

**ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ**

ΤΜΗΜΑ ΧΗΜΕΙΑΣ

**ΠΕΠΡΑΓΜΕΝΑ
ΕΡΕΥΝΗΤΙΚΗΣ ΔΡΑΣΤΗΡΙΟΤΗΤΑΣ**

1978 – 1989



1992

UNIVERSITY OF ATHENS

DEPARTMENT OF CHEMISTRY

RESEARCH ACTIVITY

1978 – 1989



1992

ΠΕΡΙΕΧΟΜΕΝΑ

| | |
|---------------------------------------|----|
| Εργαστήριο Ανόργανης Χημείας | 5 |
| Εργαστήριο Αναλυτικής Χημείας | 20 |
| Εργαστήριο Οργανικής Χημείας | 48 |
| Εργαστήριο Φυσικοχημείας | 59 |
| Εργαστήριο Βιομηχανικής Χημείας | 66 |
| Εργαστήριο Χημείας Τροφίμων | 75 |

CONTENTS

| | |
|--|----|
| Laboratory of Inorganic Chemistry | 5 |
| Laboratory of Analytical Chemistry | 20 |
| Laboratory of Organic Chemistry | 48 |
| Laboratory of Physical Chemistry | 59 |
| Laboratory of Industrial Chemistry | 66 |
| Laboratory of Food Chemistry | 75 |

Η ερευνητική και συγγραφική δραστηριότητα του Τμήματος Χημείας μέχρι το 1977 περιέχεται σε τρεις τόμους, που εκδόθηκαν από τη Φυσικομαθηματική Σχολή του Πανεπιστημίου Αθηνών. Στον παρόντα τόμο περιέχεται, αποκλειστικά και μόνο, η ερευνητική δραστηριότητα του Τμήματός μας κατά τη δωδεκαετία 1978-1989. Η έκδοση αυτή είναι συνοπτική και περιλαμβάνει μόνο τους τίτλους των διατριβών και των πρωτότυπων επιστημονικών εργασιών, οι οποίες δημοσιεύτηκαν σε έγκυρα επιστημονικά περιοδικά. Το υπόλοιπο επιστημονικό και συγγραφικό έργο (βιβλία, άρθρα ανασκόπησης, πρακτικά συνεδρίων κλπ.), το οποίο είναι σημαντικό και εκτεταμένο, δεν περιλαμβάνεται για εξοικονόμηση χώρου και κυρίως για επίσπευση της εκδόσεως. Η ερευνητική δραστηριότητα από το 1990 και μετά, θα παρουσιάζεται κατά πληρέστερο τρόπο με τακτικές εκδόσεις κάθε τριετία.

Φαίνεται καθαρά, ότι κατά τη δωδεκαετία 1978-1989 στο Τμήμα μας επιτελέσθηκε αξιόλογο ερευνητικό έργο (4 διατριβές για Υφηγεσία, 65 διδακτορικές διατριβές και 497 πρωτότυπες δημοσιεύσεις). Πρέπει να τονισθεί ιδιαίτερα, ότι το έργο αυτό πραγματοποιήθηκε σε περίοδο σχετικά δύσκολη για το Τμήμα μας και με περιορισμένες επιχορηγήσεις από την Πολιτεία.

Η επιμέλεια της έκδοσης αυτής έγινε από τον Αναπλ. Καθηγητή και Αναπληρωτή Πρόδεδρο του Τμήματος Χημείας Κ. Ευσταθίου τον οποίο και ευχαριστούμε θερμότατα. Επίσης ευχαριστούμε τους Αναπλ. Καθηγητές Μ. Κουππάρη, Κ. Δημόπουλο και τους Επικ. Καθηγητές Αθ. Γιωτάκη, Θ. Καλογεράκο, I. Μαρκόπουλο, που ανέλαβαν τη συλλογή των τίτλων των δημοσιεύσεων από το κάθε Εργαστήριο.

