutt, Switzerland, 2<sup>nd</sup>-4<sup>th</sup> March, 2015. Oral communication 42.
- 277.G. Ferro, M.I. Polo-López, A.B. Martínez-Piernas, 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/H<sub>2</sub>O<sub>2</sub>**. Environmental protection in a multi-stressed world: challenges for science, industry and regulators. SETAC Europe 25<sup>th</sup> Annual Meeting. Barcelona, Catalonia, Spain, 3<sup>rd</sup> -7<sup>th</sup> May, 2015. Oral communication 663, pag. 176.
- 278.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 25<sup>th</sup> Annual Meeting. Barcelona, Catalonia, Spain, 3<sup>rd</sup> -7<sup>th</sup> May, 2015. Platform communication 423, pag. 111.
- 279.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) 29<sup>th</sup>-31<sup>st</sup> January, 2015. Oral communication. Session 9: Industrial & Hazardous Management.
- 280.I. Oller & S. Malato. **Wastewater Treatment by Solar driven AOPs: design and applications**. Oral communication in 1<sup>st</sup> Summer School on Environmental Applications of Advanced Oxidation Processes. University of Salerno, Department of Civil Engineering. Fisciano (Italy), 15<sup>th</sup>-16<sup>th</sup> June, 2015.
- 281.I. Oller. **Integrated Advanced Technologies for the remediation of Industrial wastewaters: case studies**. Oral communication in 1<sup>st</sup> Summer School on Environmental Applications of Advanced Oxidation Processes. University of Salerno, Department of Civil Engineering. Fisciano (Italy), 15<sup>th</sup>-16<sup>th</sup> June, 2015.

- 282.S. Malato. **Photocatalysis for water detoxification.** Harbin Institute of Technology, Campus Shenzhen University, China. January 13th, 2015. Invited Lecture
- 283.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.
- 284.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.
- 285.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.
- 286.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.
- 287.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.
- 288.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.
- 289.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.
- 290.Fernández-Ibáñez P. **SODIS Enhancement Technologies: Pilot testing for developing countries.** UNESCO-IHE, Institute for Water Education (Delf, The Netherlands). One-day symposium on UV disinfection in developing countries, 6th November 2014. Invited lecture.
- 291.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.
- 292.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 (O<sub>3</sub>, O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub>): Toxicity and biodegradability assessment.** International Congress on Water, Waste and Energy Management (EWWM). Oporto (Portugal), 15-18 Julio, 2014. Oral.
- 293.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.
- 294.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.
- 295.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.
- 296.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.
- 297.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.

298. 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.
299. 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.
300. I. Carra, J. A. Sánchez Pérez, S. Malato, O. Autin, B. Jefferson, P. Jarvis. **Acetamiprid 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.
301. 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.
302. 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.
303. 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.
304. Pilar Fernández-Ibáñez. **Solar Disinfection of Water using Nanomaterials.** NIBEC, School of Engineering, University of Ulster (UK), 16th April 2014. Invited lecture.
305. R.A. Timmers, M.I. Polo-López, P. Fernández-Ibáñez, J. Marugan. **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.
306. 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.
307. 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.
308. I. Oller, E. De Torres-Socías, M. J. Trinidad-Lozano, F. J. Yuste-Córdoba, S. Malato. **Comparison of ozonation (O<sub>3</sub> and O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub>) 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.
309. 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.
310. 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.
311. 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.

312. 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.
313. Sixto Malato. **solar photocatalysis in water treatment**. Invited Lecture. In ChemH2O 2013, Leading edge conference on sustainable water management. Madrid, 1-2 October, 2013.
314. 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.
315. 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.
316. 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.
317. 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.
318. 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.
319. 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.
320. 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.
321. 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.
322. 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.
323. 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.
324. 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.
325. 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.
326. M. Jiménez, M. Ignacio Maldonado, S. Malato, A. Hernández-Ramírez. **Photocatalytic degradation of pesticides mixture found in citrus processing industry wastewater using TiO<sub>2</sub> 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.
- 327.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.
- 328.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.
- 329.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.
- 330.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.
- 331.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.
- 332.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.
- 333.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.
- 334.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.
- 335.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
- 336.D. Venieri, E. Chatzisyneon, 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
- 337.E. Ortega-Gómez, B. Esteban García, M.M. Ballesteros Martín, P. Fernández Ibañez, 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.
- 338.L. Maya-Treviño; A. Hernández-Ramírez; J. Guzmán-Mar; L. Hinojosa-Reyes; M. I. Maldonado. **Photocatalytic activity of the ZnO-Fe<sup>0</sup> 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.
- 339.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
- 340.E. Saggioro; A. Oliveira; T. Pavesi; M. Jiménez-Tototzintle; E. Conçalves, M. I. Maldonado; J. Moreira. **Efficiency of photocatalytic degradation of bisphenol A in batch and CPC reactors mediated TiO<sub>2</sub>**

- 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.
341. 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.
342. 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.
343. E. De Torres-Socías, I. Oller, S. Malato. **Cork boiling wastewater treatment at pilot plant scale: comparison of solar photo-Fenton and ozone (O<sub>3</sub>, O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub> 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.
344. 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<sup>-1</sup> 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.
345. L. Prieto-Rodríguez, P. Fernández, S. Miralles-Cuevas, I. Oller, A. Agüera, S. Malato. **Optimization of mild heterogeneous photocatalysis with low concentration of TiO<sub>2</sub> 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.
346. I. García-Fernandez, M.I. Polo-Lopez, I. Martin-Cara, M. Jiménez-Tototzintle, P. Fernández-Ibañez. **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.
347. Sixto Malato Ponencia invitada en “**Heterogeneous catalysis: from electronic processes to photocatalysis**”. IRCELYON-CNRS. Amphithéâtre CNRS, Villeurbanne, France. 24 Enero, 2013.
348. 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.
349. 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.
350. 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.
351. P. Fernández-Ibañez, 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.
352. N. Miranda-García, S. Suarez, M.I. Maldonado, S. Malato, B. Sánchez. **Regeneration strategies for TiO<sub>2</sub> 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.
353. Invited keynote lecture: P. Fernández-Ibañez, **Solar Water Treatment.** Photochemistry Early Career Researchers Meeting. 15th-16th May 2013, Belfast (UK), Royal Society of Chemistry and University of Ulster.
354. M. Jiménez-Tototzintle; S. Malato; E. M. Rodríguez; A. Hernández-Ramírez, M. I. Maldonado. **Supported-TiO<sub>2</sub> 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.
355. M. Castro-Alferez, 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.
356. P. Fernández-Ibáñez. Invited lecture: **Solar technologies for wastewater treatment**, at the Faculty of Sciences of the Dublin City University (DCU), 14th May 2013.
357. 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.
358. 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.
359. P. Fernández-Ibáñez, 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.
360. 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).
361. 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.
362. 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.
363. M. Inmaculada Polo-López, Sixto Malato-Rodríguez, Pilar Fernández-Ibáñez. **Inactivation of Pathogens in Water 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.
364. 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.
365. 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.
366. 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).
367. 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.
368. M.I. Polo-López, I. García-Fernandez, I. Oller, P. Fernández-Ibáñez, T. Velegráki, 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.
369. 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 TiO<sub>2</sub> Nanomaterials With Controlled Morphology -- Formic Acid Effect** (Poster). 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA7), Oporto, 17-20 junio 2012.
370. P. Fernández-Ibáñez, M.I. Polo-López, I. García-Fernandez, I. Oller, **Phytophthora capsici Inactivation using Photo-Fenton, H<sub>2</sub>O<sub>2</sub> and Fe<sup>2+</sup>/Fe<sup>3+</sup> 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.
- 371.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 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. 395-397. Poster.
- 372.E. I. Magee, J.A. Byrne, P. Fernández-Ibáñez, J.W.J. Hamilton, P.S.M. Dunlop. **Photocatalytic activity of Visible Light Active TiO<sub>2</sub> 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.
- 373.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.
- 374.L. Maya; A. Hernández; J. Guzman; L. Hinojosa; M. I. Maldonado. **Comparative Study of the Photocatalytic Activity of ZnO-Fe<sub>2</sub>O<sub>3</sub> and ZnO-Fe<sub>0</sub> 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.
- 375.J.A. Sanchez-Perez, E. Ortega, B. Esteban, P. Fernandez-Ibáñez, M.M. Ballesteros. **Enterococcus faecalis complete disinfection by solar photo-Fenton 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. 481-483. Poster.
- 376.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.
- 377.Carra, L. Santos-Juanes, B. Esteban García, S. Malato, J.A. Sánchez Pérez. **Iron Additions as a Strategy to Deal with Recalcitrant Pollutants: a Modified photo-Fenton Process at Natural pH.** 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. 182-184. Poster.
- 378.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.
- 379.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 TiO<sub>2</sub>.** 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.
- 380.M.S. Lucas, J.A. Peres, C. Amor, L. Prieto-Rodríguez, M.I. Maldonado, S. Malato. **Pulp Mill Wastewater Tertiary Treatment by Fenton and Solar Photo-Fenton Processes.** 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. 378-380. Poster.
- 381.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.
382. Oller, L. Prieto-Rodríguez, A. Agüera, S. Malato. **Solar Photo-Fenton Optimization for the Treatment of MWTP Effluents Containing Emerging Contaminants.** 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. 468-470. Poster.
383. 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.
384. M.I. Maldonado, L. Prieto-Rodríguez, N. Klammerth, I. Oller, A. Agüera, S. Malato. **Application of Solar AOPs and Ozonation as Tertiary Treatments for ECs Remediation Contained in Real MWTP 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. 500-502. Poster.
385. M. Jimenez, M. I. Maldonado, S. Malato, A. Hernandez-Ramírez. **Degradation of Acetaminophen Using TiO<sub>2</sub> Supported on Glass Spheres Irradiated in a CPC Solar Pilot Plant.** 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. 503-505. Poster.
386. L. Prieto, G. del Moro, G. Mascolo, I. Oller, S. Malato. **Raw landfill leachate treatment by electrochemical oxidation and combined with a granular biofilter process.** 6th IWA Specialist Conf on Oxidation technologies for water and wastewater treatment. Goslar, Germany, 7th -9th May 2012. Book of abstracts PC 81, pp. 61. Poster.
387. F. Bichai, M.I. Polo-López, P. Fernández-Ibáñez. **Solar disinfection for lowering the microbial risk in wastewater reuse for irrigation.** Oral invitada. International Conference on Recycling and Reuse (R&R2012), Istanbul (Turkey), June 4-6, 2012.
388. S. Malato, M.I. Maldonado, P. Fernández-Ibáñez, I. Oller. **Aplicación de la radiación solar a la descontaminación de aguas.** 1<sup>er</sup> Cong. Int de Ciencia y Tecnología Ambiental. Mar del Plata, Argentina. 28 Mayo a 1 de Junio 2012. Conf. Plenaria. Libro de resúmenes pp. 16. Oral Plenaria.
389. S. Malato, M.I. Maldonado, I. Oller, P. Fernández-Ibáñez. **Solar AOPs for Waste Water Reclamation.** 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. 5-8. Plenary Lecture.
390. S. Malato Conferencia. **Descontaminación y regeneración de agua mediante energía solar: desarrollo y aplicaciones.** Univ. Autónoma de Barcelona. 21 de Marzo de 2012.
391. S. Malato Conferencia y Mesa Redonda en “**Cantabria Campus Nobel**”. Cantabria Campus Internacional. Palacio de la Magdalena, Santander. 12 Junio 2012.
392. Ignacio Sirés Sadornil; Ana Zapata; Manuel Ignacio Maldonado; Sixto Malato; Enric Brillas. **“A pilot plant for the decontamination of water by the solar photoelectro-Fenton process: The case of a steroid hormone”.** The 62<sup>nd</sup> Annual Meeting of the International Society of Electrochemistry. Oral Invited. 11-16 September 2011, Niigata, Japan.
393. S. Malato, P. Fernández-Ibáñez, M.I. Maldonado, I. Oller, A. Zapata. **Decontamination and Disinfection of Water by Solar Photocatalysis for Water Reclamation and Reuse.** 8<sup>th</sup> IWA Int. Conf. on Water Reclamation & Reuse. Barcelona, 26-29 Sept 2011. Book of abstract, pp. 85-86. Oral.
394. L. Prieto, I. Oller, N. Klammerth, A. Zapata, A. Agüera, S. Malato. **Application of Different AOP as Tertiary Treatment for MWTP Effluents Containing Emerging Contaminants.** 8<sup>th</sup> IWA Int. Conf. on Water Reclamation & Reuse. Barcelona, 26-29 Sept 2011. Book of abstract, pp. 85-86. Oral.
395. García-Fernández I., Polo-López M.I., Oller, P. Fernández-Ibáñez. **Photocatalytic disinfection of Fusarium in water using solar light.** International Workshop on Advances in Disinfection Technologies, National Environmental Engineering Research Institute, Nagpur, India, February 9th 2011. Poster.

