

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

ΑΘΗΝΑΣ ΠΑΠΠΑ

Αναπλ. Καθηγήτριας ΕΜΠ
στο γνωστικό αντικείμενο

«Ενόργανη Χημική Ανάλυση με έμφαση στις χρωματογραφικές και θερμικές μεθόδους»

Επώνυμο: ΠΑΠΠΑ
Όνομα: ΑΘΗΝΑ
Τόπος γέννησης: Πρέβεζα
Ημερομηνία γέννησης: 2 Ιανουαρίου 1957
Πληροφορίες: Σχολή Χημικών Μηχανικών ΕΜΠ, Τομέας Χημικών Επιστημών,
Εργαστήριο Ανόργανης και Αναλυτικής Χημείας, Πολυτεχνειούπολη
Ζωγράφου, Αθήνα 15780
Γραφείο: Α.206β
Τηλ.: +30 210 772 3193
e.mail: athpappa@chemeng.ntua.gr

Σπουδές

(1980): Διπλωματούχος Χημικός Μηχανικός ΕΜΠ

(1987): Διδάκτωρ Μηχανικός ΕΜΠ

Γλώσσες: Αγγλικά, γερμανικά

Επαγγελματική δραστηριότητα

2007-έως σήμερα : Αναπληρώτρια Καθηγήτρια Σχολής Χημικών Μηχανικών ΕΜΠ.

2001-2007 : Επίκουρος Καθηγήτρια Σχολής Χημικών Μηχανικών ΕΜΠ.

1989-2001 : Λέκτορας Σχολής Χημικών Μηχανικών ΕΜΠ

1982-1989 : Επιστημονική Συνεργάτις Τμήματος Χημικών Μηχανικών ΕΜΠ

Εκπαιδευτικό έργο

- Ενόργανη Χημική Ανάλυση (Φυσικές Μέθοδοι Ανάλυσης, ΦΜΑ)
- Αναλυτική Χημεία
- Ανόργανη Χημεία
- Περιβάλλον (τμήμα του που αφορά στην ατμοσφαιρική ρύπανση)

Ερευνητικά Ενδιαφέροντα

- Εφαρμογή χρωματογραφικών και άλλων τεχνικών στην μελέτη της χημείας των δασικών πυρκαγιών και των περιβαλλοντικών τους επιπτώσεων.
- Εφαρμογή χημειομετρικών μεθόδων στην επεξεργασία δεδομένων αέριας ρύπανσης και μετρήσεων συνδυασμένων τεχνικών (GC-MS, TG-MS).
- Σχεδιασμός και αξιολόγηση τμημάτων αναλυτικών οργάνων: σύνδεσμος θερμοζυγού – φασματομέτρου μάζας (TG-MS), μονάδα θερμικής εκρόφησης για εισαγωγή σε αέριο χρωματογράφο (TDU), σύστημα παλμικής δειγματοληψίας φασματομέτρου μάζας (PS-MS)
- Εφαρμογή ενοργάνων μεθόδων, θερμικών χρωματογραφικών και φασματομετρικών στην ανάπτυξη λειτουργικών τροφίμων.
- Συνδυασμός χημικών μεθόδων με ακουστικές και οπτικές μεθόδους για παρακολούθηση δυναμικών φαινομένων, όπως η πυρκαγιά στο πεδίο.

- Ανάπτυξη αναλυτικών μεθοδολογιών για τη χημική διερεύνηση χημικών ενώσεων που έχουν απωθητική ή προσελκυστική δράση σε έντομα.

