CURRICULUM VITAE (as on 7 Sep 2020**)**

PERSONAL DETAILS

Name: Dionissios Mantzavinos
Address: Department of Chemical Engineering, University of Patras, GR-26504 Patras, Greece
Google scholar: http://scholar.google.com/citations?user=KvFFsVMAAAAJ&hl=en&oi=ao

STATISTICS AT A GLANCE

Journal publications: **226**
Conference publications: **161**
Chapters in books: 4
Citations (Google scholar): **>16000**
Mean impact factor of journal publications: **4.7**
Editor-in-Chief: **1**
Editorial board member in journals: **3**
Number of postdoctoral researchers supervised: **7**
Number of PhD students supervised or-co-supervised: **7**
Number of MSc students supervised or-co-supervised: **29**
Number of BSc students supervised or-co-supervised: **70**
Number of research proposals as PI/Collaborator: **27**

HIGHER EDUCATION

Imperial College of Science, Technology and Medicine
University of London, UK
Dept. of Chemical Engineering and Chemical Technology
10/1993-12/1996 *Doctor of Philosophy (PhD)*
9/1992-9/1993 *Master of Science (MSc) with Distinction*

Aristotle University of Thessaloniki, Greece
Dept. of Chemical Engineering
9/1986-9/1991 *Diploma in Chemical Engineering (Grade: 8/10)*

CAREER

Dept of Chemical Engineering, University of Patras (UPatras), Greece
3/2013-present **Professor in Wastewater Engineering**

Dept. of Environmental Engineering, Technical University of Crete (TUC), Greece
8/2010-2/2013 **Professor in Wastewater Engineering**
8/2006-8/2010 **Associate Professor in Wastewater Engineering**
5/2005-8/2006 **Assistant Professor (tenure) in Wastewater Engineering**
11/2001-5/2005 **Assistant Professor (probation) in Wastewater Engineering**

Dept. of Civil & Environmental Engineering, University of Cyprus
1/2008-5/2008 **Visiting Associate Professor**

Dept. of Environmental Management, Cyprus University of Technology
5/2008-1/2009 **Visiting Associate Professor**

Dept. of Chemical Engineering, University of Leeds, UK
10/1999-11/2001 **Lecturer**

ADMIN DUTIES

9/2020-present	Vice-Rector Academic & International Affairs, UPatras
9/2019-8/2020	Vice-President Finance, Planning & Development, Hellenic Open University
12/2017-9/2019	Member of UPatras Research Committee
10/2017-6/2019	Alternate Member of the General Assembly of HFRI (ELIDEK)
3/2017-11/2017	Deputy Head of division of process & environmental engineering at UPatras
9/2013-10/2015	Head of division of process & environmental engineering at UPatras
2009-2012	Director of postgraduate studies at TUC
2003-2007	Member of TUC senate

RESEARCH FUNDING (as PI)

Hellenic Ministry of Education, General Secretariat for Research & Technology, TUC Research Committee, UPatras Research Committee, Cyprus Research Promotion Foundation, private sector (DEYA of Chania, OX-CTA SL Company, Spain), FP7, LIFE

JOURNAL PUBLICATIONS

1. D.Antoniadis, **D.Mantzavinos** and M.Stamatoudis, Effect of chamber volume and diameter on bubble formation at plate orifices, *Chemical Engineering Research & Design*, **70(2)**, (1992), 161-165.
2. **D.Mantzavinos**, R.Hellenbrand A.G.Livingston and I.S.Metcalfe, Catalytic wet oxidation of p-coumaric acid: partial oxidation intermediates, reaction pathways and catalyst leaching, *Applied Catalysis B-Environmental*, **7(3-4)**, (1996), 379-396.
3. **D.Mantzavinos**, A.G.Livingston, R.Hellenbrand, and I.S.Metcalfe, Wet air oxidation of polyethylene glycols; mechanisms, intermediates and implications for integrated chemical-biological wastewater treatment, *Chemical Engineering Science*, **51(18)**, (1996), 4219-4235.
4. **D.Mantzavinos**, R.Hellenbrand, I.S.Metcalfe and A.G.Livingston, Partial wet oxidation of p-coumaric acid: oxidation intermediates, reaction pathways and implications for wastewater treatment, *Water Research*, **30(12)**, (1996), 2969-2976.
5. **D.Mantzavinos**, R.Hellenbrand, A.G.Livingston and I.S.Metcalfe, Catalytic wet air oxidation of polyethylene glycol, *Applied Catalysis B-Environmental*, **11(1)**, (1996), 99-119.
6. **D.Mantzavinos**, R.Hellenbrand, A.G.Livingston and I.S.Metcalfe, Kinetics of wet oxidation of p-coumaric acid over a CuO.ZnO-Al_2O_3 catalyst, *Chemical Engineering Research & Design*, **75(1)**, (1997), 87-91.
7. **D.Mantzavinos**, R.Hellenbrand, A.G.Livingston and I.S.Metcalfe, Reaction mechanisms and kinetics of chemical pretreatment of bioresistant organic molecules by wet air oxidation, *Water Science & Technology*, **35(4)**, (1997), 119-127.
8. **D.Mantzavinos**, E.Lauer, R.Hellenbrand, A.G.Livingston and I.S.Metcalfe, Wet oxidation as a pretreatment method for wastewaters contaminated by bioresistant organics, *Water Science & Technology,* **36(2-3)**, (1997), 109-116.
9. E.Otal, **D.Mantzavinos**, M.V.Delgado, R.Hellenbrand, J.Lebrato, I.S.Metcalfe and A.G.Livingston, Integrated wet air oxidation and biological treatment of polyethylene glycol-containing wastewaters, *Journal of Chemical Technology & Biotechnology,* **70(2)**, (1997), 147-156.

10. R.Hellenbrand, **D.Mantzavinos**, I.S.Metcalfe and A.G.Livingston, Integration of wet oxidation and nanofiltration for treatment of recalcitrant organics in wastewater, *Industrial & Engineering Chemistry Research,* **36(12)**, (1997), 5054-5062.
11. **D.Mantzavinos**, A.I.Bailey and M.W.Rampling, Flash freezing of erythrocyte suspensions, *Biorheology,* **34(1)**, (1997), 73-83.
12. **D.Mantzavinos**, M.Sahibzada, A.G.Livingston, I.S.Metcalfe and K.Hellgardt, Wastewater treatment: Wet air oxidation as a precursor to biological treatment, *Catalysis Today*, **53(1)**, (1999), 93-106.
13. A.Hartley, M.Sahibzada, M.Weston I.S.Metcalfe and **D.Mantzavinos**, $La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_3$ as the anode and cathode for intermediate temperature solid oxide fuel cells, *Catalysis Today,* **55(1-2)**, (2000), 197-204.
14. **D.Mantzavinos**, E.Lauer, M.Sahibzada, A.G.Livingston and I.S.Metcalfe, Assessment of partial treatment of polyethylene glycol wastewaters by wet air oxidation, *Water Research*, **34(5)**, (2000), 1620-1628.
15. **D.Mantzavinos**, R.Hellenbrand, A.G.Livingston and I.S.Metcalfe, Beneficial combination of wet oxidation, membrane separation and biodegradation processes for treatment of polymer processing wastewaters*, Canadian Journal of Chemical Engineering*, **78(2)**, (2000), 418-422.
16. M.Sahibzada, B.C.H.Steele, K.Hellgardt, D.Barth, A.Effendi, **D.Mantzavinos** and I.S.Metcalfe, Intermediate temperature solid oxide fuel cells operated with methanol fuels, *Chemical Engineering Science*, **55(16)**, (2000), 3077-3083.
17. **D.Mantzavinos**, D.M.P.Burrows, R.Willey, G.LoBiundo, S.F.Zhang, A.G.Livingston and I.S.Metcalfe, Wet air oxidation of aqueous solutions of linear alkyl benzene sulfonates, *Industrial & Engineering Chemistry Research,* **39(10)**, (2000), 3659-3665.
18. M.Sahibzada, **D.Mantzavinos**, A.Hartley, W.Morton and I.S.Metcalfe, Solid electrolyte coulometric studies of oxide state and kinetics, *Chemical Engineering Research & Design*, **78(7)**, (2000), 965-970.
19. **D.Mantzavinos**, A.Hartley, I.S.Metcalfe and M.Sahibzada, Oxygen stoichiometries in $La_{1-x}Sr_xCo_{1-y}Fe_yO_{3-\delta}$ perovskites at reduced oxygen partial pressures, *Solid State Ionics*, **134(1-2)**, (2000), 103-109.
20. A.Hartley, **D.Mantzavinos**, M.Sahibzada and I.S.Metcalfe, An integrated approach for determining oxygen stoichiometries in oxides, *Solid State Ionics*, **136-137**, (2000), 127-131.
21. D.Barth, M.Sahibzada, **D.Mantzavinos** and I.S. Metcalfe, Solid electrolyte sensor for studying the behaviour of a partial oxidation catalyst, *Solid State Ionics*, **136-137**, (2000), 621-627.
22. M.Sahibzada, W.Morton, A.Hartley, **D.Mantzavinos** and I.S.Metcalfe, A simple method for the determination of surface exchange and ionic transport kinetics in oxides, *Solid State Ionics*, **136-137**, (2000), 991-996.
23. **D.Mantzavinos**, D.M.P.Burrows, R.Willey, G.LoBiundo, S.F.Zhang, A.G.Livingston and I.S.Metcalfe, Chemical treatment of an anionic surfactant wastewater: Electrospray-MS analysis of intermediates and effect on aerobic biodegradability, *Water Research*, **35(14)**, (2001), 3337-3344.
24. L.Oliviero, J.Barbier Jr., D.Duprez, H.Wahyu, J.W.Ponton, I.S.Metcalfe and **D.Mantzavinos**, Wet air oxidation of aqueous solutions of maleic acid over Ru/CeO_2 catalysts, *Applied Catalysis B-Environmental,* **35(1)**, (2001), 1-12.
25. M.Papadaki, V.Stoikou, **D.Mantzavinos** and J.L.Rodriguez-Miranda, Towards improved reaction runaway studies: Kinetics of the N-oxidation of 2-methylpyridine using heat-flow calorimetry, *Process Safety & Environmental Protection*, **80(4)**, (2002), 186-196.
26. S.P.Scott, **D.Mantzavinos**, A.Hartley, M.Sahibzada and I.S.Metcalfe, Reactivity of LSCF perovskites, *Solid State Ionics,* **152-153**, (2002), 777-781.

