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**Γνωστικό Αντικείμενο: ΤΕΧΝΟΛΟΓΙΑ ΕΛΕΓΧΟΥ ΚΑΙ ΠΡΟΣΤΑΣΙΑΣ ΠΕΡΙΒΑΛΛΟΝΤΟΣ**

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### **1. Σπουδές**

- α. Πτυχίο Χημείας του Τμήματος Χημείας του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης, 1979.
- β. Δίπλωμα του "Centre International De Hautes Etudes Agronomiques Mediterraneenes" στην «Ενεργειακή Αξιοποίηση των Γεωργικών Αποβλήτων», Σαραγόσα Ισπανίας (Υποτροφία του Συμβουλίου της ΕΟΚ), 1983.
- γ. Διδακτορικό Δίπλωμα του Τμήματος Χημείας της Σχολής Θετικών Επιστημών, Πανεπιστήμιο Ιωαννίνων, 1987.
- δ. Μεταδιδακτορική ερευνητική εμπειρία:
  - Τμήμα Βιοχημείας, Κέντρου Επιστημών της Υγείας του Πολιτειακού Παν/μίου του Texas στο San Antonio, TX, USA, Μάρτιος – Σεπτέμβριος 1989 (Prof. D. Hanahan).
  - Τμήμα Φυσικών Επιστημών του Πολιτειακού Παν/μίου του Texas στο San Antonio, TX, USA, Σεπτέμβριος 1989-Ιούνιος 1990 (Prof. B. Thyagarajan).
  - Πανεπιστήμιο του Kuorio, Φινλανδία, "Course on Biomonitoring Methods", Υποτροφία: European Science Foundation (ESF), Research Fellowship in Toxicology, Αύγουστος-Σεπτέμβριος 1994 (Prof. O. Hanninen).

### **2. Τομείς Ειδίκευσης**

- Ανάπτυξη και εφαρμογές αναλυτικών μεθοδολογιών προσδιορισμού οργανικών τοξικών και επιβλαβών ενώσεων στο περιβάλλον και τα τρόφιμα (νερό, έδαφος, ζωικά και φυτικά προϊόντα), με τη χρήση αέριας και υγρής χρωματογραφίας σε συνδυασμό με φασματοσκοπία μάζας.
- Έλεγχος υπολειμμάτων οργανικών μικρορρυπαντών και εκτίμηση επιπτώσεων στο περιβάλλον και την τροφική αλυσίδα (νερό, έδαφος, ζωικά και φυτικά προϊόντα).
- Φυσικοχημική συμπεριφορά οργανικών μικρορρυπαντών στο περιβάλλον.
- Προσρόφηση, φωτόλυση και φωτοκαταλυτική διάσπαση οργανικών τοξικών ενώσεων (φυτοφάρμακα, φάρμακα και άλλοι οργανικοί μικρορρυπαντές).
- Φυσικές και χημικές διεργασίες καθαρισμού και εξυγίανσης υγρών αποβλήτων και νερού.

### **3. Χρηματοδοτούμενα ερευνητικά έργα (62 έργα από το 1987, συνολικού προϋπολογισμού ~6.500.000 Ευρώ)**

*Πρόσφατα Ερευνητικά Έργα τελευταίας 5ετίας*

1. "ΘΑΛΗΣ", Υπουργείο Παιδείας και Θρησκευμάτων «Development of Advanced Oxidation Processes (AOPs) with the use of nanomaterials and sunlight, for the removal of various

**organic toxic micropollutants, endocrine disrupters and cyanotoxins from natural waters and sewages», 2012-2015, υπεύθυνος Τ. Α. Αλμπάνης.**