Δημοσιεύσεις σε διεθνή περιοδικά	: 31
Παρουσιάσεις σε συνέδρια διεθνή και ελληνικά	: 50
Χρηματοδοτούμενα ερευνητικά προγράμματα	: 7
Αναφορές στο δημοσιευμένο έργο (Scopus)	: 585
H-index	: 13

Χρηματοδοτούμενα ερευνητικά προγράμματα

- **SGL for USaR:** Second Generation Locator for Urban Search and Rescue operations (www.sgl-eu.org) [EC FP7 THEME 10 Security].
- **FIRELI:** Fire Retardant Hoses Lines for Forestry Fire-Fighting Applications (www.fireli.eu) [EC FP7 THEME Capacities Research for SMEs]. **ERAS:** Extended Retardants Application Systems [EC FP6 project].
- **ACRE:** Additifs Chimique Rheologie Evaluation, [EC Programme Environment and Climate 1994-1998 - Topic 2.3.4].
- **Joint Greece-China project:** Investigation of the characteristics of the forest fire at its early stage and its control, in co-operation with the State Key Laboratory of Fire Science of China.
- **Πολυμεταβλητή Ανάλυση Ογκωδών Δεδομένων**, 2001-2004. Χρηματοδότης BBDO Διαφημίσεις ΑΕ
- **Ανάπτυξη Επιβραδυντικών μέσων για την αντιμετώπιση των δασικών Πυρκαγιών**, ΠΕΝΕΔ - 95 (61/828).
- **Χημειομετρική Ανάλυση:** Βελτίωση λογισμικού προγράμματος PONTOS και εφαρμογή του στην Χημεία και Χημική Ανάλυση. ΠΕΝΕΔ - 95 (61/827).

Κριτής σε διεθνή περιοδικά

Journal of Thermal Analysis

Calorimetry και Thermochemica Acta .

Journal of Analytical and Applied Pyrolysis

Διδακτορική Διατριβή

“The Separation of Metal Chelates with High-Pressure Liquid Chromatography”

Publications in Scientific Journals

1. S. Liodakis, A. Pappa, G. Parissakis, Influence of Temperature on Separation of Metal Chelates by absorption HPLC, **J. Chromatogr. Sci.**, 27 (1989) 149-152.
2. A. Andreopoulos, A. Pappa, N. Tzamtzis, Testing of weathered Poly(vinylchloride) **Polymer Testing**, 13 (1994) 3-13.
3. A. Pappa, N. Tzamtzis, M. Statheropoulos, S. Liodakis, G. Parissakis, A comparative study of the effects of fire retardants on the pyrolysis of cellulose and Pinus Halepensis pineneedles, **J. Anal. Appl. Pyrolysis**, 31 (1995) 85-100.

