



**ANDREADAKIS ANDREAS D.**

**Professor**



#### **A. Recent Publications in International Journals**

- A1. Hatziconstantinou G., Yannakopoulos P., **Andreadakis A.** (1996) "Primary Sludge Hydrolysis for Biological Nutrient Removal", *J. Wat.Sci.Tech.*, 34, 1-2, 417-423.
- A2. **Andreadakis A.** (1997) "Industrial Developments", *Water Quality International*, January-February, 41-42.
- A3. **Andreadakis A.D.** (1997) "Wastewater Treatment and Disposal for the preservation of Bathing and Coastal Water Quality in Touristic Areas". *Marine Chemistry*, (58), 389-395.
- A4. **Andreadakis A.D.**, Kalergis K., Kartsonas N., Anagnostopoulos D. (1997) "Determination of the Impact of Toxic Inflows on the Performance of Activated Sludge by Wastewater Characterization", *J. Wat.Sci.Tech.*, 36, 2-3, 45-52.
- A5. Christoulas D.G., Yannakopoulos P. and **Andreadakis A.D.** (1997) "An empirical model for Primary Sedimentation of Sewage", *Environment International*, 24, 925-934.
- A6. Mamais D., **Andreadakis A.D.**, Noutsopoulos C. and Kalergis C. (1998) "Causes and Control Strategies of Microthrix parvicella Bukling and Foaming in Nutrient Removal Activated Sludge Systems", *Wat.Sci.Tech.*, 37, 4-5, 9-17.
- A7. Eikelboom D.H., **Andreadakis A.D.** and Andreasen K. (1998) "Survey of the Filamentous Population in Nutrient Removal Plants in Four European Countries" *Wat.Sci.Tech.*, 37, 4-5, 281-289.
- A8. Noutsopoulos C., Gavalaki E., **Andreadakis A.** (1999) "Evaluation of the Impact from the Discharge of Treated Sewage to the South East Saronicos Gulf through Mathematical Water Quality Modeling." *Water Science and Technology*, 39, 8, 63-70.
- A9. **Andreadakis, A.**, Mamais, D., Christoulas, D. and Kabylafka, S. (1999) "Ultraviolet disinfection of secondary and tertiary wastewater effluent in the Mediterranean region", *Water Science and Technology*, 40(4/5), 253-260.
- A10. Stamou A., Noutsopoulos C., Pipilis K., Gavalaki E. and **Andreadakis A.** (1999) "Hydrodynamic and Water Quality Modelling of Southern Evoikos Gulf.", *The International Journal of Global Nest* 1, 2, 131-141.
- A11. **Andreadakis A.** and Spinosa L. (2000) "Disposal and utilisation of sewage sludge: Treatment methods and application modalities – Editorial", *Water Sci Technology*, 42(9): VII-VII.
- A12. Akrivos J., Mamais D., Katsara K. and **Andreadakis A.D.** (2000) "Agricultural Utilization of Lime Treated Sewage Sludge", *Water Science and Technology*, 42(9), 203-210.
- A13. Christoulas D. G., **Andreadakis A.D.**, Kouzeli-Katsiri A., Aftias E. and Mamais D. (2000) "Alternative Schemes the Management of the Sludge Produced at Psyttalia WWTP", *Water Science and Technology*, 42(9), 29-36.
- A14. Mamais D., Kouzeli-Katsiri A., Christoulas D. G., **Andreadakis A.D.** and Aftias E. (2000) "Evaluation of Agricultural Utilisation of the Sludge Produced at Psyttalia WWTP", *Water Science and Technology*, 42(9), 21-28.