396. Polo-López M.I., García-Fernández I., Oller, P. Fernández-Ibáñez. **Inactivation of chlamydo spores by H<sub>2</sub>O<sub>2</sub>/UV-visible light using CPC reactor.** International Workshop on Advances in Disinfection Technologies, National Environmental Engineering Research Institute, Nagpur, India, February 9th 2011. Poster.
397. N. Klammerth, S. Malato, P. Fernández-Ibáñez, A. Agüera. **The use of modified photo-Fenton as a tertiary treatment for the disinfection of wastewater treatment plant effluents.** International Workshop on Advances in Disinfection Technologies, National Environmental Engineering Research Institute, Nagpur, India, February 9th 2011. Poster.
398. S. Helali, M.I. Polo-López, P. Fernández-Ibáñez, B. Ohtani, F. Amano, S. Pigeot-Remy, S. Malato, C. Guillard. **Effect of different types of suspended catalyst on Escherichia coli photocatalytic inactivation under natural sunlight.** Poster. IWA Water & Industry Conference 2011. Valladolid, Spain. 1-4 May 2011.
399. C. Adan, A. Bahamonde, I. Oller, S. Malato, A. Martínez-Arias. **Solar light assisted photodegradation of phenol with hydrogen peroxide over iron-doped titania catalysts.** Int. Conf. on Structure performance relationships in functional materials: catalysis, electrochemistry and surfactants. Fuengirola, Spain. 17th - 20th May, 2011. Book of abstracts, pp173-175. Poster.
400. J.A. Byrne, P.S.M. Dunlop, D. Alrousan, P. Fernández-Ibáñez. **Solar photocatalytic disinfection of water for developing countries: Photocatalytic enhancement.** communication in the International Workshop on Advances in Disinfection Technologies, National Environmental Engineering Research Institute, Nagpur, India, February 9th 2011. Oral.
401. P. Fernández-Ibáñez. **Applications of solar radiation to water disinfection.** International Workshop on Advances in Disinfection Technologies, National Environmental Engineering Research Institute, Nagpur, India, February 9th 2011. Oral.
402. M.I. Polo, P. Fernández, I. García. **Solar photocatalytic water disinfection. Case study of Fusarium spores.** Oral. 3rd International Congress on Wastewater in Small Communities, Seville, Spain, April 25th-28th 2011.
403. Ana Zapata, Carla Sirtori, Isabel Oller and Sixto Malato. **Industrial non-biodegradable wastewater treatment by integrating solar advanced oxidation processes and biotreatment.** Water and Industry 2011 (IWA Specialist Conference). Valladolid, Spain. 1st -4th May 2011. Oral Presentation. Book of abstracts, p. 43.
404. S. Malato. **Removal of emerging contaminants from UWWTPs by solar driven AOPs.** Emerging contaminants and microorganisms into the environment: contamination pathways, health effects and control. Univ. of Salerno, Italy. June 24th 2011. Oral Presentation.
405. P. Fernández-Ibáñez; M.I. Polo-López, I. García-Fernández. **Pilot scale solar photocatalytic disinfection of water.** Oral communication in the 15th International Conference on TiO<sub>2</sub> Photocatalysis: Fundamentals and Applications (TiO<sub>2</sub>-15). San Diego, California, USA, November 15th-18th 2010.
406. S. Malato. **Advanced Technologies based on solar energy for wastewater treatment.** Protection and restoration of the environment X (Pre 10). Corfu, Greece. July 5th -10th, 2010. Plenary Lecture. Book of abstracts, 48-49.
407. Miranda-García, N.; Maldonado, M. I., Coronado, J. M.; and Sánchez, B. **Degradation of emerging contaminants at low concentration by solar AOPs in a pilot plant.** Third International Conference on Semiconductor Photochemistry (SP3). University of Strathclyde, Glasgow, Scotland 12-16 April 2010. Poster Presentation P3.
408. N. Klammerth, M.I. Maldonado, A. Agüera, A.R. Fernández-Alba, S. Malato. **Application Of Modified Mild Photo-Fenton As A Tertiary Treatment For Municipal Wastewater. Poster presentation.** Proceedings of the 6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Praga, June 13th 16th, 2010. Josef Krysa (Ed.). ICT Prague Press, Praga. ISBN 978-80-7080-750-7. pp. 268-269.
409. M. Jiménez, I. Oller, M.I. Maldonado, S. Malato, A. Hernández-Ramírez, J.M. Peralta-Hernández, A. Zapata. **Solar Photo-Fenton Degradation of a Mixture Containing Partially Aqueous Soluble Pesticides. Evaluation of Ecotoxicity and Biodegradability.** Poster presentation. Proceedings of the 6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Praga, June 13th 16th, 2010. Josef Krysa (Ed.). ICT Prague Press, Praga. ISBN 978-80-7080-750-7. pp. 462-463.

- 410.C. Sirtori, A. Zapata, S. Malato, A. Agüera. **Evaluation of the Formation of Chlorinated Intermediates During Photo-Fenton Treatment of Saline Wastewaters.** Poster presentation. Proceedings of the 6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Praga, June 13th 16th , 2010. Josef Krysa (Ed.). ICT Prague Press, Praga. ISBN 978-80-7080-750-7. pp. 449-450.
- 411.L. Prieto-Rodríguez, I. Oller, A. Agüera, S. Malato. **Hydrogen Peroxide automatic control based on dissolved oxygen concentration during solar photo-Fenton process.** Poster presentation. Proceedings of the 6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Praga, June 13th 16th , 2010. Josef Krysa (Ed.). ICT Prague Press, Praga. ISBN 978-80-7080-750-7. pp. 464-465.
- 412.Micó, M. M.; Zapata, A.; Maldonado, M. I.; Sans, C.; Bacardit, J. **Solar photo-Fenton applied to pesticide removal on Advanced Greenhouses waters.** Poster presentation. Proceedings of the 6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Praga, June 13th 16th , 2010. Josef Krysa (Ed.). ICT Prague Press, Praga. ISBN 978-80-7080-750-7. pp. 453-454.
- 413.Ballesteros Martín, M. M.; Garrido, L.; Ortega Gómez, E.; Cabrera Reina, A.; Sánchez, O.; Más, J.; and M. I. Maldonado. **A reliable process for pesticide degradation: Photo-Fenton and membrane birreactor combination.** VII ANQUE International Congress. Integral Water Cycle: Present and Future “A Shared Commitment”. Oviedo (Spain), 13-16 June 2010. Poster Presentation (T8-030).
- 414.Sánchez, O.; Garrido, L.; Forn, I.; Massana, R., Maldonado, M. I.; Más, J. **Diversity of activated sludge from a seawater-processing wastewater treatment plant: assessment through clone libraries, fingerprinting and fish.** VII ANQUE International Congress. Integral Water Cycle: Present and Future “A Shared Commitment”. Oviedo (Spain), 13-16 June 2010. Poster Presentation (T5-026).
- 415.M.I. Polo-Lopez, I. García-Fernández, I. Oller, P. Fernández-Ibáñez. **Chlamydo spores of Fusarium equieti inactivation by homogeneous photocatalysis using CPC reactor.** Poster in 6th European Meeting on Solar Chemistry and Photocatalysis. Environmental Applications. Praga, Czech Republic, June 13th-16th 2010.
- 416.M. Fontán-Sanz, H. Gomez-Couso, P. Fernández-Ibáñez, E. Ares-Mazas. **Disinfection of drinking water in developing countries using a 25l-batch CPC solar reactor.** Poster in 7<sup>th</sup> ANQUE International Congress. Oviedo, Spain, June 13th-16th 2010.
- 417.Sixto Malato. **Biorecalcitrant industrial wastewater treatment by integrating advanced oxidation and biological processes.** Innovative and sustainable technologies for urban and industrial wastewater treatment. January 27th, 2010. Gent, Belgium. Oral Presentation.
- 418.M.M. Ballesteros, J.L. Casass, I. Oller, S. Malato, J.A. Sánchez. **Pseudomonas putida as a new test for monitoring biodegradability enhancement during AOP treatment of recalcitrant toxic aqueous solutions.** VII ANQUE International Congress. 13th 16th June 2010. Oviedo, Spain. Oral comm.
- 419.A. Zapata, I. Oller, C.Sirtori, A. Rodríguez, A. López, S. Malato. **Combined Solar Photo-Fenton/Biological System for Decontamination of Real Pesticide-Contaminated Water at Industrial Scale.** Oral presentation. Proceedings of the 6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Praga, June 13th 16th , 2010. Josef Krysa (Ed.). ICT Prague Press, Praga. ISBN 978-80-7080-750-7. pp. 205-206.
- 420.Miranda-García, N.; Maldonado, M. I., Coronado, J. M.; and Sánchez, B. **Degradation of emerging contaminants at low concentration by solar AOPs in a pilot plant.** Third International Conference on Semiconductor Photochemistry (SP3). University of Strathclyde, Glasgow, Scotland 12-16 April 2010. Oral Presentation PG6.
- 421.Miranda-García, N.; Maldonado, M. I., Coronado, J. M.; Suárez, S. and Sánchez, B. **Photocatalytic degradation of emerging contaminants at low concentration using immobilized TiO<sub>2</sub> in a solar pilot plant.** VII ANQUE International Congress. Integral Water Cycle: Present and Future “A Shared Commitment”. Oviedo (Spain), 13-16 June 2010. Oral Presentation (S-EMER-009).
- 422.M.I. Polo-Lopez, I. García-Fernández, P. Fernández-Ibáñez. **Solar Photocatalytic treatments applied to water disinfection.** Oral comm. in 7th ANQUE International Congress. Oviedo, Spain, June 13th-16th 2010.
- 423.Trovó A.G., Nogueira R.F.P., Agüera A, Fernández-Alba A.R., Malato S. **Identification and toxicity of paracetamol intermediates during photo-Fenton process using different iron species.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Poster presentation. Proceedings ISBN 978-9963-689-09-05.

424. Sirtori C., Zapata A., Gernjak W., Malato S., Agüera A. **Analytical assessment and fate of nalidixic acid and its main transformation products during the treatment of an industrial effluent by coupling solar photo-Fenton and biooxidation.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Poster presentation. Proceedings ISBN 978-9963-689-09-05.
425. Polo-Lopez M.I., García-Fernández I., Salgado-Tránsito I., Oller I., Fernández-Ibáñez P., **Disinfection of water contaminated with agricultural pathogens using TiO<sub>2</sub> photocatalysis in a solar pilot plant.** Poster. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
426. Gomez-Couso H., Fontán-Sainz M., Fernández-Alonso J., Navntoft C., Fernández-Ibáñez P., Ares-Mazas E. **Advances in SODIS against Cryptosporidium using CPC mirrors over standard PET bottles.** Poster. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
427. Dunlop P.S.M., Alrousan D.M.A., Polo-Lopez M.I., Fernández-Ibáñez P., Byrne J.A. Enhancing solar water disinfection (SODIS) for application in developing regions. Poster. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
428. Ubomba-Jaswa E., Navntoft C., Polo-Lopez M.I., McGuigan K.G., Fernández-Ibáñez P. **Design and microbiological performance of a solar disinfection unit appropriate for household water treatment.** Poster. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
429. García-Fernández I., Polo-Lopez M.I., Oller I., Fernández-Ibáñez P., Phytopathogen (*Fusarium solani*) inactivation in water through solar Photo-Fenton. Poster. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009. N. Miranda-García; Maldonado, M. I.; J. M. Coronado; B. Sánchez; **Degradation of emerging contaminants at low concentration by solar AOPs in a pilot plant.** 2nd European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-2). Nicosia (Cyprus) 9-11 September 2009. (N-17 Oral Communication)
430. Maria de la Menta Ballesteros Martin, Jose Antonio Sánchez Pérez, Jose Luis García Sánchez, José Luis Casas López, Sixto Malato Rodríguez. **C-Removal kinetics in sequencing batch reactors for degradation of pesticide mixtures pre-treated by photo-Fenton.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.
431. José Luis Casas López, Jose Antonio Sánchez Pérez, Maria de la Menta Ballesteros Martin, Jose Luis García Sánchez, Sixto Malato Rodríguez. **Integration of solar photocatalysis and membrane bioreactor for pesticide degradation.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.
432. Malato S., Maldonado M.I., Fernández-Ibáñez P. and Oller I. Solar photocatalysis: large scale, solar-driven applications. 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Plenary lecture. Proceedings ISBN 978-9963-689-09-05.
433. Trovó A.G., Nogueira R.F.P., Agüera A., Fernández-Alba A.R., Malato S. **Degradation of the antibiotic amoxicillin by photo-Fenton process – chemical and toxicological assessment.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.
434. Sirtori C., Gernjak W., Malato S., Agüera A. **Effect of the water composition in the kinetic and photodegradation pathway of trimethoprim by various solar processes.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.
435. Vilar V., Maldonado M., Oller I., Malato S., Boaventura R. **Solar treatment of cork boiling wastewater in a pilot plant with CPCs.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.

436. Zapata A., Oller I., Sirtori C., Maldonado M.I., Sánchez-Pérez J.A., Malato S. **Decontamination of water containing commercial pesticides by combining solar photo-Fenton and biological treatment at pre-industrial scale.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.
437. Klammerth N., Malato S., Rizzo L., Agüera A., Maldonado M. **Application of mild solar photo-Fenton as a tertiary treatment for the removal of emerging contaminants in urban wastewater.** 2nd European Conference on Environmental Applications of advanced oxidation processes (EAAOP-2). Nicosia, Chipre, 9-11 Sept. 2009. Oral presentation. Proceedings ISBN 978-9963-689-09-05.
438. Sixto Malato Rodríguez. **Advanced technologies for wastewater treatment. Innovative processes and practices for wastewater treatment and re-use in the Mediterranean region.** 8-9 October 2009, Girona, Spain. Oral presentation. Book of abstracts, 18-22.
439. Sixto Malato. **Biorecalcitrant industrial wastewater treatment by integrating advanced oxidation and biological processes. Innovative and sustainable technologies for urban and industrial wastewater treatment.** January 27th, 2010. Gent, Belgium. Oral Presentation.
440. M.I. Polo-López, I. García-Fernández, I. Oller, P. Fernández-Ibáñez, I. Salgado Tránsito **Fusarium sp Disinfection by Solar Photocatalysis with TiO<sub>2</sub> Slurry in a Compound Parabolic Collector (CPC) Reactor.** Com. Oral. 2nd Conference on Environmental Applications of Advanced Oxidation Processes. Nicosia, Cyprus, 9-11 Sept. 2009. Proceedings book ISBN 978-9963-689-09-5.
441. Ubomba-Jaswa E., Navntoft C., Fernández-Ibáñez P., McGuigan K.G. **Investigation of Microbial Inactivation Efficiency of a Water Solar Disinfection (SODIS) System for Household Use.** Com. Oral. 2nd Conference on Environmental Applications of Advanced Oxidation Processes. Nicosia, Cyprus, 9-11 Sept. 2009. Proceedings book ISBN 978-9963-689-09-5.
442. Polo-Lopez M.I., Fernández-Ibáñez P., Ubomba-Jaswa E., McGuigan K.G., Navntoft C., Dunlop P.S.M., Schmidt M., Byrne J.A. **Application of the "uninterrupted lethal UVA dose" concept to scaling-up solar water disinfection.** Oral Communication. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
443. Ubomba-Jaswa E., Fernández-Ibáñez P., McGuigan K.G. **Evaluating the genotoxicity of solar disinfected water in PET bottles using the Salmonella Ames-fluctuation test.** Oral Communication. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
444. Gómez-Couso H., Fontán-Sainz M., Fernández-Ibáñez P., Ares-Mazas E. **SODIS and Cryptosporidium: optical and thermal effects on the oocyst viability under natural sunlight.** Oral Communication. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
445. Byrne J.A., Alrousan D.M.A., Dunlop P.S.M., Polo-Lopez M.I., Fernández-Ibáñez P., **Pilot scale solar photocatalytic disinfection of water.** Oral communication. International Research Colloquium of the Network to Promote Household Water Treatment and Safe Storage (HWTS). Dublin, Ireland, 21-23 Sept. 2009.
446. Fernández-Ibáñez P., Polo-Lopez M.I., García-Fernández I. **Disinfection of water by advanced Technologies using solar energy.** Oral Communications. INNOVA-MED Conference on Innovative processes and practices for wastewater treatment and re-use in the Mediterranean region. Girona, Spain, 8-9 Oct. 2009.
447. M.I. Polo-López, E. Ubomba-Jaswa, C. Navntoft, K.G. McGuigan, P. Fernández-Ibáñez. **"Solar Disinfection of Water Contaminated with E. coli in a Low Cost Compound Parabolic Collector (CPC) reactor "** Com. Poster. 15th Health Related Water Microbiology Symposium. Naxos, Greece, 31May-5June 2009.
448. H. Gómez-Couso, M. Fontán-Sainz, C. Sichel, P. Fernández-Ibáñez, E. Ares-Mazas. **"Efficacy of Solar Disinfection (SODIS) of Turbid Waters Experimentally Contaminated with Cryptosporidium parvum Oocysts Under real Field Conditions"** Com. Poster. 15th Health Related Water Microbiology Symposium. Naxos, Greece, 31May-5June 2009.
449. H. Gómez-Couso, M. Fontán-Sainz, J. Fernández-Alonso, C. Navntoft, P. Fernández-Ibáñez, E. Ares-Mazas. **"Use of CPC Mirrors to Enhance SODIS Procedures Against Cryptosporidium parvum Oocysts "** Com. Poster. 15th Health Related Water Microbiology Symposium. Naxos, Greece, 31May-5June 2009.