27. L.Oliviero, H.Wahyu, J.Barbier Jr., D.Duprez, J.W.Ponton, I.S.Metcalfe and **D.Mantzavinos**, Experimental and predictive approach for determining wet air oxidation reaction pathways in synthetic wastewaters, *Chemical Engineering Research & Design,* **81(3)**, (2003), 384-392.
28. E.Psillakis, A.Ntelekos, **D.Mantzavinos**, E.Nikolopoulos and N.Kalogerakis, Solid-phase microextraction to monitor the sonochemical degradation of polycyclic aromatic hydrocarbons in water, *Journal of Environmental Monitoring*, **5(1)**, (2003), 135-140.
29. **D.Mantzavinos**, Removal of cinnamic acid derivatives from aqueous effluents by Fenton and Fenton-like processes as an alternative to direct biological treatment, *Water Air & Soil Pollution: Focus,* **3(3)**, (2003), 211-221.
30. **D.Mantzavinos**, Removal of benzoic acid derivatives from aqueous effluents by the catalytic decomposition of hydrogen peroxide, *Process Safety & Environmental Protection,* **81(2)**, (2003), 99-106.
31. R.J.Emery, M.Papadaki and **D.Mantzavinos**, Sonochemical degradation of phenolic pollutants in aqueous solutions, *Environmental Technology*, **24(12),** (2003), 1491-1500.
32. E.Psillakis, **D.Mantzavinos** and N.Kalogerakis, Development of a hollow fibre liquid phase microextraction method to monitor the sonochemical degradation of explosives in water, *Analytica Chimica Acta*, **501(1),** (2004), 3-10.
33. M.Papadaki, R.J.Emery, M.A.Abu-Hassan, A.Díaz-Bustos, I.S.Metcalfe and **D.Mantzavinos**, Sonocatalytic oxidation processes for the removal of contaminants containing aromatic rings from aqueous effluents, *Separation & Purification Technology*, **34(1-3),** (2004), 35-42.
34. E.Psillakis, **D.Mantzavinos** and N.Kalogerakis, Monitoring the sonochemical degradation of phthalate esters in water using solid-phase microextraction, *Chemosphere*, **54(7),** (2004), 849-857.
35. **D.Mantzavinos** and E.Psillakis, Enhancement of biodegradability of industrial wastewaters by chemical oxidation pre-treatment, *Journal of Chemical Technology & Biotechnology*, **79(5),** (2004), 431-454.
36. E.Psillakis, G.Goula, N.Kalogerakis and **D.Mantzavinos**, Degradation of polycyclic aromatic hydrocarbons in aqueous solutions by ultrasonic irradiation, *Journal of Hazardous Materials*, **108(1-2),** (2004), 95-102.
37. C.Vassilakis, A.Pantidou, E.Psillakis, N.Kalogerakis and **D.Mantzavinos**, Sonolysis of natural phenolic compounds in aqueous solutions: degradation pathways and biodegradability, *Water Research*, **38(13),** (2004), 3110-3118.
38. E.Manousaki, E.Psillakis, N.Kalogerakis and **D.Mantzavinos**, Degradation of sodium dodecylbenzene sulfonate in water by ultrasonic irradiation, *Water Research*, **38(17)**, (2004), 3751-3759.
39. R.J.Emery, M.Papadaki, L.M.Freitas dos Santos and **D.Mantzavinos**, Extent of sonochemical degradation and change of toxicity of a pharmaceutical precursor (triphenylphosphine oxide) in water as a function of treatment conditions, *Environment International*, **31(2)**, (2005), 207-211.
40. D.Atanassova, P.Kefalas, C.Petrakis, **D.Mantzavinos**, N.Kalogerakis and E.Psillakis, Sonochemical reduction of the antioxidant activity of olive mill wastewater, *Environment International*, **31(2)**, (2005), 281-287.
41. **D.Mantzavinos** and N.Kalogerakis, Treatment of olive mill effluents. Part I: organic matter degradation by chemical and biological processes – an overview, *Environment International*, **31(2)**, (2005), 289-295.
42. R.Sarika, N.Kalogerakis and **D.Mantzavinos**, Treatment of olive mill effluents. Part II: complete removal of solids by direct flocculation with poly-electrolytes, *Environment International*, **31(2)**, (2005), 297-304.

43. M.A.Abu-Hassan, **D.Mantzavinos** and I.S.Metcalfe, Wet air oxidation and ultrasound for the removal of linear alkylbenzene sulfonates from wastewater: the beneficial role of catalysis, *Topics in Catalysis*, **33(1-4)**, (2005), 141-148.
44. M.Charalabaki, E.Psillakis, **D.Mantzavinos** and N.Kalogerakis, Analysis of polycyclic aromatic hydrocarbons in wastewater treatment plant effluent using hollow fibre liquid-phase microextraction, *Chemosphere*, **60(5)**, (2005), 690-698.
45. M.Gotsi, N.Kalogerakis, E.Psillakis, P.Samaras and **D.Mantzavinos**, Electrochemical oxidation of olive oil mill wastewaters, *Water Research*, **39(17)**, (2005), 4177-4187.
46. T.Velegraki, I.Poulios, M.Charalabaki, N.Kalogerakis, P.Samaras and **D.Mantzavinos**, Photocatalytic and sonolytic oxidation of acid orange 7 in aqueous solution, *Applied Catalysis B-Environmental*, **62(1-2)**, (2006), 159-168.
47. M.A.Abu-Hassan, J.K. Kim, I.S.Metcalfe and **D.Mantzavinos**, Kinetics of low frequency sonodegradation of linear alkylbenzene sulfonate solutions, *Chemosphere*, **62(5)**, (2006), 749-755.
48. T.Manios, G.Moraitaki and **D.Mantzavinos**, Survival of total coliforms in lawn irrigated with secondary wastewater and chlorinated effluent in the Mediterranean region, *Water Environment Research*, **78(3)**, (2006), 330-335.
49. P.A.Pekakis, N.P.Xekoukoulotakis and **D.Mantzavinos**, Treatment of textile dyehouse wastewater by TiO_2 photocatalysis, *Water Research*, **40(6)**, (2006), 1276-1286.
50. A.Ginos, T.Manios and **D.Mantzavinos**, Treatment of olive mill effluents by coagulation-flocculation-hydrogen peroxide oxidation and effect on phytotoxicity, *Journal of Hazardous Materials,* **133(1-3)**, (2006), 135-142.
51. D.R.Stapleton, R.J.Emery, **D.Mantzavinos** and M.Papadaki, Photolytic destruction of halogenated pyridines in wastewaters, *Process Safety & Environmental Protection,* **84(4)**, (2006), 313-316.
52. P.Karageorgos, A.Coz, M.Charalabaki, N.Kalogerakis, N.P.Xekoukoulotakis and **D.Mantzavinos**, Ozonation of weathered olive mill wastewaters, *Journal of Chemical Technology & Biotechnology*, **81(9)**, (2006), 1570-1576.
53. E.Kouroutzidou, I.Georgaki, **D.Mantzavinos** and T.Manios, Anaerobic biodegradability of gallic acid found in olive mill wastewaters, *Journal of Chemical Technology & Biotechnology*, **81(9)**, (2006), 1594-1599.
54. D.R.Stapleton, R.J.Emery, C.Smith, C.Pochet, A.Fernandez-Dominguez, **D.Mantzavinos** and M. Papadaki, Degradation of 2-chloropyridine in water by ultraviolet and ultrasound irradiation, *International Journal of Environment & Pollution*, **28(1-2)**, 2006, 87-99.
55. E.Chatzisymeon, N.P.Xekoukoulotakis, A.Coz, N.Kalogerakis and **D.Mantzavinos**, Electrochemical treatment of textile dyes and dyehouse effluents, *Journal of Hazardous Materials,* **137(2)**, (2006), 998-1007.
56. A.Coz, **D.Mantzavinos**, P.Karageorgos, N.Kalogerakis, A.Andres, J.R.Viguri and A.Irabien, Influence of the organic compounds on the ecotoxicity in the treatment of foundry sludge and olive mill waste, *Annali di Chimica*, **96(9-10)**, (2006), 505-514.
57. T.Papadam, N.P.Xekoukoulotakis, I.Poulios and **D.Mantzavinos**, Photocatalytic transformation of acid orange 20 and Cr(VI) in aqueous TiO_2 suspensions, *Journal of Photochemistry and Photobiology A-Chemistry*, **186(2-3)**, (2007), 308-315.
58. A.M.T.Silva, E.Nouli, N.P.Xekoukoulotakis and **D.Mantzavinos**, Effect of key operating parameters on phenols degradation during H_2O_2-assisted TiO_2 photocatalytic treatment of simulated and actual olive mill wastewaters, *Applied Catalysis B-Environmental*, **73(1-2)**, (2007), 11-22.
59. C.Berberidou, I.Poulios, N.P.Xekoukoulotakis and **D.Mantzavinos**, Sonolytic, photocatalytic and sonophotocatalytic degradation of malachite green in aqueous solutions, *Applied Catalysis B-Environmental*, **74(1-2)**, (2007), 63-72.

