

1. S. Malato, P. Fernández-Ibañez, D. Robert, N. Keller. Selected contributions of the 9th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA-9). *Catalysis Today* **287** (2017).
2. N. Keller and S. Malato. Collection of papers of the 9th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA9). *Photochemical and Photobiological Sciences* **16** (1) (2017).
3. Y. Aguas, M. Hincapie, P. Fernández-Ibañez, M. I. Polo-López. Solar photocatalytic disinfection of agricultural pathogenic fungi (*Curvularia* sp.) in real urban wastewater. *Science of the Total Environment* **607–608** (2017) 1213–1224.
4. J. A. Garrido-Cardenas, M. I. Polo-López, I. Oller-Alberola. Advanced microbial analysis for wastewater quality monitoring: metagenomics trend. *Appl Microbiol Biotechnol.* **101** (2017) 7445–7458.
5. M. C. Campos-Mañas, P. Plaza-Bolaños, J. A. Sánchez-Pérez, S. Malato, A. Agüera. Fast determination of pesticides and other contaminants of emerging concern in treated wastewater using direct injection coupled to highly sensitive ultra-high performance liquid chromatography-tandem mass spectrometry. *J. Chromatogr. A* **1507** (2017) 84–94.
6. J. Matos, S. Miralles-Cuevas, A. Ruíz-Delgado, I. Oller, S. Malato. Development of TiO<sub>2</sub>-C photocatalysts for solar treatment of polluted water. *Carbon* **122** (2017), 361-373.
7. L. Ponce-Robles, S. Miralles-Cuevas, I. Oller, A. Agüera, M. J. Trinidad-Lozano, F. J. Yuste, S. Malato. Cork boiling wastewater treatment and reuse through combination of advanced oxidation technologies. *Environmental Science and Pollution Research*, **24** (2017) 6317-6328.
8. S. Miralles-Cuevas, I. Oller, A. Agüera, J.A. Sánchez Pérez, S. Malato. Strategies for reducing cost by using solar photo-Fenton treatment combined with nanofiltration to remove microcontaminants in real municipal effluents: Toxicity and economic assessment. *Chemical Engineering Journal*, **318** (2017) 161-170.
9. L. Prieto-Rodríguez, I. Oller, A. Agüera S. Malato. Elimination of organic micro-contaminants in municipal wastewater by a combined immobilized biomass reactor and solar photo-Fenton tertiary treatment. *Journal of Advanced Oxidation Technologies*, **20** (2017) 20160192.
10. R. Poblete, I. Oller, M. I. Maldonado, Y. Luna, E. Cortes. Cost estimation of COD and color removal from landfill leachate using combined coffee-waste based activated carbon with advanced oxidation processes. *Journal of Environmental Chemical Engineering*, **5** (2017) 114-121.
11. S. Miralles-Cuevas, I. Oller, A. Agüera, M. Llorca, J.A. Sánchez-Pérez, S. Malato. Combination of nanofiltration and ozonation for the remediation of real municipal wastewater effluents: Acute and chronic toxicity assessment. *Journal of Hazardous Materials*, **323** (2017) 442-451.
12. S. Miralles-Cuevas, D. Darowna, A. Wanag, S. Mozia, S. Malato, I. Oller. Comparison 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> at pilot plant scale for the elimination of micro-contaminants in natural water: An economic assessment. *Chemical Engineering Journal*, **310** (2017) 514-524.
13. I. De la Obra, L. Ponce-Robles, S. Miralles-Cuevas, I. Oller, S. Malato, J.A Sánchez Pérez. Microcontaminant removal in secondary effluents by solar photo-Fenton at circumneutral pH in raceway pond reactors. *Catalysis Today*, **287** (2017) 10-14.
14. M.J. Abeledo-Lameiro, A. Reboredo-Fernández, M.I. Polo-López, P. Fernández-Ibañez, 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. *Catalysis Today*, **280** (2017) 132–138.
15. A. Yoosefi Booshehri, M.I. Polo-Lopez, M. Castro-Alfárez, P. He, R. Xu, W. Rong, S. Malato, P. Fernández-Ibañez. Assessment of solar photocatalysis using Ag/BiVO<sub>4</sub> at pilot solar Compound Parabolic Collector for inactivation of pathogens in well water and secondary effluents. *Catalysis Today*, **281** (2017) 124–134.
16. M. Castro-Alfárez, M.I. Polo-López, J. Marugán, P. Fernández-Ibañez. Mechanistic model of the *Escherichia coli* inactivation by solar disinfection based on the photo-generation of internal ROS and the photo-inactivation of enzymes: CAT and SOD. *Chemical Engineering Journal*, **318** (2017) 214–223.
17. M. Castro-Alfárez, M.I. Polo-López, J. Marugán, P. Fernández-Ibañez. Mechanistic modeling of UV and mild-heat synergistic effect on solar water disinfection. *Chemical Engineering Journal*, **316** (2017) 111–120.
18. A. Ruiz-Aguirre, M.I. Polo-López, P. Fernández-Ibañez, G. Zaragoza. Integration of Membrane Distillation with solar photo-Fenton for purification of water contaminated with *Bacillus* sp. and *Clostridium* sp. Spores. *Science of the Total Environment*, **595** (2017) 110–118.
19. A. Bianco, M.I. Polo-López, P. Fernández-Ibañez, M. Brigante, G. Mailhot. Disinfection of water inoculated with *Enterococcus faecalis* using solar/Fe(III)EDDS-H<sub>2</sub>O<sub>2</sub> or S<sub>2</sub>O<sub>8</sub><sup>2-</sup> process. *Water Research*, **118** (2017) 249-260.

20. M.I. Polo-López, M. Castro-Alfárez, S. Nahim-Granados, S. Malato, P. Fernández-Ibáñez. Legionella jordanis inactivation in water by solar driven processes: EMA-qPCR versus culture-based analyses for new mechanistic insights. *Catalysis Today*, **287** (2017) 15–21.
21. Dionissios Mantzavinos, Ioannis Poullos, Pilar Fernández-Ibáñez, Sixto Malato. Environmental Applications of Advanced Oxidation Processes (EAAOP4). *Catalysis Today* **280**, (2017).
22. Vítor J.P. Vilar, Camila C. Amorim, Gianluca Li Puma, Sixto Malato, Dionysios D. Dionysiou. Intensification of photocatalytic processes for niche applications in the area of water, wastewater and air treatment. *Chemical Engineering Journal*, **310**, (2017).
23. Vítor J.P. Vilar, Camila C. Amorim, Enric Brillas, Gianluca Li Puma, Sixto Malato, Dionysios D. Dionysiou. AOPs: Recent advances in overcome barriers in the treatment of water, wastewater and air. *Environ. Sci. Pollut. Res.*, **24** (7), (2017).
24. Sixto Malato, Pap Zsolt. Materials for photocatalytic degradation of contaminants of environmental concern. *Catalysis Today*, **284**, (2017).
25. Javier Páramo-Vargas, Manuel I Maldonado-Rubio, Fernando I Gómez-Castro, Juan M Peralta-Hernández. Modeling the Fenton depuration of the effluent from a slaughterhouse based on design of experiments. *MOJ Ecology & Environmental Science*, **2** (2017), 00018.
26. S. Papoutsakis, C. Pulgarín, I. Oller, R. Sánchez-Moreno, S. Malato. Enhancement of the Fenton and photo-Fenton processes by components found in wastewater from the industrial processing of natural products: The possibilities of cork boiling wastewater reuse. *Chemical Engineering Journal*, **304** (2016) 890-896.
27. L. Andronic, L. Isac, S. Miralles, M. Visa, I. Oller, A. Duta, S. Malato. Pilot-plant evaluation of TiO<sub>2</sub> and TiO<sub>2</sub>-based hybrid photocatalysts for solar treatment of polluted water. *Journal of Hazardous Materials*, **320** (2016) 469-478.
28. M. Castro-Alfárez, M.I. Polo-López, P. Fernández-Ibáñez. Intracellular mechanisms of solar water disinfection. *Nature Scientific Reports*, **6** (2016) 38145.
29. S. Giannakis, M.I. Polo-López, D. Spuhler, J.A. Sánchez-Pérez, P. Fernández-Ibáñez, C. Pulgarin. Solar disinfection is an augmentable, in situ-generated photo-Fenton reaction - Part 1: A review of bacterial inactivation by hv/H<sub>2</sub>O<sub>2</sub>/Fe, at near-neutral pH. *Applied Catalysis B: Environmental*, **199** (2016) 431-446.
30. S. Giannakis, M.I. Polo-López, D. Spuhler, J.A. Sánchez-Pérez, P. Fernández-Ibáñez, C. Pulgarin. Solar disinfection is an augmentable, in situ-generated photo-Fenton reaction - Part 2: A review of the applications for drinking water and wastewater disinfection. *Applied Catalysis B: Environmental*, **199** (2016) 199-223.
31. V Auriolos-López, M I Polo-López, P Fernández-Ibáñez, A López-Malo, E R Bandala. Effect of iron salt counter ion in dose response curves for inactivation of Fusarium solani in water through solar driven Fenton-like processes. *Physics and Chemistry of the Earth* **91** (2016) 46-52.
32. S. Malato, M.I. Maldonado, P. Fernández-Ibáñez, I. Oller, I. Polo, R. Sánchez-Moreno. Decontamination and disinfection of water by solar photocatalysis: The pilot plants of the Plataforma Solar de Almería. *Materials Science in Semiconductor Processing* **42** (2016) 15-23.
33. E Ortega-Gómez, M M Ballesteros-Martín, B Esteban-García, JA Sánchez-Pérez, P Fernández-Ibáñez. Wastewater disinfection by neutral pH photo-Fenton: the role of solar radiation. *Applied Catalysis B: Environmental*, **181** (2016) 1-6.
34. Arzate-Salgado, S., Ramírez Zamora, R., Zanella, R., Peral, J., Malato, S., Maldonado M.I.; Photocatalytic hydrogen production in a solar pilot plant using a Au/TiO<sub>2</sub> photo catalyst. *Int. J. Hydrogen Energy*, **41** (2016) 11933-11940.
35. Del Moro G., Prieto-Rodríguez L., De Sanctis M., Di Iaconi C., Malato S., Mascolo G. Landfill leachate treatment: Comparison of standalone electrochemical degradation and combined with a novel biofilter. *Chemical Engineering Journal*, **288** (2016) 87–98.
36. I. Carra, J. A. Sánchez Pérez, S. Malato, O. Autin, B. Jefferson and P. Jarvis. Performance of different advanced oxidation processes for tertiary wastewater treatment to remove the pesticide acetamiprid. *J. Chem. Technol. Biotechnol.* **91** (2016) 72–81.
37. S. Miralles-Cuevas, I. Oller, A. Agüera, J. A. Sánchez Pérez, Ricardo Sánchez-Moreno and S. Malato. Is the combination of nanofiltration membranes and AOPs for removing microcontaminants cost effective in real municipal wastewater effluents? *Environ. Sci.: Water Res. Technol.* **2** (2016) 511–520.
38. J. Carbajo, M. Jiménez, S. Miralles, S. Malato, M. Faraldos, A. Bahamonde. Study of application of titania catalysts on solar photocatalysis: Influence of type of pollutants and water matrices. *Chemical Engineering Journal*, **291** (2016) 64–73.
39. Ruiz-Aguirre, A., Polo-López, M.I., Fernández-Ibáñez, P., Zaragoza, G. Assessing the validity of solar membrane distillation for disinfection of contaminated water. *Desalination and Water Treatment* **55** (2015) 2792-2799