*Nίκος Χατζηχρηστίδης
Πρόεδρος του Τμήματος Χημείας*

Ιούλιος 1992

ΕΡΓΑΣΤΗΡΙΟ ΑΝΟΡΓΑΝΗΣ ΧΗΜΕΙΑΣ
LABORATORY OF INORGANIC CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες
Ph. D. and Dozent Theses

1. N. Δ. Χατζηλιάδης

Αντικαρκινική δράση των συμπλόκων του λευκοχρύσου(II) και μελέτη των αντιδράσεων παλλαδίου(II) με νουκλεοζίτες.
Διατριβή για Υφηγεσία, 1978

N. D. Hadjiliadis

The anticancer activity of platinum(II) complexes and the study of palladium(II) - nucleosides reactions.

Dozent Thesis, 1978

2. N. Χ. Φρωλίγκος

Συμβολή εις την μελέτη της επιδράσεως των λυμάτων και των βιομηχανικών αποβλήτων επί της κατανομής των θρεπτικών αλάτων, κατά τα έτη 1973-1977, εις το οικοσύστημα του Σαρωνικού Κόλπου.

Διδακτορική διατριβή, 1978

N. Ch. Friligos

Study of the effects of domestic and industrial effluents on the distribution of nutrients in the Saronic Gulf ecosystem, during the years 1973-1977.

Ph. D. Thesis, 1978

3. A. Λ. Πέτρου

Συμβολή στην μελέτη των αντιδράσεων του δισθενούς χρωμίου με ακόρεστα καρβοξυλικά οξέα

Διδακτορική διατριβή, 1979

A. L. Petrou

Contribution to the study of the reactions of Cr(II) with unsaturated carboxylic acids.

Ph.D. Thesis, 1979

4. M. Scoullos
Chemical studies of the Gulf of Elefsis
Ph. D. Thesis, 1979, (University of Liverpool, Dept. of Oceanography)
5. Φ. Μ. Πιπεράκη
Παρασκευή και μελέτη ενώσεων του Mo(VI) με νουκλεϊνικές βάσεις και νουκλεοσίδια.
Διδακτορική διατριβή, 1980
F. M. Piperaki
Synthesis and interaction of Mo(VI) complexes with nucleic bases and nucleosides.
Ph. D. Thesis, 1980
6. Α. Θ. Τσατσάς
Φασματοσκοπική μελέτη ιόντων και μεταλλοσυμπλόκων, στερεωμένων σε πολυμερικό υπόστρωμα.
Διατριβή για Υφηγεσία, 1981
A. T. Tsatsas
Spectroscopic studies of ions and metal complexes attached to a polymeric substrate.
Dozent Thesis, 1981
7. I. M. Μαρκόπουλος
Αντιδράσεις Pt(II) και Pd(II) με θειαμίνη, φωσφορικούς της εστέρες και ανηγμένα παράγωγά τους.
Διδακτορική διατριβή, 1981
I. M. Markopoulos
Reactions of Pt(II) and Pd(II) with thiamine, its phosphate esters and their hydrogenated derivatives.
Ph. D. Thesis, 1981
8. A. Λυμπεροπούλου-Καραλιώτα
Μελέτη της χημείας του νιοβίου σε χαμηλές οξειδωτικές καταστάσεις.
Διδακτορική διατριβή, 1982
A. Liberopoulou - Karaliota
The chemistry of Nb in its low oxidation states.
Ph. D. Thesis, 1982

9. **Μ. Παπαρριγοπούλου - Καμαριωτάκη**
Μελέτη συμπλόκων νιοβίου(III) με οξαλικά και τρυγικά ιόντα σε υδατικά διαλύματα.
Διδακτορική διατριβή, 1982
- M. Paparrigopoulou - Kamariotaki**
Study of Nb(III) complexes with oxalate and tartarate ions in aqueous solutions.
Ph. D. Thesis, 1982
10. **Δ. Σταμπάκη - Χατζηπαναγιώτη**
Παρασκευή και μελέτη συμπλόκων του τανταλίου σε χαμηλές οξειδωτικές καταστάσεις.
Διδακτορική διατριβή, 1982
- D. Stambaki - Hadjipanayoti**
Synthesis and study of tantalum complexes in its low oxidation states.
Ph. D. Thesis, 1982
11. **Γ. Κ. Καλαντζής**
Συμβολή στη μελέτη των αντιδράσεων δισθενούς και τρισθενούς βαναδίου με θειολοενώσεις.
Διδακτορική Διατριβή, 1983
- G.K. Kalantzis**
Contribution to the study of the reactions of V(II) and V(III) with thiolate compounds.
Ph. D. Thesis, 1983
12. **Η. Ι. Χοντζόπουλος**
Σύνθεση νέων διθειολενικών συμπλόκων και χρήση του 2-χλωρο-διθειοβενζυλο-νικελίου(II) για την φωτοκαταλυτική παραγωγή υδρογόνου από νερό.
Διδακτορική Διατριβή, 1983
- E. J. Hontzopoulos**
Synthesis of new dithiolene complexes and the use of 2-chloro-dithiobenzyl-nickel(II) for the photocatalytic evolution of H₂ from water.
Ph. D. Thesis, 1983