4. A. Pappa, N. Tzamtzis, M. Statheropoulos, G. Parissakis, Thermal analysis of Pinus Halepensis pineneedles and their main components in the presence of $(\text{NH}_4)_2\text{HPO}_4$ and $(\text{NH}_4)_2\text{SO}_4$, **Thermochim. Acta**, 261 (1995) 165-173.
5. S. Liodakis, M. Statheropoulos, N. Tzamtzis, A. Pappa, The effect of salt and oxide-hydroxide additives on the pyrolysis of cellulose and Pinus halepensis pine-needles, **Thermochim. Acta**, 278 (1996) 99-108.
6. N. Tzamtzis, S. Liodakis, A. Pappa, M. Statheropoulos, G. Parissakis, The effect of $(\text{NH}_4)_2\text{HPO}_4$ and $(\text{NH}_4)_2\text{SO}_4$ on the composition of volatile organic pyrolysis products of cellulose. Py-GC studies, **Polym. Degrad. Stab.**, 56 (1997) 287-290.
7. M. Statheropoulos, S. Liodakis, N. Tzamtzis, A. Pappa, S. Kyriakou, Thermal degradation of Pinus halepensis pine-needles using various analytical methods, **J. Anal. Appl. Pyrolysis**, 43 (1997) 115-123.
8. S. Liodakis, D. Gakis, M. Statheropoulos, N. Tzamtzis, A. Pappa, Electrochemical methods for monitoring the volatile pyrolysis products of Pinus halepensis pine-needles, **J. Anal. Appl. Pyrolysis**, 43 (1997) 139-144.
9. M. Statheropoulos, N. Vassiliadis, A. Pappa, Principal Component and Canonical Correlation Analysis for examining air pollution and meteorological data **Atmospheric Environment**, 32 (1998) 1087-95.
10. M. Statheropoulos, A. Pappa, P. Karamertzanis and H. Meuzelaar, Noise Reduction of fast, repetitive GC/MS measurements using Principal Component Analysis (PCA), **Anal. Chim. Acta**, 401 (1999) 35-43.
11. M. Statheropoulos, S. Kyriakou, A. Pappa, Repetitive Pulsed Sampling Interface for Combined Thermogravimetry Mass Spectrometry, **Thermochim. Acta**, 329 (1999) 83-88.
12. N. Tzamtzis, A. Pappa A. Mourikis, The effect of $(\text{NH}_4)_2\text{HPO}_4$ and $(\text{NH}_4)_2\text{SO}_4$ on the composition of the volatile organic pyrolysis products of Pinus halepensis pine needles, **Polym. Degrad. Stab.**, 66 (1999) 55-63.
13. A. Pappa, N. Tzamtzis, M. Statheropoulos, C. Fasseas, The pyrolytic behavior of Pinus halepensis needles observed by Transmission Light Microscopy and Stereoscopy, **J. Anal. Appl. Pyrolysis**, 55 (2000) 195-202.
14. N. Tzamtzis, A. Pappa, M. Statheropoulos, C. Fasseas, Effects of fire retardants on the pyrolysis of Pinus halepensis needles using microscopic techniques, **J. Anal. Appl. Pyrolysis**, 63 (2002) 147-156.
15. M. Statheropoulos, K. Mikedi, N. Tzamtzis, A. Pappa, Application of factor analysis for resolving thermogravimetric-mass spectrometric analysis spectra, **Anal. Chim. Acta**, 461 (2002) 215-227.
16. A. Pappa, K. Mikedi, N. Tzamtzis, M. Statheropoulos, Chemometric methods for studying the effects of chemicals on cellulose pyrolysis by thermogravimetry-mass spectrometry, **J. Anal. Appl. Pyrolysis**, 67 (2003) 221-235.