- A15. Hatziconstantinou G. J. and **Andreadakis A.** (2002) "Differences in nitrification potential between fully aerobic and nitrogen removal activated sludge systems", *Water Science and Technology*, 46(1-2), 297-304.
- A16. Noutsopoulos C., Mamais D. and **Andreadakis A.** (2002) "The effect of the reactor configuration and the operational mode on *M. parvicella* bulking and foaming in nutrient removal activated sludge systems". *Water Science and Technology*, 46(1/2), 61-64.
- A17. Hatziconstantinou G. J. and **Andreadakis A.** (2002) "Control of activated sludge BNR based on Monitoring of System nitrification potential", *Water Intelligence Online*.
- A18. **Andreadakis A.D.**, Mamais D., Gavalaki E., Kampylafka S. (2002) "Sludge Utilisation in Agriculture: Possibilities and Prospects in Greece", *Water Science and Technology*, 46(10), 231-238.
- A19. Tsouni A., Zervos N., Hadjibiros K., **Andreadakis A.** (2002) "An environmental database for the status of freshwater in Greece", *International Journal Global Nest*, 4(1), 1-14.
- A20. Hatziconstantinou G. J. and **Andreadakis A.** (2003). "Partial nitrification activated sludge operation as an appropriate nitrogen removal scheme for the Mediterranean region", *Water Science and Technology: Water Supply* (3:4), 153-160.
- A21. **Andreadakis A.**, Mamais D., Gavalaki E. and Panagiotopoulou V. (2004) "Evaluation of treatment schemes appropriate for wastewater reuse in Greece", *International Journal Global Nest*, 5, 1-8.
- A22. **Andreadakis A.**, Noutsopoulos C. and Gavalaki E. (2004) "Assessment of the water quality of Lake Plastira through mathematical modelling for alternative management scenarios", *International Journal Global Nest*, 5, 99-105.
- A23. Tzimas A., Gavalaki E., **Andreadakis A.** (2004) "Integrated Wastewater Management on a county basis", *International Journal Global Nest*, 5, 15-22.
- A24. **Andreadakis A.**, Gavalaki E., Mamais D. and Tzimas A. (2004) "Wastewater reuse criteria in Greece", *International Journal Global Nest*, 5, 9-14.
- A25. Romas E., Noutsopoulos C., **Andreadakis A.**, (2005) "Water quality modelling of the Olympic rowing and canoeing centre at Schinias", *J. of Marine Env. Eng.* 7, 279-287.
- A26. **Andreadakis A.** (2005) "The implementation of the Water Framework Directive (WFD) with emphasis on the pressures and impacts analysis" *IASME Transactions*, 4(2), 623-628.
- A27. Romas E., Noutsopoulos C. and **Andreadakis A.** (2005) "Assessment of the microbial pollution of the Olympic rowing and canoeing centre at Schinias through mathematical modelling", *International Journal of Global Nest*, 7, 172-179.
- A28. Hadjibiros K, Katsiri A, **Andreadakis A.D.**, Koutsoyiannis D, Stamou AI, Christofides A, Efstratiadis A. and Sargentis FG. (2005) "Multi-criteria reservoir water management", *International Journal of Global Nest*, 7, 386-394.
- A29. Manios T., Gaki E., Banou S., Ntigakis D. and **Andreadakis A.** (2006) "Qualitative Monitoring of treated Wastewater Reuse Extensive Distribution System: COD, TSS, E.C. and pH" *Water SA*, 32(1), 99-104.
- A30. Mamais D., Nikitopoulos G., Andronikou E., Gavalakis E., **Andreadakis A.**, Giotakis C. , and Tsimarakis G. (2006) "Influence of the presence of long chain fatty acids in the sewage on the growth of *M.parvicella* in activated sludge wastewater treatment plants", *International Journal of Global Nest*, 8, 88-94.