13. Ε. Τσελέπη - Καλούδη

Συμπλοκα Ru(III) με παράγωγα νουκλεϊνικών οξέων και αλληλεπίδραση του Ru(III), Rh(III), Rh(II) με DNA.
Διδακτορική διατριβή, 1984

H. Tselepi - Kaloudi

Complexes of Ru(III) with nucleic acids derivatives and the interaction of Ru(III), Rh(III), Rh(II) ions with DNA.

Ph. D. Thesis, 1984

14. Δ. Α. Δημοτικάλη

Φωτοχημεία 1:12 ετεροπολυβιολφραμικών αλάτων και 2:18 φωσφορο-μολυβδαινικού αμμωνίου.

Διδακτορική διατριβή, 1984

D.A. Dimotikali

Photochemistry of eteropoly electrolytes; the 1:12 polytungstates salts and the ammonium 2:18 molybdophosphate.

Ph. D. Thesis, 1984

15. Κ. Σ. Αγγελόπουλος

Μελέτη επί της χημείας και δομής ελληνικού ορυκτού άνθρακα - Περιοχή Μεγαλοπόλεως

Διδακτορική διατριβή, 1985

K. S. Angelopoulos

Studies on structure and chemistry of greek coal - Megalopolis area.

Ph. D. Thesis, 1985

16. Σ. Π. Κοΐνης

Εφαρμογές της ορίζουσας του Wronski στη μελέτη χημικών συστημάτων με πολλά συστατικά.

Διδακτορική διατριβή, 1987

S. P. Koinis

Applications of the Wronskian determinant in the study of chemical multicomponent systems.

Ph. D. Thesis, 1987

17. Μ. Κραβαρίτου

Αντιδράσεις ενώσεων με πολλαπλούς δεσμούς "Mo-Mo".

Διδακτορική διατριβή, 1987

M. Kravaritou

The reactivity of complexes containing multiple "Mo-Mo" bonds.

Ph. D. Thesis, 1987

18. A. Shehadeh

Σύνθεση και μελέτη των $\text{Ru}_2(\mu\text{-O}_2\text{CCH}_3)_4$ και εξαπυρηνικών πλειάδων του ρηγίου $L = \text{Cl}, -\text{CH}_3, -\text{CH}_2\text{SiMe}_3$.

Διδακτορική διατριβή, 1987

A. Shehadeh

Synthesis and study of $\text{Ru}_2(\mu\text{-O}_2\text{CCH}_3)_4$ and of hexanuclear clusters of Re;

$L = \text{Cl}, -\text{CH}_3, -\text{CH}_2\text{SiMe}_3$.

Ph. D. Thesis, 1987

19. M. K. Papadákη

Υδρολυτικές, οξειδοαναγωγικές και φωτοχημικές αντιδράσεις του συμπλόκου διις-[1-(4-μεθοξφαινυλο)-2-φαινυλο-1,2-αιθυλενοδιθειολενικού-S,S'] νικελίου.

Διδακτορική διατριβή, 1988

M. K. Papadaki

Hydrolytic, redox and photochemical reactions of the complex bis-[1-(4-methoxyphenyl)-2-phenyl-1,2-ethenedithiolato-S,S'] nickel.