- 450.P.S.M. Dunlop, D.M. Alrousan, M.I. Polo-López, P. Fernández-Ibáñez, J.A. Byrne. **"Enhancing Solar Disinfection of Water for Application in Developing Regions "** Com. Oral. 15th Health Related Water Microbiology Symposium. Naxos, Greece, 31May-5June 2009.
- 451.E. Ubomba-Jaswa, M.I. Polo-López, P. Fernández-Ibáñez, K.G. McGuigan. **"Effect of Turbidity on Solar Disinfection of E. coli K12 Contaminates Water in Polyethylene Terephthalate (PET) bottles"** Com. Oral. 15th Health Related Water Microbiology Symposium. Naxos, Greece, 31May-5June 2009.
- 452.M.I. Polo-López, I. García-Fernández, M. de Cara, J.C. Tello, P. Fernández-Ibáñez. **"Photocatalytic disinfection of Water Contaminated with Fusarium solani in a Compound Parabolic Collector (CPC) reactor "** Com. Oral. 15th Health Related Water Microbiology Symposium. Naxos, Greece, 31May-5June 2009.
- 453.Lucas M.S., Mosteo R., Maldonado M.I., Malato S., Peres J.A. **"Photochemical treatment of a winery wastewater in a solar pilot plant". 5th International specialized conference on sustainable viticulture: winery waste and ecologic impacts in management.** Trento and Verona. Italy, 30th March – 3rd April 2009. Proceedings book ISBN 978-88-8443-284-1, pp. 109-115 (Oral communication).
- 454.Lucas M.S., Mosteo R., Maldonado M.I., Malato S., Peres J.A. **"Solar treatment and detoxification of a winery wastewater in a CPC reactor"**. 1st International Edition - "Photocatalytic Products and Technologies Conference" PPTC'09. Guimarães, Portugal, 11th and 13th May 2009 (Oral communication).
- 455.Jose Antonio Sánchez Pérez, Maria de la Menta Ballesteros Martín, Sixto Malato Rodríguez, José Luis Casas López, Jose Luis García Sánchez. **A two-stage scheme for pesticide degradation. Integration of photocatalysis and biological oxidation.** 30th Inter. Biotechnology Symp. and Exhibition. Oct 12-17, 2008. Dalian, China. J. Biotech. 136S (2008), pp. S674-657.
- 456.C. Sichel, P. Fernández-Ibáñez, J. Blanco, I. Polo-López, M. de Cara, J.C. Tello, I. Salgado-Tránsito. **"Photocatalytic disinfection of water contaminated with Fusarium solani using TiO<sub>2</sub> slurry in solar CPC photo-reactors"** Com. Poster. P34. 5th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 5). Palermo, Italy, Oct. 04-08 2008.
- 457.P. Fernández-Ibáñez, E. Ubomba-Jaswa, I. Polo-López, C. Navntoft, K.G. McGuigan. **"Inactivation of Escherichia coli K-12 Contaminated Water Using Solar Disinfection (SODIS) Under Different Conditions"** Com. Poster. P10. 5th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 5). Palermo, Italy, Oct. 04-08 2008.
- 458.M. M. Ballesteros, J.A. Sánchez Pérez, S. Malato Rodríguez, J.L. Casas López, Nuria Sainz Herrán. **Coupled solar photo-Fenton and biological treatment for the degradation of a mixture of five commercial pesticides.** 4th Int. meeting on biotechnology (BIOTEC 2008). 17-19 Sept. 2008, Granada, Spain. Poster P-AM1. Book of Abstracts, p 155.
- 459.M.M. Ballesteros Martín, J.A. Sánchez Pérez, S. Malato Rodríguez, J.L. Casas López, Nuria Sainz Herrán. **Pesticide degradation: using pseudomonas putida to determine minimum photoFenton treatment time coupling with a posterior biotreatment.** 2nd International Conference on Renewable Energies and Water Technologies (CIERTA 2008). 2-3 Oct. 2008. Roquetas de Mar, Almería, Spain. Poster Communication ID 19.
- 460.M.M. Ballesteros Martín, J.A. Sánchez Pérez, S. Malato Rodríguez, J.L. Casas López, Nuria Sainz Herrán. **Depuración de aguas contaminadas con plaguicidas mediante acoplamiento de foto-Fenton solar y fangos activos.** 2nd International Conference on Renewable Energies and Water Technologies (CIERTA 2008). 2-3 Oct. 2008. Roquetas de Mar, Almería, Spain. Poster Communication ID 20.
- 461.A. Agüera, C. Sirtori, A. Zapata, S. Malato, W. Gernjak, A. R. Fernández-Alba. **Treatment of Quinolones by Heterogeneous Photocatalysis under Solar Radiation: Intermediates and Toxicity Evaluation.** 5<sup>o</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP1.2.
- 462.O. González, C. Sans, S. Esplugas, S. Malato. **Application Of Solar Advanced Oxidation Processes To The Degradation Of Sulfamethoxazole Antibiotic.** 5<sup>o</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP1.9.
- 463.N. Klammerth, N. Miranda, M.I. Maldonado A. Agüera, S. Malato, J.M. Coronado. **Degradation of Emerging Contaminants at Low Concentrations by Solar AOPs.** 5<sup>o</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP1.12.

464. F. Méndez-Arriaga, M.I. Maldonado, J. Gimenez, S. Esplugas, S. Malato. **Abatement of Ibuprofen in Water by Solar Photocatalytic Process: Enhancement and Scale up.** 5° European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP5.11.
465. C. Adán, A. Bahamonde, A. Martínez-Arias, S. Malato. **Solar Photocatalytic Degradation of Phenol Over Fe-TiO<sub>2</sub> Catalysts: Photo-complex Mechanism of Iron Lixiviates.** 5° European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP1.1.
466. A.G. Trovó, R.F.P. Nogueira, A. Aguera López, A. Fernández-Alba, C. Sirtori, S. Malato. **Solar degradation of the antibiotic sulfamethoxazole by photo-Fenton process at a pilot plant scale – identification of intermediate products and toxicity assessment.** 5° European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP5.17.
467. A. Zapata, M.I. Maldonado, J.A. Sánchez-Pérez, S. Malato. **Solar Photo-Fenton Degradation of a Commercial Pesticide Mixture: Influence of Iron, Temperature and Salinity. Toxicity and Biodegradability Evaluation.** 5° European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Poster, Book of abstracts, PP2.40.
468. M. S. Lucas, M. I. Maldonado, W. Gernjak, C. Sirtori, A. Zapata, J. A. Peres. **“Solar Photo-Fenton Treatment of Winery Wastewater”.** 5th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA5). Palermo (Sicilia)-Italy. October 4-8, 2008. Poster, Book of abstracts, PP 2.35.
469. E. Ubomba-Jaswa, K.G. McGuigan, C. Navntoft, I. Polo-López, P. Fernández-Ibáñez "Solar disinfection of water containing *E. coli* K-12 in CPC-continuous flow reactors" Com. Oral. ID42. 2nd International Conference on Renewable Energies and Water Technologies (CIERTA 2008), Roquetas de Mar, Almería, 02-03 Octubre 2008.
470. P. Fernández-Ibáñez, J. Blanco, C. Sichel, I. Polo-López, M. de Cara, J.C. Tello "Photocatalytic disinfection of phytopathogenic fungi: Experiences in solar CPC-reactors" Com. Oral. ID43. 2nd International Conference on Renewable Energies and Water Technologies (CIERTA 2008), Roquetas de Mar, Almería, 02-03 Octubre 2008.
471. S. Malato. **Coupling of advanced oxidation processes and biotreatment for treating persistent water contaminants.** 4th Int. meeting on biotechnology (BIOTEC 2008). 17-19 Sept. 2008, Granda, Spain. Invited Lecture S-4. Book of Abstracts, p 64.
472. Sixto Malato, C. Sirtori, A. Zapata, I. Oller, M.I. Maldonado, P. Fernández-Ibáñez, W. Gernjak. **Combined detoxification Technologies: Solar photocatalytic process coupled with treatment for decontamination of pharmaceutical wastewater.** 2nd International Conference on Renewable Energies and Water Technologies (CIERTA 2008). 2-3 Oct. 2008. Roquetas de Mar, Almería, Spain. Oral Communication ID 60.
473. Manuel Ignacio Maldonado Rubio, N. Miranda-García, N. Klammerth, S. Malato, J.M. Coronado, A.R. Fernández-Alba, B. Sánchez-Cabrero. **Degradation of emerging contaminants at low concentration by solar aops in a pilot plant.** 2nd International Conference on Renewable Energies and Water Technologies (CIERTA 2008). 2-3 Oct. 2008. Roquetas de Mar, Almería, Spain. Oral Communication ID 61.
474. C. Sirtori, A. Zapata, I. Oller, S. Malato, W. Gernjak. **Treatment of Industrial Pharmaceutical Wastewater by a Combined Solar Photo-Fenton and Biological Treatment System.** 5° European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. (Palermo October 4th – 8th 2008). Oral, Book of abstracts, OP5.6.
475. Jose Antonio Sánchez Pérez, Maria de la Menta Ballesteros Martin, Sixto Malato Rodríguez, José Luis Casas López, Jose Luis García Sánchez. **A two-stage scheme for pesticide degradation. Integration of photocatalysis and biological oxidation.** 30th Inter. Biotechnology Symp. and Exhibition. Oct 12-17, 2008. Dalian, China. J. Biotech. 136S (2008), pp. S674-657.
476. W. Gernjak, C. Sirtori, A. Zapata, I. Oller, M.I. Maldonado, S. Malato. **Combined photo-Fenton/biotreatment for treating saline pharmaceutical wastewater.** Int. Congress and Exhibition Environmental Technology and Renewable Energy. Vienna, Austria. 31-01-08/01-02-08. Poster 54.
477. W. Gernjak, S. Malato, C. Pulgarín, G. macolo, A. Pollice, C. Vogelsang, B. Plosz, A. Lopez. **Combining advanced oxidation processes and biological treatment.** Int. Congress and Exhibition Environmental Technology and Renewable Energy. Vienna, Austria. 31-01-08/01-02-08. Poster 55.

- 478.P. Fernández Ibáñez "**Water Disinfection Using Solar Energy**" Oral com. Mediterranean workshop on new technologies of recycling non conventional water in rotated cultivation opportunities and new challenges for arid and semi - arid areas, Institute of Agronomy and Veterinary Hassan II, Agadir (Morocco), 28 April-1 May 2008. Proc. book, pp. 23.
- 479.S. Malato. **Optimisation de la strategie de traitement des AOPs**. Atelier Mediterranéen sur les Nouvelles Technologies de Recyclage des Eaux. L'Institut Agronomique et Veterinaire Hassan II. 28 Abril-1 Mayo 2008, Agadir, Marruecos. Oral
- 480.Blanco J., Malato S., Fernández P., Alarcón D., Gernjak W., Maldonado M.I. **Solar energy and feasible applications to water processes**. 5th European Thermal-Sciences Conference (EUROTHERM 2008). Eindhoven (The Netherlands) 18-22 May 2008. Oral communication.
- 481.P. Fernández. "**Water decontamination, disinfection and desalination with solar energy**" Oral com. in the Barcelona Tech Summer Sessions, Univ. Barcelona and Univ. Politecnica de Catalunya. 9-13 July 2007, Barcelona, Spain.
- 482.E. Ubomba-Jaswa, C. Navntoft, C. Sichel, P. Fernández-Ibáñez "**Solar disinfection (SODIS) of Escherichia coli K12 contaminated well water in continuous flow solar reactors** " Oral communication. 2nd Int. Congress Smallwat07, Centro de las Nuevas Tecnologías del Agua (CENTA), Seville (Spain), 11-15 November 2007.
- 483.S. Malato, Manuel I. Maldonado, W. Gernjak, I. Oller, C. Pulgarín. **Optimizing solar AOPs treatment strategy**. 2nd Int. Conf. on Semiconductor Photochemistry (SP-2). Aberdeen, UK 23-35 July 2007. Book of abstracts, K4. keynote lecture.
- 484.W. Gernjak, S. Malato, I. Oller, M.I. Maldonado, L. Pérez Estrada, C. Sirtori, A. Zapata. **Combining solar photo-Fenton with biological treatment at demonstration scale**. The 12th Intern. Conf. on TiO<sub>2</sub> photocatalysis: fundamentals and applications/The 13th Intern. Conf. on advanced oxidation technologies for treatment of water, air and soil. Niagara Falls (NY), USA. September 24-27, 2007. Book of Abstracts, p. 5-6. Oral.
- 485.Carla Sirtori, Ana Agüera, Sixto Malato and Wolfgang Gernjak. **Photocatalytic treatment of flumequine using solar radiation. Identification of intermediate products**. The 12th Intern. Conf. on TiO<sub>2</sub> photocatalysis: fundamentals and applications/The 13th Intern. Conf. on advanced oxidation technologies for treatment of water, air and soil. Niagara Falls (NY), USA. September 24-27, 2007. Book of Abstracts, p. 17-18. Oral.
- 486.M. I. Maldonado, S. Malato, W. Gernjak, P. Fernández-Ibáñez, I. Oller and L. Pérez-Estrada . **Treatment of wastewater by Advanced Oxidation Solar Technologies: State of the art and on going projects at European Union**. SmallWat07, II Intern. Congress (Wastewater treatment in small communities). Sevilla, Spain. 11-15 Nov. 2007. Book of abstracts p. 288-289. Oral.
- 487.C. Sichel, M. De Cara, J. Tello, P. Fernández-Ibáñez "**Inactivation of phytopathogenic fungi by solar TiO<sub>2</sub> photocatalysis** " Poster 2nd Int. Congress Smallwat07, Centro de las Nuevas Tecnologías del Agua (CENTA), Seville (Spain), 11-15 November 2007.
- 488.C. Navntoft, E. Ubomba-Jaswa, C. Sichel, P. Fernández-Ibáñez "**Preliminary design of reactors for enhancement of SODIS, solar disinfection, process**" Poster 2nd Int. Congress Smallwat07, Centro de las Nuevas Tecnologías del Agua (CENTA), Seville (Spain), 11-15 November 2007.
- 489.C. Sichel, C. Navntoft, P. Fernández-Ibáñez "**Drinking water disinfection and gallic acid removal with immobilized TiO<sub>2</sub> in solar reactor**", Poster communication in the 2nd Int. Conf. on "Semiconductor Photochemistry" (SP-2), The Robert Gordon University, Aberdeen (UK). 23-25 July 2007.
- 490.C. Adán, A. Bahamonde, M. Fernández-García, A. Martínez-Arias, S. Malato. **Solar photocatalytic degradation of phenol with air and H<sub>2</sub>O<sub>2</sub> over nanosized titania and iron-doped titania**. 8th European Congress on Catalysis (EUROPACAT VIII).Turku, Finland, 26-31 August 2007. Book of abstracts, p. 17-44. Poster.
- 491.C. Sirtori, A. Agüera, S.Malato and W. Gernjak. **Treatment of antibiotics used in aquaculture by photocatalytical processes under solar radiation**. SmallWat07, II Intern. Congress (Wastewater treatment in small communities). Sevilla, Spain. 11-15 Nov. 2007. Book of abstracts p. 329. Poster.
- 492.J. García-Montaño, M.I. Maldonado, J. Peral, F. Torrades and S. Malato. **Reactive dyes degradation by solar photo-Fenton and biological processes at pilot plant scale**. SmallWat07, II Intern. Congress