17. M. Statheropoulos, N. Tzamtzis, A. Pappa, S. Karma, Naian Liu, Use of a TG-Bridge/ Mass Spectrometry Method for on-line Monitoring the Emissions of pine needles Combustion, **Fire Safety Science**, 13 (2004) 135-144.
18. A. Pappa, S. Kyriakou, K. Miki, N. Tzamtzis, M. Statheropoulos, Design considerations and an example of application of an in-house made TG-MS interface, **J. Therm. Anal. Cal.**, 78 (2004) 415-426.
19. S. Thymi, M. Krokida, A. Pappa, Z. Maroulis, Structural properties of extruded corn starch, **J. of Food Engineering**, 68 (2005) 519-526.
20. M. Statheropoulos, E. Sianos, A. Agapiou, A. Georgiadou, A. Pappa, N. Tzamtzis, H. Giotaki, C. Papageorgiou, D. Kolostoumbis, Preliminary investigation of using volatile organic compounds from human expired air, blood and urine for locating entrapped people in earthquakes, **J. Chromatogr. B**, 822 (2005) 112-117.
21. A. Pappa, N. Tzamtzis, S. Koufopoulou, Leaching of phosphorus due to long-term fire retardant application. Lab scale studies in pots with living and burnt pine trees, **International Journal of Wildland Fire**, 15 (2006), 287-292.
22. A. Pappa, K. Miki, N. Tzamtzis, M. Statheropoulos, TG-MS analysis for studying the effects of fire retardants on the pyrolysis of Pinus halepensis needles and their components, **J. Therm. Anal. Cal.**, 84 (2006) 655-661.
23. N. Tzamtzis, S. Karma, A. Pappa, M. Statheropoulos, On -line monitoring of pine needles combustion emissions in the presence of fire retardant using a "TG-Bridge / Mass Spectrometry method, **Anal. Chim. Acta**, 573 (2006) 439-444
24. S. Thymi, M. Krokida, A. Pappa, D. Marinos-Kouris, Melting Temperatures of extruded products with texturizes proteins. **International Journal of Food Properties**, 11 (2008) 1 -12.
25. A. Pappa, N. Tzamtzis, S. Koufopoulou, Nitrogen leaching from a forest soil exposed to fire retardant with and without fire: A laboratory study, **Ann. For. Sci.** 65 (2008) 210.
26. A. Pappa, K. Miki, A. Agapiou, S. Karma, G. C. Pallis, M. Statheropoulos, TG-MS analysis of nitrile butadiene rubber (NBR/PVC) blends, **Journal of Analytical and Applied Pyrolysis**, (2011), 92, 106-110.
27. M. Krokida, A. Pappa, M. Agalioti, Effect of drying on Aloe's functional components, **Procedia Food Science** (2011) 1, 1523 – 1527.
28. M. Statheropoulos, K. Miki, P. Stavrakakis, A. Agapiou, S. Karma, G.C. Pallis, A. Pappa, A preliminary study of combining mass spectrometric data with audio and video signals for real-time monitoring of controlled lab-scale fires, **Sensors and Actuators B**, (2011) 159, 193– 200.
29. K. Miki, P. Stavrakakis, A. Agapiou, K. Moirogiorgou, S. Karma, G. C. Pallis, A. Pappa, M. Statheropoulos, M. Zervakis, Chemical, acoustic and optical response profiling for analysing burning patterns, **Sensors and Actuators B**, (2012)176, 290-298.
30. K. Kyriakopoulou, M. Krokida, A.Pappa, A. Detsi, P. Kefalas, Effects of Drying and Extraction Methods on the Quality and Antioxidant Activity of Sea Buckthorn (Hippophae Rhamnoides) Berries and Leaves, **Drying Technology**, (2013), 31(9) 1063-1076.

31. P. Stavrakakis, A. Agapiou, K. Mikedi, S. Karma, M. Statheropoulos, G. C Pallis, A. Pappa. A scale-up field experiment for the monitoring of a burning process using chemical, audio and video sensors, Environmental Science and Pollution Research, (2013) 1-10.

Επιστημονικές Συνεργασίες

- Chemical Engineering Department, Center of Microanalysis and Reaction Chemistry, UTAH (USA), Prof. H. Meuzelaar, σε θέματα συνδυασμένων αναλυτικών τεχνικών.
- University of Aveiro (Πορτογαλλία). Department of Environment and Planning, Prof. A. I. Miranda. Αφορά σε χρωματογραφικές αναλύσεις καπνού δασικών πυρκαγιών.
- CEREN (Ερευνητικό Κέντρο Πολιτικής Προστασίας της Γαλλίας). Dr. C. Picard. Η συνεργασία αυτή αφορά σε ανάπτυξη χημικών τεστ με θερμικές μεθόδους για την αξιολόγηση επιβραδυντών δασικών πυρκαγιών.
- Μπενάκειο Φυτοπαθολογικό Ινστιτούτο. Δρ. Γ. Μιχαλάκης, Γ Ερευνητής, σε θέματα χημικής διερεύνησης ουσιών με ελκτική ή εντομοαπωθητική δράση
- Γεωπονικό Πανεπιστήμιο. Επικ. Καθ. Σ. Φουντάς, σε θέματα προσδιορισμού εκπεμπομένων οργανικών ουσιών από φυτά και φυτικά προϊόντα για την διάγνωση εντομολογικών προσβολών.