Ph. D. Thesis, 1988

20. X. A. Μητσοπούλου

Σύνθεση διθειολενικών συμπλόκων του βιολφραμίου και μολυβδαινίου και μελέτη της φωτοκαταλυτικής και καταλυτικής δράσης του συμπλόκου τριις-[1-(4-μεθυλο-φαινυλο)-2-φαινυλο-1,2-αιθυλενοδιθειολενικού-S,S'] βιολφραμίου.

Διδακτορική διατριβή, 1989

Ch. A. Mitsopoulou

Synthesis of dithiolene complexes of tungsten and molybdenum and study of the photocatalytic and catalytic action of the complex tris-[1-(4-methoxyphenyl)-2-phenyl-1,2-ethylenedithiolenic-S,S'] tungsten.

Ph. D. Thesis, 1989

21. M. I. Δασενάκης

Χημική μελέτη της διακίνησης των Al-Fe-Mn-Cu-Pb-Zn στις εκβολές του Αχελώου.

Διδακτορική διατριβή, 1989

M. J. Dassenakis

Chemical behaviour and transportation of some trace elements in the estuary of Acheloos.

Ph. D. Thesis, 1989

B. Πρωτότυπες ερευνητικές δημοσιεύσεις
Published research papers

1. C. Chassapis and G. Pneumatikakis
Chelates of the rare earth nitrates with 1,10-phenanthroline-N,N'-dioxide.
Inorganica Chimica Acta, 27, 67 (1978)
2. G. Pneumatikakis , N. Hadjiliadis and T. Theophanides
Complexes of inosine, cytidine and guanosine with Pd(II).
Inorganic Chemistry, 17, 915 (1978)
3. N. Hadjiliadis and G. Pneumatikakis
Complexes of Pd(II) with nucleosides. Preparation and properties of the mononucleoside complexes of the type K[PdNuCl₃].
Journal of Chemical Society, Dalton Transaction, 1691 (1978)
4. D. Katakis, J. Konstantatos, N. Katsaros and E. Vrachnou-Astra
Reaction of low-valent metal ions with a-keto acids. (I) Reduction of pyruvic acid by aqueous Cr(II) ion.
Journal of American Chemical Society, 100, 3128 (1978)
5. D. Katakis and M. Scoullos
Studies on the chemistry of humic acids. (I) Complexes of Fe(II), Fe(III) and Cu(II) with toluoquinone and oligomeric derivatives.
Chimika Chronika (New Series), 7, 65 (1978)
6. J. K. Creen, K. Mertis and G. Wilkinson
Photoelectron spectra of some transition metal alkyls and oxoalkyls.
Journal of Chemical Society, Dalton Transactions, 1403 (1978)
7. M. Scoullos and J. P. Riley
Water circulation in the Gulf of Elefsis Greece.
Thalassia Jugoslavica, 14, 357 (1978)

8. G. Pneumatikakis and N. Hadjiliadis
Complexes of cysteine and cysteinemethylester with Pd(II) and Pt(II).
Journal of Inorganic and Nuclear Chemistry, **41**, 429 (1979)
9. G. Pneumatikakis and N. Hadjiliadis
Interactions of tetrakis- μ -acetato-dirhodium(II) with adenine nucleosides and nucleotides.
Journal of Chemical Society, Dalton Transactions, 596 (1979)
10. N. Hadjiliadis and G. Pneumatikakis
Complexes of d(+)-biotin with Pd(II) and Pt(II).
Journal of Inorganic Biochemistry, **10**, 215 (1979)
11. M. Plytzanopoulos, G. Pneumatikakis, N. Hadjiliadis, D. Katakis and V. Papadopoulos
Complexes of Fe(II), Fe(III) and Mn(II) with 2-benzoylpyridine.
Chimika Chronika (New Series), **8**, 109 (1979)
12. M. Plytzanopoulos and G. Pneumatikakis
Interaction of 2-acetylpyridine with the first row transition metals.
Chimika Chronika (New Series), **8**, 281 (1979)
13. G. B. Rouse, A. T. Tsatsas, W. M. Risen Jr. and Adi Eisenberg
Far infrared studies of ion clustering in ionomers.
Journal of Polymer Science, Physics, **17**, 81 (1979)
14. G. B. Rouse, A. T. Tsatsas and W. M. Risen Jr.
Infrared studies of ionomer clustering.
Chimika Chronika (New Series), **8**, 45 (1979)
15. J. Markopoulos, O. Markopoulou and N. Hadjiliadis
Complexes of tetrahydrothiamine with Pt(II).
Inorganica Chimica Acta, **34**, L299 (1979)
16. D. Katakis and M. Scoullos
Studies on the chemistry of humic acids. (II) Interaction of Fe(III) and Cu(II) with oxygen containing polymeric ligands.
Chimika Chronika (New Series), **8**, 169 (1979)
17. D. Katakis and M. Scoullos
Studies on the chemistry of humic acids. (III) Preliminary observations on the reduction of dinitrogen by V(II) in the presence of humic acids.
Chimika Chronika (New Series), **8**, 181 (1979)