40. Ferro, G., Polo-López, M.I., Martínez-Piernas, A.B., Fernández-Ibáñez, P., Agüera, A., Rizzo, L. Cross-Contamination of Residual Emerging Contaminants and Antibiotic Resistant Bacteria in Lettuce Crops and Soil Irrigated with Wastewater Treated by Sunlight/H<sub>2</sub>O<sub>2</sub>. *Environmental Science and Technology*, **49** (2015) 11096-11104.
41. Polo, D., García-Fernández, I., Fernández-Ibáñez, P., Romalde J.L. Solar water disinfection (SODIS): Impact on hepatitis A virus and on a human Norovirus surrogate under natural solar conditions. *Int. Microbiology* **18** (2015) 41-49.
42. Irene Carra, José Antonio Sánchez Pérez, Sixto Malato, Olivier Autin, Bruce Jefferson, Peter Jarvis. Application of high intensity UVC-LED for the removal of acetamiprid with the photo-Fenton process. *Chemical Engineering Journal* **264** (2015) 690-698.
43. G. Rivas, I. Carra, J. L. García Sánchez, J. L. Casas López, S. Malato, J. A. Sánchez Pérez. Modelling of the operation of raceway pond reactors for micropollutant removal by solar photo-Fenton as a function of photon absorption. *Appl. Catal. B: Environ.* **178** (2015) 210-217.
44. Stefanos Papoutsakis, Zahra Afshari, Sixto Malato, César Pulgarin. Elimination of the iodinated contrast agent iohexol in water, wastewater and urine matrices by application of photo-Fenton and ultrasound advanced oxidation processes. *J. Environ. Chem. Eng.* **3** (2015) 2002–2009.
45. Jaime Giménez, Bernardí Bayarri, Óscar González, Sixto Malato, José Peral, Santiago Esplugas. Advanced Oxidation Processes at Laboratory Scale: Environmental and Economic Impacts. *ACS Sustainable Chem. Eng.* **3** (2015) 3188–3196.
46. Ioannis Poullos, Sixto Malato, Dionissios, Mantzavinos. Photocatalysis Science and Applications. *Appl. Catal. B: Environ.* **178** (2015) 1.
47. Mendes Saggiaro E., Sousa Oliveira A., Pavesi T., Margarita Jiménez Tototzintle, Maldonado M. I., Correia F.V., Costa Moreira J. Solar CPC Pilot Plant Photocatalytic Degradation of Indigo Carmine Dye in Waters and Wastewaters Using Supported-TiO<sub>2</sub>: Influence of Photodegradation Parameters. *Inter. J. Photoenergy* **2015** (2015) 656153.
48. Fernández-Ibáñez P., Polo-López M.I., Malato, S. Wadhwa, S. Hamilton, J.W.J. Dunlop, P.S.M. D'Sa, R. Magee, E. O'Shea, K. Dionysiou, D.D. Byrne, J.A. Solar photocatalytic disinfection of water using titanium dioxide graphene composites. *Chem. Eng. J.* **261** (2015) 36-44.
49. Keogh, M.B. Castro-Alfárez, M. Polo-López, M.I. Fernández Calderero, I. Al-Eryani, Y.A. Joseph-Titus, C. Sawant, B. Dhodapkar, R. Mathur, C. McGuigan, K.G. Fernández-Ibáñez, P. Capability of 19-L polycarbonate plastic water cooler containers for efficient solar water disinfection (SODIS): Field case studies in India, Bahrain and Spain. *Solar Energy* **116** (2015) 1-11.
50. Fiorentino, A. Ferro, G. Alferez, M.C. Polo-López, M.I. Fernández-Ibáñez, P. Rizzo, L. Inactivation and regrowth of multidrug resistant bacteria in urban wastewater after disinfection by solar-driven and chlorination processes. *J. Photochem. Photobiol. B: Biol.* **148** (2015) 43-501.
51. García-Fernández, I. Fernández-Calderero, I. Polo-López, M.I. Fernández-Ibáñez, P. Disinfection of urban effluents using solar TiO<sub>2</sub> photocatalysis: A study of significance of dissolved oxygen, temperature, type of microorganism and water matrix. *Catalysis Today* **240** (2015) 30-38
52. Byrne, J.A. Dunlop, P.S.M. Hamilton, J.W.J. Fernández-Ibáñez, P. Polo-López, I. Sharma, P.K. Vennard, A.S. A Review of Heterogeneous Photocatalysis for Water and Surface Disinfection. *Molecules* **20** (2015) 5574-5615.
53. Ortega-Gómez, E. Ballesteros Martín, M.M., Carratala Ripolles, A., Fernández Ibañez P., Sánchez Pérez J.A., Pulgarín, C. Principal parameters affecting virus inactivation by the solar photo-Fenton process at neutral pH and  $\mu$ M concentrations of H<sub>2</sub>O<sub>2</sub> and Fe<sup>2+/3+</sup> *Appl. Catal. B: Environ.* **174-175** (2015) 395-402.
54. Spasiano, D., Marotta, R., Fernández-Ibáñez, P., Malato, S., Di Somma, I. Solar photocatalysis: history, principles, materials, reactors, some commercial and pre-industrialized applications. A comprehensive approach. *Appl. Catal. B: Environ.* **170-171** (2015) 90-123.
55. Ferro, G., Castro-Alferez, M., Polo-Lopez, M.I., Rizzo, L., Fernández-Ibáñez, P. Urban wastewater disinfection for agricultural reuse: effect of solar driven AOPs in the inactivation of a multidrug resistant E. coli strain. *Appl. Catal. B: Environ.* **178** (2015) 65-73.
56. Mendes Saggiaro, E. Sousa Oliveira, A. Forsin Buss, A. de Paiva Magalhaes, D. Pavesi, T. Jiménez, M. Maldonado, M. I. Vieira Ferreira, L. F. Costa Moreira, J. Photo-decoloration and ecotoxicological effects of solar compound parabolic collector pilot plant and artificial light photocatalysis of indigo carmine dye. *Dyes and Pigments* **113** (2015) 571-580.
57. Cabrera Reina, A. Santos-Juanes, L. García Sánchez, J.L. Casas López, J.L. Maldonado Rubio, M.I. Li Puma, G. Sánchez Pérez, J.A. Modeling the photo-Fenton oxidation of the pharmaceutical 1 paracetamol in water including the effect of photon absorption (VRPA). *Appl. Catal. B: Environ.* **166-167** (2015) 295-301.

58. Jiménez, M. Maldonado, M. I. Rodríguez, E. M. Hernández-Ramírez, A. Saggiaro, E. Carra, I. Sánchez Pérez, J. A. Supported TiO<sub>2</sub> solar photocatalysis at semi-pilot scale: Degradation of pesticides found in citrus processing industry wastewater, reactivity and influence of photogenerated species. *J. Chem. Technol. Biotech.* **90** (2015) 149-157.
59. Cabrera Reina, A. Santos-Juanes Jordá, L. Casas López J.L. Maldonado Rubio M.I. García Sánchez J.L. Sánchez Pérez J.A. Biological oxygen demand as a tool to predict membrane bioreactor best operating conditions for a photo-Fenton pre-treated toxic wastewater. *J. Chem. Technol. Biotech.* **90** (2015) 110-119.
60. Jiménez-Tototzintle, M.; Oller, I. Hernández-Ramírez, A.; Malato, S. Maldonado, M. I. Remediation of agro-food industry effluents by biotreatment combined with supported TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub> solar photocatalysis. *Chem. Eng. J.* **273** (2015) 205-213.
61. Stefanos Papoutsakis, Sara Miralles-Cuevas, Nicolas Gondrexon, Stephane Baup, Sixto Malato, Cesar Pulgarin. Coupling between high-frequency ultrasound and solar photo-Fenton at pilot scale for the treatment of organic contaminants: An initial approach. *Ultras. Sonochem.* **22** (2015) 527-534.
62. S. Miralles-Cuevas, I. Oller, J. A. Sánchez Pérez, S. Malato. Application of solar photo-Fenton at circumneutral pH to nanofiltration concentrates for removal of pharmaceuticals in MWTP effluents. *Environ Sci Pollut Res* **22** (2015) 846–855.
63. Jaime Giménez, Bernardí Bayarri, Óscar González, Sixto Malato, José Peral, Santiago Esplugas. A Comparison of the Environmental Impact of Different AOPs: Risk Indexes. *Molecules* **20** (2015) 503-518, 2015.
64. Carlos Amor, Estefanía De Torres-Socías, José A. Peres, Manuel I. Maldonado, Isabel Oller, Sixto Malato, Marco S. Lucas. Mature landfill leachate treatment by coagulation/flocculation combined with Fenton and solar photo-Fenton processes. *J. Hazar. Mat.* **286** (2015) 261-268.
65. S. Papoutsakis, F.F. Brites-Nóbrega, C. Pulgarin, S. Malato. Benefits and limitations of using Fe(III)-EDDS for the treatment of highly contaminated water at near-neutral pH. *J. Photochem. Photobiol. A: Chem.* **303** (2015), 1-7.
66. Irene Carra, Carla Sirtori, Laura Ponce-Robles, José Antonio Sánchez Pérez, Sixto Malato, Ana Agüera. Degradation and monitoring of acetamiprid, thiabendazole and their transformation products in an agro-food industry effluent during solar photo-Fenton treatment in a raceway pond reactor. *Chemosphere* **130** (2015) 73-81.
67. S. Miralles-Cuevas, I. Oller, A. Agüera, L. Ponce-Robles, J.A. Sánchez Pérez, S. Malato. Removal of microcontaminants from MWTP effluents by combination of membrane technologies and solar photo-Fenton at neutral pH. *Catalysis Today* **252** (2015) 78-83.
68. S. Papoutsakis, S. Miralles-Cuevas, I. Oller, J.L. Garcia Sanchez, C. Pulgarin, S. Malato. Microcontaminant degradation in municipal wastewater treatment plant secondary effluent by EDDS assisted photo-Fenton at near-neutral pH: An experimental design approach. *Catalysis Today* **252** (2015) 61-69.
69. De Torres-Socías E., Prieto-Rodríguez L., Zapata A., Fernández-Calderero I., Oller I., Malato S.. Detailed treatment line for a specific landfill leachate remediation. Brief economic assessment. *Chem. Eng. J.* **261** (2015) 60–66.
70. Polo-López, M.I. Castro-Alfárez, M. Oller, I. Fernández-Ibáñez P. Assessment of solar photo-Fenton, photocatalysis, and H<sub>2</sub>O<sub>2</sub> for removal of phytopathogen fungi spores in synthetic and real effluents of urban wastewater. *Chem. Eng. J.* **257** (2014) 122–130.
71. Ruiz-Aguirre, A. Polo-López, M.I. Fernández-Ibáñez, P. Zaragoza, G. Assessing the validity of solar membrane distillation for disinfection of contaminated water. *Desal. Water Treat.* **21** (2014) 1–8.
72. Ortega-Gómez E., Esteban García B., Ballesteros Martín M. M., Fernández-Ibáñez P., Sánchez Pérez J. A., Inactivation of natural enteric bacteria in real municipal wastewater by solar photo-fenton at neutral pH. *Wat. Res.* **63** (2014) 316-324.
73. Saggiaro, E. M. Oliveira, A. S. Pavesi; T. Jiménez-Tototzintle, M. Maldonado, M. I. Correia, F. V. Moreira, J. C. Solar CPC pilot plant photocatalytic degradation of Bisphenol A in waters and wastewaters using suspended and supported-TiO<sub>2</sub>. Influence of photogenerated species. *Environ. Sci. Pol. Res.* **21** (2014) 12112-12121.
74. Marquez, G. Rodriguez, E. M. Maldonado, M. I. Alvarez, P. M. Integration of ozone and solar TiO<sub>2</sub>-photocatalytic oxidation for the degradation of selected pharmaceutical compounds in water and wastewater. *Sep. Pur. Technol.* **136** (2014) 18-26.
75. Miranda-García N., Suárez S., Ignacio Maldonado M., Malato S., Sánchez B. Regeneration approaches for TiO<sub>2</sub> immobilized photocatalyst used in the elimination of emerging contaminants in water. *Catal. Today* **230** (2014) 27-34.