- A31. Gavalakis E., Marinos C., Mamais D. and **Andreadakis A.** (2006) “An experimental and mathematical simulation of biological processes taking place in a sewerage system”, *International Journal of Global Nest*, 8, 81-87.
- A32. **Andreadakis A.**, Mamais D., and Gavalakis E., (2006) “Evaluation of treatment schemes appropriate for wastewater reuse in Greece”, *Journal of Environmental Technology and Management*, 6(5), 423-433.
- A33. Noutsopoulos C., Mamais D. and **Andreadakis A.** (2006) “Effect of solids retention time on *Microthrix parvicella* growth”, *Water SA*, 32,( 3), 315-321.
- A34. **Andreadakis A.**, Gavalakis E., Tzimas A. and Kaliakatsos L. (2007) “The implementation of the Water Framework Directive (WFD) at the River Basin of Anthemountas with emphasis on the pressures and impacts analysis”, *Desalination*, 210, 1-15.
- A35. Noutsopoulos C., **Andreadakis A.**, Mamais D. and Gavalakis E. (2007) “Identification of type and causes of filamentous bulking under Mediterranean conditions”, *Environmental Technology*, 28, 115-122.
- A36. Mamais D., Noutsopoulos C., **Andreadakis A.**, J. Droubogianni, A. Georgakopoulos, J. Mariolos. (2007) “Optimization of nitrogen removal and start-up of Psyttalia Sewage Treatment Works”, *Environmental Technology*, 28, 129-136.
- A37. Stamou A., Hadjibiros K., **Andreadakis A.** and Katsiri A. (2007) “Establishing minimum water level for Plastiras Reservoir (Greece) combining water quality modelling with landscape aesthetics”, *Journal of Environmental Modelling and Assessment*, 12(3), 157-170.
- A38. Gaki E., Banou S., Ntikakis D., **Andreadakis A.**, Borboudaki K. and Manios T. (2007) “Qualitative monitoring of treated wastewater reuse extensive distribution system: Total Coliforms Number and Residual Chlorine concentration”, *Journal of Environmental Science and Health – Part A*, 42(5), 601-611.
- A39. **Andreadakis A. D.**, Mamais D., Gavalakis E.A., Noutsopoulos C., Kouris N. and Nikitopoulos G. (2007) “Removal of Taste and Odour from Potable Water by Ozone and Powdered Activated Carbon (PAC)”, *International Journal of Environment and Waste Management-IJEWMM* (in print).
- A40. Mamais D., Kalaitzi E. and **Andreadakis A.** (2007) “Foaming Control in Activated Sludge Treatment Plants by Polyaluminium Chloride Addition”. *International Journal of Global Nest*, (accepted for publication).
- A\*. Recent Publications in the Scientific Journal “Technika Chronika”**
- A41. Christoulas D.G., **Andreadakis A.D.** and Kalergis K.M. (1998) “Prediction and Prevention of Microbial Pollution of Coastal Bathing Waters.”, *Tech.Chron.Sci. J.,TCG*, I(3), 55-66 (in Greek).

## **B. Recent Publications in International and National Conference Proceedings**

- B1. **Andreadakis A.D.** (1996) “Filamentous bulking in nutrient removal plants” in Protection and restoration of the environment III. *Proceedings of International Conference organized by the Technical University of Crete*. Chania, Crete, August, 182-188.
- B2. Hatzikonstantinou G., **Andreadakis A.D.** (1996) “Uptake and Storage of Soluble Carbon under Transient Conditions in Pre-Denitrification Activated Sludge Reactors”, *Proceedings of 1st IAWQ Specialized Conference on Sequencing Batch Reactor Technology*, 123-131. Munich, Germany, March.