18. P. C. Edwards, F. Felix, K. Mertis, and G. Wilkinson
Interactions of trirhenium(III) cluster alkyls with carboxylic acids, β -diketonates and diphenyltriazenes.
Journal of Chemical Society, Dalton Transactions, 361 (1979)
19. M. Skoullos, F. Oldfield, R. Thompson and K. Tolonel
Magnetic monitoring of particulate pollution.
Geophysical Journal of the Royal Astrophysics Society, 57, 279 (1979)
20. M. Scoullos, F. Oldfield and R. Thompson
Magnetic monitoring of marine particulate pollution in the Elefsis Gulf, Greece.
Marine Pollution Bulletin, 10, 287 (1979)
21. G. Pneumatikakis and P. Psaroulis
Interaction of tetra- μ -acetato dirhodium(II) with sulfur containing aminoacids.
Inorganica Chimica Acta, 46, 97 (1980)
22. G. Pneumatikakis
Palladium(II) and platinum(II) complexes with pentamethylenetetrazole and their interaction with nucleosides.
Inorganica Chimica Acta, 46, 243 (1980)
23. N. Hadjiliadis and G. Pneumatikakis
A study of the reactions of cysteinatometylester platinum(II)- μ -dichlorocysteinatometylester platinum(II) with nucleosides.
Inorganica Chimica Acta, 46, 255 (1980)
24. A. Petrou, E. Vrachnou-Astra, and D. Katakos
A new series of organochromium complexes formed in aqueous solutions.
Inorganica Chimica Acta, 39, 161 (1980)
25. P. G. Edwards, K. Mertis, and G. Wilkinson
Trirhenium(III) cluster alkyls. Synthesis of tertiary phosphine adducts: cleavage to rhenium(III) and (II) dimers, reactions with carbon monoxide, nitric oxide and hydrogen chloride. X-ray structural determination of hexamethyl-bis-(diethylphenylphosphine)- μ -trimethyl-triangulotrirhenium(III) and pentakis (trimethylsilylmethyl) trimethyl-silylmethyl-N-nitroso-hydroxylaminato)- μ -trichlorotriangulotrirhenium(III).
Journal of the Chemical Society, Dalton Transactions, 334 (1980)

26. K. Mertis, P. G. Edwards and G. Wilkinson
Interaction of hydrogen with hexakis(trimethylsilylmethyl)- μ -trichloro-tri-angulo-trirhenium(III); the x-ray crystal structure of nonakis(trimethylsilylmethyl)hydrido- μ -hexachloro-hexarhenium. New types of rhenium(III) alkyls.
Journal of Chemical Society, Chemical Communications, 654 (1980)
27. D. Katakis, J. Konstantatos, E. Vrachnou - Astra and N. Katsaros
Reduction of α -ketoacids by low-valent metal ions. (II) Reaction of pyruvic acid with aqueous V(II) ion.
Journal of American Chemical Society, 102, 3035 (1980)
28. N. Hadjiliadis and J. Markopoulos
Reactions of hydrogenated thiamine derivatives with K_2MX_4 , where M is Pt(II) or Pd(II) and X = Cl,Br.
Journal of Chemical Society, Dalton Transactions, 1635 (1981)
29. N. Hadjiliadis and J. Markopoulos
Vitamin B₁ (isolation, preparation, properties, mechanism of catalytic action).
Chimika Chonika (New Series), 10, 1 (1981)
30. A. Petrou, E. Vrachnou - Astra, J. Konstantatos, N. Katsaros and D. Katakis
Kinetics and mechanisms of aquation of some σ -bonded organochromium complexes.
Inorganic Chemistry, 20, 1091 (1981)
31. A. L. Petrou, F. A. Armstrong, A. G. Sykes, P. C. Harrington and R. G. Wilkins
Kinetics of the equilibration of oxygen with monomeric and octameric hemerythrin from *Themiste Zostericola*.
Biochimica Biophysica Acta, 670, 377 (1981)
32. M. Scoullos
Trace metals in the sea water of a polluted bay near Athens.
Mutation Research, 85, 247 (1981)
33. M. Scoullos
Zinc in sea water and sediments.
Water, Air, Soil Pollution, 16, 187 (1981)