76. Karaolia, P., Michael, I., García-Fernández, I., Agüera, A., Malato, S., Fernández-Ibáñez, P., Fatta-Kassinos, D. Reduction of clarithromycin and sulfamethoxazole-resistant *Enterococcus* by pilot-scale solar-driven Fenton oxidation. *Sci. Tot. Environ.* **468-469** (2014) 19-27.
77. Carra I., Santos-Juanes L., Ación Fernández F. G., Malato S., Sánchez Pérez J. A.. New approach to solar photo-Fenton operation. Raceway ponds as tertiary treatment technology. *J. Hazar. Mat.*, **279** (2014) 322-329.
78. Miralles-Cuevas S., Oller I., Sánchez Pérez J.A., Malato S. Removal of pharmaceuticals from MWTP effluent concentrate by nanofiltration and solar photo-Fenton using different iron complexes at neutral pH. *Wat. Res.*, **64** (2014) 23-31.
79. Miralles-Cuevas S., Prieto-Rodríguez L., De Torres-Socías E., Polo-López M.I., Fernández-Ibañez P., Oller I., Malato S. Strategies for hydrogen peroxide dosing based on dissolved oxygen concentration for solar photo-Fenton treatment of complex wastewater. *Global NEST Journal*, **16** (2014) 553-560.
80. Carra I., García Sánchez J.L., Malato S., Sánchez Pérez J.A. Modelling Micropollutant Removal By Solar Photo-Fenton. *Global NEST Journal*, **16** (2014) 445-454.
81. De Torres-Socías E., Cabrera-Reina A., Trinidad M. J., Yuste F. J., Oller I., Malato S. Dynamic modelling for cork boiling wastewater treatment at pilot plant scale. *Environ Sci Pollut Res*, **21** (2014) 12182-189.
82. Saldaña-Robles, A. Guerra-Sánchez, R. Mendez-Tovar, M. Maldonado-Rubio, M. I. Peralta-Hernández, J. M. Optimization of the operating parameters using RSM for the Fenton oxidation process and adsorption on vegetal carbon of MO solutions. *J. Industrial and Engineering Chemistry*, **20**, 848-857. 2014
83. Cabrera Reina, A Casas López, J.L. Maldonado Rubio, M.I Santos-Juanes Jordá, L García Sánchez, J.L. Sánchez Pérez, J.A. Effects of Environmental Variables on the Photo-Fenton Plant Design. *Chemical Engineering Journal*, **237**, 469 – 477. 2014
84. María M. Micó Ana Zapata Manuel I. Maldonado Jordi Bacardit Jorge Malfeito Carme Sans Fosetyl Al photo-Fenton degradation and its endogeneous catalyst inhibition. *Journal of Hazardous Materials*, **265**, 177-184. 2014
85. M.L. Maya-Treviño, J.L. Guzmán-Mar, L. Hinojosa-Reyes, N.A. Ramos-Delgado, M.I. Maldonado, A. Hernández-Ramírez. Activity of the ZnO-Fe<sub>2</sub>O<sub>3</sub> catalyst on the degradation of dicamba and 2,4-D herbicides using simulated solar light. *Ceramics International*, **40**, 8701-8708. 2014
86. I. Carra, S. Malato, M. Jiménez, M.I. Maldonado, J.A. Sánchez Pérez. Microcontaminant removal by solar photo-Fenton at natural pH run with sequential and continuous iron additions. *Chemical Engineering Journal* **235**, 132–140. 2014
87. N. Miranda-García, S. Suárez, M. Ignacio Maldonado, S. Malato, B. Sánchez. Regeneration approaches for TiO<sub>2</sub> immobilised photocatalyst used in the elimination of emerging contaminants in water. *Catalysis Today* **230** 27-34. 2014
88. L. Fernandes M. Lucas M. I. Maldonado I. Oller A. Sampaio Treatment of pulp mill wastewater by *Cryptococcus podzolicus* and solar photo-Fenton: a case study. *Chemical Engineering Journal* **245**, 158-165. 2014.
89. D.A. Keane, K.G. McGuigan, P. Fernández Ibáñez, M.I. Polo-López, J.A. Byrne, P.S.M. Dunlop, K. O'Shea, D.D. Dionysiou, S.C. Pillai. Solar photocatalysis for water disinfection: materials and reactor design. *Catalysis Science & Technology*, **4**, 1211-1226, 2014.
90. J. Rodríguez-Chueca, M.I. Polo-López, R. Mosteo, M.P. Ormad, P. Fernández-Ibáñez. Disinfection of real and simulated urban wastewater effluents using a mild solar photo-Fenton. *Applied Catalysis B: Environmental*, **150-151**, 619-629, 2014.
91. Ortega-Gómez, E., Ballesteros Martín, M.M., Esteban García, B., Sánchez Pérez, J.A., Fernández Ibáñez, P. Solar photo-Fenton for water disinfection: An investigation of the competitive role of model organic matter for oxidative species. *Applied Catalysis B: Environmental*, **148-149**, 484-489, 2014.
92. R. Nalwanga, B. Quilty, C. Muyanja, P. Fernandez-Ibañez, K.G. McGuigan. Evaluation of solar disinfection of *E. coli* under Sub-Saharan field conditions using a 25L borosilicate glass batch reactor fitted with a compound parabolic collector. *Solar Energy* **100**, 195–202, 2014.
93. Karaolia, P., Michael, I., García-Fernández, I., Agüera, A., Malato, S., Fernández-Ibáñez, P., Fatta-Kassinos, D. Reduction of clarithromycin and sulfamethoxazole-resistant *Enterococcus* by pilot-scale solar-driven Fenton oxidation. *Science of the Total Environment*, **468-469**, 19-27, 2014.
94. P. Fernández Ibáñez, M.I. Polo López, R. Van Grieken, J. Marugán Aguado, F. Martínez Castillejo, R. Molina Gil, E. Ares Mazás, H. Gómez Couso. Proyecto Embiophoto: Eliminación de micro contaminantes y patógenos en aguas residuales mediante procesos de bioxidación avanzada y fotocátalisis. *RETEMA*, **enero-febrero**, 6-9, 2014.

95. S. Miralles-Cuevas, F. Audino, I. Oller, R. Sánchez-Moreno, J.A. Sánchez Pérez, S. Malato. Pharmaceuticals removal from natural water by nanofiltration combined with advanced tertiary treatments (solar photo-Fenton, photo-Fenton-like Fe (III)-EDDS complex and ozonation). *Sep. Pur. Technol.*, **122**, 515-522, 2014.
96. S. Miralles-Cuevas, I. Oller, A. Ruiz Aguirre, J.A. Sánchez Pérez, S. Malato Rodríguez. Removal of pharmaceuticals at microg L-1 by combined nanofiltration and mild solar photo-Fenton. *Chem. Eng. J.*, **239**, 68-74, 2014.
97. Irene Carra, José Luis García Sánchez, José Luis Casas López, Sixto Malato, José Antonio Sánchez Pérez. Phenomenological study and application of the combined influence of iron concentration and irradiance on the photo-Fenton process to remove micropollutants. *Sci. Tot. Environ.*, **478**, 123-132, 2014.
98. C. Adán, A. Bahamonde, I. Oller, S. Malato, A. Martínez-Arias. Influence of iron leaching and oxidizing agent employed on solarphotodegradation of phenol over nanostructured iron-doped titania catalysts. *Appl. Catal. B: Environ.*, **144**, 269-276, 2014.
99. B. Bayarri, J. Giménez, M.I. Maldonado, S. Malato, S. Esplugas. 2,4-Dichlorophenol degradation by means of heterogeneous photocatalysis. Comparison between laboratory and pilot plant performance. *Chem. Eng. J.*, **232**, 405-417, 2013.
100. E. De Torres-Socías, I. Fernández-Calderero, I. Oller, M.J. Trinidad-Lozano, F.J. Yuste, 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>). Toxicity and biodegradability assessment. *Chem. Eng. J.*, **234**, 232-239, 2013.
101. M.B. Fisher, D.A. Keane, P. Fernández-Ibáñez, J. Colreavy, S.J. Hinder, K.G. McGuigan, S.C. Pillai. Nitrogen and Copper doped visible light active TiO<sub>2</sub> photocatalysts for water decontamination. *Applied Catalysis B: Environ.*, **130**, 8-13, 2013.
102. S. Helali, M. I. Polo-López, P. Fernández-Ibáñez, B. Ohtani, F. Amano, S. Malato, C. Guillard. Solar photocatalysis: A green technology for E. coli contaminated water disinfection. Effect of concentration and different types of suspended catalyst. *J. Photochem. Photobiol. A: Chemistry*, **276**, 31- 40, 2013.
103. K. Villa; X. Domènech; S. Malato; M.I. Maldonado; J. Peral. Heterogeneous photocatalytic hydrogen generation in a solar pilot plant. *Int. J. Hydrogen Energy* **38(29)**, 12718-12724, 2013.
104. J. A. Sánchez Pérez, I. M. Román Sánchez, I. Carra, A. Cabrera Reina, J. L. Casas López, S. Malato. Economic evaluation of a combined photo-Fenton/MBR process using pesticides as model pollutant. Factors affecting costs. *J. Hazard Mat.*, **244-245**, 195-203, 2013.
105. N. Klamerth, S. Malato, A. Agüera, A. Fernández-Alba. Photo-Fenton and modified photo-Fenton at neutral pH for the treatment of emerging contaminants in wastewater treatment plant effluents: a comparison. *Wat. Res.*, **47**, 833-840, 2013.
106. L. Prieto-Rodríguez, I. Oller, N. Klamerth, A. Agüera, E.M. Rodríguez, S. Malato. Application of solar AOPs and ozonation for elimination of micropollutants in municipal wastewater treatment plant effluents. *Wat. Res.*, **47**, 1521-1528, 2013.
107. Danilo Spasiano, Lucia del Pilar Prieto Rodriguez, Jaime Carbajo Olleros, Sixto Malato, Raffaele Marotta, Roberto Andreozzi. TiO<sub>2</sub>/Cu(II) photocatalytic production of benzaldehyde benzyl 2 alcohol in solar pilot plant reactor. *Applied Catalysis B: Environmental*, **136-137**, 56-63, 2013.
108. L. Prieto-Rodríguez, D. Spasiano, I. Oller, I. Fernández-Calderero, A. Agüera, S. Malato. Solar photo-Fenton optimization for the treatment of MWTP effluents containing emerging contaminants. *Catalysis Today* **209** 188-194, 2013. 1K008
109. Michael I., Hapeshi E., Aceña J., Perez S., Petrović M., Zapata A., Barceló D., Malato S., Fatta-Kassinos D. Light-induced catalytic transformation of ofloxacin by solar Fenton in various water matrices at a pilot plant: Mineralization and characterization of major intermediate products. *Sci. Tot. Environ.* **461-462**, 39-48, 2013.
110. Miralles-Cuevas S., Arqués A., Maldonado M.I., Sánchez-Pérez J.A., Malato Rodríguez S. Combined nanofiltration and photo-Fenton treatment of water containing micropollutants. *Chem. Eng. J.*, **224**, 89-95, 2013.
111. Carra I., Casas López J.L., Santos-Juanes L., Malato S., Sánchez Pérez J.A. Iron dosage as a strategy to operate the photo-Fenton process at initial neutral pH. *Chem. Eng. J.*, **224**, 67-74, 2013.
112. Irene Carra, Sixto Malato, Lucas Santos-Juanes, José Luis Casas López, José Antonio Sánchez Pérez. Study of iron sources and hydrogen peroxide supply in the photo-Fenton process. *J. Chem. Technol. Biotech.*, **88**, 636-643, 2013.
113. Joaquim L. Faria, Pilar Fernández-Ibáñez, Sixto Malato. "Selected contributions of the 7th european meeting on solar chemistry and photocatalysis:environmental applications (SPEA 7)". de *Catalysis Today* Vol. **209**. 2013. 34 artículos.
114. Joaquim L. Faria, Sixto Malato. "Solar Chemistry and Photocatalysis – Environmental Applications". de *Photochemical and Photobiological Sciences*, Vol **12 (4)**, 2013. 16 artículos.

115. M. Agulló-Barceló, M.I. Polo-López, F. Lucena, J. Jofre, P. Fernández-Ibáñez. Solar Advanced Oxidation Processes as disinfection tertiary treatments for real wastewater: Implications for water reclamation. *Applied Catalysis B: Environmental*, **136–137**; 341–350, 2013.
116. M.I. Polo-López, I. Oller, P. Fernández-Ibáñez. Benefits of photo-Fenton at low concentrations for solar disinfection of distilled water. A case study: *Phytophthora capsici*. *Catalysis Today*, **209**; 181–187, 2013.
117. A. 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. *Catalysis Today*, **209**; 147–152, 2013.
118. E. Ortega-Gómez, B. Esteban-García, M.M. Ballesteros-Martín, P. Fernández-Ibáñez, J.A. Sánchez-Pérez, Inactivation of *Enterococcus faecalis* in simulated wastewater treatment plant effluent by solar photo-Fenton at initial neutral pH. *Catalysis Today* **209** 195–200. 2013.
119. M.B. Fisher, D.A. Keane, P. Fernández-Ibáñez, J. Colreavy, S.J. Hinder, K.G. McGuigan, S.C. Pillai. Nitrogen and Copper doped visible light active TiO<sub>2</sub> photocatalysts for water decontamination. *Applied Catalysis B*, **130**, 8-13. 2013
120. A. Bernabeu, S. Palacios, R. Vicente, R.F. Vercher, S. Malato, A. Arques, A.M. Amat. Solar photo-Fenton at mild conditions to treat a mixture of six emerging pollutants. *Chemical Engineering Journal*, **198-199**, 65–72, 2012.
121. Alam G. Trovo, Raquel F. Pupo Nogueira, Ana Aguera, Amadeo R. Fernandez-Alba, Sixto Malato. Paracetamol degradation intermediates and toxicity during photo-Fenton treatment using different iron species. *Water Research*, **46**, 5374-5380, 2012.
122. E. Mena, A. Rey, B. Acedo, F.J. Beltrán, S. Malato. On ozone-photocatalysis synergism in black-light induced reactions: Oxidizing species production in photocatalytic ozonation versus heterogeneous photocatalysis. *Chemical Engineering Journal*, **204-206**, 131-140, 2012.
123. Marco S. Lucas, José A. Peres, Carlos Amor, Lucía Prieto-Rodríguez, Manuel I. Maldonado, Sixto Malato. Tertiary treatment of pulp mill wastewater by solar photo-Fenton. *J. Hazardous Materials*, **225–226**, 173–181, 2012.
124. L. Prieto-Rodríguez., S. Miralles-Cuevas, I. Oller, P. Fernández-Ibáñez, A. Agüera, J. Blanco, S. Malato. Optimization of mild solar TiO<sub>2</sub> photocatalysis as a tertiary treatment for municipal wastewater treatment plant effluents. *Applied Catalysis B: Environmental*, **128**, 119–125, 2012.
125. E. Ortega-Gómez, P. Fernández-Ibáñez, M.M. Ballesteros-Martín, M.I. Polo-López, B. Esteban-García, J. A. Sánchez-Pérez. Water disinfection using photo-Fenton: Effect of temperature on *Enterococcus faecalis* survival. *Water Research*, **46**, 6154-6162. 2012.
126. F. Bichai, M.I. Polo-Lopez, P. Fernández-Ibáñez. Solar disinfection of wastewater to reduce contamination of lettuce crops by *E. coli* in reclaimed water irrigation. *Water Research*, **40**, 6040-6050. 2012.
127. H. Gómez-Couso; M. Fontán-Sainz; P. Fernández-Ibáñez; E. Ares-Mazás. Speeding up the solar water disinfection process (SODIS) against *Cryptosporidium parvum* by using 2.5 l static solar reactors fitted with compound parabolic concentrators (CPCs). *Acta Tropica*, **124(3)**, 235-242. 2012.
128. H. Gómez-Couso, M. Fontán-Sainz, C. Navntoft, P. Fernández-Ibáñez, E. Ares-Mazás. Comparison of different solar reactors for household disinfection of drinking water in developing countries: evaluation of their efficacy in relation to the waterborne enteropathogen *Cryptosporidium parvum*. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **106**, 645–652. 2012.
129. A. Bassam, I. Salgado-Tránsito, I. Oller, E. Santoyo, A. E. Jiménez, J. A. Hernandez, A. Zapata, S. Malato. Optimal performance assessment for a photo-Fenton degradation pilot plant driven by solar energy using artificial neural networks. *Int. J. Energy Res.* **36**, 1314–1324, 2012.
130. D.M.A. Alrousan, M.I. Polo-Lopez, P.S.M. Dunlop, P. Fernandez-Ibáñez, J.A. Byrne. Photocatalytic Enhancement of Solar Disinfection of Water with Immobilised Titanium Dioxide in Re-circulating Flow CPC Reactors. *Applied Catalysis B: Environ.*, **128**, 126-134. 2012
131. K.G. McGuigan, R.M. Conroy, H.J. Mosler, M. du Preez, E. Ubomba-Jaswa, P. Fernandez-Ibáñez. Solar Water Disinfection (SODIS): A review from bench-top to roof-top. *Journal of Hazardous Materials*, **235–236**, 29–46, 2012
132. I. García-Fernández, M.I. Polo-López, I. Oller, P. Fernández-Ibáñez. Bacteria and fungi inactivation using Fe<sup>3+</sup>/sunlight, H<sub>2</sub>O<sub>2</sub>/sunlight and near neutral photo-Fenton: a comparative study. *Applied Catalysis B: Environ.*, **121-122**, 20-29. 2012.
133. M. Fontán-Sainz, H. Gómez-Couso, P. Fernandez-Ibanez, E. Ares-mazás, Evaluation of the solar water disinfection process (SODIS) against *Cryptosporidium parvum* using a 25 L static solar reactor fitted with a compound parabolic collector (CPC). *American Journal of Tropical Medicine & Hygiene*, **86(2)**, 223-228. 2012.