CURRICULUM VITAE

ATHINA PAPPA

Assoc. Professor

In Instrumental Methods of Chemical Analysis-Chromatographic and Thermal Methods of Analysis

Last Name: PAPPA
First Name: ATHINA
Nationality: GREEK
Place of Birth: PREVEZA (Greece), Januar 2, 1957
Contact Details: **School of Chemical Engineering**, National Technical University of Athens (NTUA), Dept of Chemical Sciences, Lab of Inorganic and Analytical Chemistry, 9 Iroon Polytechniou, 15780, Greece.
Office: A.206β
Tel:+30 210 772 3193
e-mail: athpappa@chemeng.ntua.gr

Education

(1980): M.Sc in Chemical Engineering, NTUA, Greece
(1987): Ph.D. thesis in Instrumental Methods of Chemical Analysis: “The Separation of Metal Chelates with High-Pressure Liquid Chromatography”

Work Experience

2007-until now : Assoc. Professor in the School of Chemical Engineering, NTUA, Greece.
2001-2007 : Assist. Professor in the School of Chemical Engineering, NTUA, Greece.
1989-2001 : Lecturer in the School of Chemical Engineering, NTUA, Greece
1982-1989 : Research and education collaborator in Lab of Inorganic and Analytical Chemistry, National Technical University of Athens Greece.

Teaching

- *Instrumental Methods of Chemical Analysis*, undergraduate course, School of Chemical Engineering of NTUA
- *Environment*, undergraduate course, School of Chemical Engineering, of NTUA
- *Environment and Development*, postgraduate Course, Inter-Department of NTUA

Research areas

- Studies of forest fire chemistry by analytical methods (thermal, chromatographic, mass spectrometric and microscopic methods)
- Application of chemometric methods on complicated analytical data, such as, chromatographic data of a roving GC/MS system TG/MS data and air pollution data.
- Design considerations and validation of parts of analytical instruments such as: interface for combining Thermal balance with mass spectrometry (TG-MS interface), Thermal Desorption Unit (TDU) for preconcentrating VOCs in air samples, Pulsed Sampling System for MSD.
- Application of thermal, chromatographic and spectrometric methods on the development of functional foods.
- Combining field chemical analysis with optical and acoustical methods for monitoring fire events in the field.
- Development of analytical methods for chemical investigation of compounds, which have attracting or repelling insect action.

Publications in International Journals	: 31
Presentations in Conferences	: 50
Funded Projects	: 7
Citations (Scopus)	: 585
H-index	: 13

Research Projects

- **SGL for USaR:** Second Generation Locator for Urban Search and Rescue operations (www.sgl-eu.org) [EC FP7 THEME 10 Security].
- **FIRELI:** Fire Retardant Hoses Lines for Forestry Fire-Fighting Applications (www.fireli.eu) [EC FP7 THEME Capacities Research for SMEs]. **ERAS:** Extended Retardants Application Systems [EC FP6 project].
- **ACRE:** Additifs Chimique Rheologie Evaluation, [EC Programme Environment and Climate 1994-1998 - Topic 2.3.4].
- **Joint Greece-China project:** Investigation of the characteristics of the forest fire at its early stage and its control, in co-operation with the State Key Laboratory of Fire Science of China.
- **Application of Polyparametric Analysis on Voluminous Data, 2001-2004,** Funded by BBDO, Hellas
- **Development of chemical retardants for forest fire prevention”**, PENED-95
- **Improvement the PONTOS logistic software program for chemistry and chemical analysis applications”**, PENED-95

Review Services

Journal of Thermal Analysis
 Calorimetry και Thermochemica Acta .
 Journal of Analytical and Applied Pyrolysis