LABORATORY OF INORGANIC CHEMISTRY

34. K. Mertis, P. G. Edwards and G. Wilkinson
The interaction of hydrogen with tri- μ -chloro-hexakis (trimethylsilyl-methyl)triangulo-trirhenium(III), its adducts with carbon monoxide, triphenylphosphines and pyridine and with tri- μ -chloro-chloropentakis-(trimethylsilylmethyl) triangulo-trirhenium(III). The x-ray crystal structures of hydridononakis (trimethylsilylmethyl)bis(tri- μ -chloro-triangulo-trirhenium)(III). Tri- μ -chloro-hydridotetrakis trimethylsilylmethyl (triphenylphosphine) triangulo-trirhenium(III) and syn,syn,-anti-trichlorotris-(μ -trimethylsilylmethyl)-triangulo-trirhenium(III).
Journal of Chemical Society, Dalton Transactions, 705, (1981)
35. G. Pneumatikakis, N. Hadjiliadis and R. Basosi
Gold complexes of purine and pyrimidine nucleosides.
Journal of Inorganic Biochemistry, 14, 115 (1981)
36. D. Katakis, J. Konstantatos, E. Vrachnou - Astra and N. Katsaros.
The kinetics and mechanism of the reaction of aqueous Eu(II) ion with pyruvic acid.
Inorganic Chemistry, 21, 122 (1982)
37. D. Katakis and Ch. Katakis
Teleonomic entropy in biopsychosocial systems.
Behavioral Science, 27, 118 (1982)
38. F. Piperaki, N. Katsaros and D. Katakis
The interaction of oxomolybdenum(IV) with nucleic acid bases and nucleosides.
Inorganica Chimica Acta, 67, 37 (1982)
39. G. Pneumatikakis, N. Hadjiliadis and S. Paraskevas
Platinum(II) and palladium(II) complexes of inosine, guanosine, xanthosine and their acetyl derivatives.
Chimika Chronika (New Series), 11, 11 (1982)
40. C. Chassapis and G. Pneumatikakis
1,10-Phenanthroline-N-oxide chelates with rare earth nitrates.
Inorganica Chimica Acta, 59, 49 (1982)
41. G. Pneumatikakis
Some reactions of *cis*-dichlorodiammine palladium(II) with nucleosides.
Inorganica Chimica Acta, 66, 131 (1982)