60. D.E.Kritikos, N.P.Xekoukoulotakis, E.Psillakis and **D.Mantzavinos**, Photocatalytic degradation of reactive black 5 in aqueous solutions: Effect of operating conditions and coupling with ultrasound, *Water Research*, **41(10)**, (2007), 2236-2246.
61. E.Kotta, N.Kalogerakis and **D.Mantzavinos**, The effect of solids on the electrochemical treatment of olive mill effluents, *Journal of Chemical Technology & Biotechnology*, **82(5)**, (2007), 504-511.
62. A.M.T.Silva, E.Nouli, A.C.Carmo-Apolinario, N.P.Xekoukoulotakis and **D.Mantzavinos**, Sonophotocatalytic/H_2O_2 degradation of phenolic compounds in agro-industrial effluents, *Catalysis Today,* **124(3-4)**, (2007), 232-239.
63. C.Fotiadis, N.P.Xekoukoulotakis and **D.Mantzavinos**, Photocatalytic treatment of wastewater from cottonseed processing: effect of operating conditions, aerobic biodegradability and ecotoxicity, *Catalysis Today,* **124(3-4)**, (2007), 247-253.
64. Z.Frontistis, M.Papadaki and **D.Mantzavinos**, Modelling of sonochemical processes in water treatment, *Water Science & Technology*, **55(12)**, (2007), 47-52.
65. A.Antoniadis, I.Poulios, E.Nikolakaki and **D.Mantzavinos**, Sonochemical disinfection of municipal wastewater, *Journal of Hazardous Materials,* **146(3)**, (2007), 492-495.
66. D.R. Stapleton, **D.Mantzavinos** and M.Papadaki, Photolytic (UVC) and photocatalyic (UVC/TiO_2) decomposition of pyridines, *Journal of Hazardous Materials,* **146(3)**, (2007), 640-645.
67. A.Paleologou, H.Marakas, N.P.Xekoukoulotakis, A.Moya, Y.Vergara, N.Kalogerakis, P.Gikas and **D.Mantzavinos**, Disinfection of water and wastewater by TiO_2 photocatalysis, sonolysis and UV-C irradiation, *Catalysis Today,* **129(1-2)**, (2007), 136-142.
68. A.Coz, O.Rodriguez-Obeso, R.Alonso-Santurde, A.Andres, J.R.Viguri, **D.Mantzavinos** and N.Kalogerakis, Toxicity bioassays in core sediments from the bay of Santander, *Environmental Research*, **106(3)**, (2008), 304-312.
69. T.Velegraki and **D.Mantzavinos**, Conversion of benzoic acid during TiO_2-mediated photocatalytic degradation in water, *Chemical Engineering Journal*, **140(1-3)**, (2008), 15-21.
70. A.Deligiorgis, N.P.Xekoukoulotakis, E.Diamadopoulos and **D.Mantzavinos**, Electrochemical oxidation of table olive processing wastewater over boron-doped diamond electrodes: treatment optimization by factorial design, *Water Research*, **42(4-5)**, (2008), 1229-1237.
71. C.Comninellis, A.Kapalka, S.Malato, S.A.Parsons, I.Poulios and **D.Mantzavinos**, Advanced oxidation processes for water treatment: Advances and trends for R&D, *Journal of Chemical Technology & Biotechnology*, **83(6)**, (2008), 769-776.
72. E.Chatzisymeon, E.Stypas, S.Bousios, N.P.Xekoukoulotakis and **D.Mantzavinos**, Photocatalytic treatment of black table olive-processing wastewater, *Journal of Hazardous Materials,* **154(1-3)**, (2008), 1090-1097.
73. L.Sanchez-Prado, R.Barro, C.Garcia-Jares, M.Llompart, M.Lores, C.Petrakis, N.Kalogerakis, **D.Mantzavinos** and E.Psillakis, Sonochemical degradation of triclosan in water and wastewater, *Ultrasonics Sonochemistry*, **15(5)**, (2008), 689-694.
74. M.Mavros, N.P.Xekoukoulotakis, **D.Mantzavinos** and E.Diamadopoulos, Complete treatment of olive pomace leachate by coagulation, activated carbon adsorption and electrochemical oxidation, *Water Research*, **42(12)**, (2008), 2883-2888.
75. D.Kassinos, M.Constantinou, N.Varnava, A.Papadopoulos, S.Vlachos and **D.Mantzavinos**, Oxidation of pesticides in water by Fenton and photo-Fenton reactions, *Journal of Advanced Oxidation Technologies*, **11(2)**, (2008), 246-253.
76. Z.Frontistis, N.P.Xekoukoulotakis, E.Diamadopoulos and **D.Mantzavinos**, Ozonation of landfill leachates: Treatment optimization by factorial design, *Journal of Advanced Oxidation Technologies*, **11(2)**, (2008), 370-376.

77. A.Katsoni, Z.Frontistis, N.P.Xekoukoulotakis, E.Diamadopoulos and **D.Mantzavinos**, Wet air oxidation of table olive processing wastewater: Determination of key operating parameters by factorial design, *Water Research,* **42(14)**, (2008), 3591-3600.
78. E.Dialynas, **D.Mantzavinos** and E.Diamadopoulos, Advanced treatment of the reverse osmosis concentrate produced during reclamation of municipal wastewater, *Water Research,* **42(18)**, (2008), 4603-4608.
79. M.Monou, N.Pafitis, N.Kythreotou, S.R.Smith, **D.Mantzavinos** and D.Kassinos, Anaerobic co-digestion of potato processing wastewater with pig slurry and abattoir wastewater, *Journal of Chemical Technology & Biotechnology*, **83(12)**, (2008), 1658-1663.
80. M.I.Pariente, F.Martinez, J.A.Melero, J.A.Botas, T.Velegraki, N.P.Xekoukoulotakis and **D.Mantzavinos**, Heterogeneous photo-Fenton oxidation of benzoic acid in water: effect of operating conditions, reaction by-products and coupling with biological treatment, *Applied Catalysis B - Environmental,* **85(1-2)**, (2008), 24-32.
81. V.Kitsiou, N.Filippidis, **D.Mantzavinos** and I.Poulios, Heterogeneous and homogeneous photocatalytic degradation of the insecticide imidacloprid in aqueous solutions, *Applied Catalysis B - Environmental,* **86(1-2)**, (2009), 27-35.
82. M.Klavarioti, **D.Mantzavinos** and D.Kassinos, Removal of residual pharmaceuticals from aqueous systems by advanced oxidation processes, *Environment International*, **35(2)**, (2009), 402-417.
83. A.Zapata, T.Velegraki, J.A.Sanchez-Perez, **D.Mantzavinos**, M.I.Maldonado and S.Malato, Solar photo-Fenton treatment of pesticides in water: Effect of iron concentration on degradation and assessment of ecotoxicity and biodegradability, *Applied Catalysis B - Environmental,* **88(3-4)**, (2009), 448-454.
84. S.Drakopoulou, S.Terzakis, M.S.Fountoulakis, **D.Mantzavinos** and T.Manios, Ultrasound-induced inactivation of gram-negative and gram-positive bacteria in secondary treated municipal wastewater, *Ultrasonics Sonochemistry*, **16(5)**, (2009), 629-634.
85. E.Chatzisymeon, A.Dimou, **D.Mantzavinos** and A.Katsaounis, Electrochemical oxidation of model compounds and olive mill wastewater over DSA electrodes 1. The case of Ti/IrO_2 anode, *Journal of Hazardous Materials,* **167(1-3)**, (2009), 268-274.
86. E.Chatzisymeon, N.P.Xekoukoulotakis and **D.Mantzavinos**, Determination of key operating conditions for the photocatalytic treatment of olive mill wastewaters, *Catalysis Today,* **144(1-2)**, (2009), 143-148.
87. F.Federici, F.Fava, N.Kalogerakis and **D.Mantzavinos**, Valorisation of agro-industrial by-products, effluents and waste: concept, opportunities and the case of olive mill wastewaters, *Journal of Chemical Technology & Biotechnology*, **84(6)**, (2009), 895-900.
88. C.Mavronikola, M.Demetriou, E.Hapeshi, D.Partassides, C.Michael, **D.Mantzavinos** and D.Kassinos, Mineralisation of the antibiotic amoxicillin in pure and surface waters by artificial UVA- and sunlight-induced Fenton oxidation, *Journal of Chemical Technology & Biotechnology*, **84(8)**, (2009), 1211-1217.
89. E.Chatzisymeon, N.P.Xekoukoulotakis, E.Diamadopoulos, A.Katsaounis and **D.Mantzavinos**, Boron-doped diamond anodic treatment of olive mill wastewaters: Statistical analysis, kinetic modeling and biodegradability, *Water Research*, **43(16)**, (2009), 3999-4009.
90. E.S.Tsimas, K.Tyrovola, N.P.Xekoukoulotakis, N.P.Nikolaidis, E.Diamadopoulos and **D.Mantzavinos**, Simultaneous photocatalytic oxidation of As(III) and humic acid in TiO_2 suspensions, *Journal of Hazardous Materials*, **169**(1-3), (2009), 376-385.
91. S.Fierro, E.Passas-Lagos, E.Chatzisymeon, **D.Mantzavinos** and C.Comninellis, Pseudo-potentiostatic electrolysis by potential buffering induced by the oxygen evolution reaction, *Electrochemistry Communications*, **11(7)**, (2009), 1358-1361.
92. E.Chatzisymeon, E.Diamadopoulos and **D.Mantzavinos**, Effect of key operating parameters on the non-catalytic wet oxidation of olive mill wastewaters, *Water Science & Technology*, **59(12)**, (2009), 2509-2518.