- B3. Noutsopoulos C., Gavalaki E., **Andreadakis A.**, Pipilis K., Stamou A. (1998) "Water Quality Modeling of Southern Evoikos Gulf." *IV International Conference on Protection and Restoration of the Environment*, 1, 331, Halkidiki, Macedonia.
- B4. Stamou A., Pipilis K., Gavalaki E., Noutsopoulos C. and **Andreadakis A.** (1998) "Hydrodynamic Modeling of Southern Evoikos Gulf", *IV International Conference on Protection and Restoration of the Environment*, 1, 323, Halkidiki, Macedonia.
- B5. Nanou – Giannarou E., **Andreadakis A.** and Lazarou A. (1998) "Agricultural Pollution on Water Systems in Greece – Country Paper of Greece", *Fifth Scientific and Technical Review*, EurAqua, October 7-8, Oslo
- B6. Gavalaki E. and **Andreadakis A.** (1999) "Removal of Asbestos Fibers and Pesticides during Water Treatment", *6th Conference on Environmental Science and Technology*, Samos, Greece.
- B7. **Andreadakis A.D.** (2000) "Treatment and Disinfection of sludge using quick lime", *Proceedings of the European Commission Workshop on Problems around Sludge*, 31-37.
- B8. Noutsopoulos C., Mamais D. and **Andreadakis A.** (2001) "The Effect of Environmental and Operational Parameters on Microthrix Parvicella growth in Biological Nutrient Removal Activated Sludge Plants", *Proceedings of the 7th International Conference on Environmental Science and Technology*, Ermoupolis, Syros, Greece – Sept.
- B9. Gavalaki E. and **Andreadakis A.** (2003) "Fate of the sewage organic load in a sewerage system", *e-Proceedings of the 8th International Conference on Environmental Science and Technology*, Lemnos, Greece – Sept.
- B10. Romas E., Noutsopoulos C., **Andreadakis A.**, Christodoulou G., Papakonstantis, I. Stamou A. (2004) "Water quality modelling of the Olympic rowing and canoeing centre at Schinias", *Proceedings of the International Conference for the Protection and Restoration of the Environment VII* (Mykonos, Greece).
- B11. Christodoulou G., Papakonstantis I., Stamou A., **Andreadakis A.**, Noutsopoulos C. and Romas E. (2004) "Hydrodynamic characteristics of the new rowing course for the Athens 2004 Olympic Games". *Proceedings of the International Conference for the Protection and Restoration of the Environment VII* (Mykonos, Greece).
- B12. Gavalakis E.A. and **Andreadakis A.** (2004) "Mathematical Model for steady-state and dynamic operation of a Rotating Biological Contactor (RBC)", *Proceedings of the International Conference for the Protection and Restoration of the Environment VII* (Mykonos, Greece).
- B13. Christodoulou G., Papakonstantis I., Stamou A., **Andreadakis A.**, Noutsopoulos C. and Romas E. (2004) "Hydrodynamic characteristics of the new rowing course for the Athens 2004 Olympic Games", *Proceedings of the 4th International Symposium on Environmental Hydraulics* (Hong Kong, Dec.).
- B14. **Andreadakis A.**, Gavalakis E., Tzimas A. and Kaliakatsos L. (2005) "The implementation of the Water Framework Directive (WFD) at the River Basin of Anthemountas with emphasis on the pressures and impacts analysis", *Proceedings of the 9th International Conference on Environmental Science and Technology*, Rhodes, Greece – Sept.
- B15. Gavalakis E., Marinos C., Mamais D. and **Andreadakis A.** (2005) "An experimental and mathematical simulation of biological processes taking place in sewerage systems", *Proceedings of the 9th International Conference on Environmental Science and Technology*, Rhodes, Greece – Sept.
- B16. Mamais D., Nikitopoulos G., Andronikou E., Gavalakis E., **Andreadakis A.**, Giotakis C. and Tsimarakis G. (2005) "Influence of the presence of long chain fatty acids in the sewage on the



