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1. Research fields

- a. Environmental Chemistry of pesticides and related organic micropollutants.
- b. Transportation of pesticides in environmental ecosystems.
- c. Development of analytical methods for pesticide and related organic micropollutants determination in environmental compartments.
- d. Adsorption and photodegradation of pesticides under laboratory and field conditions.
- e. Green techniques for organic micropollutants removal from wastewater, surface and ground waters.

2. Recent Publications

1. Lambropoulou, D.A., V. A. Sakkas and T. A. Albanis, (2002) "Headspace solid phase microextraction (SPME) for the analysis of antifouling agents Irgarol 1051 and Sea Nine 211 in natural waters", *Analytica Chimica Acta* 468, 171-180
2. Lambropoulou, D.A., D.L. Giokas, V.A. Sakkas, T.A. Albanis and M.I. Karayannis (2002) "Gas chromatography determination of benzophenone-3 and Octyl dimethyl PABA sunscreen agents in swimming pool and bathing waters by solid phase microextraction", *J. Chromatography A*. 967, 243-253.
3. Lambropoulou D.A., V.A. Sakkas and T.A. Albanis, (2002) "Validation of an SPME method using PDMS, PA, PDMS-DVB and CW-DVB SPME fiber coatings, for analysis of organophosphorus insecticides in natural waters" *Anal. and Bioanal. Chem.*, 374, 932-941.
4. Konstantinou I.K., D.G. Hela, D.A. Lambropoulou, V.A. Sakkas and T.A. Albanis, (2002) "Comparison of the performance of analytical methods based on solid phase and solid phase microextraction techniques for the determination of antifouling booster biocides in natural waters", *Chromatographia*, 56, 745-751.
5. Sakellarides T.M., M. Siskos and T. A. Albanis, (2003) "Photodegradation of selected organophosphorus insecticides under sunlight in different natural waters and soils", *Intern. J. Environ. Anal. Chem.* 83, 33-50
6. Konstantinou I.K. and Albanis T.A. (2003) "Photocatalytic transformation of pesticides in aqueous titanium dioxide suspensions using artificial and solar light: intermediates and degradation pathways. (a Review)" *Applied Catalysis B: Environmental*, 42, 319-335.

7. Dimou A.D., V.A. Sakkas and T.A. Albanis, (2003) "Photodegradation of trifluralin in natural waters and soils: The degradation kinetics and the influence of organic matter", *Int. J. Environ. Anal. Chem*, in press.
8. Sakkas V.A. and T.A. Albanis, (2003), "Photocatalyzed degradation of the biocides chlorothalonil and dichlofluanid over aqueous TiO₂ suspensions", *Applied Catalysis B: Environmental*, in press.
9. I.K. Konstantinou and T.A. Albanis (2004) "TiO₂-assisted photocatalytic degradation of azo dyes in aqueous solution: Kinetic and mechanistic investigations" submitted in *Applied Catalysis B: Environmental*, 49, 1-14
10. Scranò L., S.A. Bufo, T.R.I. Cataldi and T. A. Albanis (2004), "Surface sorption and photochemical reactivity of the diphenylether herbicide Oxyfluorfen, *J Environ. Quality*, 33, 605-611.