134. M.I. Polo-López, P. García-Fernández, T. Velegraki, A. Katsoni, I. Oller, D. Mantzavinos, P. Fernández-Ibáñez. Mild solar photo-Fenton: an effective tool for the removal of Fusarium from simulated municipal effluents. *Applied Catalysis B: Environ.*, **111-112**, 545-554. 2012.
135. L.C. Navntoft, P. Fernandez-Ibañez, F. Garreta UV solar radiation on a tilted and horizontal plane: analysis and comparison of 4 years of measurements. *Solar Energy* **86**, 307-318. 2012.
136. S. Malato, M.I. Maldonado, P. Fernández, I. Oller. Tratamiento solar de aguas industriales biorecalcitrantes. *CIC*, **493**, 38-43. 2012.
137. Nikolaus Klamerth, Sixto Malato, Ana Agüera, Amadeo Fernández-Alba, Gilles Mailhot. Treatment of Municipal Wastewater Treatment Plant Effluents with Modified Photo-Fenton As a Tertiary Treatment for the Degradation of Micro Pollutants and Disinfection. *Environ. Sci. Technol.*, **46**, 2885–2892. 2012.
138. L. Prieto-Rodríguez, S. Miralles-Cuevas, I. Oller, A. Agüera, G. Li Puma, S. Malato. Treatment of emerging contaminants in wastewater treatment plants (WWTP) effluents by solar photocatalysis using low TiO<sub>2</sub> concentrations. *J. Hazard. Mat.* **211– 212**, 131– 137. 2012.
139. C. Sirtori, A. Zapata, S. Malato, A. Agüera. Formation of chlorinated by-products during photo-Fenton degradation of pyrimethanil under saline conditions. Influence on toxicity and biodegradability. *J. Hazard. Mat.*, **217– 218**, 217–223. 2012.
140. Carla Sirtori, Ana Zapata, Wolfgang Gernjak , Sixto Malato , Ana Agüera. Photolysis of flumequine: Identification of the major phototransformation products and toxicity measures. *Chemosphere* **88**, 627–634. 2012.
141. I. Michael, E. Hapeshi, V. Osorio, S. Perez, M. Petrovic, A. Zapata, S. Malato, D. Barceló, D. Fatta-Kassinos. Solar photocatalytic treatment of trimethoprim in four environmental matrices at a pilot scale: Transformation products and ecotoxicity evaluation. *Sci. Tot. Environ.*, **430**, 167-173. 2012.
142. Rodrigo Poblete, Lucia Prieto-Rodríguez, Isabel Oller, Manuel I. Maldonado, Sixto Malato, Emilia Otal, Luis F. Vilches, Constantino Fernández-Pereira. Solar photocatalytic treatment of landfill leachate using a solid mineral by-product as a catalyst. *Chemosphere*, **88**, 1090-1096. 2012.
143. Rafael Gonzalez-Olmos, Maria J. Martin, Anett Georgi, Frank-Dieter Kopinke, Isabel Oller, Sixto Malato. Zeolites as heterogeneous catalysts in solar Fenton-like reactions at neutral pH. *Appl. Catal. B: Environ.*, **125**, 51-58, 2012.
144. Polo-López M.I., Fernández-Ibáñez P., Ubomba-Jaswa E., Navntoft C., Garcia-Fernandez I., Dunlop P.S.M., Schmidt M., Byrne J.A., McGuigan K.G.. Elimination of water pathogens with solar radiation using an automated sequential batch CPC Reactor. *Journal of Hazardous Materials*, **196**, 16-21. 2011
145. Cassano D., Zapata A., Brunetti G., Del Moro G., Di Iaconi C., Oller I., Malato S., Mascolo G.. Comparison of several combined/integrated biological-AOPs setups for the treatment of municipal landfill leachate: Minimization of operating costs and effluent toxicity. *Chemical Engineering Journal*, **172**, 250– 257, 2011.
146. I. Oller, S. Malato and J.A. Sánchez-Pérez. Combination of Advanced Oxidation Processes and biological treatments for wastewater decontamination-A review. *Science of the Total Environment*, **409**, 4141–4166, 2011.
147. Cristina Postigo, Carla Sirtori, Isabel Oller, Sixto Malato, Manuel Ignacio Maldonado, Miren López de Alda, Damià Barcelo. Photolytic and photocatalytic transformation of methadone in aqueous solutions under solar irradiation: Kinetics, characterization of major intermediate products and toxicity evaluation. *Wat. Res.*, **45**, 4815-4826, 2011.
148. C. Adán J. Carbajo, A. Bahamonde, I. Oller, S. Malato, A. Martínez-Arias. Solar light assisted photodegradation of phenol with hydrogen peroxide over iron-doped titania catalysts: role of iron leached/readsorbed species. *Appl. Catal. B: Environ.*, **108-109**, 168-176, 2011.
149. Olga Sánchez, Laura Garrido, Irene Forn, Ramon Massana, Manuel Ignacio Maldonado and Jordi Mas. Molecular characterization of activated sludge from a seawater-processing wastewater treatment plant. *Microbial Biotechnology*, **4(5)**, 628–642, 2011.
150. Ballesteros Martín M. M., L. Garrido, J. L. Casas López , O. Sánchez, J. Mas, M. I. Maldonado, J. A. Sánchez Pérez. An analysis of the bacterial community in a membrane bioreactor fed with photo-Fenton pre-treated toxic water. *J Ind Microbiol Biotechno*, **38**:1171–1178. 2011.
151. M.I. Polo-López, I. García-Fernández, I. Oller, P. Fernández-Ibáñez. Solar disinfection of fungal spores in water aided by low concentrations of hydrogen peroxide. *Photochem. Photobiol. Sci.*, **10**, 381-388, 2011.
152. J. A. Byrne, P Fernandez-Ibañez, P.S.M. Dunlop, D.M.A. Alrousan, J.W.J. Hamilton. Photocatalytic Enhancement for Solar Disinfection of Water: A Review. *International Journal of Photoenergy*, **2011**, 1-12 2011.
153. Alam G. Trovó, Raquel F.P. Nogueira, Ana Agüera, Amadeo R. Fernandez-Alba, Sixto Malato. Degradation of the antibiotic amoxicillin by photo-Fenton process – chemical and toxicological assessment. *Wat. Res.*, **45**, 1394-1402, 2011.



154. Carla Sirtori, Ana Zapata, Wolfgang Gernjak, Sixto Malato, Antonio Lopez, Ana Agüera. Solar photo-Fenton degradation of nalidixic acid in waters and wastewaters of different composition. Analytical assessment by LC-TOF-MS. *Wat. Res.*, **45**, 1736-1744, 2011.
155. L. Prieto-Rodríguez, I. Oller, A. Zapata, A. Agüera, S. Malato. Hydrogen peroxide automatic dosing based on dissolved oxygen concentration during solar photo-Fenton. *Catalysis Today*, **161**, 247–254, 2011
156. N. Klammerth, S. Malato, M.I. Maldonado, A. Agüera, A. Fernández-Alba. Modified photo-Fenton for degradation of emerging contaminants in municipal wastewater effluents. *Catalysis Today* **161**, 241–246, 2011.
157. M. Jiménez, I. Oller, M.I. Maldonado, S. Malato, A. Hernández-Ramírez, A. Zapata, J.M. Peralta-Hernández. Solar photo-Fenton degradation of herbicides partially dissolved in water. *Catalysis Today* **161**, 214–220, 2011.
158. N. Miranda-García, S. Suárez, B. Sánchez, J. M. Coronado, S. Malato, M. Ignacio Maldonado. Photocatalytic degradation of emerging contaminants of municipal wastewater treatment plant effluent using immobilized TiO<sub>2</sub> in a solar pilot plant. *Appl. Catal. B: Environ.*, **103**, 294-301, 2011..
159. Cristina Postigo, Carla Sirtori, Isabel Oller, Sixto Malato, Manuel Ignacio Maldonado, Miren López de Alda, Damià Barceló. Solar transformation and photocatalytic treatment of cocaine in water: kinetics, characterization of major intermediate products and toxicity evaluation. *Appl. Catal. B: Environ.*, **104**, 37-48, 2011.
160. L. Santos-Juanes, J.L. García Sánchez, J.L. Casas López, I. Oller, S. Malato, J.A. Sánchez Pérez. Dissolved oxygen concentration: A key parameter in monitoring the photo-Fenton process. *Appl. Catal. B: Environ.*, **104**, 316-323, 2011.
161. E. Ubomba-Jaswa, P. Fernández-Ibáñez, K.G. McGuigan. A Preliminary Ames-Fluctuation Assay Assessment of the Genotoxicity of Drinking Water that has been Solar Disinfected in Polyethylene Terephthalate (PET) Bottles. *Journal of Water & Health*, **8**, 712-719, 2010.
162. Eunice Ubomba-Jaswa, Pilar Fernández-Ibáñez, Christian Navntoft, M. Inmaculada Polo-López, Kevin G. McGuigan. Investigating the microbial inactivation efficiency of a 25 L batch solar disinfection (SODIS) reactor enhanced with a compound parabolic collector (CPC) for household use. *Journal of Chemical Technology & Biotechnology*, **85**, 1028-1037, 2010.
163. Ana Zapata, Isabel Oller, Carla Sirtori, Alejandro Rodríguez, José Antonio Sánchez-Pérez, Sixto Malato. Tratamiento de aguas reales contaminadas con plaguicidas a escala industrial. Combinación de los procesos de foto-Fenton solar y oxidación biológica. *Tecnoambiente*, **208**, 27-30, 2010.
164. M.M. Ballesteros Martín, J.L. Casas López, I. Oller, S. Malato, J.A. Sánchez Pérez. A comparative study of different tests for biodegradability enhancement determination during AOP treatment of recalcitrant toxic aqueous solutions. *Ecotoxicology and Environmental Safety*, **73**, 1189–1195, 2010.
165. J. L. Casas López, A. Cabrera Reina, E. Ortega Gómez, M. M. Ballesteros Martín, S. Malato Rodríguez, J. A. Sánchez Pérez. Integration of Solar Photocatalysis and Membrane Bioreactor for Pesticides Degradation. *Separation Science and Technology*, **45**, 1571–1578, 2010.
166. N. Klammerth, L. Rizzo, S. Malato, Manuel I. Maldonado, A. Agüera, A.R. Fernández-Alba. Degradation of fifteen emerging contaminants at  $\mu\text{g L}^{-1}$  initial concentrations by mild solar photo-Fenton in MWTP effluents. *Wat Res.* **44**, 545-554, 2010.
167. N. Klammerth, S. Malato, M. I. Maldonado, A. Agüera, A. R. Fernández-Alba. Application of photo-Fenton as a tertiary treatment of emerging contaminants in municipal wastewater. *Env. Sci. Technol.*, **44**, 1792-1798, 2010.
168. E. M. Rodríguez, G. Fernández, N. Klammerth, M. I. Maldonado, P. M. Álvarez, S. Malato. Efficiency of different solar light-based advanced oxidation processes on the oxidation of bisphenol-A in Water. *App. Catalysis B: Environ.* **95**, 228-237, 2010.
169. Jelena Radjenovic, Carla Sirtori, Mira Petrovic, Damià Barceló, Sixto Malato. Characterization of intermediate products of solar photocatalytic degradation of ranitidine at pilot-scale. *Chemosphere* **79**, 368-376, 2010.
170. Carla Sirtori, Ana Agüera, Wolfgang Gernjak, Sixto Malato. Effect of water-matrix composition on Trimethoprim solar photodegradation kinetics and pathways. *Wat. Res.*, **44**, 2735-2744, 2010.
171. F. Mazille, T. Schoettl, N. Klammerth, S. Malato, C. Pulgarin. Field solar degradation of pesticides and emerging water contaminants mediated by polymer films containing titanium and iron oxide with synergistic heterogeneous photocatalytic activity at neutral pH. *Wat. Res.*, **44**, 3029-3038, 2010.
172. A. Zapata, I. Oller, L. Rizzo, S. Hilgert, M.I. Maldonado, J.A. Sánchez-Pérez, S. Malato. Evaluation of operating parameters involved in solar photo-Fenton treatment of wastewater: Interdependence of initial pollutant concentration, temperature and iron concentration. *Applied Catalysis B: Environmental*, **97**, 292–298, 2010.
173. A. Zapata, S. Malato, J.A. Sánchez-Pérez, I. Oller, M.I. Maldonado. Scale-up strategy for a combined solar photo-Fenton/biological system for remediation of pesticide-contaminated water. *Catalysis Today*, **151**, 100–106, 2010.