2. **Greece -Albania IPA Cross-Border Programme «Wireless Water Quality Monitoring of Arachthos and Vjosë Rivers», 2012-2014.**
3. **“Νέα Γνώση”, Περιφέρεια Ηπείρου «Ανάπτυξη και εφαρμογή ολοκληρωμένης μεθοδολογίας ελέγχου για τον προσδιορισμό ρυπαντών προτεραιότητας στα υδατικά οικοσυστήματα του Αμβρακικού κόλπου», 2012-2015, υπεύθυνος Τ. Α. Αλμπάνης.**
4. **“Νέα Γνώση”, Περιφέρεια Ηπείρου «Μελέτη των συγκεντρώσεων ορμονικών διαταρακτών στα τρόφιμα από τις αγορές και σύγκριση με τα τοπικά προϊόντα της Ηπείρου», 2012-2015.**
5. **“ΑΡΧΙΜΗΔΗΣ”, Υπουργείο Παιδείας και Θρησκευμάτων «Ανάπτυξη και εφαρμογή αναλυτικών μεθοδολογιών οργανικών μικρορρυπαντών στους ποταμούς Άραχθο, Λούρο και Αμβρακικό Κόλπο», 2012-2015.**
6. **European Commission, SEA-on-a-CHIP 614168, “Real time monitoring of SEA contaminants by an autonomous lab-on-a-chip biosensor”, 2014-2017, υπεύθυνος Τ. Α. Αλμπάνης.**

#### **4. Βιβλία- συγγράμματα**

1. Τριαντάφυλλος Α.Δ. Αλμπάνης (1991-2014), «Ρύπανση και Τεχνολογία Προστασίας Περιβάλλοντος», Εκδόσεις Πανεπιστημίου Ιωαννίνων, 1991 και 1996 - Εκδόσεις Τζιόλα 2009 και 2014.
2. Τριαντάφυλλος Α.Δ. Αλμπάνης (1997), « Φυτοφάρμακα: Χρήση, Επιπτώσεις και Νομοθεσία», Εκδόσεις Θεοδωρίδη, I.S.B.N. 960-7926-00-5.
3. T. Albanis and S. Galassi (1995), “Assessment of the State of Pollution of the Mediterranean Sea by Herbicides and proposed Measures”, Mediterranean Action Plan MED POL Technical Report, United Nations Environment Program, Athens, 1995.
4. T. Albanis (1998), “Assessment of the Pesticide Pollution and Mass Transportation in the Mediterranean Area”, Mediterranean Action Plan MED POL Technical Report, United Nations Environment Program, Athens, 1997.

#### **5. Σύνολο Επιστημονικών δημοσιεύσεων, 228 (3-3-2018)**

**Number of citations: >10,500 (Scopus 3-3-2018)**

**H factor = 54 (Scopus 3-3-2018)**

1. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1986), "Seasonal fluctuations of organochlorine and triazine pesticides in the aquatic systems of Ioannina basin (Greece)". *The Sci. of Total Environ.*, **58**, 243-253.
2. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1986), "Organophosphorus and carbamates pesticide residues in aquatic systems of Ioannina basin and Kalamas river (Greece)", *Chemosphere*, **15** (8), 1023-1034.
3. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1988), "Movement of methyl parathion, lindane and atrazine through lysimeters in field conditions". *Toxicol. and Environm. Chem.*, **17** (1), 35-45.
4. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1988), "The influence of fly ash in aqueous soil suspensions on hydrolysis, degradation and adsorption of methyl parathion", *Toxicol. and Environm. Chem.* **17** (4), 351-362.
5. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1988), "Describing movement of three pesticides in soil using a SCTR in series model", *Water Air and Soil Pollution*, **39**, 293-302.

6. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1989), "The influence of fly ash on pesticide fate in the environment: I. Hydrolysis, degradation and adsorption of lindane in aqueous mixtures soil with fly ash", *Toxicological and Environmental Chemistry*, 19, 161-169.
7. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1989), "The influence of fly ash on pesticide fate in the environment : II. Hydrolysis, degradation and adsorption of atrazine in aqueous mixtures soil with fly ash", *Toxicological and Environmental Chemistry*, 19, 171-178.
8. Albanis, T.A. and Pomonis, P.J. (1990), "On the possibility to predict the movement of pesticides in the soils", *Environment Protection Engineering*, 16 (3-4), 113-119.
9. Albanis T.A., (1991), "Organic micropollutants in the aquatic environment", *Proc. 6th European Symposium, Lisbon, 1990, Pages 89-99.*
10. Albanis, T.A., Pomonis, P.J. and Sdoukos, A.T. (1991), "Model of pesticide movement in soil", Chapter 11 in the Book "Modelling in Environmental Chemistry", ed. S.E. Jorgensen, Elsevier, Amsterdam, London, New York, Tokyo, pp. 381-412.
11. Albanis T.A. (1991), "Runoff Losses of Herbicides EPTC, Molinate, Simazin, Diuron, Propanil and Metolachlor Thermaikos Gulf, N.Greece", *Chemosphere*, 22, 645-653
12. Albanis T.A., Pomonis P.J. and Tziaila, C. (1991), "The Influence of Fly Ash on Atrazine and Alachlor persistence in Corn Cultivation Soils", *Toxicol. Environ. Chem.*, 33, 181-188
13. Albanis T.A. (1992), "Herbicide Losses in Runoff from the Agricultural Area of Thessaloniki in Thermaikos Gulf", *The Science of the Total Environment*, 114, 59-71.
14. Albanis, T.A., Tziaila, C. and Pomonis P.J. (1992), "The influence of fly ash on 2,4-dichlorophenoxy-acetic acid persistence in corn cultivation and soil", *The Science of the Total Environment*, 123/124, 481-489.
15. Albanis T.A. and Pomonis P.J. (1993), "Simulation of Pesticides Movement in Succesive Soil Layers by using a CSTR Cascade Model", *Toxicol. Environ. Chemistry*, 38 (1-2), 109-117
16. Readman J.W., Albanis T.A., Barcelo D., Galassi S., Tronczynski J. and Gabrielides G.P. (1993), "Herbicide Contamination of Mediterranean Estuarine Waters: Results from a MED POL pilot survey", *Marine Pollution Bulletin*, 26, 613-619.
17. Albanis T.A. (1993), "Η τύχη των φαινολικών ενώσεων στο περιβάλλον Προέλευση, πηγές ρύπανσης, επιπτώσεις και ανάλυση υπολειμμάτων», *Χημικά Χρονικά*, 55, 22-25
18. Albanis T.A., T.G. Danis and M. Kourgia (1994), "Transortation of pesticides in estuaries of Axios, Loudias and Aliakmon rivers (Thermaikos gulf), Greece", *The Science of the Total Environment*, 156, 11-22
19. Albanis T.A., C.Tziaila and P.J. Pomonis (1994), "Kinetics of disappearance of metolachlor, atrazine and cyanazine residues in corn cultivation soil under the influence of fly ash", *Toxicol. Environ. Chem.*, 46, 49-60.
20. Albanis T.A. and G Manos (1995), "Loss of pendimethalin in surface runoff from plots untilled and tilled with tobacco", *Intern. J. Environ. Anal. Chem.*, 58, 265-273.
21. Albanis T.A., T.G. Danis and D. G. Hela (1995), "Transportation of pesticides in estuaries of Louros and Arachthos rivers", *The Science of the Total Environment*, 171, 85-93.
22. Albanis T.A. and D. G. Hela (1995), "Multiresidue analysis of pesticides in various environmental water simulated samples using solid phase extraction disks followed by gas chromatography techniques with FTD and MSD", *Journal of Chromatography A*, 707, 283-292.
23. Albanis T.A., D.G. Hela and D. Hatzilakos (1995), Organochlorine residues in eggs of pelecanus crispus and its prey in wetlands of Amvrakikos Gulf, N.W.Greece, *Chemosphere*, 31, 4341-4349.
24. Albanis T.A., T.G. Danis, D. Voutsas and T. Kouimtzis (1995), Evaluation of chemical parameters in Aliakmon river Northern Greece. Part III. Pesticides, *J. Environ. Sci. and Health*, A30, 1945-1956.

25. Danis T.G. and T. A. Albanis (1996), "Analysis of phenolic residues in soil as free and acetylated derivatives by capillary gas chromatography equipped with FID, ECD and MSD", *Toxicol. Environ. Chem.*, 53, 9-18
26. Albanis T.A., D. Hela, G. Papakostas and V. Goutner (1996), "Concentration and bioaccumulation of organochlorine pesticide residues in heron and their prey in wetlands of Thermaikos Gulf, Macedonia, Greece", *Sci. Total Environ*, 182, 11-19.
27. Angelides M.O. and T.A. Albanis (1996), "Pesticide residues and heavy metals in the Evros river delta, N.E. Greece", *Toxicol. Environ. Chem.*, 53, 33-44.
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29. Mallatou E, Ch. Pappas, E. Kondyli and T.A. Albanis (1997), "Pesticide residues in milk and cheeses from Greece", *Sci. Total Environ*, 196, 111-117.
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31. Goutner V., I. Charalabidou and T.A. Albanis (1997), "Organochlorine insecticide residues in eggs of the Little Tern (*Sterna albirifons*) in the Axios Delta, Greece", *Bull. Environ. Contam. Toxicol.* 58, 61-66.
32. Danis T.G. and T.A. Albanis (1997), "Sorption and removal of chlorophenols from aqueous solutions by mixtures of soil organic matter", *Toxicol. Environ. Chem.*, 62, 65-76.
33. Hela, D., T. Sakellarides, I. Konstantinou and T. Albanis (1997), "Influence of salinity and dissolved humic acids on pesticides extraction from water using solid-phase extraction disks", *Int. J. Environ. Anal. Chem.*, 68, 69-82.
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37. Albanis, T. and D.G. Hela (1998), "Pesticide concentration in Louros river and their fluxes into marine environment", *Int. J. Environ. Anal. Chem*, 70, 105-120.
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41. Albanis T.A., D.G. Hela, T.M. Sakellarides, I.K. Konstantinou (1998), "Monitoring of pesticide residues and their metabolites in surface and underground waters of Imathia (N. Greece) by