- growth of *M. Parvicella* in activated sludge wastewater treatment plants”, *Proceedings of the 9th International Conference on Environmental Science and Technology*, Rhodes, Greece – Sept.
- B17. Noutsopoulos C., Brionis A. and **Andreadakis A.** (2005) “Mathematical modelling of sequencing batch reactors”, *Proceedings of the 9th International Conference on Environmental Science and Technology*, Rhodes, Greece – Sept.
- B18. Romas E., Noutsopoulos C. and **Andreadakis A.** (2005) “Assessment of the microbial pollution of the Olympic rowing and canoeing centre at Schinias through mathematical modelling”, *Proceedings of the 9th International Conference on Environmental Science and Technology*, Rhodes, Greece – Sept.
- B19. Malamis S., **Andreadakis A.** and Mamais D. (2005) “The potential of membrane bioreactors for wastewater treatment”, *1<sup>st</sup> International Conference on Sustainable Urban Wastewater Treatment and Reuse*, Nicosia, Cyprus.
- B20. Mamais D., Noutsopoulos C., **Andreadakis A.**, Droubogianni J., Georgakopoulos A., Mariolos J. (2005) “Optimization of nitrogen removal and start-up of Psytalia Sewage Treatment Works”, *Proceedings of IWA Specialized Conference on Nutrient Management in Wastewater Treatment Processes and Recycle Streams*, Krakow, Poland.
- B21. Gavalakis E., Marinos C., Mamais D. and **Andreadakis A.** (2006) “An experimental and mathematical simulation of biological processes taking place in sewerage systems”, *Long platform presentation at the Biennial IWA Conference*, Beijing, September.
- B22. **Andreadakis A.**, Tzimas A., Anagnostou I., Aghelopoulos M., Gavalakis E., Papavassilopoulos E. and Noutsopoulos C. (2006) “Liming of industrial sludge for subsequent reuse”, *Proceedings of the International Conference for the Protection and Restoration of the Environment VIII* (Chania, Greece).
- B23. **Andreadakis A.**, Kaliakatsos L., Anagnostou I. and Tzimas A. (2006) “Development of a tool for estimating quantitative and qualitative characteristics of sludges originating from industrial estates”, *Proceedings of the International Conference for the Protection and Restoration of the Environment VIII* (Chania, Greece).
- B24. Tzimas A., **Andreadakis A.**, Peskosta M., Aghelopoulos M., Kalogerakis N. and Karatzas G. (2006) “Economic evaluation of alternative tertiary treatment schemes producing effluents suitable for reuse”, *Proceedings of the International Conference for the Protection and Restoration of the Environment VIII* (Chania, Greece).

### C. Recent Keynote and Plenary Lectures in International Conferences

- C1. **Andreadakis** (2005) “The implementation of the Water Framework Directive (WFD) at the River Basin of Anthemountas with emphasis on the pressures and impacts analysis”, *9th International Conference on Environmental Science and Technology*, Rhodes, Greece – Sept.

### F. Recent Chapters in Edited Books published by International Publishing Companies

- F1. **Andreadakis A.D.**, Razis Y., Hadjibiros K. and Christoulas D.G. (2000) “*Municipal solid waste management in Greece*” in *Municipal Waste Management in Europe*, 171-202, Kluger Academic Publishers.
- F2. Andreasen K., **Andreadakis A.** and Eikelboom D. (2006) “*Activated sludge separation problems: Experiences in Denmark, Greece and Netherlands*” in *Activated Sludge Separation Problems STR 16*, 105-118, IWA Publishers.



**G. Editor in International Journals (and Special Issues) - Books - Conference Proceedings**

- G1. **Andreadakis A.** (1996) *Pretreatment of Industrial Wastewaters*, Proceedings of International Conference, organised by IWA.
- G2. **Andreadakis A.** and Spinosa L. (2000) *Disposal and utilisation of sewage sludge: Treatment methods and application modalities*, IWA Publishers.

**H. Recently Supervised PhD Theses**

- H1. Hatziconstantinou G.(2000), “Nitrification - denitrification in activated sludge systems”, supervised by **Andreadakis A.**
- H2. Noutsopoulos C (2002) “Impact of alternative treatment schemes on the settling characteristics of nutrient removal activated sludge systems”, supervised by **Andreadakis A.**