- (Wastewater treatment in small communities). Sevilla, Spain. 11-15 Nov. 2007. Book of abstracts p. 310. Poster.
493. I. Oller, S. Malato, M.I. Maldonado, L.A. Pérez-Estrada, W. Gernjak, M. Vincent, J.A. Muñoz, C. Ramos and T. Tanghe. **An advanced strategy for hazardous industrial wastewater treatment: SOLARCADOX®**. Int. Conf. Technologies for Industrial Wastewater treatment and reuse in the Mediterranean region (TIWATMED 2007). Jerba, Tunisia, 24-26 May 2007. Book of Abstract, 25. Oral.
494. Javier Marugán María-José López-Muñoz, Wolfgang Gernjak, Sixto Malato. **Study of imidacloprid solar photodegradation by experimental design techniques**. IWA 4<sup>th</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment Germany, Goslar 15-17 May 2006. A. Vogelpohl, M. Sievers, S.U. Geissen (Ed.), pp. 287-292. Poster.
495. Isabel Oller, Sixto Malato, Jose A. Sánchez-Pérez, M. Ignacio Maldonado, Wolfgang Gernjak and Leonidas A. Pérez-Estrada. **AOPs-Biological system for wastewater containing a recalcitrant pollutant**. IWA 4<sup>th</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment Germany, Goslar 15-17 May 2006. A. Vogelpohl, M. Sievers, S.U. Geissen (Ed.), pp. 710-715. Poster.
496. M. Ignacio Maldonado, Julian Blanco, *Sixto Malato*, Pilar Fernández-Ibáñez, Diego Alarcón, Wolfgang Gernjak and Isabel Oller. **The Albaida solar plant: recycling of plastic pesticide containers**. IWA 4<sup>th</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment Germany, Goslar 15-17 May 2006. A. Vogelpohl, M. Sievers, S.U. Geissen (Ed.), pp. 464-469. Poster.
497. Cosima Sichel, Pilar Fernández-Ibáñez, Julián Blanco, Sixto Malato. **Solar photocatalytic treatment for water disinfection: reactor parameters**. IWA 4<sup>th</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment Germany, Goslar 15-17 May 2006. A. Vogelpohl, M. Sievers, S.U. Geissen (Ed.), pp. 212-217. Oral.
498. Diego Alarcón, Julián Blanco, Ana Lozano, Sixto Malato, Manuel I. Maldonado, Pilar Fernández. **Experimental results of AQUASOL project: development of an advanced hybrid solar-gas multi-effect distillation system**. 13<sup>th</sup> Inter. Symp. On Concentrated Solar Power and Chemical Energy Technologies. Sevilla, 20-23, June, 2006. Abstract FA8-S.6. Oral.
499. Manuel I. Maldonado, Sixto Malato, Julián Blanco, Isabel Oller, Wolfgang Gernjak, Leonidas Pérez-Estrada. **Hybrid photocatalytic-biological demonstration plant**. 13<sup>th</sup> Inter. Symp. On Concentrated Solar Power and Chemical Energy Technologies. Sevilla, 20-23, June, 2006. Abstract FB1-S.2. Oral.
500. Cosima Sichel, Pilar Fernández-Ibáñez, Julián Blanco, Sixto Malato. **Photocatalytic water disinfection with solar energy**. 13<sup>th</sup> Inter. Symp. On Concentrated Solar Power and Chemical Energy Technologies. Sevilla, 20-23, June, 2006. Abstract FB1-S.1. Oral.
501. Leonidas A. Pérez-Estrada, Sixto Malato, Ana Agüera, and Amadeo R. Fernández-Alba. **Photocatalytic treatment of Dipyrone using solar energy. Identification of intermediate products**. Environmental Applications of advanced oxidation processes (EAAOP-1). Chania, Crete, 7-9 Sept. 2006. Book of Abstracts, 64. Paper P053, e-proceedings. Poster.
502. Sixto Malato, Julián Blanco, Manuel I. Maldonado, Isabel Oller, Wolfgang Gernjak, Leonidas Pérez-Estrada. **Coupling solar photo-Fenton and biotreatment at pre-industrial scale: Main results of a demonstration plant**. Environmental Applications of advanced oxidation processes (EAAOP-1). Chania, Crete, 7-9 Sept. 2006. Book of Abstracts, 14. Paper P04, e-proceedings. Oral.
503. Sixto Malato, M. Vincent, M. Collares-Pereira, X. Doménech, J. Farinha, J. Y. Perrot, T. Tanghe, C. Pulgarin, J. A. Muñoz, C. Ramos. **A coupled solar advanced oxidation-biological process for recycling of industrial wastewater: DSM Deretil demonstration plant within EU "Cadox" project**. Water and Energy for Sustainable Development, Vol. I. Communications to the Int. Conf. On Renewable Energies and Water Technologies, Roquetas de Mar, Spain, 5-7 Oct. 2006. Antonio Pulido and Manuel Pérez (Eds.). pp. 61-67. 2006. Oral.
504. Paula Cristina Lima Varela Passarinho, M. I. Maldonado, J. F. Mendes, C. Pulgarín, I. Oller, W. Gernjak, S. Malato. **Photo-Fenton and titanium dioxide photocatalysis: the first step for a coupled solar-biological water treatment at pilot plant scale**. Water and Energy for Sustainable Development, Vol. I. Communications to the Int. Conf. On Renewable Energies and Water Technologies, Roquetas de Mar, Spain, 5-7 Oct. 2006. Antonio Pulido and Manuel Pérez (Eds.). pp. 113-119. 2006. Oral.
505. M<sup>a</sup> de la Menta Ballesteros Martín, J. A. Sánchez Pérez, J. L. García Sánchez, J. L. Casas López, F. G. Ación Fernández, S. Malato Rodríguez. **Un proceso de oxidación biológica para el tratamiento de aguas residuales: degradación de compuestos aromáticos y ácidos carboxílicos usando *Pseudomonas Putida***

- CECT 324.** Water and Energy for Sustainable Development, Vol. I. Communications to the Int. Conf. On Renewable Energies and Water Technologies, Roquetas de Mar, Spain, 5-7 Oct. 2006. Antonio Pulido and Manuel Pérez (Eds.). pp. 86-93. 2006. Oral.
506. Isabel Oller Alberola, S. Malato, J.A. Sánchez - Pérez, W. Gernjak, M.I. Maldonado. **Treatment of pesticides by solar advanced oxidation processes.** Water and Energy for Sustainable Development, Vol. I. Communications to the Int. Conf. On Renewable Energies and Water Technologies, Roquetas de Mar, Spain, 5-7 Oct. 2006. Antonio Pulido and Manuel Pérez (Eds.). pp. 94-99. 2006. Poster.
507. Fernández-Ibáñez P., Sichel C., de Cara M., Tello J., Blanco J. **Solar Photocatalytic Water Disinfection: Drinking and Irrigation Applications.** International Conference on Renewable Energies and Water Technologies (CIERTA 2006). Roquetas de Mar, Almería, 5-7 Octubre, 2006. Oral communication. Proc. Of International Conference on Renewable Energies and Water Technologies. A. Pulido Bosch M. Pérez García Ed., 2006, ISBN. 84-933658-3-1 (pp. 68-73).
508. Fernández-Ibáñez P. **Inactivation of Fungi by solar TiO<sub>2</sub> photocatalysis.** Oral communication. Cost Action 540 Phonasum Working Group Meeting. Photocatalytic Technologies and Novel-Surface Materials. Critical Issues on Bactericide Surfaces. 26th-27th October 2006, EPFL, Lausanne, Switzerland.
509. I. Oller, S. Malato, J.A. Sánchez-Pérez, M.I. Maldonado, R. Gassó, W. Gernjak, J. Blanco. **Biodegradability enhancement of wastewater containing five common pesticides by solar AOPs.** 4<sup>th</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Las Palmas de Gran Canaria, Spain, 8-10 November 2006. Book of Abstracts, 96-97. Poster.
510. I. Oller, W. Gernjak, C. Ramos Siles, J.A. Muñoz, M.I. Maldonado, L.A. Pérez-Estrada, S. Malato. **Industrial scale coupling of oxidative pre-treatment (solar photo-Fenton or ozone) and immobilised biomass activated sludge biotreatment.** 4<sup>th</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Las Palmas de Gran Canaria, Spain, 8-10 November 2006. Book of Abstracts, 244-245. Oral.
511. Leonidas A. Pérez-Estrada, Sixto Malato, Ana Agüera, A. R. Fernández-Alba. **Comparison of the degradation of dipyrone by advanced oxidation processes and photocatalysis. Analysis of degradation pathways using GC-MS and LC-MS.** 4<sup>th</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Las Palmas de Gran Canaria, Spain, 8-10 November 2006. Book of Abstracts, 100-101. Poster.
512. C. Adán, A. Bahamonde, A. Martínez-Arias, M. Fernández-García, L. A. Pérez-Estrada, S. Malato. **Solar light assisted photodegradation of ethidium bromide over titania-based catalysts.** 4<sup>th</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Las Palmas de Gran Canaria, Spain, 8-10 November 2006. Book of Abstracts, 102-103. Poster.
513. W. Gernjak, I. Oller, S. Malato, M. Fuerhacker. **Economic on-line analysis in solar photo-Fenton for process control purposes.** 4<sup>th</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Las Palmas de Gran Canaria, Spain, 8-10 November 2006. Book of Abstracts, 272-273. Poster.
514. Javier Marugán, Jose Aguado, Wolfgang Gernjak, Sixto Malato. Solar photocatalytic degradation of dichloroacetic acid with silica-supported titania at pilot plant scale. 4<sup>th</sup> European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Las Palmas de Gran Canaria, Spain, 8-10 November 2006. Book of Abstracts, 78-79. Poster.
515. Sixto Malato. **Treatment of wastewater by advanced oxidation technologies using solar energy: an overview.** 4<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 10<sup>th</sup> Symposium on the Chemistry and Fate of Modern Pesticides. Almeria, Spain, 26<sup>th</sup>-29<sup>th</sup> November 2006. Book of Abstracts, 24-27. Invited lecture.
516. Leónidas A. Pérez-Estrada, Sixto Malato, Ana Agüera, M-D. Hernando, Amadeo R. Fernández-Alba., **Photodegradation of malachite green under natural sunlight. kinetics and toxicity of the transformation products.** 4<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 10<sup>th</sup> Symposium on the Chemistry and Fate of Modern Pesticides. Almeria, Spain, 26<sup>th</sup>-29<sup>th</sup> November 2006. Book of Abstracts, 319-320. Poster.
517. Ana Agüera, Amadeo R. Fernández-Alba, Leónidas A. Pérez-Estrada, Sixto Malato. **Degradation of the pharmaceutical active ingredient dipyrone in water by photo-Fenton treatment using solar energy. Establishment of the degradation pathway.** 4<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 10<sup>th</sup> Symposium on the Chemistry and Fate of Modern Pesticides. Almeria, Spain, 26<sup>th</sup>-29<sup>th</sup> November 2006. Book of Abstracts, 318. Poster.