- means of solid-phase extraction disks and gas chromatography", *Journal of Chromatography A*, 823, 59-71.
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  45. Sakellarides T.M., D.E. Petrakis, P.J. Pomonis and T.A. Albanis (1999), "Removal of organophosphorous insecticides from aqueous solution by adsorption on microporous pillared clays and mesoporous alumina aluminium phosphates", *Environmental Technology*, 20, 1033-1044.
  46. Albanis, T. A. and T. G. Sakellarides (1999). "Removal of organophosphorus insecticides from aqueous solution by adsorption on pillared clays and mesoporous materials." *Abstracts of Papers of the American Chemical Society* 217: U72-U72.
  47. Albanis, T. A. and I. K. Konstantinou (1999). "Photodegradation of selected herbicides in various natural waters and soil-sorbed phase under environmental conditions." *Abstracts of Papers of the American Chemical Society* 217: U82-U82.
  48. Manoli E., C. Samara, I. Konstantinou and T. Albanis (2000), Polycyclic Aromatic Hydrocarbons in the bulk precipitation and surface waters of Northern Greece. *Chemosphere*, 41, 1845-1855.
  49. Hela D.G., I.K. Konstantinou, T.M. Sakellarides, D. Lambropoulou and T.A. Albanis (2000), «Application of solid-phase extraction disks followed by gas chromatography with mass spectrometry and flame thermionic detector to the determination of pesticide residues in environmental waters» *Fresenius Environmental Bulletin*, 9/10, 535-543.
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  56. I.K. Konstantinou, V. Goutner and T. Albanis (2000), "The incidence of polychlorinated biphenyls and organochlorine pesticide residues in eggs of the cormorant (*Phalacrocorax carbo*):

- evaluation of the situation in four Greek wetlands of international importance", *Sci. Total Environ.* 257, 61-79
57. Lambropoulou D.A., I.K. Konstantinou and T.A. Albanis (2000), Determination of fungicides in natural waters using solid phase microextraction and gas chromatography coupled with electron-capture and mass spectrometric detection, *J. Chromatography A*, 893, 143-156.
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## 6. Επιστημονικές ενώσεις και διοικητικές θέσεις

1. Μέλος της Ένωσης Ελλήνων Χημικών, 1979
2. Μέλος της «American Chemical Society» από το 1989 και του «Division of Agrichemicals» από το 1990
3. Μέλος της «International Association of Water Pollution Research and Control», 1992
4. Μέλος της «International Association of Analytical and Environmental Chemistry», 1993
5. Πρόεδρος «European-Mediterranean Association of Environmental Education Assessment and Protection», 2002-
6. Πρόεδρος του Τμήματος Χημείας, 2004-2008
7. Διευθυντής του ΠΜΣ «Αγροχημεία και Βιολογικές καλλιέργειες», Πανεπιστήμιο Ιωαννίνων
8. Πρύτανης του Πανεπιστημίου Ιωαννίνων, 2010-2014
9. Πρόεδρος της BUA (Balkan Universities Association), 2014-15
10. Αναπληρωτής Πρύτανη του Πανεπιστημίου Ιωαννίνων, 2014-18
11. Πρόεδρος της Επιτροπής Ερευνών (ΕΛΚΕ) του Πανεπιστημίου Ιωαννίνων, 2014-18
12. Πρόεδρος του Περιφερειακού Συμβουλίου Έρευνας και Καινοτομίας Ηπείρου, 2015-