93. N.Anastasiou, M.Monou, **D.Mantzavinos** and D.Kassinos, Monitoring of the quality of winery influents/effluents and polishing of partially treated winery flows by homogeneous Fe(II) photo-oxidation, *Desalination*, **248(1-3)**, (2009), 836-842.
94. M.Melemeni, D.Stamatakis, N.P.Xekoukoulotakis, **D.Mantzavinos** and N.Kalogerakis, Disinfection of municipal wastewater by TiO_2 photocatalysis with UV-A, visible and solar irradiation and BDD electrolysis, *Global Nest Journal*, **11(3)**, (2009), 357-363.
95. E.Diamadopoulos, H.Barndõk, N.P.Xekoukoulotakis and **D.Mantzavinos**, Treatment of ink effluents from flexographic printing by lime precipitation and BDD electrochemical oxidation, *Water Science & Technology*, **60(10)**, (2009), 2477-2483.
96. C.Papastavrou, **D.Mantzavinos** and E.Diamadopoulos, A comparative treatment of stabilized landfill leachate: Coagulation and activated carbon adsorption vs. electrochemical oxidation, *Environmental Technology*, **30(14)**, (2009), 1547-1553.
97. V.Naddeo, V.Belgiorno, D.Kassinos, **D.Mantzavinos** and S.Meric, Ultrasonic degradation, mineralization and detoxification of diclofenac in water: Optimization of operating parameters, *Ultrasonics Sonochemistry*, **17(1)**, (2010), 179-185.
98. N.Lydakis-Simantiris, D.Riga, E.Katsivela, **D.Mantzavinos** and N.P.Xekoukoulotakis, Disinfection of spring water and secondary treated municipal wastewater by TiO_2 photocatalysis, *Desalination*, **250(1)**, (2010), 351-355.
99. E.Hapeshi, A.Achilleos, M.I.Vasquez, C.Michael, N.P.Xekoukoulotakis, **D.Mantzavinos** and D.Kassinos, Drugs degrading photocatalytically: kinetics and mechanisms of ofloxacin and atenolol removal on titania suspensions, *Water Research*, **44(6)**, (2010), 1737-1746.
100. D.R.Stapleton, I.K.Konstantinou, **D.Mantzavinos**, D.Hela and M.Papadaki, On the kinetics and mechanisms of photolytic/TiO_2 photocatalytic degradation of substituted pyridines in aqueous solutions, *Applied Catalysis B - Environmental,* **95(1-2)**, (2010), 100-109.
101. N.Papastefanakis, **D.Mantzavinos** and A.Katsaounis, DSA electrochemical treatment of olive mill wastewater on Ti/RuO_2 anode, *Journal of Applied Electrochemistry,* **40(4)**, (2010), 729-737.
102. C.Drosou, A.Coz, N.P.Xekoukoulotakis, A.Moya, Y.Vergara and **D.Mantzavinos**, Peracetic acid-enhanced photocatalytic and sonophotocatalytic inactivation of *E. coli* in aqueous suspensions, *Journal of Chemical Technology & Biotechnology*, **85(8)**, (2010), 1049-1053.
103. N.P.Xekoukoulotakis, N.Xinidis, M.Chroni, **D.Mantzavinos**, D.Venieri, E.Hapeshi and D.Fatta-Kassinos, UV-A/TiO_2 photocatalytic decomposition of erythromycin in water: Factors affecting mineralization and antibiotic activity, *Catalysis Today,* **151(1-2)**, (2010), 29-33.
104. E.Chatzisymeon, S.Fierro, I.Karafyllis, **D.Mantzavinos**, N.Kalogerakis and A.Katsaounis, Anodic oxidation of phenol on Ti/IrO_2 electrode: Experimental studies, *Catalysis Today,* **151(1-2)**, (2010), 185-189.
105. N.P.Xekoukoulotakis, **D.Mantzavinos**, R.Dillert and D.Bahnemann, Synthesis and photocatalytic activity of boron-doped TiO_2 in aqueous suspensions under UV-A irradiation, *Water Science & Technology*, **61(10)**, (2010), 2501-2506.
106. A.Achilleos, E.Hapeshi, N.P.Xekoukoulotakis, **D.Mantzavinos** and D.Fatta-Kassinos, UV-A and solar photodegradation of ibuprofen and carbamazepine catalyzed by TiO_2, *Separation Science & Technology*, **45(11)**, (2010), 1564-1570.
107. E.Hapeshi, A.Achilleos, A.Papaioannou, L.Valanidou, N.P.Xekoukoulotakis, **D. Mantzavinos** and D. Fatta-Kassinos, Sonochemical degradation of ofloxacin in aqueous solutions, *Water Science & Technology*, **61(12)**, (2010), 3141-3146.
108. P.Grafias, N.P.Xekoukoulotakis, **D.Mantzavinos** and E.Diamadopoulos, Pilot treatment of olive pomace leachate by vertical-flow constructed wetland and electrochemical oxidation: An efficient hybrid process, *Water Research*, **44(9)**, (2010), 2773-2780.