174. A. Zapata, I. Oller, C. Sirtori, A. Rodríguez, J.A. Sánchez-Pérez, A. López, M. Mezcua, S. Malato. Decontamination of industrial wastewater containing pesticides by combining large-scale homogeneous solar photocatalysis and biological treatment. *Chemical Engineering Journal*, **160**, 447–456, 2010.
175. N. Miranda-García, M. Ignacio Maldonado, J.M. Coronado, Sixto Malato. Degradation study of 15 emerging contaminants at low concentration by immobilized TiO<sub>2</sub> in a pilot plant. *Catalysis Today*, **151**, 107–113, 2010
176. Sixto Malato, Isabel Oller, Pilar Fernández, Manuel I. Maldonado. Descontaminación de aguas residuales industriales mediante fotocátalisis solar. *FarmaEspaña Industrial*, **10**, 26-28, 2010.
177. C. Sordo, R. Van Grieken, J. Marugan, P. Fernandez-Ibañez. "Solar photocatalytic disinfection with immobilised TiO<sub>2</sub> at pilot-plant scale". *Water Science and Technology*, **61** (2), 507-512, 2010.
178. M.I. Polo-López, P. Fernández-Ibañez, I. García-Fernández, I. Oller, I. Salgado-Tránsito, C. Sichel "Resistance of *Fusarium* sp spores to solar TiO<sub>2</sub> photocatalysis: influence of spore type and water (scaling-up results)", *Journal of Chemical Technology & Biotechnology*, **85**, 1038-1048, 2010.
179. González O., Sans C., Esplugas S., Malato S. Application of solar advanced oxidation processes to the degradation of the antibiotic sulfamethoxazole. *Photochem. Photobiol. Sci.*, **8**, 1032-1039, 2009.
180. M.M. Ballesteros Martí, J.A. Sánchez Pérez, J.L. García Sánchez, J.L. Casas López, S. Malato Rodriguez. Effect of pesticide concentration on the degradation process by combined solar photo-Fenton and biological treatment. *Wat Res.* **43**, 3838-3848, 2009.
181. S. Malato, P. Fernández-Ibañez, M.I. Maldonado, J. Blanco, W. Gernjak. Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. *Catalysis Today* **147**, 1–59, 2009. MONOGRAPH.
182. Vítor J. P. Vilar, Manuel I. Maldonado, I. Oller, Sixto Malato, Rui A. R. Boaventura. Solar Treatment of Cork Boiling and Bleaching Wastewaters in a Pilot Plant. *Wat Res.* **43**, 4050-4062, 2009.
183. Alam G. Trovó, Raquel F.P. Nogueira, Ana Agüera, Amadeo R. Fernandez-Alba, Carla Sirtori, Sixto Malato. Degradation of sulfamethoxazole in water by solar photo-Fenton. Chemical and toxicological evaluation. *Wat Res.* **43**, 3922-3931, 2009.
184. C. Adán, A. Martínez-Arias, S. Malato, A. Bahamonde. New insights on solar photocatalytic degradation of phenol over Fe-TiO<sub>2</sub> catalysts: Photo-complex mechanism of iron lixivates. *Applied Catalysis B: Environmental*, **93**, 96–105, 2009.
185. Marco S. Lucas, Rosa Mosteo, Manuel I. Maldonado, Sixto Malato, Jose A. Peres. Solar Photochemical Treatment of Winery Wastewater in a CPC Reactor. *J. Agric. Food Chem.*, **57**, 11242–11248, 2009.
186. C. Navntoft, L. Dawidowski, M. A. Blesa, P. Fernández-Ibañez, E.A. Wolfram, A. Paladini. "Correlation between UV-A irradiance from measurements at 380 nm. Comparison of modelled and real irradiance values in Argentina and Spain." *Solar Energy*, **83**(2), 280-286, 2009.
187. C. Sichel, P. Fernández-Ibañez, J. Tello, M. de Cara "Lethal synergy of solar UV-radiation and H<sub>2</sub>O<sub>2</sub> on wild *Fusarium solani* spores in distilled and natural well water." *Water Research*, **43**, 1841-1850, 2009.
188. E. Ubomba-Jaswa, C. Navntoft, I. Polo-López, P. Fernández-Ibañez, K.G. McGuigan "Solar disinfection of drinking water (SODIS): An investigation of the effect of UVA dose on inactivation efficiency " *Photochem. Photobiol. Sciences*, **8**(5), 587-595, 2009.
189. P. Fernández-Ibañez, C. Sichel, I. Polo-López, M. de Cara-García, J. C. Tello "Photocatalytic disinfection of natural well water contaminated with *Fusarium solani* using TiO<sub>2</sub> slurry in solar CPC photo-reactors" *Catalysis Today*, **144**, 62-68, 2009.
190. H. Gómez-Couso, M. Fontán-Saínez, C. Sichel, P. Fernández-Ibañez, E. Ares-Mazás "Solar disinfection of turbid waters experimentally contaminated with *Cryptosporidium parvum* oocysts under real field conditions" *Tropical Medicine and International Health*, **14**(6), 1-9, 2009.
191. Vilar, V. J. P.; Gomes, A. I. E.; Ramos, V. M.; Maldonado M. I.; Boaventura, R. A. R.; "Solar photocatalysis of a recalcitrant coloured effluent from a wastewater treatment plant". *Photochem. Photobiol. Sci.*, **8**, 691-698. 2009.
192. A. García-Ripoll, A.M. Amat, A. Arques, R. Vicente, M.M. Ballesteros Martín, J.A. Sánchez Pérez, I. Oller, S. Malato. Confirming *Pseudomonas putida* as a reliable bioassay for demonstrating biocompatibility enhancement by solar photo-oxidative processes of a biorecalcitrant effluent. *J. Hazard. Mat.*, **162**, 1223–1227, 2009.
193. Nikolaus Klammerth, Wolfgang Gernjak, Sixto Malato, Ana Agüera, Bernhard Lendl. Photo-Fenton Decomposition of Chlorfenvinphos. Determination of Reaction Pathway. *Wat. Res.*, **43**, 441-449, 2009
194. C. Sirtori, A. Zapata, I. Oller, W. Gernjak, A. Agüera, S. Malato. Decontamination industrial pharmaceutical wastewater by combining solar photo-Fenton and biological treatment. *Wat Res.* **43**, 661–668, 2009.
195. A.M. Amat, A. Arques, A. García-Ripoll, L. Santos-Juanes, R. Vicente, I. Oller, M.I. Maldonado, S. Malato. A reliable monitoring of the biocompatibility of an effluent along an oxidative pre-treatment by sequential bioassays and chemical analyses. *Wat Res.* **43**, 784-792, 2009.

196. M.M. Ballesteros Martín, J.A. Sánchez Pérez, J.L. Casas López, I. Oller, S. Malato Rodríguez. Degradation of a four-pesticide mixture by combined photo-Fenton and biological oxidation. *Wat Res.* **43**, 784-792, 2009.
197. C. Sirtori, A. Zapata, I. Oller, W. Gernjak, A. Agüera, S. Malato. Solar photo-Fenton as finishing step for biological treatment of a real pharmaceutical wastewater. *Env. Sci. Technol.*, **43**, 1185-1191, 2009.
198. J. Blanco, S. Malato, P. Fernández-Ibañez, D. Alarcón, W. Gernjak, M.I. Maldonado. Review of feasible solar energy applications to water processes. *Renewable and Sustainable Energy Reviews*, **13**, 1437-1445, 2009.
199. A. Zapata, T. Velegraki, J.A. Sánchez-Peérez, D. Mantzavinos, M.I. Maldonado, S. Malato. Solar photo-Fenton treatment of pesticides in water: Effect of iron concentration on degradation and assessment of ecotoxicity and biodegradability. *Appl. Catal. B: Environ.*, **88**, 448-454. 2009.
200. Jelena Radjenovic, Carla Sirtori, Mira Petrovic, Damia Barcelo, Sixto Malato. Solar photocatalytic degradation of persistent pharmaceuticals at pilot-scale: Kinetics and characterization of major intermediate products. *Appl. Catal. B: Environ.*, **89**, 265-264. 2009.
201. N. Klamerth, N. Miranda, S. Malato, A. Agüera, A.R. Fernández-Alba, M.I. Maldonado, J.M. Coronado. Degradation of emerging contaminants at low concentrations in MWTPs effluents with mild solar photo-Fenton and TiO<sub>2</sub>. *Catalysis Today* **144**, 124-130. 2009.
202. A. Zapata, I. Oller, E. Bizani, J.A. Sanchez-Perez, M.I. Maldonado, S. Malato. Evaluation of operational parameters involved in solar photo-Fenton degradation of a commercial pesticide mixture. *Catalysis Today* **144**, 94-99. 2009.
203. Fabiola Mendez-Arriaga, M. Ignacio Maldonado, Jaime Gimenez, Santi Esplugas, Sixto Malato. Abatement of ibuprofen by solar photocatalysis process: Enhancement and scale up. *Catalysis Today* **144**, 112-116. 2009.
204. Carla Sirtori, Ana Zapata, Sixto Malato, Wolfgang Gernjak, Amadeo R. Fernández-Alba, Ana Agüera. Solar photocatalytic treatment of quinolones: intermediates and toxicity evaluation. *Photochem. Photobiol. Sci.*, **8**, 644-651, 2009.
205. Vincenzo Augugliaro, Leonardo Palmisano, Sixto Malato. Introduction by the guest editors. *Photochem. Photobiol. Sci.*, **8**, 581, 2009.
206. Vincenzo Augugliaro, Leonardo Palmisano, Sixto Malato, Wolfgang Gernjak. Preface. *Catalysis Today* **144**, 1. 2009.
207. C. Navntoft, E. Ubomba-Jaswa, K.G. McGuigan, P. Fernández-Ibañez. "Effectiveness of solar disinfection using batch reactors with non-imaging Aluminium reflectors under real conditions: natural well water and solar light." *J. Photochem. Photobiol. B: Biology*, **93**, 155-161, 2008.
208. Ivan Muñoz, Sixto Malato Amadeo Rodríguez, Xavier Doménech. Integration of environmental and economic performance of processes. Case study on advanced oxidation processes for wastewater treatment. *J. Adv. Oxid. Technol.*, **11**, 270-275, 2008.
209. Ana Zapata, Isabel Oller, Raphael Gallay, César Pulgarín, Manuel Ignacio Maldonado, Sixto Malato, Wolfgang Gernjak. Photo-Fenton treatment vs. coupling of photo-Fenton and biological wastewater treatment for pharmaceutical industry contaminants. *J. Adv. Oxid. Technol.*, **11**, 261-269, 2008.
210. Julia García-Montañó, Francesc Torrades, Leonidas A. Pérez-Estrada, Isabel Oller, Sixto Malato, Manuel I. Maldonado, José Peral. Degradation pathway of the commercial reactive azo dye Procion Red H-E7B under solar assisted photo-Fenton reaction. *Env. Sci Technol.*, **42**, 6663-6670, 2008.
211. L.A. Pérez-Estrada, A. Agüera, M.D. Hernando, S. Malato, A.R. Fernández-Alba Photodegradation of malachite green under natural sunlight irradiation: Kinetic and toxicity of the transformation products. *Chemosphere*, **70**, 2068-2075, 2008.
212. M.M. Ballesteros Martín, J.A. Sánchez Pérez, F.G. Acién Fernández, J.L. García Sánchez, J.L. Casas López, S. Malato Rodríguez. A kinetics study on the biodegradation of synthetic wastewater simulating effluent from an advanced oxidation process using *Pseudomonas putida* CECT 324. *J. Hazard. Mat.* **151**, 780-788, 2008.
213. Milena Lapertot, Sirous Ebrahimi, Isabel Oller, Manuel I. Maldonado, Wolfgang Gernjak, Sixto Malato, Cesar Pulgarin. Evaluating Microtox as a tool for biodegradability assessment of partially treated solutions of pesticides using Fe<sup>3+</sup> and TiO<sub>2</sub> solar photo-assisted processes. *Ecotoxicology and Environmental Safety* **69**, 546-555, 2008.
214. Ballesteros Martín M.M., Sánchez Pérez J.A., García Sánchez J.L., Montes de Oca L., Casas López J.L., Oller I., Malato Rodríguez S.. Degradation of alachlor and pyrimethanil by combined photo-Fenton and biological oxidation. *J. Hazard. Mat.* **155**, 342-349, 2008.
215. Christos Comninellis, Agnieszka Kapalka, Sixto Malato, Simon A Parsons, Ioannis Poullos and Dionissios Mantzavinos. Advanced oxidation processes for water treatment: advances and trends for R&D. *J Chem Technol Biotechnol.* **83**, 769-776, 2008.