518. P. Fernández, J. Blanco, C. Sichel, S. Malato. **E. coli deactivation by solar photocatalysis with slurry and supported titanium dioxide at CPC collectors.** 8<sup>th</sup> Int. Conf. Solar Energy Storage and Applied Photochemistry 5<sup>th</sup> Int. Workshop on Environmental Photochemistry. Luxor, Egypt, February 20 – 25, 2005. Book of abstracts pp. 11-12, Keynote presentation.
519. C. Sichel, P. Fernández-Ibáñez, J. Blanco and S. Malato. **Disinfection of E.Coli With Immobilized TiO<sub>2</sub> in Solar Collectors.** The Second European Conference on Oxidation and Reduction Technologies for Ex-Situ and In-Situ Treatment of Water, Air and Soil (ECOR- 2), Göttingen, Germany, June 12-15, 2005. Book of abstracts, p 200. Poster.
520. W. Gernjak, S. Malato, J. Blanco, M.I. Maldonado, D. C. Alarcón, P. Fernández, I. Oller, L. Pérez-Estrada. **Coupling AOPs and Biological Treatment – Recent Results of the “CADOX” Project.** The Second European Conference on Oxidation and Reduction Technologies for Ex-Situ and In-Situ Treatment of Water, Air and Soil (ECOR- 2), Göttingen, Germany, June 12-15, 2005. Book of abstracts, p 72. Oral presentation.
521. W. Gernjak, M.I. Maldonado, I. Oller, L. Pérez-Estrada, M. Fürhacker and S. Malato. **Solar Photo-Fenton Treatment – Process Parameters and Process Control.** The Second European Conference on Oxidation and Reduction Technologies for Ex-Situ and In-Situ Treatment of Water, Air and Soil (ECOR- 2), Göttingen, Germany, June 12-15, 2005. Book of abstracts, p 86. Oral presentation.
522. S. Malato, J. Blanco, D.C. Alarcón, M.I. Maldonado, P. Fernández-Ibáñez. **Solar photocatalytic water detoxification. Technology and application overview.** 7<sup>th</sup> European Congress on Catalysis. Sofia, Bulgaria, 28 August-1 September, 2005. Book of abstracts, p. 199. Keynote Lecture.
523. S. Malato Rodríguez, J. Blanco Gálvez, P. Fernández Ibáñez, D. Alarcón Padilla, M.I. Maldonado Rubio. **Photocatalytic water treatment: practical applications with solar energy.** III Encontro sobre aplicações ambientais de processos oxidativos avançados. Campinas, Brasil, 3-5 Octubre. 2005. Book of abstracts, CC-07. Invited Lecture.
524. S. Malato, J. Blanco, M.I. Maldonado Rubio, P. Fernández, W. Gernjak, I. Oller. **Tratamiento de aguas conteniendo contaminantes orgánicos persistentes mediante combinación de procesos de oxidación avanzada y biológicos. Proyecto CADOX.** Tecnologías emergentes para estudiar los problemas de tratamiento de agua en países en desarrollo. Puerto Iguazú (Rep. Argentina), 14-19 Octubre 2005. Libro de resúmenes, p20. Conferencia Plenaria.
525. Victor Sarria, Simeon Kenfack, Sixto Malato, Julián Blanco, César Pulgarín. **Dispositivo integrada fotocatalítico/fotovoltaico para la descontaminación de aguas.** Tecnologías emergentes para estudiar los problemas de tratamiento de agua en países en desarrollo. Puerto Iguazú (Rep. Argentina), 14-19 Octubre 2005. Libro de resúmenes, p71. Poster.
526. Margarita Hincapié, Gustavo Peñuela, Sixto Malato, Manuel I. Maldonado. **Comparación en la fotodegradación catalítica de los herbicidas alaclo y diuron por radiación solar y artificial.** Tecnologías emergentes para estudiar los problemas de tratamiento de agua en países en desarrollo. Puerto Iguazú (Rep. Argentina), 14-19 Octubre 2005. Libro de resúmenes, p83. Poster.
527. I. Oller, S. Malato, J.A. Sánchez-Pérez, J. Blanco, M.I. Maldonado, W. Gernjak, L. Pérez-Estrada. **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants. “CADOX” project. Recent results.** 1st EMCO workshop “Analysis and removal of contaminants from wastewaters for the implementation of the Water Framework Directive (WFD)”. Dubrovnik, Croatia. 20-21 October 2005. Book of abstracts, pp. 81-82. Oral.
528. M. I. Maldonado, S. Malato, P. Fernández, W. Gernjak, I. Oller, L. Pérez-Estrada, J. Blanco, D. Alarcón. **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants (The CADOX project).** X Congreso Mediterráneo de Ingeniería Química. Barcelona, España. 15-18 Noviembre, 2005. Abstract T05-024, pp. 248. Poster.
529. C. Sichel, P. Fernández-Ibáñez, J. Blanco, S. Malato. **E. Coli inactivation with immobilized catalyst in solar photo-reactors.** X Congreso Mediterráneo de Ingeniería Química. Barcelona, España. 15-18 Noviembre, 2005. Abstract T05-25, pp. 249. Poster.
530. M.M Ballesteros Martín, I. Quesada Soriano, E.M. Rodríguez Porcel, J.A. Sánchez Pérez, F.G. Ación Fernández, J.L. García Sánchez, J.L. Casas López, S. Malato. **Coupling of photocatalysis and biological treatment for persistent water contaminants removal. Biodegradation of photocatalysis intermediates by *Pseudomonas Putida*.** X Congreso Mediterráneo de Ingeniería Química. Barcelona, España. 15-18 Noviembre, 2005. Abstract T05-155, pp. 354. Poster.

531. J. Blanco, S. Malato, M.I. Maldonado, P. Fernández, D.C. Alarcón, I. Oller, W. Gernjak, L. Pérez-Estrada. **The Albaida solar photocatalytic plant: set-up and first operational results.** X Congreso Mediterráneo de Ingeniería Química. Barcelona, España. 15-18 Noviembre, 2005. Abstract T05-023, pp. 247. Poster.
532. S. Malato, Martín Vincent, Manuel Collares-Pereira, Xavier Doménech, Joao Farinha Mendes, Jean Yves Perrot, Tom Tanghe, César Pulgarin, José Antonio Muñoz. **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants. "CADOX" project. Recent results.** Final P-THREE-workshop "Advanced wastewater technologies for the removal of organic contaminants and potential impact of the water framework directive". Wiesbaden, Germany, 12 December 2005. Book of abstract pp. 14. Oral presentation.
533. P. Fernández; J. Blanco; S. Malato; M. I. Maldonado. **Drinking Water Disinfection by Solar Photocatalysis.** 2º Congreso Internacional Ambiental del Caribe. Centro de Convenciones, Cartagena de Indias (Colombia). 19-21 Mayo, 2004. Oral Presentation.
534. J. Blanco; S. Malato; M. I. Maldonado; D. Alarcón; P. Fernández. **The Albaida plant: first commercial step in solar detoxification.** 2º Congreso Internacional Ambiental del Caribe. Centro de Convenciones, Cartagena de Indias (Colombia). 19-21 Mayo, 2004. Oral Presentation.
535. M.I. Maldonado, S. Malato, J. Blanco, D. C. Alarcón, P. Fernández, I. Oller, W. Gernjak. **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants. CADOX Project.** 2º Congreso Internacional Ambiental del Caribe. Centro de Convenciones, Cartagena de Indias (Colombia). 19-21 Mayo, 2004. Oral Presentation.
536. S. Malato, J. Blanco, M.I. Maldonado, D. C. Alarcón, P. Fernández, I. Oller, W. Gernjak **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants "CADOX". Main results.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 33-34. Oral presentation.
537. A.R. Fernández-Alba, A. Agüera, I. Ferrer, M. Thurman, L. Pérez-Estrada, S. Malato. **Degradation of diclofenac by photolysis and photocatalysis. identification of transformation products.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 41-42. Oral presentation.
538. M. J. Farré, M.I. Franch, S. Malato, J.A. Ayllón, J. Peral, X. Doménech. **Degradation of some biorecalcitrant pesticides by homogeneous and heterogeneous photocatalytic ozonation.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 75-76. Poster.
539. P. Fernández; J. Blanco; S. Malato; D.C. Alarcón; M.I. Maldonado. **Water disinfection by solar photocatalysis using compound parabolic collectors.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 79-80. Poster.
540. W. Gernjak, T. Krutzler, S. Malato and R. Bauer. **Solar photo-Fenton treatment of olive mill wastewater (OMW). Pre-treatment and subsequent use for fertirrigation.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 83-84. Poster.
541. M.I. Maldonado, M. Hincapié, I. Oller, W. Gernjak, J.L. Casas and S. Malato. **Solar photodegradation of EC priority substances on pilot-plant scale. Results of preliminary experiments.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 89-90. Poster.
542. W. Gernjak, M.I. Maldonado, I. Oller, L. Yebra, M. Fürhacker and S. Malato **Solar photo-Fenton treatment of pesticides on pilot-plant scale. Investigation of process parameters.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 107-108. Poster.
543. V. Augliaro, E. García López, V. Loddó, S. Malato-Rodríguez, I. Maldonado, G. Marci, R. Molinari, L. Palmisano, M. Schiavello. **Degradation of drugs in aqueous medium: Oxidation of lincosamin.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 141-142. Poster.
544. L. Pérez-Estrada, S. Malato, I. Maldonado, W. Gernjak, A. Agüera, A. R. Fernández-Alba. **Degradation of diclofenac by solar driven photo-fenton at pilot plant scale.** 3rd European Meeting on Solar Chemistry and

- Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 153-154. Poster.
545. Pilar Fernandez, Sixto Malato, Damien Gumy, Cesar Pulgarin, Octav Enea and John Kiwi. **Supported Fe/C and Fe/Nafion/C catalysts for the photo-Fenton degradation of Orange II under solar radiation.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 263-265. Poster.
546. V. Sarria, S. Kenfack, S. Malato, J. Blanco and C. Pulgarin. **New helio-photocatalytic/photovoltaic hybrid system for simultaneous water decontamination and solar energy conversion.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 283-284. Oral presentation.
547. J. Blanco, S. Malato, M. I. Maldonado, D. Alarcón, P. Fernández, M. Vincent. **The Albaida plant: first commercial step in solar detoxification.** 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. Barcelona, 30 June and 1, 2 July 2004. Book of Abstracts, 309-310. Oral presentation.
548. A. Di Paola, V. Augugliaro, E. García-López, V. Loddo, G. Marci, S. Malato, R. Molinari, L. Palmisano, M. Schiavello. **Photocatalytic oxidation of drugs by using artificial and solar irradiation.** 15<sup>th</sup> Int. Conf. On Photochemical Conversion and Storage of Energy. Paris, 4-9 July 2004. Book of abstracts. W6-o-o8. Oral presentation.
549. J. Blanco; S. Malato; M.I. Maldonado; P. Fernández; I. Oller, W. Gernjak, D. Alarcón. **Primer paso en la comercialización de la tecnología de fotocátalisis solar: planta solar de Albaida S.A.** "Siguiendo el camino de las estrellas", Libro de actas de XII Congreso Ibérico y VII Iberoamericano de Energía Solar. 14-18 Septiembre 2004, Vigo, España. M. Vázquez Vázquez y J. Fernández Seara (Eds.). ETS Ingenieros Industriales de Univ. Vigo, 2004. Volumen 1, 639-644.
550. D. Alarcón; J. Blanco; B. Sánchez; S. Malato; M.I. Maldonado; P. Fernández. **Simulación termodinámica de un sistema híbrido solar/gas de desalación de agua de mar.** "Siguiendo el camino de las estrellas", Libro de actas de XII Congreso Ibérico y VII Iberoamericano de Energía Solar. 14-18 Septiembre 2004, Vigo, España. M. Vázquez Vázquez y J. Fernández seara (Eds.). ETS Ingenieros Industriales de Univ. Vigo, 2004. Volumen 1, 669-674.
551. P. Fernández; J. Blanco; S. Malato. **E. Coli Deactivation by Solar Photocatalysis Using Colloidal Dispersions of TiO<sub>2</sub>.** 18<sup>th</sup> Int. Conf. of the European Colloid and Interface Soc. Almería, Spain, 19-24 September, 2004. Boof of Abstracts, 417. Poster P7.15.
552. P. Fernández, S. Malato and F. J. de las Nieves. **Sedimentation Dynamics of TiO<sub>2</sub> Particles in Aqueous Suspensions: Relationship with Colloidal Stability.** 18<sup>th</sup> Int. Conf. of the European Colloid and Interface Soc. Almería, Spain, 19-24 September, 2004. Boof of Abstracts, 420. Poster P7.18.
553. J. Blanco; S. Malato; M. I. Maldonado; M. Vincent; J.P. Vincent; M. Sánchez; E. Myro. **The Albaida plant: first commercial step in solar detoxification.** "Global symp. on recycling, waste treatment and clean technology", Proceedings of REWAS 04. Madrid, 26-29 September 2004. I Gaballah, B. Mishra, R. Solozábla, M. Tanaka (Eds.). Inasmet, San Sebastián, Spain 2004. Volume II, 1425-1436. Oral presentation.
554. S. Malato, J. Blanco, M.I. Maldonado, D. C. Alarcón, P. Fernández, I. Oller, W. Gernjak. **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants (CADOX).** Workshop on "Clean production technologies". Madrid, 30 September-2 October 2004. A. Adjemian, J. Dutrizac, P. Negré, L. Yurramendi (Eds.). 367-381. Oral presentation.
555. P. Fernández, J. Blanco, D. Alarcón, S. Malato. **Solar Photocatalysis Applied to Drinking Water Disinfection Using Low Cost Solar Collectors.** 12<sup>th</sup> Inter. Symp. Solar power and Chemical Energy Systems. Oaxaca, Mexico, 6-8 October, 2004. Abstract S2-308.
556. D. Alarcón, J. Blanco, B. Sánchez, S. Malato, M.I. Maldonado, P. Fernández. **Thermodynamic Simulation of an Advanced Hybrid Solar-Gas Seawater Desalination System.** 12<sup>th</sup> Inter. Symp. Solar power and Chemical Energy Systems. Oaxaca, Mexico, 6-8 October, 2004. Abstract S6-221. Oral presentation.
557. J. Blanco, S. Malato, M. I. Maldonado, I. Oller, W. Gernjak, D. Alarcón, P. Fernández. **First Commercial Step in Solar Photocatalytic Applications.** 12<sup>th</sup> Inter. Symp. Solar power and Chemical Energy Systems. Oaxaca, Mexico, 6-8 October, 2004. Abstract S2-314. Oral presentation.