109. T.Velegraki, G.Balayiannis, E.Diamadopoulos, A.Katsaounis and **D.Mantzavinos**, Electrochemical oxidation of benzoic acid in water over boron-doped diamond electrodes: Statistical analysis of key operating parameters, kinetic modeling, reaction by-products and ecotoxicity, *Chemical Engineering Journal,* **160(2)**, (2010), 538-548.
110. A.Achilleos, E.Hapeshi, N.P.Xekoukoulotakis, **D.Mantzavinos** and D.Fatta-Kassinos, Factors affecting diclofenac decomposition in water by UV-A/TiO_2 photocatalysis, *Chemical Engineering Journal*, **161(1-2)**, (2010), 53-59.
111. A.Anglada, A.Urtiaga, I.Ortiz, **D.Mantzavinos** and E.Diamadopoulos, Boron-doped diamond anodic treatment of landfill leachate: Evaluation of operating variables and formation of oxidation by-products, *Water Research*, **45(2)**, (2011), 828-838.
112. V.M.Daskalaki, Z.Frontistis, **D.Mantzavinos** and A.Katsaounis, Solar light-induced degradation of bisphenol-A with TiO_2 immobilized on Ti, *Catalysis Today*, **161(1)**, (2011), 110-114.
113. N.P.Xekoukoulotakis, C.Drosou, C.Brebou, E.Chatzisymenon, E.Hapeshi, D.Fatta-Kassinos and **D.Mantzavinos**, Kinetics of UV-A/TiO_2 photocatalytic degradation and mineralization of the antibiotic sulfamethoxazole in aqueous matrices, *Catalysis Today*, **161(1)**, (2011), 163-168.
114. E.Chatzisymeon, A.Droumpali, **D.Mantzavinos** and D.Venieri, Disinfection of water and wastewater by UV-A and UV-C irradiation: application of real-time PCR method, *Photochemical & Photobiological Sciences*, **10(3)**, (2011), 389-395.
115. T.Velegraki, E.Nouli, A.Katsoni, I.V.Yentekakis and **D.Mantzavinos**, Wet oxidation of benzoic acid catalyzed by cupric ions: key parameters affecting induction period and conversion, *Applied Catalysis B - Environmental*, **101(3-4)**, (2011), 479-485.
116. Z.Frontistis, V.M.Daskalaki, A.Katsaounis, I.Poulios and **D.Mantzavinos**, Electrochemical enhancement of solar photocatalysis: Degradation of endocrine disruptor bisphenol-A on Ti/TiO_2 films, *Water Research*, **45(9)**, (2011), 2996-3004.
117. E.Turro, A.Giannis, R.Cossu, E.Gidarakos, **D.Mantzavinos** and A.Katsaounis, Electrochemical oxidation of stabilized landfill leachate on DSA electrodes, *Journal of Hazardous Materials*, **190(1-3)**, (2011), 460-465.
118. A.Anglada, A.Urtiaga, I.Ortiz, **D.Mantzavinos** and E.Diamadopoulos, Treatment of municipal landfill leachate by catalytic wet air oxidation: Assessment of the role of operating parameters by factorial design, *Waste Management*, **31(8)**, (2011), 1833-1840.
119. D.Venieri, E.Chatzisymeon, M.S.Gonzalo, R.Rosal and **D.Mantzavinos**, Inactivation of *Enterococcus faecalis* by TiO_2-mediated UV and solar irradiation in water and wastewater: culture techniques never say the whole truth, *Photochemical & Photobiological Sciences*, **10(11)**, (2011), 1744-1750.
120. L.A.Ioannou, E.Hapeshi, M.I.Vasquez, **D.Mantzavinos** and D.Fatta-Kassinos, Solar/TiO_2 photocatalytic decomposition of β-blockers atenolol and propanolol in water and wastewater, *Solar Energy*, **85(9)**, (2011), 1915-1926.
121. Z.Frontistis, C.Brebou, D.Venieri, **D.Mantzavinos** and A.Katsaounis, BDD anodic oxidation as tertiary wastewater treatment for the removal of emerging micro-pollutants, pathogens and organic matter, *Journal of Chemical Technology & Biotechnology*, **86(10)**, (2011), 1233-1236.
122. A.Coz, M.Villegas, A.Andrés, J.R.Viguri, **D.Mantzavinos** and N.P.Xekoukoulotakis, Management scenarios for olive oil mill waste based on characterisation and leaching tests, *Journal of Chemical Technology & Biotechnology*, **86(12)**, (2011), 1542-1547.
123. A.Katsoni, H.T.Gomes, L.M.Pastrana-Martinez, J.L.Faria, J.L.Figueiredo, **D.Mantzavinos** and A.M.T.Silva, Degradation of trinitrophenol by sequential catalytic wet air oxidation and solar TiO_2 photocatalysis, *Chemical Engineering Journal*, **172(2-3)**, (2011), 634-640.
124. Z.Frontistis, N.P.Xekoukoulotakis, E.Hapeshi, D.Venieri, D.Fatta-Kassinos and **D.Mantzavinos**, Fast degradation of estrogen hormones in environmental matrices by

photo-Fenton oxidation under simulated solar radiation, *Chemical Engineering Journal*, **178**, (2011), 175-182.

125. Z.Frontistis and **D.Mantzavinos**, Sonodegradation of 17α-ethynylestradiol in environmentally relevant matrices: Laboratory-scale kinetic studies, *Ultrasonics Sonochemistry*, **19(1)**, (2012), 77-84.
126. E.Tsantaki, T.Velegraki, A.Katsaounis and **D.Mantzavinos**, Anodic oxidation of textile dyehouse effluents on boron-doped diamond electrode, *Journal of Hazardous Materials*, **207-208**, (2012), 91-96.
127. M.I.Polo-López, I.García-Fernández, T.Velegraki, A.Katsoni, I.Oller, **D.Mantzavinos** and P.Fernández-Ibáñez, Mild solar photo-Fenton: an effective tool for the removal of *Fusarium* from simulated municipal effluents, *Applied Catalysis B - Environmental*, **111-112**, (2012), 545-554.
128. D.Dimitrakopoulou, I.Rethemiotaki, Z.Frontistis, N.P.Xekoukoulotakis, D.Venieri and **D.Mantzavinos**, Degradation, mineralization and antibiotic inactivation of amoxicillin by UV-A/TiO_2 photocatalysis, *Journal of Environmental Management*, **98**, (2012), 168-174.
129. Z.Frontistis, D.Fatta-Kassinos, N.P.Xekoukoulotakis and **D.Mantzavinos**, Photocatalytic degradation of 17α-ethynylestradiol in environmental samples by ZnO under simulated solar radiation, *Journal of Chemical Technology & Biotechnology*, **87(8)**, (2012), 1051-1058.
130. H.Dimitroula, V.M.Daskalaki, Z.Frontistis, D.I.Kondarides, P.Panagiotopoulou, N.P.Xekoukoulotakis and **D.Mantzavinos**, Solar photocatalysis for the abatement of emerging micro-contaminants in wastewater: Synthesis, characterization and testing of various TiO_2 samples, *Applied Catalysis B - Environmental*, **117-118**, (2012), 283-291.
131. D.Venieri, E.Chatzisymeon, S.S.Sofianos, E.Politi, N.P.Xekoukoulotakis, A.Katsaounis and **D.Mantzavinos**, Removal of faecal indicator pathogens from waters and wastewaters by photoelectrocatalytic oxidation on TiO_2/Ti films under simulated solar radiation, *Environmental Science & Pollution Research*, **19(9)**, (2012), 3782-3790.
132. Z.Frontistis, V.M.Daskalaki, E.Hapeshi, C.Drosou, D.Fatta-Kassinos, N.P.Xekoukoulotakis and **D.Mantzavinos**, Photocatalytic (UV-A/TiO_2) degradation of 17α-ethynylestradiol in environmental matrices: Experimental studies and artificial neural network modeling, *Journal of Photochemistry and Photobiology A-Chemistry*, **240**, (2012), 33-41.
133. A.Urtiaga, I.Ortiz, A.Anglada, **D.Mantzavinos** and E.Diamadopoulos, Kinetic modeling of the electrochemical removal of ammonium and COD from landfill leachates, *Journal of Applied Electrochemistry*, **42(9)**, (2012), 779-786.
134. Z.Frontistis, C.Drosou, K.Tyrovola, **D.Mantzavinos**, D.Fatta-Kassinos, D.Venieri and N.P.Xekoukoulotakis, Experimental and modeling studies of the degradation of estrogen hormones in aqueous TiO_2 suspensions under simulated solar radiation, *Industrial & Engineering Chemistry Research*, **51(51)**, (2012), 16552-16563.
135. D.Venieri, E.Markogiannaki, E.Chatzisymeon, E.Diamadopoulos and **D.Mantzavinos**, Inactivation of *Bacillus anthracis* in water by photocatalytic, photolytic and sonochemical treatment, *Photochemical & Photobiological Sciences*, **12(4)**, (2013), 645-652.
136. L.Ioannou, T.Velegraki, C.Michael, **D.Mantzavinos** and D.Fatta-Kassinos, Sunlight, iron and radicals to tackle the resistant leftovers of biotreated winery wastewaters, *Photochemical & Photobiological Sciences*, **12(4)**, (2013), 664-670.
137. D.Venieri, E.Chatzisymeon, E.Politi, S.S.Sofianos, A.Katsaounis and **D.Mantzavinos**, Photoelectrocatalytic disinfection of water and wastewater: performance evaluation by qPCR and culture techniques, *Journal of Water & Health*, **11(1)**, (2013), 21-29.
138. E.Chatzisymeon, C.Petrou and **D.Mantzavinos**, Photocatalytic treatment of textile dyehouse effluents with simulated and natural solar light, *Global Nest Journal*, **15(1)**, (2013), 21-28.