216. María Jose Farre, Manuel Ignacio Maldonado, Wolfgang Gernjak, Isabel Oller, Sixto Malato, Xavier Domènech, José Peral. Coupled solar photo-Fenton and biological treatment for the degradation of diuron and linuron herbicides at pilot scale. *Chemosphere*, **72**, 622-629, 2008.
217. Boyle M., C. Sichel, Pilar Fernández-Ibáñez, G.B. Arias-Quiroz, M. Iriarte-Puña, E. Ubomba-Jaswa, K.G. McGuigan "Bactericidal effect of solar water disinfection under real sunlight conditions." *Applied and Environmental Microbiology* **74**(10) 2997-3001, 2008.
218. Fernández P., C. Sichel, J. Blanco, M. De Cara, J. Tello. "Energía solar contra las plagas" *Nova Ciencia* **36**, , 22-25, 2008.
219. García-Montaña J.; L. Pérez-Estrada, I. Oller; M. I. Maldonado; F. Torrades; J. Peral; "Pilot plant scale reactive dyes degradation by solar photo-Fenton and biological processes". *J. Photochem. Photobiol. A: Chem.* **195** 205-214. 2008.
220. Ballesteros Martín M. M., J. A. Sánchez Pérez, F. G. Ación Fernández, J. L. Casas López, A.M. García-Ripoll, A. Arques, I. Oller, S. Malato Rodríguez. Combined photo-Fenton and biological oxidation for pesticide degradation. Effect of photo-treated intermediates on biodegradation kinetics. *Chemosphere*, **70**, 1476-1483, 2008.
221. Maldonado M. I.; S. Malato; W. Gernjak; P. Fernández; A. Zapata; C. Sirtori. "Tratamiento de aguas residuales mediante tecnologías de oxidación solar avanzada: estado del tema y proyectos en marcha nacionales y de la Unión Europea". *Retema* **124** 38-44. 2008.
222. Peralta-Hernández J. M.; Y. Meas-Vong; F. J. Rodríguez; T. W. Chapman; M. I. Maldonado; Luis A. Godínez; "Comparison of hydrogen peroxide-based processes for treating dye-containing wastewater: Decolorization and destruction of Orange II azo dye in dilute solution". *Dyes and Pigments* **76** 656-662. (2008)
223. Muñoz I., Peral J., Ayllón J. A., Malato S., María José Martín, Jean Yves Perrot, Martin Vincent, Xavier Domènech. Life cycle assessment of a coupled advanced oxidation-biological process for wastewater treatment. Comparison with granular activated carbon adsorption. *Environ. Engineering Sci.*, **24**(5), 638-651, 2007.
224. Maldonado M.I., P.C. Passarinho, I. Oller, W. Gernjak, P. Fernández, J. Blanco and S. Malato. Photocatalytic degradation of EU priority substances: a comparison between TiO<sub>2</sub> and photo-Fenton in a solar pilot plant. *J. Photochem. Photobiol. A: Chem.*, **185**, 354-363, 2007.
225. Méndez-Hermida F, Ares-Mazás E, McGuigan KG, Boyle M, Sichel C, Fernández-Ibáñez P. " Disinfection of drinking water contaminated with *Cryptosporidium parvum* oocysts under natural sunlight and using the photocatalyst TiO<sub>2</sub>." *J. Photochem. Photobiol. B.* **88** 105-111. 2007.
226. Bayarri B., O. González, M. I. Maldonado, J. Giménez and S. Esplugas. Comparative study of 2,4-dichlorophenol degradation by using different advanced oxidation processes. *J. Solar Energy Eng.*, **129**, 60-67, 2007.
227. Blanco-Galvez J. Fernández-Ibáñez P. and Malato-Rodríguez S. Solar Photocatalytic Detoxification and Disinfection of Water: Recent overview. *J. Solar Energy Eng.*, **129**, 4-15, 2007.
228. Blanco J., Sixto Malato. Plantas de tratamiento mediante fotocatalisis solar: de la investigación básica a una realidad comercial. *VÉRTICES, la Revista del CIEMAT*, **3**, 22-26, 2007.
229. Bacardit J., Isabel Oller, Manuel I. Maldonado, Esther Chamarro, Sixto Malato and Santiago Esplugas. Simple Models for the Control of Photo-Fenton by Monitoring H<sub>2</sub>O<sub>2</sub>. *J. Adv. Oxid. Technol.*, **10**(2), 219-228, 2007.
230. Alarcón D., Blanco J., Sánchez B., Malato S., Maldonado M.I., Fernández P. "Sistema híbrido solar/gás para desalación de agua de mar" *Era Solar* **141** 68-72. 2007.
231. García A., Amat A. M., Arques A., Vicente R., López M.F., Oller I., Maldonado M.I., Gernjak W. Increased biodegradability of Ultracid in aqueous solutions with solar TiO<sub>2</sub> photocatalysis. *Chemosphere*, **68**, 293-300, 2007.
232. Malato S., Blanco J., Alarcón D. C., Maldonado M. I., Fernández-Ibáñez P., Gernjak W. Photocatalytic Decontamination and Disinfection of water with Solar Collectors. *Catalysis Today*, **122**, 137-149, 2007. **REVIEW.**
233. Malato S., Blanco J., Maldonado M. I., Oller I., Gernjak W., Pérez-Estrada L.. Coupling solar photo-Fenton and biotreatment at industrial scale: Main results of a demonstration plant. *J. Hazar. Materials*, **146**, 440-446, 2007.
234. Malato S., Wolfgang Gernjak, Jesús Pérez Peña, Jose Miguel Doña. Introduction by Guest editors. *Catalysis Today*, **129**, 1-2, 2007.
235. Oller I., Malato S., Sánchez-Pérez J.A., Gernjak W., Maldonado M.I., Pérez-Estrada L.A. and Pulgarín C.. A combined solar photocatalytic-biological field system for the mineralization of an industrial pollutant at pilot scale. *Catalysis Today*, **122**, 150-159, 2007.

236. Oller I., 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. *Wat. Sci. Technol.*, **55**(12), 229-235, 2007.
237. Oller I., S. Malato, J.A. Sánchez-Pérez, M.I. Maldonado, R. Gassó. Detoxification of wastewater containing five common pesticides by Solar AOPs-Biological coupled system. *Catalysis Today*, **129**, 69-78, 2007.
238. Oller I., S. Malato, J.A. Sánchez-Pérez, M.I. Maldonado, W. Gernjak, L.A. Pérez-Estrada, J.A. Muñoz, C. Ramos and C. Pulgarín. Pre-Industrial-Scale Combined Solar Photo-Fenton and Immobilised Biomass Activated-Sludge Bio-treatment. *Ind. Eng. Chem. Res.*, **46**, 7467-7475, 2007.
239. Sichel Cosima, Fernández-Ibáñez Pilar, Blanco Julián, Malato Sixto. Effects of experimental conditions on E. Coli survival during solar photocatalytic water disinfection. *J. Photochem. Photobiol. A: Chem.*, **189**, 239-246, 2007.
240. Sichel C., de Cara M., Tello J., Blanco J., Fernández-Ibáñez P. Solar photocatalytic disinfection of agricultural pathogenic fungi: *Fusarium* species. *Appl. Catal. B: Environ.*, **74**, 152-160, 2007.
241. Sichel C., Tello C, de Cara M, Fernández-Ibáñez P. "Effect of UV-intensity and dose on the photocatalytic disinfection of bacteria and fungi under natural sunlight." *Catalysis Today*, **129**, 152-160, 2007.
242. Álvarez J.D., Gernjak W., Malato S., Berenguel M., Fuerhacker M. and Yebra L.J.. Dynamic Models for Hydrogen Peroxide Control in Solar Photo-Fenton Systems. *J. Solar Energy Eng.*, **129**, 37-44, 2007.
243. Adán C., 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. *Catalysis Today*, **129**, 79-85, 2007.
244. Marugán J., Jose Aguado, Wolfgang Gernjak, Sixto Malato. Solar photocatalytic degradation of dichloroacetic acid with silica-supported titania at pilot plant scale. *Catalysis Today*, **129**, 59-68, 2007.
245. Gernjak W., Krutzler T., Malato S., Bauer R. Photo-Fenton Treatment of Olive Mill Wastewater Applying a Combined Fenton/Flocculation Pretreatment. *J. Solar Energy Eng.*, **129**, 53-59, 2007.
246. Oller I., Fernández-Ibáñez P., Maldonado M. I., Pérez-Estrada L., Gernjak W., Pulgarín C., Passarinho P. C., Malato S.. Solar heterogeneous and homogeneous photocatalysis as a pre-treatment option for biotreatment. *Res. Chem. Interm.*, **33**(3-5), 407-420. 2007.
247. Peralta-Hernández J. M.; J. Manríquez; Y. Meas-Vong; F. J. Rodríguez; T. W. Chapman; M. I. Maldonado; Luis A. Godínez; "Photocatalytic properties of nano-structured TiO<sub>2</sub>-Carbon films obtained by means of electrophoretic deposition". *Journal of Hazardous Materials* **147**, 588-593, 2007.
248. Pérez-Estrada L. A., Sixto Malato, Ana Agüera, Amadeo R. Fernández-Alba. Degradation of Dipyrone and its main intermediates by solar AOPs. Identification of intermediate products and toxicity assessment. *Catalysis Today*, **129**, 207-214, 2007.
249. Reyes C., Fernández J., Freer J., Mondaca M.A., Zaror C., Malato S., Mansilla H.D.. Degradation and inactivation of tetracycline by TiO<sub>2</sub> photocatalysis. *J. Photochem. Photobiol. A: Chem*, **184**, 141-146. 2006.
250. Oller I., W. Gernjak, M. I. Maldonado, L.A. Pérez-Estrada, J.A. Sánchez-Pérez and S. Malato. Solar photocatalytic degradation of some hazardous water-soluble pesticides at pilot-plant scale. *J. Hazar. Mat.*, **B138**, 507-517, 2006.
251. Peralta-Hernández J. M., Yunny Meas-Vong, Francisco J. Rodríguez, Thomas W. Chapman, Manuel I. Maldonado and Luis A. Godínez. In-situ electrochemical and photo-electrochemical generation of the fenton reagent. a potentially important new water treatment technology. *Wat. Res.*, **40**, 1754-1792. 2006.
252. García A., Amat A. M., Arques A., Sanchís R., Gernjak W., Maldonado M. I., Oller I., Malato S.. Detoxification of aqueous solutions of the commercial pesticide "SevnoI" by solar photocatalysis. *Environ. Chem. Letters*, **3**, 169-172, 2006.
253. Gernjak W., M. Fuerhacker, P. Fernández-Ibáñez, J. Blanco, S. Malato. Solar photo-Fenton treatment—Process parameters and process control. *Applied Catalysis B: Environmental*, **64**, 121–130, 2006.
254. Marugán J., López-Muñoz M.J., Gernjak W., Malato S. Fe/TiO<sub>2</sub>/pH interactions in solar degradation of imidacloprid with TiO<sub>2</sub>/SiO<sub>2</sub> photocatalysts at pilot-plant scale. *Ind. Eng. Chem. Res.*, **45**, 8900-8908, 2006.
255. McGuigan K.G., F. Mendez-Hermida, J.A. Castro-Hermida, E. Ares-Mazas, S.C. Kehoe, M. Boyle, C. Sichel, P. Fernandez-Ibanez, B.P. Meyer, S. Ramalingham and E.A. Meyer. Batch solar disinfection inactivates oocysts of *Cryptosporidium parvum* and cysts of *Giardia muris* in drinking water. *J. Appl. Microbiology*, **101**, 453-463, 2006
256. Kus M., Gernjak W., Fernández Ibáñez P., Malato Rodríguez S., Blanco Gálvez J., Icli S. A Comparative Study of Supported TiO<sub>2</sub> as Photocatalyst in Water Decontamination at Solar Pilot Plant Scale. *Journal of Solar Energy Engineering*, **128**, 331-337, 2006.
257. Lapertot M., Pulgarín C., Fernández-Ibáñez P., Maldonado M. I., Pérez-Estrada L., Oller I., Gernjak W. and Malato S. Enhancing biodegradability of priority substances (pesticides) by solar photo-Fenton. *Wat. Res.*, **40**, 1086-1064, 2006.