558. V. Sarriá, S. Kenfack, S. Malato, J. Blanco, C. Pulgarín. **Solar hybrid photocatalytic photovoltaic system.** 12<sup>th</sup> Inter. Symp. Solar power and Chemical Energy Systems. Oaxaca, Mexico, 6-8 October, 2004. Abstract S6-335.
559. Sixto Malato, Julián Blanco, Diego C. Alarcón, Manuel I. Maldonado, Pilar Fernández-Ibáñez, Wolfgang Gernjak **Photocatalytic Detoxification of water with Solar Energy.** 4<sup>th</sup> Int. Seminar "New Challenges in Catalysis", Serbian Academy of Sciences and Arts, Belgrade, Serbia, 5 – 8 October 2004. Book of abstracts, p 15. Oral presentation.
560. S. Malato, J. Blanco, A. Vidal, D. Alarcón, J. Cáceres, M. I. Maldonado. **Photocatalysis in Plataforma Solar de Almería: applied studies in environmental detoxification.** 7<sup>th</sup> Int. Conf. Solar Energy Storage and Applied Photochemistry 4<sup>th</sup> Int. Workshop on Environmental Photochemistry. Luxor, Egypt, February 23 – 28, 2003. Book of abstracts, Oral presentation.
561. C. Richter, A. Romerosa, S. Mañas, M. Peruzzini, S. Malato. **Photochemical Oxidation of P<sub>4</sub> to Obtain phosphorus Derivates.** 7<sup>th</sup> Int. Conf. Solar Energy Storage and Applied Photochemistry 4<sup>th</sup> Int. Workshop on Environmental Photochemistry. Luxor, Egypt, February 23 – 28, 2003. Book of abstracts, Poster 67.
562. A. Agüera, A.R. Fernández-Alba, L. Piedra, M. Mézcua, D. Hernando, S. Malato, J. Cáceres. **Use of Chemical and Biological techniques in the Evaluation of Pesticide degradation by Solar Photocatalytic processes.** 7<sup>th</sup> Int. Conf. Solar Energy Storage and Applied Photochemistry 4<sup>th</sup> Int. Workshop on Environmental Photochemistry. Luxor, Egypt, February 23 – 28, 2003. Book of abstracts, Poster 6.
563. S. Malato, M. I. Maldonado, J. Blanco, J. Cáceres, W. Gernjak, and D. C. Alarcón. **Photocatalytic water treatment: practical applications with solar energy.** IWA 3<sup>rd</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment Germany, Goslar 18- 22 May 2003. A. Vogelpohl (Ed.), pp. 221-226. Oral presentation.
564. W. Gernjak, M.I. Maldonado, S. Malato, J. Cáceres, T. Krutzler, A. Glaser and R. Bauer. **Degradation of polyphenolic content of Olive Mill Wastewater (OMW) by solar photocatalysis.** IWA 3<sup>rd</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment Germany, Goslar 18- 22 May 2003. A. Vogelpohl (Ed.), pp. 879-884. Poster.
565. Julián Blanco, Sixto Malato, Alfonso Vidal, Ana I. Cardona, D. Alarcón, Julia Cáceres, Manuel I. Maldonado. **Applied Studies in Solar Photocatalytic Detoxification: an Overview.** ISES Solar World Congress 2003, Göteborg, Sweden, 14-19 June 2003. Book of abstract, Oral 05-42.
566. J. Blanco, A. Hublitz, D. Alarcón, B. Sánchez, S. Malato. **Techno-Economical Comparison of Different Solar-Assisted Heat Supply Systems for a Seawater Multi-Effect Distillation Unit.** ISES Solar World Congress 2003, Göteborg, Sweden, 14-19 June 2003. Book of abstract, Poster P5 128.
567. D. Alarcón, J. Blanco, S. Malato, M. I. Maldonado, B. Sánchez. **Solar thermal seawater distillation activities at the Plataforma Solar de Almería: increasing the thermo-economical efficiency of the process.** 4<sup>th</sup> European Congress of Chemical Engineering. Granada, 21-25 September 2003. Book of Abstracts 3, P-3.1-021. Poster.
568. M. I. Maldonado, S. Malato, J. Blanco, D. Alarcón, A. I. Cardona, W. Gernjak. **Applied Studied in Solar Photocatalytic Detoxification: Twelve Years of Experience in Plataforma Solar de Almería.** 4<sup>th</sup> European Congress of Chemical Engineering. Granada, 21-25 September 2003. Book of Abstracts 3, P-3.2-033. Poster.
569. Miguel Rodríguez, Sixto Malato, Jaime Giménez, David Curcó, Cesar Pulgarin and Santiago Espulgas. **Mineralization of phenol by means of solar photo-Fenton treatment: influence of different types of reactors.** 4<sup>th</sup> European Congress of Chemical Engineering. Granada, 21-25 September 2003. Book of Abstracts 4, P-4.3-081. Poster.
570. S. Malato, J. Blanco, M. I. Maldonado, I. Oller, W. Gernjak, D. Alarcón, P. Fernández. **Solar advanced oxidation processes applied to wastewater treatment. A step forward: CADOX project.** 3<sup>rd</sup> Scientific Meeting of the Spanish Society of Chromatography and Related Techniques. 3<sup>rd</sup> Waste Water Cluster (WWC) European Workshop. Almería, Spain. 19-21 November 2003. Book of Abstracts, IL-7. Oral presentation.
571. W. Gernjak, M. Fürhacker, M.I. Maldonado, I. Oller, L. Yebra and S. Malato. **Systematic investigation of the photo-fenton method at pilot plant scale.** 3<sup>rd</sup> Scientific Meeting of the Spanish Society of Chromatography and Related Techniques. 3<sup>rd</sup> Waste Water Cluster (WWC) European Workshop. Almería, Spain. 19-21 November 2003. Book of Abstracts, OP-12. Oral presentation.
572. O.A. McLoughlin, P. Fernandez, W. Gernjak, S. Malato, L.W. Gill. **Feasibility of solar disinfection of water using low cost compound parabolic collectors.** 3<sup>rd</sup> Scientific Meeting of the Spanish Society of

Chromatography and Related Techniques. 3rd Waste Water Cluster (WWC) European Workshop. Almería, Spain. 19-21 November 2003. Book of Abstracts, P-60. Poster.

573. M. I. Maldonado, I. Oller, S. Malato, W. Gernjak, J. Blanco, D. Alarcón, P. Fernández. **A coupled advanced oxidation-biological process for recycling of industrial wastewater containing persistent organic contaminants. Results of photo-Fenton preliminary experiments.** 3rd Scientific Meeting of the Spanish Society of Chromatography and Related Techniques. 3rd Waste Water Cluster (WWC) European Workshop. Almería, Spain. 19-21 November 2003. Book of Abstracts, P-56. Poster.
574. C. Catastini, G. Mailhot, S. Malato and M. Sarakha. **Iron (III) aquacomplexes as catalysts for pesticides mineralisation by sunlight irradiation.** Improving Human Potential Programme, Proceedings of 2<sup>nd</sup> Users Workshop. Almería, February 26, 2002. CIEMAT, ISBN 84-7834-425-x. pp. 3-10, 2002.
575. V. Augugliaro, A. Bianco Prevot, J. Cáceres Vázquez, E. García-López, A. Irico, V. Loddo, S. Malato Rodríguez, G. Marci, L. Palmisano, E. Pramauro. **Photocatalytic oxidation of acetonitrile in aqueous suspension of titanium dioxide irradiated by sunlight.** Improving Human Potential Programme, Proceedings of 2<sup>nd</sup> Users Workshop. Almería, February 26, 2002. CIEMAT, ISBN 84-7834-425-x. pp. 11-18, 2002.
576. C. Nguyen Dinh An, J. Dussaud, C. Guillard, J. Disdier, S. Malato and J. M. Herrmann. **Solar efficiency of a new deposited titania photocatalyst : Pesticide and dye removal applications.** Improving Human Potential Programme, Proceedings of 2<sup>nd</sup> Users Workshop. Almería, February 26, 2002. CIEMAT, ISBN 84-7834-425-x. pp. 25-32, 2002.
577. M. Kositzki, I. Poullos, S. Malato, J. Cáceres, A. Campos. **Solar Photocatalytic Treatment of Synthetic Municipal Wastewater.** Improving Human Potential Programme, Proceedings of 2<sup>nd</sup> Users Workshop. Almería, February 26, 2002. CIEMAT, ISBN 84-7834-425-x. pp. 33-40, 2002.
578. J. Cáceres, S. Malato, J. Blanco, A. Agüera, A. R. Fernández-Alba, M. Mezcuca, D. Hernando, L. Piedra. **Advanced analytical techniques for evaluation of solar photocatalysis.** 2nd European Meeting on Solarchemistry and Photocatalysis: Environmental Applications. Saint-Avold, France. Mai 29-31, 2002. Poster presentation. Abstract P25.
579. Sixto Malato, Julián Blanco, Alfonso Vidal, Antonio Campos, Julia Cáceres, Raquel Rodríguez. **A Coupled Advanced Oxidation-Biological Process for Recycling of Industrial Wastewater Containing Persistent Organic Contaminants. The CADOX Project.** 2nd European Meeting on Solarchemistry and Photocatalysis: Environmental Applications. Saint-Avold, France. Mai 29-31, 2002. Oral presentation. Abstract O28.
580. Julián Blanco, Eduardo Zarza, Diego Alarcón, Sixto Malato, Javier León. **Advanced Multi-Effect Solar Desalination Technology: The PSA Experience.** Proceedings of 11<sup>th</sup> Solarpaces Inter. Symp. on Concentrated Solar Power and Chemical Energy Technologies. Zurich, Switzerland, September 4-6, 2002. A. Steinfeld (ed.), pp. 479-488.
581. V. Sarria, P. Péringer, J. Cáceres, J. Blanco, S. Malato, C. Pulgarin. **Solar degradation of 5-amino-6-methyl-2-benzimidazolone by TiO<sub>2</sub> and iron(III) catalyst with H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub> as electron acceptors.** Proceedings of 11<sup>th</sup> Solarpaces Inter. Symp. on Concentrated Solar Power and Chemical Energy Technologies. Zurich, Switzerland, September 4-6, 2002. A. Steinfeld (ed.), pp. 489-496.
582. D. Alarcón, J. Blanco, E. Zarza, S. Malato. **Comparación económica de procesos de desalación de agua de mar: el reto de la destilación multi-efecto con energía solar.** XI Congreso Ibérico e VI Congreso Ibero-Americano de Energía Solar. Vilamoura, Portugal, 29 de Sep a 2 de Oct. 2002. Livro de Resumos, Colprinter Lda., Lisboa, 2002. p. 58.
583. J. Blanco, E. Zarza, D. Alarcón, S. Malato, J. León. **Advanced solar desalination: a feasible technology to the Mediterranean area.** Eurosun 2002, 4<sup>th</sup> ISES Europe Solar Congress. Bologne, Italy, June 23-26, 2002. Book of abstracts, p. 143.
584. V. Augugliaro, C. Baiocchi, A. Bianco Prevot, E. García-López, V. Loddo, S. Malato, G. Marci, L. Palmisano, M. Pazzi, E. Pramauro. **Azo-dyes photocatalytic degradation in aqueous suspension of TiO<sub>2</sub> under solar irradiation.** Int. seminar on Advanced Oxidation Technologies (ISAOT 2002). Sante Fé, Argentina, Sept. 24-26, 2002. Book of abstracts, p. 23.
585. S. Malato, J. Blanco, O. Enea. **Photoreactors Made of Ti/TiO<sub>2</sub> Photoanodes for the Decontamination of Wastewaters in Solar Plants.** 2nd European Workshop on Water, Air and Soil Treatment by Advanced Oxidation Technologies: Innovative and Commercial Applications. Université de Poitiers, France. February 28 – March 2, 2001. Abstract 29. Video.

586. A. B. Prevost, E. Pramauro, G. Marci, V. Loddo, S. Malato. **TiO<sub>2</sub> Mediated Photocatalytic Degradation of Azo Dyes Under Sunlight Irradiation**. 2nd European Workshop on Water, Air and Soil Treatment by Advanced Oxidation Technologies: Innovative and Commercial Applications. Université de Poitiers, France. February 28 – March 2, 2001. Abstract 34. poster.
587. S. Malato, J. Blanco, A. Vidal, A. Campos, J. Cáceres, A. Carrion, C. Richter. **A Decade of Photocatalysis in Plataforma Solar de Almería: Applied Studies in Environmental Detoxification**. 2nd European Workshop on Water, Air and Soil Treatment by Advanced Oxidation Technologies: Innovative and Commercial Applications. Université de Poitiers, France. February 28 – March 2, 2001. Abstract 28. Plenary lecture.
588. V. Sarria, L. Menkari, S. Parra, N. Adler, P. Peringer, C. Pulgarin, J. Vazquez, J. Blanco and S. Malato. **Coupled photochemical-biological system useful in the complete mineralization of a biorecalcitrant wastewater pollutant**. Improving Human Potential Programme, Proceedings of 1<sup>st</sup> Users Workshop. Almería, March 15, 2001. CIEMAT, ISBN 84.7834-407-1. pp. 3-10, 2001.
589. W. Gernjak, T. Krutzler, S. Malato, J. Cáceres, R. Bauer. **Applicability of the Photo-Fenton reaction for treating water containing natural phenolic pollutants**. Improving Human Potential Programme, Proceedings of 1<sup>st</sup> Users Workshop. Almería, March 15, 2001. CIEMAT, ISBN 84.7834-407-1. pp. 11-18, 2001.
590. Witold S. Szulbiński, S. Malato, W. Gernjak. **Photocatalytic water decontamination by the zeolite-y entrapped ruthenium tris-2,2'-bipyridine complex**. Improving Human Potential Programme, Proceedings of 1<sup>st</sup> Users Workshop. Almería, March 15, 2001. CIEMAT, ISBN 84.7834-407-1. pp. 19-26, 2001.
591. V. Augugliaro, C. Baiocchi, A. Bianco Prevot, M.C. Brussino, J. Cáceres Vázquez, E. García-López, V. Loddo, S. Malato Rodríguez, G. Marci, L. Palmisano, E. Pramauro. **Photocatalytic degradation of organic dyes under solar irradiation: oxidation of methyl-orange and orange II in aqueous suspension of titanium dioxide powder**. Improving Human Potential Programme, Proceedings of 1<sup>st</sup> Users Workshop. Almería, March 15, 2001. CIEMAT, ISBN 84.7834-407-1. pp. 37-34, 2001.
592. S. Malato, J. Cáceres, A. Agüera, M. Mezcuá, M.D. Hernando, A.R. Fernández-Alba. **Degradation of imidacloprid by photo-Fenton and TiO<sub>2</sub> photocatalysis at solar pilot plant: a comparative study**. 10<sup>th</sup> Symp. Handling of Environ. Biol. Samples in Chromatography. Mainz, Germany. April 1-4, 2001. Abstract PPES12.
593. J. Blanco, P. Fernández, K.H. Funken, S. Malato, B. Milow, M. Reichert, C. Richter, C. Sattler. **Solar detoxification cooperation between DLR and CIEMAT-PSA**. 5<sup>th</sup> Solar Symp. Cologne, Germany. June 21, 2001. In: Solar Thermal Power Plant and Solar Chemical Processes, Advances and Perspectives for Int. Cooperation. K.H. Funken and W. Bucher (eds.), DLR, Germany, 2001. pp. 136-140.
594. S. Mañas, A. Romerosa, C. Richter, M. Saoud, S. Malato, J. Blanco, C. Brindley. **Reversible photoredox reactions using a small photoreactor**. 6<sup>th</sup> FIGIPS Meeting in Inorganic Chemistry. Barcelona, 15-20 Julio 2001. Poster Pc-037.
595. S. Malato, J. Blanco, A. Vidal, A. Campos, J. Cáceres. **Large scale studies in solar photocatalytic wastewater treatment: research development, applications and conceptual design of a photocatalytic plant**. EuropCat V. Limerick, Ireland. September 2-7, 2001. Book 1, Excited State Catalysis Symposium, Oral presentation. Abstract 4-k-01.
596. J. Blanco, S. Malato. **Water treatment by solar photocatalysis: TiO<sub>2</sub> and photo-Fenton processes**. 2001 Scientific Matrix International Symposium on "Catalytic Water Treatment". Antwerp, Belgium, November 25-27, 2001.
597. Malato, S., Blanco, J., Vidal A., Fernández, P., Campos, A., Cáceres, J., Richter, C. **Pre-industrial applications of solar photochemistry at Plataforma Solar Almería**. 1<sup>er</sup> Journées Chimie, Soleil, Energie et Environnement. St. Avold, France. Conference. P 3-4. 3-4 Feb. 2000.
598. C. Guillard, J. Disdier, J.-M. Herrmann, C. Lehaut, T. Chopin, S. Malato, J. Blanco. **Dégradation photocatalytique solaire de composés organiques dans l'eau en présence de différents TiO<sub>2</sub> d'origine industrielle**. 1<sup>er</sup> Journées Chimie, Soleil, Energie et Environnement. St. Avold, France. Oral Presentation. P 14-15. 3-4 Feb. 2000.
599. S. Parra, V. Sarria, C. Pulgarin, S. Malato, P. Peringer. **Photochemical pre-treatments of two herbicides as a way to improve the biodegradability of their treated solutions**. 1<sup>er</sup> Journées Chimie, Soleil, Energie et Environnement. St. Avold, France. Oral Presentation. P 19-30. 3-4 Feb. 2000.