139. E.Lacasa, E.Tsolaki, Z.Sbokou, M.A.Rodrigo, **D.Mantzavinos** and E.Diamadopoulos, Electrochemical disinfection of simulated ballast water on conductive diamond electrodes, *Chemical Engineering Journal*, **223**, (2013), 516-523.
140. P.C. Papaphilippou, C.Yiannapas, M.Politi, V.M.Daskalaki, C.Michael, N.Kalogerakis, **D.Mantzavinos** and D.Fatta-Kassinos, Sequential coagulation-flocculation, solvent extraction and solar-Fenton oxidation for the valorization and treatment of olive mill effluent, *Chemical Engineering Journal*, **224**, (2013), 82-88.
141. V.Koutantou, M.Kostadima, E.Chatzisymeon, Z.Frontistis, V.Binas, D.Venieri and **D.Mantzavinos**, Solar photocatalytic decomposition of estrogens over immobilized zinc oxide, *Catalysis Today*, **209**, (2013), 66-73.
142. V.M.Daskalaki, I.Fulgione, Z.Frontistis. L.Rizzo and **D.Mantzavinos**, Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO_2/ITO film anode and BDD cathode, *Catalysis Today*, **209**, (2013), 74-78.
143. E.Chatzisymeon, S.Foteinis, **D.Mantzavinos** and T.Tsoutsos, Life cycle assessment of advanced oxidation processes for olive mill wastewater treatment, *Journal of Cleaner Production*, **54**, (2013), 229-234.
144. N.Kalogerakis, M.Politi, S.Foteinis, E.Chatzisymeon and **D.Mantzavinos**, Recovery of antioxidants from olive mill wastewaters: A viable solution that promotes their overall sustainable management, *Journal of Environmental Management*, **128**, (2013), 749-758.
145. A.Zacharakis, E.Chatsisymeon, V.Binas, Z.Frontistis, D.Venieri and **D.Mantzavinos**, Solar photocatalytic degradation of bisphenol A on immobilized ZnO or TiO_2, *International Journal of Photoenergy*, **2013**, (2013), Article ID 570587, doi:10.1155/2013/570587, 1-9.
146. V.M.Daskalaki, H.Marakas, **D.Mantzavinos**, A.Katsaounis and P.Gikas, Use of seawater for the boron-doped diamond electrochemical treatment of diluted vinasse wastewaters, *Water Science & Technology*, **68(11)**, (2013), 2344-2350.
147. G.Pliego, N.P.Xekoukoulotakis, D.Venieri, J.A. Zazo, J.A. Casas, J.J. Rodriguez and **D.Mantzavinos**, Complete degradation of the persistent anti-depressant sertraline in aqueous solution by solar photo-Fenton oxidation, *Journal of Chemical Technology & Biotechnology*, **89(6)**, (2014), 814-818.
148. V.Kitsiou, A.Antoniadis, **D.Mantzavinos** and I.Poulios, Homogeneous photo-Fenton mineralization of the antibiotic sulfamethazine in water under UV-A, visible and solar irradiation, *Journal of Chemical Technology & Biotechnology*, **89(11)**, (2014), 1668-1674.
149. D.Venieri, A.Fraggedaki, M.Kostadima, E.Chatzisymeon, V.Binas, A.Zachopoulos, G.Kiriakidis and **D.Mantzavinos**, Solar light and metal-doped TiO_2 to eliminate water-transmitted bacterial pathogens: Photocatalyst characterization and disinfection performance, *Applied Catalysis B – Environmental*, **154-155**, (2014), 93-101.
150. A.Katsoni, **D.Mantzavinos** and E.Diamadopoulos, Sequential treatment of diluted olive pomace leachate by digestion in a pilot scale UASB reactor and BDD electrochemical oxidation, *Water Research*, **57**, (2014), 76-86.
151. A.Katsoni, **D.Mantzavinos** and E.Diamadopoulos, Coupling digestion in a pilot-scale UASB reactor and electrochemical oxidation over BDD anode to treat diluted cheese whey, *Environmental Science & Pollution Research*, **21(21)**, (2014), 12170-12181.
152. F.Martínez, I.Pariente, C.Brebou, R.Molina, J.A.Melero, D.Bremner and **D.Mantzavinos**, Chemical surface modified-activated carbon cloth for catalytic wet peroxide oxidation of phenol, *Journal of Chemical Technology & Biotechnology*, **89(8)**, (2014), 1182-1188.
153. R.Vicente, J.Soler, A.Arques, A.M.Amat, Z.Frontistis, N.Xekoukoulotakis and **D.Mantzavinos**, Comparison of different TiO_2 samples as photocatalyst for the degradation of a mixture of four commercial pesticides, *Journal of Chemical Technology & Biotechnology*, **89(8)**, (2014), 1259-1264.

154. S.Fanourgiakis, Z.Frontistis, E.Chatzisymeon, D.Venieri and **D.Mantzavinos**, Simultaneous removal of estrogens and pathogens from secondary treated wastewater by solar photocatalytic treatment, *Global Nest Journal*, **16(3)**, (2014), 543-552.
155. V.Naddeo, A.Cesaro, **D.Mantzavinos**, D.Fatta-Kassinos and V.Belgiorno, Water and wastewater disinfection by ultrasound irradiation - a critical review, *Global Nest Journal*, **16(3)**, (2014), 561-577.
156. T.Velegraki and **D.Mantzavinos**, Solar photo-Fenton treatment of winery effluents in a pilot photocatalytic reactor, *Catalysis Today*, **240**, (2015), 153-159.
157. I.Tantis, L.Bousiakou, Z.Frontistis, **D.Mantzavinos**, I.Konstaninou, M.Antonopoulou, G.A.Karikas and P.Lianos, Photocatalytic and photoelectrocatalytic degradation of the drug omeprazole on nanocrystaline titania films in alkaline media: Effect of applied electrical bias on degradation and transformation products, *Journal of Hazardous Materials*, **294**, (2015), 57-63.
158. Z.Frontistis, E.Hapeshi, D.Fatta-Kassinos and **D.Mantzavinos**, Ultraviolet-activated persulfate oxidation of methyl orange: a comparison between artificial neural networks and factorial design for process modelling, *Photochemical & Photobiological Sciences*, **14(3)**, (2015), 528-535.
159. D.Venieri, A.Fraggedaki, V.Binas, A.Zachopoulos, G.Kiriakidis and **D.Mantzavinos**, Study of the generated genetic polymorphisms during the photocatalytic elimination of *Klebsiella pneumoniae* in water, *Photochemical & Photobiological Sciences*, **14(3)**, (2015), 506-513.
160. I.Tantis, E.Stathatos, **D.Mantzavinos** and P.Lianos, Photoelectrocatalytic degradation of potential water pollutants in the presence of NaCl using nanocrystalline titania films, *Journal of Chemical Technology & Biotechnology*, **90(7)**, (2015), 1338-1344.
161. Z.Frontistis, M.Kouramanos, S.Moraitis, E.Chatzisymeon, E.Hapeshi, D.Fatta-Kassinos, N.P.Xekoukoulotakis and D.Mantzavinos, UV and simulated solar photodegradation of 17α-ethynylestradiol in secondary-treated wastewater by hydrogen peroxide or iron addition, *Catalysis Today*, **252**, (2015), 84-92.
162. M.Valari, A.Antoniadis, **D.Mantzavinos** and I.Poulios, Photocatalytic reduction of Cr(VI) over titania suspensions, *Catalysis Today*, **252**, (2015), 190-194.
163. D.Venieri, I.Gounaki, V.Binas, A.Zachopoulos, G.Kiriakidis and **D.Mantzavinos**, Inactivation of MS2 coliphage in sewage by solar photocatalysis using metal-doped TiO_2, *Applied Catalysis B – Environmental*, **178**, (2015), 54-64.
164. A.Petala, Z.Frontistis, M.Antonopoulou, I.Konstantinou, D.I.Kondarides and **D.Mantzavinos**, Kinetics of ethyl paraben degradation by simulated solar radiation in the presence of N-doped TiO_2 catalysts, *Water Research*, **81**, (2015), 157-166.
165. B.Darsinou, Z.Frontistis, M.Antonopoulou, I.Konstantinou and **D.Mantzavinos**, Sono-activated persulfate oxidation of bisphenol A: Kinetics, pathways and the controversial role of temperature, *Chemical Engineering Journal*, **280**, (2015), 623-633.
166. I.V.Yentekakis, G.Goula, P.Panagiotopoulou, A.Katsoni, E.Diamadopoulos, **D.Mantzavinos** and A.Delimitis, Dry reforming of methane: Catalytic performance and stability of Ir catalysts supported on γ-Al_2O_3, $Zr_{0.92}Y_{0.08}O_{2-\delta}$ (YSZ) or $Ce_{0.9}Gd_{0.1}O_{2-\delta}$ (GDC) supports, *Topics in Catalysis*, **58(18)**, (2015), 1228-1241.
167. C.Papadopoulos, Z.Frontistis, M.Antonopoulou, D.Venieri, I.Konstantinou and **D.Mantzavinos**, Sonochemical degradation of ethyl paraben in environmental samples: Statistically important parameters determining kinetics, by-products and pathways, *Ultrasonics Sonochemistry*, **31**, (2016), 62-70.
168. Z.Frontistis, E.M.Mestres, I.Konstantinou and **D.Mantzavinos**, Removal of cibacron black commercial dye with heat- or iron-activated persulfate: Statistical evaluation of key operating parameters on decolorization and degradation by-products, *Desalination & Water Treatment*, **57(6)**, (2016), 2616-2625.

