

SHORT CURRICULUM VITAE



Name: Eftymios Darakas (Ευθύμιος Νταρακάς)
Profession: Chemist / Chemical & Environmental Technologist
Title: Dr
Affiliation: Professor of Chemical & Environmental Technology
Current position: Director of the "Laboratory of Environmental Engineering & Planning" (LEEP), Department of Civil Engineering, Aristotle University of Thessaloniki
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Date of birth: 17th April 1956
Place of birth: Thessaloniki / GREECE
Nationality: Greek
Foreign languages: Swedish, English
Family Status: Married, 1 child

Education: 1977 – 1981, University of Stockholm, Sweden (B.Sc. in Chemistry)
1981 – 1982, University of Stockholm, Sweden (M.Sc. in Org. Chemistry). Thesis: "*Synthesis of 2-Acetamido-2-deoxy- α - β -D galacturonic acid*"
1995 – 1999, Aristotle University of Thessaloniki, Dept. of Civil Engineering (Ph.D. in Civil Engineering). Thesis: "*Temperature and food influence on the kinetics of enteric bacteria survival in natural waters*"

Qualification – Academic titles: 2017-today: Elected Professor of Chemical & Environmental Engineering, Department Dept. of Civil Eng., Aristotle University of Thessaloniki, Greece.
2013 – 2017: Associate Professor, Dept. of Civil Eng., Aristotle University of Thessaloniki, Greece
2008 – 2013: Assistant Professor, Dept. of Civil Eng., Aristotle University of Thessaloniki, Greece
2003 – 2008: Lecturer, Dept. of Civil Eng., Aristotle University of Thessaloniki, Greece
1984 – 2003: Research and Educational Assistant in the Laboratory of Environmental Engineering & Planning, Dept. of Civil Eng., Aristotle University of Thessaloniki, Greece

Teaching at the Dept. of Civil Engineering: Fundamentals of Environmental Chemistry
Applied Methods for Water and Wastewater Quality Assessment
Environmental Engineering (Water and Wastewater Treatment Processes)
Municipal Solid Waste Management (Characterization and Treatment)

Technical skills / Scientific interests: Experience in instrumental chemical analysis
Environmental Pollution Control
Water and Wastewater (Quality and Treatment)
Water disinfection - Fecal Indicator Bacteria Kinetics
Solid Waste Management



Professor Eftymios Darakas is specializing on environment issues at the Department of Civil Engineering of the Aristotle University of Thessaloniki. He has a great experience on the field of water and wastewater treatment technologies, wastewater management, reclamation and reuse. Fecal indicator bacteria kinetics and environmental friendly water disinfection methods are of his greatest scientific interests. His educational duties and research interests are related with the

applications of chemical and environmental technologies and with environmental management. He teaches graduate and postgraduate courses on water, wastewater and municipal solid waste management and treatment. He has supervised many undergraduate and postgraduate theses and dissertations. Furthermore, he has participated in more than thirty national and European research projects, dealing with environmental management, water or wastewater treatment, municipal solid waste management and biotechnological applications. He is author and co-author of about eighty articles in refereed journals and international conference proceedings, one book and about thirty research reports.