- 600.O. Enea, J. Blanco, P. Fernandez-Ibañez, S. Malato. **Décontamination solaire de l'eau au moyen d'électrodes de Ti/TiO<sub>2</sub> polarisées anodiquement.** 1<sup>er</sup> Journées Chimie, Soleil, Energie et Environnement. St. Avold, France. Poster. P 46-47. 3-4 Feb. 2000.
- 601.P. Fernandez-Ibañez, S.Malato, F. J. De Las Nieves. **Separation and reuse of TiO<sub>2</sub> photocatalyst in degradation reactions: Lab & Pilot plant studies.** 1<sup>er</sup> Journées Chimie, Soleil, Energie et Environnement. St. Avold, France. Poster. P 51-52. 3-4 Feb. 2000
- 602.S. Parra, C. Pulgarin, S. Malato, J. Blanco, P. Peringer. **Concentrating vs. non-concentrating reactor for solar photocatalytic degradation of paranitrotoluene sulfonic acid.** 1<sup>er</sup> Journées Chimie, Soleil, Energie et Environnement. St. Avold, France. Poster. P 48-49. 3-4 Feb. 2000.
- 603.J. Blanco, S. Malato, P.;Fernández, A. Vidal, A. Morales, P. Trincado, J. C. Oliveira, C. Minero, M. Musci, C. Casalle, M. Brunotte, S. Tratzky, N. Dischinger, K.-H. Funken, C. Sattler, M. Vincent, M. Collares-Pereira, J.F. Mendes, C.M. Rangel **The Solardetox® Technology.** Proceedings of the 10<sup>th</sup> Solar Paces Int. Symp. On Solar Thermal Concentrating Technologies, Sydney, 8-10 March 2000. Kreetz H., Lovegrove K., Meike W. (eds.), pp. 201-208.
- 604.S. Malato, J. Blanco, A. Vidal, P. Fernández, J. Cáceres, P. Trincado, J. C. Oliveira, M. Vincent. **New large solar photocatalytic plant. Set-up and preliminary results** 2<sup>nd</sup> Int. Conf. on Oxidation Technologies of Water and Wastewater Treatment. Cutec Institut GmbH, Clausthal-Zellerfeld, Germany. 29-31 May 2000. Oral Presentation. Abstract in: Cutec Serial Publication n° 46, A. Vogelpohl (eds.), Papierfieger, Clausthal-Zellerfeld, Germany (2000). R-014.
- 605.S. Parra, C. Pulgarín, S. Malato, J. Blanco, P. Peringer. **Concentrating vs. nonconcentrating reactor for solar photocatalytic degradation of p-nitrotoluene sulfonic acid.** 2<sup>nd</sup> Int. Conf. on Oxidation Technologies of Water and Wastewater Treatment. Cutec Institut GmbH, Clausthal-Zellerfeld, Germany. 29-31 May 2000. Abstract in: Cutec Serial Publication n° 46, A. Vogelpohl (eds.), Papierfieger, Clausthal-Zellerfeld, Germany (2000). R-066.
- 606.K.H. Funken, C. Sattler, B. Milow, J. C. Oliveira, J. Blanco, P. Fernandez, S. Malato. **A comparison of prototype compound parabolic collector-reactors (CPC) on the road to Solardetox technology.** Int. Conf. on Oxidation Technologies of Water and Wastewater Treatment. Cutec Institut GmbH, Clausthal-Zellerfeld, Germany. 29-31 May 2000. Abstract in: Cutec Serial Publication n° 46, A. Vogelpohl (eds.), Papierfieger, Clausthal-Zellerfeld, Germany (2000). R-118.
- 607.Richter, C.; Romerosa, A.; Mañas, S.; Saraiba, C.; Malato, S.; Blanco, J. **Solar driven reaction of a Ru(II) vinylidene complex and vinylphosphonium ion in a small scale photoreactor.** 30<sup>th</sup> Intern. Conf. on Photochemical Conversion and Storage of Solar Energy (IPS-2000). Snowmass, Colorado, USA. Poster GI-P-8. July 30-August 4, 2000.
- 608.A. Vidal, J. Blanco, S. Malato, M. Vincent, P.;Fernández, P. Trincado. **A 100 m<sup>2</sup> Solar Photocatalytic Pilot Plant for the Treatment of Cyanide Effluents. The SolarDetox® Experience.** 30<sup>th</sup> Intern. Conf. on Photochemical Conversion and Storage of Solar Energy (IPS-2000). Snowmass, Colorado, USA. Poster W8-P-15. July 30-August 4, 2000.
- 609.J. Blanco, S. Malato, P.;Fernández, A. Vidal, A. Morales, P. Trincado, J. C. Oliveira, C. Minero, M. Musci, C. Casalle, M. Brunotte, S. Tratzky, N. Dischinger, K.-H. Funken, C. Sattler, M. Vincent, M. Collares-Pereira, J.F. Mendes, C.M. Rangel **The Solardetox® technology: solar technology to the treatment of hazardous water contaminants.** Proceedings of the EU-TRAWMAR Annual Workshop, Berlin, October 2000. N.J. Roberts, H.S. Pexton, A. Adjemian (eds.). Mineral Industry Research Organisation, United Kingdom, 2000, pp. 36-59.
- 610.Romerosa, A.; Mañas, S.; Richter, C.; Malato, S.; Blanco, J.; Saoud, M.; Domínguez, R.; Saraiba, C.; Peruzzinni, M.; Zanobini, F.; Serrano, M.; Angulo, J.; Davidson, M. **Efecto de la radiación solar en la reactividad entre complejos vinilidénicos y alenidénicos de rutenio con derivados de fosfonio.** 24 Congreso Latinoamericano de Química, Lima, Perú. Poster QCB-099. 15-19 Octubre 2000.
- 611.S. Malato. **Photocatalysis and advanced oxidation technologies applied to water treatment.** Proceedings of workshop on Catalytic processes for clean chemistry and water and air depollution. Tunisia 19-22 November, 2000. Ghorbel A. and Miertus S. (eds.). pp. 55-66.
- 612.Blanco, J.; Malato, S.; Fernández, P.; Vidal A.; Morales, A.; Trincado, P.; Correira, J.; Minero, C.; Brunotte, M.; Dischinger, N.; Musci, M.; Funken, K.-H.; Sattler, C.; Vincent, M.; Collares, M.; Mendes, J.F.; Rangel C.M. **Solar detoxification technology to the treatment of industrial non biodegradable persistent**

- chlorinated water contaminants (Solardetox Project).** The 4<sup>th</sup> Int. Conf. on TiO<sub>2</sub> Photocatalytic Purification of Water and Air. Oral presentation. P 70. Albuquerque, New Mexico, USA, 24-28 May 1999.
613. Agüera A.; Fernandez-Alba, A.; Tejedor, A.; Piedra, L.; Malato, S.; Blanco, J. **Application of various analytical procedures to the evaluation of solar photocatalytic pesticides degradation processes.** The 4<sup>th</sup> Int. Conf. on TiO<sub>2</sub> Photocatalytic Purification of Water and Air. Poster presentation. P 147. Albuquerque, New Mexico, USA, 24-28 May 1999.
614. Fernández-Ibáñez, P.; Malato, S.; De Las Nieves, F. J. **Electron transfer model in a oxide/electrolyte interface.** 4<sup>th</sup> Liquid Matter Conference. Univ. of Granada, Spain. P6-36. 3-7 July 1999.
615. Blanco, J.; Malato, S.; Fernández, P.; Vidal A.; Morales, A.; Trincado, P.; Oliveira J. C.; Casalle, C.; Tratzky, S.; Minero, C.; Brunotte, M.; Dischinger, N.; Musci, M.; Funken, K.-H.; Sattler, C.; Vincent, M.; Collares, M.; Mendes, J.F.; Rangel C.M. **Compound parabolic concentrator technology development to commercial solar detoxification applications.** ISES 1999 Solar World Congress. Jerusalem, Israel. P31. 4-9 July 1999.
616. Pilar Fernandez-Ibáñez, Sixto Malato, Octav Enea. **Two-compartment photoelectrochemical reactors tested under various solar light concentration ratios.** Proceedings of the 2<sup>nd</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1998. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-351-2, pp. 53-59. (1999).
617. C. Guillard, J. Disdier, J.-M. Herrmann, P. Pichat, S. Malato, J. Blanco, C. Lehaut, T. Chopin. **Solar photocatalytic degradability of carboxylic and nitrogen-containing aqueous pollutants. comparative efficiencies of Tiona PC (Millenium Inorganic Chemicals) and Degussa P-25 photocatalysts.** Proceedings of the 2<sup>nd</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1998. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-351-2, pp. 61-66. (1999).
618. P. Fernandez-Ibáñez, F. J. De Las Nieves, S. Malato. **TiO<sub>2</sub> sedimentation procedure.** Proceedings of the 2<sup>nd</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1998. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-351-2, pp. 67-72. (1999).
619. Vincenzo Augugliaro, Julián Blanco Gálvez, Julia Cáceres Vázquez, Elisa García López, Vittorio Loddo, Maria José López Muñoz, Sixto Malato Rodríguez, Giuseppe Marcì, Leonardo Palmisano, Mario Schiavello And Javier Soria. **Photocatalytic oxidation of cyanide in aqueous TiO<sub>2</sub> suspensions irradiated by sunlight: Influence of phenol on the reaction rate.** Proceedings of the 2<sup>nd</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1998. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-351-2, pp. 73-79. (1999).
620. J.-M. Herrmann, J. Matos, J. Disdier, C. Guillard, J. Laine, S. Malato, J. Blanco. **Solar application of the synergy effect obtained with a suspension of titania and activated carbon in the photocatalytic degradation of 4-chlorophenol.** Proceedings of the 2<sup>nd</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1998. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-351-2, pp. 87-92. (1999).
621. A. Benecker, M. Baune, S. Malato. **TiO<sub>2</sub> based solar photocatalytic degradation of selected pesticides in aqueous solutions.** Proceedings of the 2<sup>nd</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1998. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-351-2, pp. 101-106. (1999).
622. A. Vidal, S. Malato, J. Blanco. **Solar detoxification technology for the treatment of industrial non biodegradable persistent chlorinated water contaminants.** Proceedings of the REWAS 99: Global Symp. On Recycling, Waste Treatment and Clean Technology. Gaballah I., Hager J. And Solozábal R. (Eds.). Vol. III, pp. 1919-1928. San Sebastián, Spain, 5-9 Sept. 1999.
623. B. Milow, J. Blanco, P. Fernandez, S. Malato, C. Richter, K.H. Funken, C. Sattler. **Photocatalytic detoxification of contaminated water.** Proceedings of the REWAS 99: Global Symp. On Recycling, Waste Treatment and Clean Technology. Gaballah I., Hager J. And Solozábal R. (Eds.). Vol. III, pp. 1989-1998. San Sebastián, Spain, 5-9 Sept. 1999.
624. Texier, I.; Giannotti, C.; Malato, S.; Richter, C.; **Solar photodegradation of pesticides in water by sodium decatungstate.** Proceedings of the 1<sup>st</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1997. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-321-0, pp. 49-52. (1998).
625. Passarinho, P.C., Vieira, A.S.; Malato, S.; Blanco, J.; **Photocatalytic degradation of olive mill wastewater.** Proceedings of the 1<sup>st</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1997. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-321-0, pp. 7-11. (1998).

626. Enea, O.; Malato, S.; Maldonado, M.I.; **Photoelectrochemical reactors for helioman modules.** Proceedings of the 1<sup>st</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1997. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-321-0, pp. 13-17. (1998).
627. Fallmann H.; Krutzler, T.; Bauer, R.; Malato, S.; Blanco, J.; **Solar photo-fenton treatment of model and real wastewater.** Proceedings of the 1<sup>st</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1997. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-321-0, pp. 25-30. (1998).
628. Disdier, J.; Guillard, C.; Herrmann J.M.; Pichat, P.; Malato, S.; Blanco, J.; **TiO<sub>2</sub>-based solar photocatalytic detoxification of water containing organic pollutants. Extrapolation of laboratory experiments and efficiency of different industrial TiO<sub>2</sub> catalyst.** Proceedings of the 1<sup>st</sup> Users Workshop on Training and Mobility of Researchers Programme at Plataforma Solar de Almería, 1997. Martínez, D. (eds.). CIEMAT. ISBN 84-7834-321-0, pp. 41-47. (1998).
629. Agüera A.; Almansa, E.; Hernando, D.; Malato, S.; Fernández-Alba, A.; **GC-MS, LC-MS and toxicity studies of the degradation products generated by photocatalytic oxidation of pyrimethanil.** V Intern. Symp. on Anal. Methodology in the Environmental Field. La Coruña, Spain, 15-17 April 1998.
630. Blanco, J.; Malato, S.; Maldonado, M.I.; Fallmann H.; Krutzler, T.; Bauer, R.; **Techno-economical assesment of solar detoxification systems with compound parabolic collectors.** 9<sup>th</sup> SolarPaces Symp. On Solar Thermal Concentrating Technologies. Font Romeu, France. 22-26 Junio 1998. Oral presentation.
631. Malato, S.; Blanco, J.; Richter, C.; Milow, B.; Maldonado, M.I.; **Photocatalytic decontamination of wastewater from the rinsing of pesticide containers.** 9<sup>th</sup> SolarPaces Symp. On Solar Thermal Concentrating Technologies. Font Romeu, France. 22-26 Junio 1998. Poster presentation.
632. Texier, I.; Giannotti, C.; Malato, S.; Richter, C.; Delaire, J.; **Solar photodegradation of pesticides in water by sodium decatungstate.** 9<sup>th</sup> SolarPaces Symp. On Solar Thermal Concentrating Technologies. Font Romeu, France. 22-26 Junio 1998. Poster presentation.
633. Enea, O.; Blanco, J.; Malato, S.; Maldonado, M.I.; **Photoelectrochemical experiments under various solar light concentration ratios.** 9<sup>th</sup> SolarPaces Symp. On Solar Thermal Concentrating Technologies. Font Romeu, France. 22-26 Junio 1998. Poster presentation.
634. Fallmann H.; Krutzler, T.; Bauer, R.; Malato, S.; Blanco, J.; **Detoxification of pesticide containing effluents by solar driven fenton process.** 12<sup>th</sup> Int. Conf. on Photochemical Conversion and Storage of Solar Energy. Berlin, Alemania. 9-14 Agosto 1998. Oral presentation.
635. Milow, B.; Blanco, J.; Malato, S.; Richter, C.; **Solar technologies for water detoxification.** 12<sup>th</sup> Int. Conf. on Photochemical Conversion and Storage of Solar Energy. Berlin, Alemania. 9-14 Agosto 1998. Poster presentation.
636. Richter, C.; Milow, B.; Malato, S.; Blanco, J.; Maldonado, M.I.; Fernandez, P. **Oxalate actinometry for solar photochemical reactions.** 12<sup>th</sup> Int. Conf. on Photochemical Conversion and Storage of Solar Energy. Berlin, Alemania. 9-14 Agosto 1998. Poster presentation.
637. Malato, S.; Blanco, J.; Richter, C.; Milow, B.; Maldonado, M.I.; **Pre-industrial experience in solar photocatalytic mineralization of real wastewater. Application to pesticide containers recycling.** 2<sup>nd</sup> Int. Conf. on Advanced Wastewater Treatment, Recycling and Reuse. Conference Proceedings. Bonomo L. and Nurizzo, C. (eds.). Vol. I, pp. 165-172. Milano, 14-16 Sept. 1998.
638. Richter, C.; Malato, S.; Blanco, J.; Milow, B.; Maldonado, M.I.; Ibañez, P. **Photochemical application of sunlight for fine chemical synthesis.** 17<sup>th</sup> IUPAC Symp. On Photochemistry. Sitges (Barcelona Spain). Oral Presentation IL-10. 19-24 Julio 1998.
639. Milow, B.; Blanco, J.; Malato, S.; Richter, C. **Solar Detoxification Technology to the Treatment of Industrial non-Biodegradable persistent Chlorinated Water Contaminants.** Proc. 1998 EU Contractors' Workshop on Heavy Metals Removal from Liquid Effluents, Waste Incineration and Generic Technologies for Recycling. EUR 18846, N.J. Roberts, H.S. Pexton and A. Adjemian (eds.). Vol. I, pp. 75-81. Rhodes, Greece. Sept. 1998.
640. Milow, B.; Blanco, J.; Malato, S.; Richter, C. **Solar treatment technologies of diluted wastewater detoxification and disinfection.** European Research Conf. on Natural Waters and Water Techn.: Catalytic Sci. and Techn. For Water. Aquafreda di Maratea (Potenza, Italy). Poster P-26. 3-8 Octubre 1998.