169. E.Ioannidou, A.Ioannidi, Z.Frontistis, M.Antonopoulou, C.Tselios, D.Tsikritzis, I.Konstantinou, S.Kennou, D.I.Kondarides and **D.Mantzavinos**, Correlating the properties of hydrogenated titania to reaction kinetics and mechanism for the photocatalytic degradation of bisphenol A under solar irradiation, *Applied Catalysis B - Environmental*, **188**, (2016), 65-76.
170. T.I.Tatoulis, S.Zapantiotis, Z.Frontistis, C.S.Akratos, A.G.Tekerlekopoulou, S.Pavlou, **D.Mantzavinos** and D.V.Vayenas, A hybrid system comprising an aerobic biological process and electrochemical oxidation for the treatment of black table olive processing wastewaters, *International Biodeterioration & Biodegradation*, **109**, (2016), 104-112.
171. R.S.Ribeiro, Z.Frontistis, **D.Mantzavinos**, D.Venieri, M.Antonopoulou, I.Konstantinou, A.M.T.Silva, J.L.Faria and H.T.Gomes, Magnetic carbon xerogels for the catalytic wet peroxide oxidation of sulfamethoxazole in environmentally relevant water matrices, *Applied Catalysis B - Environmental*, **199**, (2016), 170-186.
172. M.E.Taheri, A.Petala, Z.Frontistis, **D.Mantzavinos** and D.I.Kondarides, Fast photocatalytic degradation of bisphenol A by Ag_3PO_4/TiO_2 composites under solar radiation, *Catalysis Today*, **280**, (2017), 99-107.
173. Z.Frontistis, M.Antonopoulou, D.Venieri, S.Dailianis, I.Konstantinou and **D.Mantzavinos**, Solar photocatalytic decomposition of ethyl paraben in zinc oxide suspensions, *Catalysis Today*, **280**, (2017), 139-148.
174. A.Petala, R.Bontemps, A.Spartatouille, Z.Frontistis, M.Antonopoulou, I.Konstantinou, D.I. Kondarides and **D.Mantzavinos**, Solar light-induced degradation of ethyl paraben with $CuO_x/BiVO_4$: Statistical evaluation of operating factors and transformation by-products, *Catalysis Today*, **280**, (2017), 122-131.
175. C.B.Ozkal, **D.Mantzavinos** and S.Meric, Photocatalytic activity based-optimization of TTIP thin films for *E. coli* inactivation: Effect of Mn and Cu dopants, *Catalysis Today*, **280**, (2017), 86-92.
176. Z.Frontistis, M.Antonopoulou, A.Petala, D.Venieri, I.Konstantinou, D.I.Kondarides and **D.Mantzavinos**, Photodegradation of ethyl paraben using simulated solar radiation and Ag_3PO_4 photocatalyst, *Journal of Hazardous Materials*, **323**, (2017), 478-488.
177. Z.Frontistis, M.Antonopoulou, I.Konstantinou and **D.Mantzavinos**, Degradation of ethyl paraben by heat-activated persulfate oxidation: Statistical evaluation of operating factors and transformation pathways, *Environmental Science & Pollution Research*, **24(2)**, (2017), 1073-1084.
178. T.Tatoulis, A.Stefanakis, Z.Frontistis, C.S. Akratos, A.G. Tekerlekopoulou, **D.Mantzavinos** and D.V. Vayenas, Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation, *Environmental Science & Pollution Research*, **24(2)**, (2017), 1085-1092.
179. D.Venieri, F.Tournas, I.Gounaki, V.Binas, A.Zachopoulos, G.Kiriakidis and **D.Mantzavinos**, Inactivation of *Staphylococcus aureus* in water by means of solar photocatalysis using metal doped TiO_2 semiconductors, *Journal of Chemical Technology & Biotechnology*, **92(1)**, (2017), 43-51.
180. V.Repousi, A.Petala, Z.Frontistis, M.Antonopoulou, I.Konstantinou, D.I. Kondarides and **D.Mantzavinos**, Photocatalytic degradation of bisphenol A over Rh/TiO_2 suspensions in different water matrices, *Catalysis Today*, **284**, (2017), 59-66.
181. Y.Kanigaridou, A.Petala, Z.Frontistis, M.Antonopoulou, M.Solakidou, I.Konstantinou, Y.Deligiannakis, **D.Mantzavinos** and D.I.Kondarides, Solar photocatalytic degradation of bisphenol A with $CuO_x/BiVO_4$: Insights into the unexpectedly favorable effect of bicarbonates, *Chemical Engineering Journal*, **318**, (2017), 39-49.
182. E.Ioannidou, Z.Frontistis, M.Antonopoulou, D.Venieri, I.Konstantinou, D.I.Kondarides and **D.Mantzavinos**, Solar photocatalytic degradation of sulfamethoxazole over tungsten – modified TiO_2, *Chemical Engineering Journal*, **318**, (2017), 143-152.

183. R.Dewil, **D.Mantzavinos**, I.Poulios and M.A.Rodrigo, New perspectives for advanced oxidation processes, *Journal of Environmental Management*, **195**, (2017), 93-99.
184. Z.Frontistis, M.Antonopoulou, D.Venieri, I.Konstantinou and **D.Mantzavinos**, Boron-doped diamond oxidation of amoxicillin pharmaceutical formulation: Statistical evaluation of operating parameters, reaction pathways and antibacterial activity, *Journal of Environmental Management*, **195**, (2017), 100-109.
185. N.Potakis, Z.Frontistis, M.Antonopoulou, I.Konstantinou and **D.Mantzavinos**, Oxidation of bisphenol A in water by heat-activated persulfate, *Journal of Environmental Management*, **195**, (2017), 125-132.
186. D.Venieri, I.Gounaki, M.Bikouvaraki, V.Binas, A.Zachopoulos, G.Kiriakidis and **D.Mantzavinos**, Solar photocatalysis as disinfection technique: Inactivation of *Klebsiella pneumoniae* in sewage and investigation of changes in antibiotic resistance profile, *Journal of Environmental Management*, **195**, (2017), 140-147.
187. Z.Frontistis, M.Antonopoulou, M.Yazirdagi, Z.Kilinc, I.Konstantinou, A.Katsaounis and **D.Mantzavinos**, Boron-doped diamond electrooxidation of ethyl paraben: The effect of electrolyte on by-products distribution and mechanisms, *Journal of Environmental Management*, **195**, (2017), 148-156.
188. A.Outsiou, Z.Frontistis, R.S.Ribeiro, M.Antonopoulou, I.Konstantinou, A.M.T.Silva, J.L.Faria, H.T.Gomes and **D.Mantzavinos**, Activation of sodium persulfate by magnetic carbon xerogels (CX/CoFe) for the oxidation of bisphenol A: Process variables effects, matrix effects and reaction pathways, *Water Research*, **124**, (2017), 97-107.
189. L.Bekris, Z.Frontistis, G.Trakakis, L.Sygellou, C.Galiotis and **D.Mantzavinos**, Graphene: a new activator of sodium persulfate for the advanced oxidation of parabens in water, *Water Research*, **126**, (2017), 111-121.
190. C.B.Ozkal, Z.Frontistis, M.Antonopoulou, I.Konstantinou, **D.Mantzavinos** and S.Meric, Removal of antibiotics in a parallel-plate thin-film-photocatalytic reactor: Process modeling and evolution of transformation by-products and toxicity, *Journal of Environmental Sciences*, **60**, (2017), 114-122.
191. A.Lianou, Z.Frontistis, E.Chatzisymeon, M.Antonopoulou, I.Konstantinou and **D.Mantzavinos**, Sonochemical oxidation of piroxicam drug: Effect of key operating parameters and degradation pathways, *Journal of Chemical Technology & Biotechnology*, **93(1)**, (2018), 28-34.
192. S.Foteinis, A.G.L.Borthwick, Z.Frontistis, **D.Mantzavinos** and E.Chatzisymeon, Environmental sustainability of light-driven processes for wastewater treatment applications, *Journal of Cleaner Production*, **182**, (2018), 8-15.
193. E.Grilla, A.Petala, Z.Frontistis, I.K.Konstantinou, D.I.Kondarides and **D.Mantzavinos**, Solar photocatalytic abatement of sulfamethoxazole over Ag_3PO_4/WO_3 composites, *Applied Catalysis B – Environmental*, **231**, (2018), 73-81.
194. H. Lebik-Elhadi, Z.Frontistis, H.Ait-Amar, S.Amrani and **D.Mantzavinos**, Electrochemical oxidation of pesticide thiamethoxam on boron doped diamond anode: Role of operating parameters and matrix effect, *Process Safety & Environmental Protection*, **116**, (2018), 535-541.
195. A.Ioannidi, Z.Frontistis and **D.Mantzavinos**, Destruction of propyl paraben by persulfate activated with UV-A light emitting diodes, *Journal of Environmental Chemical Engineering*, **6**, (2018), 2992-2997.
196. M.E.Metheniti, Z.Frontistis, R.S.Ribeiro, A.M.T.Silva, J.L.Faria, H.T.Gomes and **D.Mantzavinos**, Degradation of propyl paraben by activated persulfate using iron-containing magnetic carbon xerogels: Investigation of water matrix and process synergy effects, *Environmental Science & Pollution Research*, **25(35)**, (2018), 34801-34810.
197. S.Kotzamanidi, Z.Frontistis, V.Binas, G.Kiriakidis and **D.Mantzavinos**, Solar photocatalytic degradation of propyl paraben in Al-doped TiO_2 suspensions, *Catalysis Today*, **313**, (2018), 148-154.