Publications in Scientific Journals

1. S. Liodakis, A. Pappa, G. Parissakis, Influence of Temperature on Separation of Metal Chelates by absorption HPLC, **J. Chromatogr. Sci.**, 27 (1989) 149-152.
2. A. Andreopoulos, A. Pappa, N. Tzamtzis, Testing of weathered Poly(vinylchloride) **Polymer Testing**, 13 (1994) 3-13.
3. A. Pappa, N. Tzamtzis, M. Statheropoulos, S. Liodakis, G. Parissakis, A comparative study of the effects of fire retardants on the pyrolysis of cellulose and Pinus Halepensis pineneedles, **J. Anal. Appl. Pyrolysis**, 31 (1995) 85-100.
4. A. Pappa, N. Tzamtzis, M. Statheropoulos, G. Parissakis, Thermal analysis of Pinus Halepensis pineneedles and their main components in the presence of (NH₄)₂HPO₄ and (NH₄)₂SO₄ , **Thermochem. Acta**, 261 (1995) 165-173.
5. S. Liodakis, M. Statheropoulos, N. Tzamtzis, A. Pappa, The effect of salt and oxide-hydroxide additives on the pyrolysis of cellulose and Pinus halepensis pine-needles, **Thermochem. Acta**, 278 (1996) 99-108.
6. N. Tzamtzis, S. Liodakis, A. Pappa, M. Statheropoulos, G. Parissakis, The effect of (NH₄)₂HPO₄ and (NH₄)₂SO₄ on the composition of volatile organic pyrolysis products of cellulose. Py-GC studies, **Polym. Degrad. Stab.**, 56 (1997) 287-290.

7. M. Statheropoulos, S. Liodakis, N. Tzamtzis, A. Pappa, S. Kyriakou, Thermal degradation of *Pinus halepensis* pine-needles using various analytical methods, **J. Anal. Appl. Pyrolysis**, 43 (1997) 115-123.
8. S. Liodakis, D. Gakis, M. Statheropoulos, N. Tzamtzis, A. Pappa, Electrochemical methods for monitoring the volatile pyrolysis products of *Pinus halepensis* pine-needles, **J. Anal. Appl. Pyrolysis**, 43 (1997) 139-144.
9. M. Statheropoulos, N. Vassiliadis, A. Pappa, Principal Component and Canonical Correlation Analysis for examining air pollution and meteorological data **Atmospheric Environment**, 32 (1998) 1087-95.
10. M. Statheropoulos, A. Pappa, P. Karamertzanis and H. Meuzelaar, Noise Reduction of fast, repetitive GC/MS measurements using Principal Component Analysis (PCA), **Anal. Chim. Acta**, 401 (1999) 35-43.
11. M. Statheropoulos, S. Kyriakou, A. Pappa, Repetitive Pulsed Sampling Interface for Combined Thermogravimetry Mass Spectrometry, **Thermochim. Acta**, 329 (1999) 83-88.
12. N. Tzamtzis, A. Pappa A. Mourikis, The effect of $(\text{NH}_4)_2\text{HPO}_4$ and $(\text{NH}_4)_2\text{SO}_4$ on the composition of the volatile organic pyrolysis products of *Pinus halepensis* pine needles, **Polym. Degrad. Stab.**, 66 (1999) 55-63.
13. A. Pappa, N. Tzamtzis, M. Statheropoulos, C. Fasseas, The pyrolytic behavior of *Pinus halepensis* needles observed by Transmission Light Microscopy and Stereoscopy, **J. Anal. Appl. Pyrolysis**, 55 (2000) 195-202.
14. N. Tzamtzis, A. Pappa, M. Statheropoulos, C. Fasseas, Effects of fire retardants on the pyrolysis of *Pinus halepensis* needles using microscopic techniques, **J. Anal. Appl. Pyrolysis**, 63 (2002) 147-156.
15. M. Statheropoulos, K. Mikedi, N. Tzamtzis, A. Pappa, Application of factor analysis for resolving thermogravimetric-mass spectrometric analysis spectra, **Anal. Chim. Acta**, 461 (2002) 215-227.
16. A. Pappa, K. Mikedi, N. Tzamtzis, M. Statheropoulos, Chemometric methods for studying the effects of chemicals on cellulose pyrolysis by thermogravimetry-mass spectrometry, **J. Anal. Appl. Pyrolysis**, 67 (2003) 221-235.
17. M. Statheropoulos, N. Tzamtzis, A. Pappa, S. Karma, Naian Liu, Use of a TG-Bridge/ Mass Spectrometry Method for on-line Monitoring the Emissions of pine needles Combustion, **Fire Safety Science**, 13 (2004) 135-144.
18. A. Pappa, S. Kyriakou, K. Mikedi, N. Tzamtzis, M. Statheropoulos, Design considerations and an example of application of an in-house made TG-MS interface, **J. Therm. Anal. Cal.**, 78 (2004) 415-426.
19. S. Thymi, M. Krokida, A. Pappa, Z. Maroulis, Structural properties of extruded corn starch, **J. of Food Engineering**, 68 (2005) 519-526.