258. Maldonado M. I., Gernjak W., Oller I., Blanco J., Fernández-Ibáñez P. and Malato S. Photo-Fenton degradation of Alachlor, Atrazine, Chlorfenvinphos, Diuron, Isoproturon and Pentachlorophenol at Solar Pilot Plant. *Int. J. Environ. Poll.*, **27** (1-3), 135-146, 2006.
259. Maldonado M. I., S. Malato, L. A. Pérez-Estrada, W. Gernjak, I. Oller, Xavier Doménech and José Peral. Partial degradation of five pesticides and an industrial pollutant by ozonation in a pilot-plant scale reactor. *J. Hazar. Mat.*, **B138**, 363-369. 2006.
260. Hincapié Pérez M., Gustavo Peñuela, Manuel I. Maldonado, Octavio Malato, Pilar Fernández-Ibáñez, Isabel Oller, Wolfgang Gernjak, Sixto Malato. Degradation of pesticides in water using solar advanced oxidation processes. *Applied Catalysis B: Environmental*, **64**, 272-281, 2006.
261. Muñoz I., Peral J., Ayllón J. A., Malato S., Doménech X. Life cycle assessment of a coupled solar photocatalytic-biological process for wastewater treatment. *Wat. Res.*, **40**, 3533-3540. 2006.
262. Oller I., Gernjak W., Maldonado M. I., Fernández-Ibáñez P., Blanco J., Sánchez-Pérez J.A., Malato S.. Photocatalytic treatment of Dimethoate by solar photocatalysis at pilot plant scale. *Environ. Chem. Letters*, **3**, 118-121, 2005.
263. Hincapie M., M.I. Maldonado, I. Oller, W. Gernjak, J.A. Sánchez-Pérez, M.M. Ballesteros, S. Malato. Solar photocatalytic degradation and detoxification of EU priority substances. *Catalysis Today*, **101**, 203-210, 2005.
264. Gummy Damien, Pilar Fernandez-Ibáñez, Sixto Malato, Cesar Pulgarin, Octav Enea, John Kiwi. Supported Fe/C and Fe/Nafion/C catalysts for the photo-Fenton degradation of Orange II under solar irradiation. *Catalysis Today*, **101**, 375-382, 2005.
265. Perez-Estrada L.A., M.I. Maldonado, W. Gernjak, A. Agüera, A.R. Fernandez-Alba, M.M. Ballesteros, S. Malato. Decomposition of diclofenac by solar driven photocatalysis at pilot plant scale. *Catalysis Today*, **101**, 219-226, 2005.
266. Pérez-Estrada L. A., S. Malato, W. Gernjak, A. Agüera, E. M. Thurman, I. Ferrer and A. R. Fernández-Alba. Photo-Fenton degradation of diclofenac: identification of main intermediates and degradation pathway. *Environ. Sci. Technol.*, **39**, 8300-8306. 2005.
267. Agüera A., Perez Estrada L. A., Ferrer I., Thurman E. M., Malato S., and Fernandez-Alba A. R.. Application of time-of-flight mass spectrometry to the analysis of phototransformation products of diclofenac in water under natural sunlight. *J. Mass Spectrometry*, **40**, 908-915, 2005.
268. Fernández P., J. Blanco, C. Sichel, S. Malato. Water disinfection by solar photocatalysis using compound parabolic collectors. *Catalysis Today*, **101**, 345-352, 2005.
269. Farré M. J., Maria Isabel Franch, Sixto Malato, José Antonio Ayllón, José Peral and Xavier Doménech. Degradation of some biorecalcitrant pesticides by Homogeneous and Heterogeneous Photocatalytic Ozonation. *Chemosphere*, **58**, 1127-1133, 2005.
270. Augugliaro V., Elisa Garcia-Lopez, Vittorio Loddo, Sixto Malato-Rodriguez, Ignacio Maldonado, Giuseppe Marcì, Raffaele Molinari, Leonardo Palmisano. Degradation of lincomycin in aqueous medium: coupling of solar photocatalysis and membrane separation. *Solar Energy*, **79**, 402-408, 2005.
271. Malato Rodríguez S., Blanco Gálvez J., Maldonado Rubio M. I., Fernandez Ibañez P., Gernjak W., Oller Alberola I.. Treatment of chlorinated solvents by TiO<sub>2</sub> photocatalysis and photo-Fenton: influence of operating conditions in a solar pilot plant. *Chemosphere*, **58**, 391-398, 2005.
272. Rodríguez M., Sixto Malato, César Pulgarin, Sandra Contreras, David Curcó, Jaime Giménez and Santiago Esplugas. Optimizing the solar photo-Fenton process in the treatment of contaminated water. Determination of intrinsic kinetic constants for scale-up. *Solar Energy*, **79**, 360-368, 2005.
273. Sarria V., Simeon Kenfack, Sixto Malato, Julian Blanco and Cesar Pulgarin. New Helio-Photocatalytic Photovoltaic Hybrid System for Simultaneous Water Decontamination and Solar Energy Conversion. *Solar Energy*, **79**, 353-359, 2005.
274. Malato Rodriguez S., J. Blanco Galvez, M.I. Maldonado Rubio, P. Fernandez Ibañez, D. Alarcon Padilla, M. Collares Pereira, J. Farinha Mendes, J. Correia de Oliveira. Engineering of solar photocatalytic collectors. *Solar Energy*, **77**, 513-524, 2004.
275. Maldonado M. I., Malato S., Oller I., Gernjak W., Blanco J., Alarcón D. C.. Proyecto CADOX: tecnología para el tratamiento de efluentes industriales. *Ingeniería Química*, **409**, 121-126, 2004.
276. Agüera A., Mezcuca M., Hernando D., Malato S., Cáceres J.; Fernández-Alba A.. Application of GC-MS and GC-AED to the evaluation of by-products formed by solar photo-Fenton degradation of methyl tert-butyl ether in water. *Intern. J. Environ. Anal. Chem.* **84** (1-3), 149-159, 2004.
277. Kositzki M., Poullos I., Malato S., Cáceres J., Campos A. Solar photocatalytic treatment of synthetic municipal wastewater. *Water Res.*, **38**, 1147-1154, 2004.

278. Kositzki M., A. Antoniadis, I. Poullos, I. Kiridis, S. Malato. Solar photocatalytic treatment of simulated dyestuff effluents. *Solar Energy*, **77**, 591-600, 2004.
279. Sarria V., Péringer P., Cáceres J., Blanco J., Malato S., Pulgarin C. 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. *Energy*, **29**, 853-860, 2004.
280. Wiszniowski J., Robert D., Surmacz-Gorska J., Miksch K., Malato S. and Weber J.V. Solar photocatalytic degradation of humic acids as a model of organic compounds of landfill leachate in pilot plant experiments: influence of inorganic salts. *Appl. Catal. B: Environ.*, **53**, 127-137, 2004.
281. McLoughlin O.A., P. Fernandez Ibañez, W. Gernjak, S. Malato Rodriguez, L.W. Gill. Photocatalytic disinfection of water using low cost compound parabolic collectors. *Solar Energy*, **77**, 625-633, 2004.
282. McLoughlin O.A., S.C. Kehoe, K.G. McGuigan, E.F. Duffy, F. Al Touati, W. Gernjak, I. Oller Alberola, S. Malato Rodriguez, L.W. Gill. Solar disinfection of contaminated water: a comparison of three small-scale reactors. *Solar Energy*, **77**, 657-664, 2004.
283. Augugliaro V., Bianco Prevot A., Cáceres Vazquez J., Garcia-Lopez E., Irico A., Loddo V., Malato Rodriguez S., Marci G., Palmisano L., Pramauro E. Photocatalytic oxidation of acetonitrile in aqueous suspension of titanium dioxide irradiated by sunlight. *Adv. Environ. Res.*, **8**, 329-335, 2004.
284. Duffy E.F., F. Al Touati, S.C. Kehoe, O.A. McLoughlin, L.W. Gill, W. Gernjak, I. Oller, M.I. Maldonado, S. Malato, J. Cassidy, R.H. Reed, K.G. McGuigan. A novel TiO<sub>2</sub>-assisted solar photocatalytic batch-process disinfection reactor for the treatment of biological and chemical contaminants in domestic drinking water in developing countries. *Solar Energy*, **77**, 649-655, 2004.
285. Gernjak W., M.I. Maldonado, S. Malato, J. Cáceres, T. Krutzler. A. Glaser, R. Bauer. Pilot-plant treatment of olive mill wastewater (OMW) by solar TiO<sub>2</sub> photocatalysis and solar photo-Fenton. *Solar Energy*, **77**, 567-572, 2004.
286. Gernjak Wolfgang, Krutzler Thomas, Glaser Andreas, Malato Sixto, Cáceres Julia, Bauer Rupert, Fernández-Alba A. R.. Photo-Fenton treatment of water containing natural phenolic pollutants. *Chemosphere*, **50**, 71-78, 2003.
287. Malato S., J. Blanco, A. Campos, J. Cáceres, C. Guillard, J.M.Herrmann, A. R. Fernández-Alba. Effect of operating parameters on the testing of new industrial titania catalysts at solar pilot plant scale. *Appl. Catal. B: Environ.*, **42**, 349-357. 2003.
288. Malato S., Cáceres J., Fernández-Alba A. R., Piedra L., Hernando M. D., Agüera A., Vial J.. Photocatalytic treatment of diuron by solar photocatalysis: evaluation of main intermediates and toxicity. *Env. Sci. Technol.*, **37**, 2516-2524, 2003.
289. Malato S., Blanco J., Vidal A., Alarcón D., Maldonado M. I., Cáceres J., Gernjak W.. Applied studies in solar photocatalytic detoxification: an overview. *Solar Energy*, **75**, 329-336, 2003.
290. Guillard Ch., Disdier J., Monnet Ch., Dussaud J., Malato S., Blanco J., Maldonado M. I., Herrmann J.M.. Solar efficiency of a new deposited titania photocatalyst: chlorophenol, pesticide and dye removal applications. *Appl. Catal. B: Environ.*, **46**, 319-332. 2003.
291. Fernández-Ibañez P., Blanco J., Malato S., de las Nieves F. J.. Application of the colloidal stability of TiO<sub>2</sub> particles for recovery and reuse in solar photocatalysis. *Wat. Res.*, **37**, 3180-3188, 2003.
292. Fernández-Alba A. R., D. Hernando, A. Agüera, J. Cáceres, S. Malato. Toxicity assays: a way for evaluating AOPs efficiency. *Wat. Res.*, **36**, 4255-4262, 2002.
293. P.Avila, B. Sánchez, A.I. Cardona, M. Rebollar and R. Candal. "Influence of the methods of TiO<sub>2</sub> incorporation in monolithic catalysts for the photocatalytic destruction of chlorinated hydrocarbons in gas phase", *Catalysis Today*, **76(2-4)**, 271-278, 2002.
- 294.** Malato S., J. Blanco, A. Vidal, C. Richter. Photocatalysis with solar energy at a pilot-plant scale: an overview. *Appl. Catal. B: Environ.*, **37**, 1-15, 2002. **REVIEW.**
295. Malato S., 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. *Chemosphere*, **47**, 235-240, 2002.
296. Malato S., J. Blanco, J. Cáceres, A. R. Fernández-Alba, A. Agüera, A. Rodríguez. Photocatalytic treatment of water-soluble pesticides by photo-Fenton and TiO<sub>2</sub> using solar energy. *Catalysis Today*, **76**, 209-220, 2002.
297. Herrmann J. M., Ch. Guillard, J. Disdier, C. Lehaut, S. Malato, J. Blanco. New industrial titania photocatalysts for the solar detoxification of water containing various pollutants. *Appl. Catal. B: Environ.*, **35**, 281-294, 2002.
298. Mailhot G., M. Sarakha, B. Lavedrine, J. Cáceres, S. Malato. Fe(III)-solar light induced degradation of diethyl phthalate (DEP) in aqueous solution. *Chemosphere*, **49**, 525-532, 2002.