Selected publications

- M. Petala, V. Tsiridis, I. Androulidakis, Ch. Makris, V. Baltikas, A. Stefanidou, S. Genitsaris, Ch. Antoniadou, D. Rammou, M. Moustaka-Gouni, C.C. Chintiroglou and E. Darakas, (2018), "Monitoring the marine environment of Thermaikos gulf", 14th International Conference - Protection and Restoration of the Environment, July 3-6, 2018, Thessaloniki, Greece
- I. Mintsouli, V. Tsiridis, M. Petala, N. Pliatsikas, P. Rebeyre, E. Darakas, M. Kostoglou, S. Sotiropoulos, Th. Karapantsios (2018), "Behavior of Ti-6Al-4 V surfaces after exposure to water disinfected with ionic silver", Applied Surface Science, Volume 427 Part A, Pages 763 – 770
- M. Petala, V. Tsiridis, I. Mintsouli, N. Pliatsikas, Th. Spanos, P. Rebeyre, E. Darakas, P. Patsalas, G. Vourlias, M. Kostoglou, S. Sotiropoulos, Th. Karapantsios (2017), "Silver deposition on stainless steel container surfaces in contact with disinfectant silver aqueous solutions", Applied Surface Science, Volume 396, Pages 1067 – 1075
- Giannakis S., Darakas E., Escalas-Cañellas A., Pulgarin C. (2015), "Environmental considerations on solar disinfection of wastewater and the subsequent bacterial (re)growth", Photochemical and Photobiological Sciences, Volume 14, (3), Pages 618 – 625
- S. Giannakis, E. Darakas, A. Escalas-Cañellas, C. Pulgarin (2015), "Solar disinfection modeling and post-irradiation response of *Escherichia coli* in wastewater", Chemical Engineering Journal, Volume 281, Pages 588 – 598
- S. Giannakis, E. Darakas, A. Escalas-Cañellas, C. Pulgarin (2015), "Temperature-dependent change of light dose effects on *E. coli* inactivation during simulated solar treatment of secondary effluent", Chemical Engineering Science, Volume 126, Pages 483 – 487
- S. Giannakis, E. Darakas, A. Escalas-Cañellas, C. Pulgarin (2014), "Elucidating bacterial regrowth: Effect of disinfection conditions in dark storage of solar treated secondary effluent", Journal of Photochemistry and Photobiology A: Chemistry, Volume 290, Pages 43 – 53
- S. Giannakis, A. I. Merino Gamo, E. Darakas, A. Escalas-Cañellas, C. Pulgarin (2014), "Monitoring the post-irradiation *E. coli* survival patterns in environmental water matrices: implications in handling solar disinfected wastewater", Chemical Engineering Journal, Chemical Engineering Journal, Volume 253, Pages 366 – 376
- N. Suchkova, I. Tsiripidis, D. Alifragkis, J. Ganoulis, E. Darakas, Th. Sawidis (2014), "Assessment of phytoremediation potential of native plants during the reclamation of an area affected by sewage sludge", Ecological Engineering, Volume 69, Pages 160 – 169
- S. Giannakis, E. Darakas, A. Escalas-Cañellas, C. Pulgarin (2014), "The antagonistic and synergistic effects of temperature during solar disinfection of synthetic secondary effluent", Journal of Photochemistry and Photobiology A: Volume 280, Pages 14 – 26
- E. Darakas, V. Tsiridis, M. Petala and A. Kungolos (2013), "Hexavalent chromium release from lignite fly ash and related ecotoxic effects", Journal of Environmental Science and Health, Part A, Volume 48, Issue 11, Pages 1390 – 1398
- Antoniadis, V. Takavakoglou, G. Zalidis, E. Darakas, I. Poulis (2010), "Municipal wastewater treatment by sequential combination of photocatalytic oxidation with constructed wetlands", Catalysis Today, Volume 151, Issues 1-2, Pages 114 – 118
- N. Suchkova, E. Darakas, J. Ganoulis (2010), "Phytoremediation as a prospective method for rehabilitation of areas contaminated by long-term sewage sludge storage: A Ukrainian - Greek case", Ecological Engineering, Vol. 36, Issue 4, Pages 373 – 378
- E. Darakas, T. Koumoulidou, D. Lazaridou (2009), "Fecal indicator bacteria declines via a dilution of wastewater in seawater", Desalination 248, Issues 1-3, Pages 1008 – 1015
- E. Darakas, H. Hadjianghelou (2009), "An engineering approach of the sewage-borne bacteria kinetics under laboratory conditions", 2nd Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and the International Society of Eco-toxicology and Environmental Safety (SECOTOX), Mykonos, June 21-26, 2009
- E. Papachristou, H. Hadjianghelou, E. Darakas, K. Alivanis, A. Belou, D. Ioannidou, E. Paraskevopoulou, K. Poulis, K. Sortikos (2009), "Perspectives for an integrated municipal solid waste management in Thessaloniki, Greece", "Waste Management", Vol.29, Issue 3, Pages 1158 – 1162
- M. Kositzi, I. Poulis, K. Samara, E. Tsatsaroni, E. Darakas (2007), "Photocatalytic oxidation of Cibacron Yellow LS-R", Journal of Hazardous Materials – Vol. 146, Pages 680 – 685
- E. Darakas (2002), "*E. coli* kinetics – Effect of temperature on the maintenance and respectively the decay phase", Environmental Monitoring and Assessment, Vol. 78, Issue 2, Pages 101 – 110
- E. Darakas (2001), "A simple mathematical formula describing the survival kinetic of *E. coli* in natural waters", Int. J. Env. Studies (Section A), Vol. 58/3, Pages 365 – 372
- Efthymios Darakas und Angelos Hadjianghelou (1997), "Mathematische Erfassung der Absterbekinetik der Escherichia Coli in Gewässern", gwf. Wasser-Abwasser, 138, Nr. 2, Pages 86 – 89
- E. Papachristou, and E. Darakas (1988), "Seasonal Variation of Nutrients, Dissolved Oxygen, pH, Temperature, Transparency and Salinity in Thermaikos bay (1984-1987)", Rapp. Comm. int. Mer Medit. Vol. 31, Fascicule 2, 1988, C-III8, page 46 – XXXI Congrès ICSEM, Commission Internationale pour l'exploration Scientifique de la mer Méditerranée, Athènes, Oct. 17 – 22, 1988
- E. Darakas, H. Hultberg, K. Leontein and J. Lönngren (1982), "Synthesis of 2-acetamido-2-deoxy-hexuronic acids with the D-gluco, D-manno, D-galacto configurations", Carbohydrate Research, Vol. 103, Pages 176 – 180