20. M. Statheropoulos, E. Sianos, A. Agapiou, A. Georgiadou, A. Pappa, N. Tzamtzis, H. Giotaki, C. Papageorgiou, D. Kolostoumbis, Preliminary investigation of using volatile organic compounds from human expired air, blood and urine for locating entrapped people in earthquakes, **J. Chromatogr. B**, 822 (2005) 112-117.
21. A. Pappa, N. Tzamtzis, S. Koufopoulou, Leaching of phosphorus due to long-term fire retardant application. Lab scale studies in pots with living and burnt pine trees, **International Journal of Wildland Fire**, 15 (2006), 287-292.
22. A. Pappa, K. Mikedi, N. Tzamtzis, M. Statheropoulos, TG-MS analysis for studying the effects of fire retardants on the pyrolysis of Pinus halepensis needles and their components, **J. Therm. Anal. Cal.**, 84 (2006) 655-661.
23. N. Tzamtzis, S. Karma, A. Pappa, M. Statheropoulos, On -line monitoring of pine needles combustion emissions in the presence of fire retardant using a "TG-Bridge / Mass Spectrometry method, **Anal. Chim. Acta**, 573 (2006) 439-444
24. S. Thymi, M. Krokida, A. Pappa, D. Marinos-Kouris, Melting Temperatures of extruded products with texturizes proteins. **International Journal of Food Properties**, 11 (2008) 1 -12.
25. A. Pappa, N. Tzamtzis, S. Koufopoulou, Nitrogen leaching from a forest soil exposed to fire retardant with and without fire: A laboratory study, **Ann. For. Sci.** 65 (2008) 210.
26. A. Pappa, K. Mikedi, A. Agapiou, S. Karma, G. C. Pallis, M. Statheropoulos, TG-MS analysis of nitrile butadiene rubber (NBR/PVC) blends, **Journal of Analytical and Applied Pyrolysis**, (2011), 92, 106-110.
27. M. Krokida, A. Pappa, M. Agalioti, Effect of drying on Aloe's functional components, **Procedia Food Science** (2011) 1, 1523 – 1527.
28. M. Statheropoulos, K. Mikedi, P. Stavrakakis, A. Agapiou, S. Karma, G.C. Pallis, A. Pappa, A preliminary study of combining mass spectrometric data with audio and video signals for real-time monitoring of controlled lab-scale fires, **Sensors and Actuators B**, (2011) 159, 193– 200.
29. K. Mikedi, P. Stavrakakis, A. Agapiou, K. Moirogiorgou, S. Karma, G. C. Pallis, A. Pappa, M. Statheropoulos, M. Zervakis, Chemical, acoustic and optical response profiling for analysing burning patterns, **Sensors and Actuators B**, (2012)176, 290-298.
30. K. Kyriakopoulou, M. Krokida, A.Pappa, A. Detsi, P. Kefalas, Effects of Drying and Extraction Methods on the Quality and Antioxidant Activity of Sea Buckthorn (Hippophae Rhamnoides) Berries and Leaves, **Drying Technology**, (2013), 31(9) 1063-1076.
31. P. Stavrakakis, A. Agapiou, K. Mikedi, S. Karma, M. Statheropoulos, G. C Pallis, A. Pappa, A scale-up field experiment for the monitoring of a burning process using chemical, audio and video sensors, **Environmental Science and Pollution Research**, (2013) 1-10.