198. L.Kemmou, Z.Frontistis, J.Vakros, I.D.Manariotis and **D.Mantzavinos**, Degradation of antibiotic sulfamethoxazole by biochar-activated persulfate: Factors affecting the activation and degradation processes, *Catalysis Today*, **313**, (2018), 128-133.
199. Z.Frontistis, **D.Mantzavinos** and S.Meric, Degradation of antibiotic ampicillin on boron-doped diamond anode using the combined electrochemical oxidation - sodium persulfate process, *Journal of Environmental Management*, **223**, (2018), 878-887.
200. V.Matthaiou, Z.Frontistis, A.Petala, M.Solakidou, Y.Deligiannakis, G.N.Angelopoulos and **D.Mantzavinos**, Utilization of raw red mud as a source of iron activating the persulfate oxidation of paraben, *Process Safety & Environmental Protection*, **119**, (2018), 311-319.
201. I.Papagiannis, G.Koutsikou, Z.Frontistis, I.Konstantinou, G.Avgouropoulos, **D.Mantzavinos** and P.Lianos, Photoelectrocatalytic vs. photocatalytic degradation of organic water born pollutants, *Catalysts*, **8(10)**, (2018), 455.
202. C.Alexopoulou, A.Petala, Z.Frontistis, C.Drivas, S.Kennou, D.I. Kondarides and **D.Mantzavinos**, Copper phosphide and persulfate salt: A novel catalytic system for the degradation of aqueous phase micro-contaminants, *Applied Catalysis B – Environmental*, **244**, (2019), 178-187.
203. E.Grilla, V.Matthaiou, Z.Frontistis, I.Oller, I.Polo, S.Malato and **D.Mantzavinos**, Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO_2 and persulfate: A pilot plant study, *Catalysis Today*, **328**, (2019), 216-222.
204. A.Petala, D.Spyrou, Z.Frontistis, **D.Mantzavinos** and D.I.Kondarides, Immobilized Ag_3PO_4 photocatalyst for micro-pollutants removal in a continuous flow annular photoreactor, *Catalysis Today*, **328**, (2019), 223-229.
205. A.Petala, A.Noe, Z.Frontistis, C.Drivas, S.Kennou, **D.Mantzavinos** and D.I.Kondarides, Synthesis and characterization of $CoO_x/BiVO_4$ photocatalysts for the degradation of propyl paraben, *Journal of Hazardous Materials*, **372**, (2019), 52-60.
206. V.Matthaiou, P.Oulego, Z.Frontistis, S.Collado, D.Hela, I.K.Konstantinou, M.Diaz and **D.Mantzavinos**, Valorization of steel slag towards a Fenton-like catalyst for the degradation of paraben by activated persulfate, *Chemical Engineering Journal*, **360**, (2019), 728-739.
207. T.Tomara, Z.Frontistis, A.Petala and **D.Mantzavinos**, Photocatalytic performance of Ag_2O towards sulfamethoxazole degradation in environmental samples, *Journal of Environmental Chemical Engineering*, **7**, (2019), 103177.
208. R.S.Ribeiro, Z.Frontistis, **D.Mantzavinos**, A.M.T.Silva, J.L.Faria and H.T.Gomes, Screening of heterogeneous catalysts for the activated persulfate oxidation of sulfamethoxazole in aqueous matrices. Does the matrix affect the selection of catalyst? *Journal of Chemical Technology & Biotechnology*, **94**, (2019), 2425-2432.
209. A.Kouskouki, E.Chatzisymeon, **D.Mantzavinos** and Z.Frontistis, Electrochemical degradation of piroxicam on a boron doped diamond anode: Investigation of operating parameters and ultrasound synergy, *ChemElectroChem*, **6**, (2019), 841-847.
210. E.Magioglou, Z.Frontistis, J.Vakros, I.D.Manariotis and **D.Mantzavinos**, Activation of persulfate by biochars from valorized olive stones for the degradation of sulfamethoxazole, *Catalysts*, **9(5)**, (2019), 419.
211. A.Tsiampalis, Z.Frontistis, V.Binas, G.Kiriakidis and **D.Mantzavinos**, Degradation of sulfamethoxazole using iron-doped titania and simulated solar radiation, *Catalysts*, **9(7)**, (2019), 612.
212. S.Dimitriadou, Z.Frontistis, A.Petala, G.Bampos and **D.Mantzavinos**, Carbocatalytic activation of persulfate for the removal of drug diclofenac from aqueous matrices, *Catalysis Today*, **in press**
213. H.Lebik-Elhadi, Z.Frontistis, H.Ait-Amar, F.Madjene and **D.Mantzavinos**, Degradation of pesticide thiamethoxam by heat-activated and ultrasound-activated persulfate: Effect of key operating parameters and the water matrix, *Process Safety & Environmental Protection*, **134,** (2020), 197-207.

214. A.Zanias, Z.Frontistis, J.Vakros, O.S.Arvaniti, R.S.Ribeiro, A.M.T.Silva, J.L.Faria, H.T.Gomes and **D.Mantzavinos**, Degradation of methylparaben by sonocatalysis using a Co-Fe magnetic carbon xerogel, *Ultrasonics Sonochemistry*, **64**, (2020), 105045.
215. A.Petala, A.Nassiou, **D.Mantzavinos** and Z.Frontistis, Photocatalytic evaluation of Ag_2CO_3 for ethylparaben degradation in different water matrices, *Water*, **12(4)**, (2020), 1180.
216. P.Kokkinos, **D.Mantzavinos** and D.Venieri, Current trends in the application of nanomaterials for the removal of emerging micropollutants and pathogens from water, *Molecules*, **25(9)**, (2020), 2016.
217. O.S.Arvaniti, Z.Frontistis, M.C.Nika, R.Aalizadeh, N.S.Thomaidis and **D.Mantzavinos**, Sonochemical degradation of trimethoprim in water matrices: Effect of operating conditions, identification of transformation products and toxicity assessment, *Ultrasonics Sonochemistry*, **67**, (2020), 105139.
218. S.Nikolaou, J.Vakros, E.Diamadopoulos and **D.Mantzavinos**, Sonochemical degradation of propylparaben in the presence of agro-industrial biochar, *Journal of Environmental Chemical Engineering*, **8**, (2020), 104010.
219. N.Pueyo, M.P.Ormad, N.Miguel, P.Kokkinos, A.Ioannidi, **D.Mantzavinos** and Z.Frontistis, Electrochemical oxidation of butyl paraben on boron doped diamond in environmental matrices and comparison with sulfate radical-AOP, *Journal of Environmental Management*, **269**, (2020), 110783.
220. A.Stathoulopoulos, **D.Mantzavinos** and Z.Frontistis, Coupling persulfate-based AOPs: A novel approach for piroxicam degradation in aqueous matrices, *Water*, **12(6)**, (2020), 1530.
221. A.Ioannidi, P.Oulego, S.Collado, A.Petala, V.Arniella, Z.Frontistis, G.N.Angelopoulos, M.Diaz and **D.Mantzavinos**, Persulfate activation by modified red mud for the oxidation of antibiotic sulfamethoxazole in water, *Journal of Environmental Management*, **270**, (2020), 110820.
222. A.Lykoudi, Z.Frontistis, J.Vakros, I.D.Manariotis and **D.Mantzavinos**, Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator, *Journal of Environmental Management*, **271**, (2020), 111022.
223. E.Grilla, J.Vakros, I.Konstantinou, I.D.Manariotis and **D.Mantzavinos**, Activation of persulfate by biochar from spent malt rootlets for the degradation of trimethoprim in the presence of inorganic ions, *Journal of Chemical Technology & Biotechnology*, **95(9)**, (2020), 2348-2358.
224. M.Moschogiannaki, Z.Frontistis, G.Kiriakidis, **D.Mantzavinos** and V.Binas, Porous $Co_xNi_{1-x}TiO_3$ nanorods for solar photocatalytic degradation of ethyl paraben, *Journal of Meteriomics*, **6(4)**, (2020), 788-799.
225. C.Gkika, A.Petala, Z.Frontistis, G.Bampos, D.Hela, I.Konstantinou and **D.Mantzavinos**, Heterogeneous activation of persulfate by lanthanum strontium cobaltite for sulfamethoxazole degradation, *Catalysis Today*, **in press**
226. K.Lalas, A.Petala, Z.Frontistis, I.Konstantinou and **D.Mantzavinos**, Sulfamethoxazole degradation by the CuO_x/persulfate system, *Catalysis Today*, **in press**