299. Augugliaro V., 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. *Chemosphere*, **49**, 1223-1230, 2002.
300. Augugliaro V., C. Baiocchi, A. Bianco Prevot, M.C. Brussino, E. García-López, V. Loddo, S. Malato, G. Marci, L. Palmisano, E. Pramauro. Sunlight photocatalytic degradation of azo-dyes in aqueous suspension of polycrystalline TiO<sub>2</sub>. *Fresenius Environ. Bull*, **11(8)**, 459-464, 2002.
301. Parra S., C. Pulgarín, S. Malato. New integrated photocatalytic-biological flow system using supported TiO<sub>2</sub> and fixed bacteria for the mineralisation of isoproturon. *Appl. Catal. B: Environ.*, **36**, 131-144, 2002.
302. Robert D., S. Malato. Solar photocatalysis: a clean process for water detoxification. *Sci. Total Environ.*, **291**, 85-97, 2002.
303. Parra S., S. Malato, J. Blanco, P. Péringier, C. Pulgarin. Concentrating versus non-concentrating reactors for solar photocatalytic degradation of p-nitrotoluene-o-sulfonic acid. *Wat. Sci. Technol.*, **44(5)**, 219-227, 2001.
304. Malato S., J. Blanco, P. Fernández-Ibáñez, J. Cáceres, Treatment of 2,4-dichlorophenol by solar photocatalysis: comparison of coupled photocatalytic-active carbon vs. active carbon. *J. Solar En. Engin.* **123**, 138-142, 2001.
305. Malato S., J. Caceres, A. Agüera, M. Mezcuca, D. Hernando, J. Vial, A. R. Fernández-Alba. Degradation of imidacloprid in water by photo-Fenton and TiO<sub>2</sub> photocatalysis at a solar pilot plant: a comparative study. *Env. Sci. Technol.*, **35**, 4359-4366, 2001.
306. Funken K.-H., C. Sattler, B. Milow, L. de Oliveira, J. Blanco, P. Fernández, S. Malato, M. Brunotte, N. Dischinger, S. Tratzky, M. Musci and J.C. de Oliveira. A comparison of prototype compound parabolic collector-reactors (CPC) on the road to SOLARDETOX technology. *Wat. Sci. Technol.*, **44(5)**, 271-278, 2001.
307. Szulbiński W.S. and S. Malato. Photocatalytic wastewater treatment using the zeolite-γ entrapped ruthenium tris-2,2'-bipyridine complex. *Pol. J. Chem.*, **75**, 1543-1551, 2001.
308. Parra S., V. Sarria, C. Pulgarín, S. Malato, P. Peringer. Photochemical vs. coupled photochemical-biological flow system for the treatment of two biorecalcitrant herbicides: metobromuron and isoproturon. *Appl. Catal. B: Environ.*, **27(3)**, 153-168, 2000.
309. Agüera Ana, Eva Almansa, Ana Tejedor, Amadeo R. Fernández-Alba, Sixto Malato and Manuel I. Maldonado. Photocatalytic pilot scale degradation study of pyrimethanil and of main degradation products in waters by means of solid-phase extraction followed by gas and liquid chromatography with mass spectrometry detection. *Env. Sci. Technol.*, **34(8)**, 1563-1571, 2000.
310. Malato S., J. Blanco, M. I. Maldonado, P. Fernández-Ibáñez, A. Campos. Optimising Solar Photocatalytic Mineralization of Pesticides by Adding Inorganic Oxidising Species: Application to the Recycling of Pesticide Containers. *Appl. Catal. B: Environ.*, **28**, 163-174, 2000.
311. Malato S., J. Blanco., A. R. Fernandez-Alba, A. Agüera. Solar photocatalytic mineralization of commercial pesticides: acrinathrin. *Chemosphere*, **40**, 403-409, 2000.
312. Malato S., J. Blanco, C. Richter and M. I. Maldonado. Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. application to pesticide container recycling. *Appl. Catal. B: Environ.*, **25**, 31-38, 2000.
313. Malato S., J. Blanco, C. Richter, P. Fernández, M. I. Maldonado. Solar photocatalytic mineralization of commercial pesticides: oxamyl. *Solar En. Mat. Solar Cells*, **64**, 1-14, 2000.
314. Blanco J., 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. Compound parabolic concentrator technology development to commercial solar detoxification applications. *Solar Energy*, **67(4-6)**, 317-330, 2000.
315. Fernández-Ibáñez P., F.J. de las Nieves, S. Malato., Titanium dioxide/electrolyte solution interface: electron transfer phenomena. *J. Colloid Interf. Sci.*, **227**, 510-516, 2000.
316. Fernández-Ibáñez P., J. Blanco, S. Malato, F.J. de las Nieves. Pilot-plant scale separation and reuse of TiO<sub>2</sub> photocatalyst in degrading reactions. *Entropie*, **228**, 22-26, 2000.
317. Augugliaro V., J. Blanco-Gálvez, J. Cáceres-Vásquez, E. García-López, V. Loddo, M.J. López-Muñoz, S. Malato-Rodríguez, G. Marci, L. Palmisano, M. Schiavello, J. Soria-Ruiz Photocatalytic oxidation of cyanide in aqueous TiO<sub>2</sub> suspensions irradiated by sunlight in mild and strong oxidant conditions. *Catalysis Today*, **54**, 245-253, 1999.
318. Romero, M.; Blanco, J.; Sánchez, B.; Vidal, A.; Malato, S.; Cardona, A.; García, E.; Solar photocatalytic degradation of water and air pollutants: challenges and perspectives. *Solar Energy*, **66(2)**, 169-182. 1999.
319. Krutzler T., H. Fallmann, P. Maletzky, R. Bauer, S. Malato, J. Blanco. Solar driven degradation of 4-chlorophenol. *Catal. Today*, **54**, 321-327, 1999.



320. Bauer R., G. Waldner, H. Fallmann, S. Hager, M., Klare, T. Krutzler, S. Malato, P. Maletzky. The Photo-Fenton reaction and the TiO<sub>2</sub>/UV process for waste water treatment - Novel developments” *Catal. Today*, **53**, 131-144, 1999.
321. Enea, O.; Blanco, J.; Malato, S.; Maldonado, M.I.; Photoelectrochemical experiments under various solar light concentration ratios. *J. Phys. IV*, **Pr 3**, 301-306. 1999.
322. Fallmann H., T. Krutzler, R. Bauer, S. Malato, J. Blanco. Applicability of the Photo-Fenton method for treating water containing pesticides. *Catal. Today*, **54**, 309-319, 1999.
323. Fallmann H., T. Krutzler, R. Bauer, S. Malato, J. Blanco. Detoxification of pesticide containing effluents by solar driven Fenton process. *Z. Phys. Chemie*. **213**, 67-74, 1999.
324. Herrmann J.M., J. Matos, J. Disdier, C. Guillard, J. Laine, S. Malato, J. Blanco. Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. *Catalysis Today*, **54**, 255-265, 1999.
325. Malato, S.; Blanco, J.; Richter, C.; Milow, B.; Maldonado, M.I.; Solar photocatalytic mineralization of commercial pesticides: methamidophos *Chemosphere*, **38(5)**, 1145-1156. 1999.
326. Malato, S.; Blanco, J.; Richter, C.; Milow, B.; Maldonado, M.I.; Photocatalytic decontamination of wastewater from the rinsing of pesticide containers. *J. Phys. IV*, **Pr 3**, 272-282. 1999.
327. Texier Isabelle, Charles Giannotti, Sixto Malato, Christoph Richter, Jacques Delaire. Solar photodegradation of pesticides in water by sodium decatungstate. *Catalysis Today*, **54**, 297-307, 1999.
328. Texier I., Gianotti C., Malato S., Richter C., Ouazzani J., Delaire J; Potential applications of solar reactions photocatalysed by the decatungstate anion. *J. Chimie Physics*, **96**, 430-436. 1999.
329. Texier, I.; Giannotti, C.; Malato, S.; Richter, C.; Delaire, J.; Solar photodegradation of pesticides in water by sodium decatungstate. *J. Phys. IV*, **Pr 3**, 289-294. 1999.
330. 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. *Water Sci. Technol.*, **40(4-5)**, 123-130, 1999.
331. Blanco, J.; Malato, S.; Maldonado, M.I.; Fallmann H.; Krutzler, T.; Bauer, R. Techno-economical assesment of solar detoxification systems with compound parabolic collectors. *J. Phys. IV*, **Pr 3**, 259-264. 1999.
332. Fernandez-Ibanez P., S. Malato, O. Enea. Photoelectrochemical reactors for solar decontamination of water. *Catalysis Today*, **54**, 329-339, 1999.
333. Fernández-Ibáñez P., S. Malato, F. J. De Las Nieves. Relationship between TiO<sub>2</sub> particle size and reactor diameter in solar photodegradation efficiency. *Catalysis Today*, **54**, 195-204, 1999.
334. Guillard C., J. Disdier, J.M. Herrmann, C. Lehaut, T. Chopin, S.Malato, J. Blanco. Comparison of various titania samples of industrial origin in the solar photocatalytic detoxification of water containing 4-chlorophenol. *Catalysis Today*, **54**, 217-228, 1999.
335. Herrmann, J.M.; Disdier, J.; Pichat, P.; Malato, S.; Blanco, J. TiO<sub>2</sub>-based solar photocatalytic detoxification of water organic pollutants. Case studies of 2,4-dichlorophenoxyacetic acid (2,4-D) and of benzofuran. *Appl. Catal. B: Environ.*, **17**, 15-23. 1998
336. Malato, S.; Blanco, J.; Richter, C.; Braun B.; Maldonado, M.I. Enhancement of the rate of solar photocatalytic mineralization of organic pollutants by inorganic species. *Appl. Catal. B: Environ.*, **17**, 347-356. 1998.
337. Agüera A.; Almansa, E.; Malato, S.; Maldonado, I.; Fernandez-Alba, A.; Evaluation of photocatalytic degradation of imidacloprid in industrial water by GC-MS and LC-MS. *Analyses*, **26**, 245-251. 1998.
338. 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. *Wat. Sci. Techn.*, **35(4)**, 157-164. 1997.
339. Curco, D.; Malato, S.; Blanco, J.; Gimenez, J. Photocatalysis and radiation absorption in a solar plant. *Solar Energy Materials and Solar Cells*, **44**, 199-217. 1996.
340. Minero, C.; Pelizzetti, E.; Malato, S.; Blanco, J. Large solar plant photocatalytic water decontamination: degradation of atrazine. *Solar Energy*, **56(5)**, 411-419. 1996.
341. Minero, C.; Pelizzetti, E.; Malato, S.; Blanco, J. Large solar plant photocatalytic water decontamination: effect of operational parameters. *Solar Energy*, **56(5)**, 421-428. 1996.
342. J.Blanco, P.Avila, A.Bahamonde, E.Alvarez, B.Sánchez and M.Romero. “Photocatalytic destruction of Toluene and Xylene at gas-phase on a titania based monolithic catalyst”, *Catalysis Today*, **29**, 437-442, 1996.
343. R.Jimenez, B.Sánchez and H.Sverdrup. “Critical acid loads for different soils of the Mediterranean environment”, *The Science of the Total Environment*, **181**, 65-71, 1996.

344. Malato, S.; Richter, C.; Blanco, J.; Vincent, M. Photocatalytic degradation of industrial residual waters. *Solar Energy*, **56(5)**, 401-410. 1996.
345. Marques, P.; Rosa, M.; Mendes, F.; Collares-Pereira, M.; Blanco, J.; Malato, S. Wastewater detoxification of organic and inorganic toxic compounds with solar collectors. *Desalination*, **108**, 213-220. 1996.
346. Curco, D.; Malato, S.; Blanco, J.; Gimenez, J.; Marco, P. Photocatalytic degradation of phenol: comparison between pilot plant scale and laboratory results. *Solar Energy*, **56(5)**, 387-400. 1996.
347. A. Vidal, J. Herrero, M. Romero, B. Sánchez and M. Sánchez. "Heterogeneous photocatalysis: Degradation of ethylbenzene in TiO<sub>2</sub> aqueous suspensions", *J. Photochem. and Photobiol. A: Chem.*, **79**, 213-219, 1994.
348. Minero, C.; Pelizzetti, E; Malato, S.; Blanco, J. Large solar plant photocatalytic water decontamination: degradation of pentachlorophenol. *Chemosphere*, **26(12)**, 2103-2119, 1993.