641. Blanco, J.; Malato, S.; Milow, B.; Richter, C. **Solar detoxification: A feasible commercial application in the near future.** European Research Conf. on Natural Waters and Water Techn.: Catalytic Sci. and Techn. For Water. Aquafreda di Maratea (Potenza, Italy). Poster P-38. 3-8 Octubre 1998.
642. Enea, O.; Malato, S.; Moser, J.E.; **Photoelectrochemical reactors for solar detoxification of water.** 49<sup>th</sup> Annual Meeting Int. Soc. Electrochemistry. Kitakyushu, Japón. P-7-14-11. 13-18 Septiembre 1998.
643. Sánchez, B.; Blanco, J. Cardona, A.; Malato, S.; Vidal, A.; Romero, M. **Photocatalytic activities on air and water treatment at CIEMAT.** The 1998 European Workshop on Water and Air Treatment by Advanced Oxidation Technologies: Innovations and Commercial Applications. Coom. N° 36. EPFL, Lausanne, Suiza. 11-14 Octubre 1998.
644. Malato, S.; Gimenez, J.; Curco, D.; Blanco, J.; Borrell, L.; Marco, P. **Photocatalytic oxidation of organic pollutants by using solar energy.** 2<sup>nd</sup> Intern. Symp. on Environmental Appl. of Advanced Oxidation Tech. San Francisco, USA. Febrero 1996. Electric Power Research Institute, pp. 170-183. (1997)
645. Blanco, J.; Malato, S.; Richter, C. **Solar detoxification plant for a hazardous plastic bottle recycling plant in El Ejido: Feasibility study.** Proceedings of 8<sup>th</sup> Int. Symp. on Solar Thermal Concentrating Technologies, Colonia, Alemania, Octubre 1996. Becker, M. and Böhmer, M. (eds.). ISBN 3-7880-7616-X. pp. 1451-470. C.F. Müller Verlag, Heidelberg, Alemania 1997.
646. Richter, C.; Malato, S.; Blanco, J. **Long term degradation rate comparison of a concentrating and a non-concentrating photoreactor system for solar detoxification.** Proceedings of 8<sup>th</sup> Int. Symp. on Solar Thermal Concentrating Technologies, Colonia, Alemania, Octubre 1996. Becker, M. and Böhmer, M. (eds.). ISBN 3-7880-7616-X. pp. 1521-1526. C.F. Müller Verlag, Heidelberg, Alemania 1997.
647. Giménez, J.; Curco, D.; Borrell, L.; Marco, P.; Malato, S.; Blanco, J. **Photocatalytic treatment of phenol in a solar plant.** Proceedings of 8<sup>th</sup> Int. Symp. on Solar Thermal Concentrating Technologies, Colonia, Alemania, Octubre 1996. Becker, M. and Böhmer, M. (eds.). ISBN 3-7880-7616-X. pp. 1431-1450. C.F. Müller Verlag, Heidelberg, Alemania 1997.
648. Malato, S.; Blanco, J.; Agüera, A.; Almansa, E., Fernández-Alba, A. **Photochemical oxidation of imidacloprid in water by photocatalysis with TiO<sub>2</sub>. GC-ITMS study of the by-products formed.** 6<sup>th</sup> Intern. Symp. On Chemistry and Fate of Modern Pesticides. Amsterdam, Holanda. 4-6 Junio 1997.
649. Malato, S.; Blanco, J.; Braun, B.; Richter, C. **Solar detoxification technology to the treatment of industrial non biodegradable persistent chlorinated water contaminants.** 1<sup>st</sup> Annual TRAWMAR (Targeted Research Action on Waste Minimisation And Recycling) Workshop. Birmingham, 14-16 Mayo. 1997.
650. Herrmann, J.M.; Disdier, J.; Pichat, P.; Malato, S.; Blanco, J. **Destruction de pesticides contenus dans l'eau par photocatalyse heterogene dans un photoreacteur-pilote solaire.** Societé Française de Chimie. Réunion du Groupe de Photochemie. Paris, Francia. 22 Mayo 1997.
651. Marques, P.A.S.S.; Rosa, M.; Mendes, F.; Collares-Pereira, M.; Blanco, J.; Malato, S. **Decontaminação de efluentes por fotocatalise.** Energía Solar e Qualidade de Vida. De Oliveira, E.; Maldonado, E.; Guedes, M. (eds.). Actas de VIII Congreso Ibérico de Energía Solar. ISES pp. 641-648. Mayo 1997.
652. Blanco, J.; Malato, S.; Maldonado, M.I.; Richter, C. **Oportunidades para la comercialización de la tecnología de detoxificación solar.** Energía Solar e Qualidade de Vida. De Oliveira, E.; Maldonado, E.; Guedes, M. (eds.). Actas de VIII Congreso Ibérico de Energía Solar. ISES pp. 649-654. Mayo 1997.
653. Richter, C.; Giannoti, C.; Cermenati, L.; Albini, A.; Malato, S.; Blanco, J. **Solar photochemical sunthesis of fine chemicals with low concentrating collector systems.** XVIII<sup>th</sup> Int. Conf. on Photochemistry. 3P58. Varsovia, Polonia. 3-8 Agosto, 1997.
654. Agüera A.; Fernandez-Alba, A.; Almansa, E.; Malato, S.; Maldonado, I.; **Solar -TiO<sub>2</sub> photocatalytic degradation of imidacloprid in water. GC-ITMS study of by-products produced.** 8<sup>th</sup> Symposium on Handling of Environmental and Biological Samples in Chromatography and 26<sup>th</sup> Scientific Meeting of the Group of Chromatography and Related Techniques of the Spanish Royal Society of Chemistry. PP-58. Almerimar. Almerimar-El Ejido, Almería. 26-29 Octubre 1997.
655. Giménez, J.; Curco, D.; Fava, X.; Malato, S.; Blanco, J.; **Solar detoxification by photocatalysis: trying the scale-up.** Intern. Symp. On Solar Chemistry. Poster 35. PSA-Villingen, Suiza. 6-8 Octubre 1997.
656. Blanco, J.; Malato, S.; Maldonado, M.I.; Richter, C.; **Solar detoxification: a feasible commercial application in the new future.** Intern. Symp. On Solar Chemistry. Poster 17. PSA-Villingen, Suiza. 6-8 Octubre 1997

657. Blanco, J.; Malato, S.; Richter, C. **Aplicaciones químicas de la radiación solar. tecnologías mediambientales para problemas mediambientales.** III Congreso Nacional de la Energía. pp. 177-182. Universidad de La Serena, Chile. Abril 1996.
658. Malato, S.; Gimenez, J.; Richter, C.; Curco, D.; Blanco, J. **Low concentrating CPC collectors for photocatalytic water detoxification. Comparison with a medium concentrating solar collector.** 1st Int. Conf. on Oxidation Tech. for Water and Wastewater Treatment. Vogelpohl, A. (ed.), ISBN 3-931986-10-1. Papierflieger Verlag, Clausthal-Zellerfeld, Alemania. 1996.
659. Blanco, J.; Malato, S.; Richter, C. **Solar photocatalytic technology to the treatment of water contaminants from agriculture activity in the Mediterranean area.** Proc. of Mediterranean Conf. on Renew. En. Sources for Wat. Prod. Santorini, pp. 147-152. ISBN-960-90557-0-2. Greece. Junio 1996.
660. Gimenez, J.; Curco, D.; Borrell, L.; Marco, P.; Malato, S.; Blanco, J. **Radiation influence on reactor modelling in photocatalysis.** 7<sup>th</sup> Mediterranean Congress of Chemical Engineering. P-4-31, pp. 160. Barcelona, Octubre 1996.
661. J. Blanco, A. Bahamonde, P. Ávila, B. Sánchez, M. Romero, A.I. Cardona, B. Fabrellas. “**Utilization of monoliths for photocatalytic destruction of organic pollutants in gaseous emissions**”, European Workshop of Environmental Technologies, 1996. Copenhagen, Denmark. Invited oral communication.
662. Blanco, J.; Malato, S. **Solar photocatalytic mineralization of real hazardous waste water at pre-industrials level.** Solar Engineering 1994, Klett, D.E.; Hogan, R.E. and Tanaka, T. (eds.). ASME. ISBN 0-7918-1192-1, pp. 103-109, USA, 1994.
663. Malato, S.; Blanco, J.; Curco, D.; Gimenez, J. **Photocatalysis and radiation absorption in a solar plant .** Inter. Conf. on Comparative Assessments of Solar Power Technologies, Roy, A. and Grasse W. (eds.), pp. 231-246, Israel, Febrero 1994.
664. Blanco, J.; Malato, S. **Photocatalytic treatment of hazardous waste water; cost comparison between solar and electrical technologies.** Inter. Conf. on Comparative Assessments of Solar Power Technologies, Roy, A. and Grasse W. (eds.), pp. 217-230, Israel, Feb. 1994.
665. B. Sánchez, M. Romero, A. Vidal y B. Fabrellas. “**Destruction of toluene and xylene using concentrated solar photons**”, International Solar Energy Conference, March 1994. San Francisco, USA. Oral communication.
666. Malato, S.; Blanco, J. **Parámetros de funcionamiento de una planta de tratamiento de aguas residuales mediante fotocatalisis solar.** Proceedings of the Interamerican Conf. On Environmental Issues, pp. 163-179. 1<sup>a</sup> Conf. Interamericana sobre el Medio Ambiente. San Salvador, El Salvador. Abril 1994.
667. Pohlmann, B.; Malato, S.; Blanco, J.; Richter, C. **Determination of radiation absorption in a solar photoreactor.** 10<sup>th</sup> Intern. Conf. on Photochemical Conversion and Storage of Solar Energy. Interlaken, Suiza. Julio 1994.
668. Blanco, J.; Malato, S.; Bahnemann, D.; Bockelman, D.; Weichgrebe, D.; Carmona, F.; Martinez, F. **Effective industrial wastewater treatment by solar photocatalysis; applications to fine chemicals spanish company.** 7<sup>th</sup> Intern. Symp. on Solar Thermal Concentrating Technol. Popel, O., Fris, S. and Shchedrova, E. (eds.), Institute for High Temperature of Russian Academy of Science (IVTAN). ISBN 5-201-09540-2, pp. 468-481. Moscú, Rusia. Sep 1994.
669. Malato, S.; Blanco, J. **Influence of TiO<sub>2</sub> and UV radiation over pentachlorophenol degradation with solar radiation.** 7<sup>th</sup> Int. Symp. on Solar Thermal Concentrating Technologies. Popel, O., Fris, S. and Shchedrova, E. (eds.), Institute for High Temperature of Russian Academy of Science (IVTAN). ISBN 5-201-09540-2, pp. 540-550. Moscú, Rusia. Septiembre 1994.
670. Vidal, A.; Malato, S.; Blanco, J.; Sanchez, B.; Romero, M. **TiO<sub>2</sub> photocatalytic degradation of metham-sodium at lab. and large scale test.** 1<sup>st</sup> Int. Conf. on Advanced Oxidation Techniques for Water and Air Remediation. London, Ontario, Canada, Junio 1994.
671. Blanco, J.; Malato, S. **Effective industrial wastewater treatment by means of solar light.** Workshop on Renewable Source of Energy, Economic Commission for Europe of United Nations. Mojacar, Almeria. Mayo 1994.
672. Blanco, J.; Malato, S. **Influence of solar irradiation over pentachlorophenol solar photocatalytic decomposition.** Photocatalytic Purification and Treatment of Water and Air. Ollis, D.F. and Al.Ekabi, H. (eds.) Elsevier Sci. Publish. B.V. ISBN 0-444-89855-7, pp. 639-644. Netherlands, 1993.

673. Blanco, J.; Malato, S. **Influence of solar irradiation over photocatalytic solar processes.** 6th Intern. Symp. on Solar Thermal Concentrating Techn., CIEMAT (eds.), ISBN 84-7834-63-3, pp. 1183-1197, Mojacar (Spain), Sept-Oct 1992.
674. Malato, S.; Blanco, J. **Photocatalytic degradation of pentachlorophenol by solar UV light on TiO<sub>2</sub> powder.** 6th Intern. Symp. on Solar Thermal Concentrating Tech., CIEMAT (eds.), ISBN 84-7834-63-3 pp.1091-1105, Mojacar (Spain), Sept-Oct 1992.
675. A. Vidal, J. Herrero, M. Romero, M. Sánchez, B. Sánchez and A.L. Verdejo. **“Solar Detoxification of Continental Waters”**, 6th International Symposium on Solar Thermal Concentrating Technologies, October 1992. Mojacar, Almeria (Spain). Oral communication.
676. Blanco, J.; Malato, S.; Sanchez, M.; Vidal, A.; Sanchez, B. **PSA's work in solar photocatalytic water detoxification** ISES Solar World Congress. Denver (U.S.A.). Eds.: M.E. Arden, S.M.A. Burley, M. Coleman, Pergamon Press, Oxford, pp. 2097-2102, 1991.
677. Blanco, J.; Romero, M.; Herrero, J.; Sanchez, M., Malato, S. **Descripción de un lazo de destoxificación solar para ser implantado en la Plataforma Solar de Almería.** ISES España, V Congreso Ibérico y IV Congreso Iberoamericano. Doria, J.; de Andrés, M. C. y Armenta, C. (eds.), ISBN 84-404-7308-9, pp. 218-229. 1990.