42. G. Kalantzis, J. Konstantatos, E. Vrachnou - Astra and D. Katakis
Dihydrogen evolution from aqueous vanadium(II) - cysteine solutions at pH = 6,0 - 9,5
Journal of American Chemical Society, 105, 2897 (1983)
43. G. Kalantzis, J. Konstantatos, E. Vrachnou - Astra and D. Katakis
Reductive desulfurization of mercaptoacetic acid.
Inorganic Chemistry, 22, 1924 (1983)
44. I. K. Adzamli, A. Petrou, A. G. Sykes, K. K. Rao and D. A. Hall
Kinetic studies on reactions of iron-sulfur proteins. Oxidation of the reduced form of *Spirulina Platensis* (2Fe-2S) ferredoxin with inorganic complexes.
Biochemistry Journal, 211, 219 (1983)
45. M. Scoullos and M. Dassenakis
Trace metals in a tidal Mediterranean embayment.
Marine Pollution Bulletin, 14, 1, 24 (1983)
46. J. Konstantatos, E. Vrachnou - Astra and D. Katakis
Reduction of pyruvate by titanium(III).
Inorganica Chimica Acta, 85, 41 (1984)
47. A. Yannopoulos and N. Hadjiliadis
Reaction of tetrahydrothiamine with HgX₂ (X=Cl, Br, I).
Inorganica Chimica Acta, 92, L23 (1984)
48. M. Scoullos and F. Oldfield
Particulate pollution monitoring in the Elefsis Gulf, Greece: the role of mineral magnetic studies.
Marine Pollution Bulletin, 15, 6, 229 (1984)
49. G. Pneumatikakis
Interactions of cysteinatometylester Pd(II) - μ -dichloro-cysteinato-methylester Pd(II) with nucleosides and AMP.
Inorganica Chimica Acta, 93, 5 (1984)
50. G. Pneumatikakis
Complexes of Pd(II) with L-proline. Mixed L-prolinato nucleoside complexes of Pd(II).
Polyhedron, 3, 9 (1984)

LABORATORY OF INORGANIC CHEMISTRY

51. D. Katakis, J. Konstantatos, G. Kalantzis and E. Vrachnou - Astra
A kinetic study of the complexation of cysteine and related compounds with V^{II}(aq) and V^{III}(aq) at pH's around neutral and the mediating role of sulfur compounds in electron transfer.
Journal of Chemical Society, Dalton Transactions, 2461 (1985)
52. J. Konstantatos, E. Vrachnou - Astra and D. Katakis
Formation and reactivity of some aqueous ion-radicals containing metals -to-carbon bonds.
Journal of Organometallic Chemistry, 279, 131 (1985)
53. E. Honzopoulos, J. Konstantatos, E. Vrachnou - Astra and D. Katakis
Homogeneous catalytic action of a nickel dithiolene complex leading to dihydrogen formation from N,N'-dimethyl-4,4'-dipyridinium radical ion solutions.
Journal of Molecular Catalysis, 31, 327 (1985)
54. E. Honzopoulos, E. Vrachnou - Astra, J. Konstantatos and D. Katakis
A new photosensitizer-catalyst for the photochemical cleavage of water.
Journal of Photochemistry, 30, 117 (1985)
55. G. D. Chryssikos, V. D. Mattera Jr., W. M. Risen Jr. and A. T. Tsatsas
Oxygen adsorption on silver polyfluorocarbon sulfonic acid (Nafion) films.
Journal of Catalysis, 93, 430 (1985)
56. M. Scoullos, A. Alexiou and Becacos-Kontos
Chlorophyll studies of a bay affected by sewage discharges.
Thalassia Jugoslavica, 21/22(1-2), 85 (1985/1986)
57. D. Katakis, E. Vrachnou - Astra and J. Konstantatos
The mechanism of hydrogenation by aqueous chromium(II) ion of the carbon-carbon double bond of olefinic compounds with polar substituents.
Journal of Chemical Society, Dalton Transactions, 1491 (1986)
58. D. Katakis and Ch. Katakis
Transferance and transformation of teleonomic entropy.
Behavioral Science, 31, 52 (1986)
59. J. Markopoulos, O. Markopoulou, D. Bethell and D. Nicholls
Hydrazone ligand derived from acyl and aroyl-ferrocenes and their complexes with cobalt(II) halides.
Inorganica Chimica Acta, 122, L15 (1986)

60. M. Scoullos and F. Oldfield
Trace metal and magnetic studies of sediments in Greek estuaries and enclosed gulfs.
Marine Chemistry, 18, 249 (1986)
61. M. Scoullos
Lead in coastal sediments; The case of Elefsis gulf.
The Science of the Total Environment, 49, 199 (1986)
62. C. Mertis, M. Kravaritou, A. Shehadeh and D. Katakis
Aqueous redox chemistry of dinuclear clusters. A mechanistic study of proton oxidative addition to the $\text{Mo}_2(\mu\text{-X})(\mu\text{-Cl})_2\text{Cl}_6^{3-}$, X = H, Cl, by aqueous Cr(II).
Polyhedron, 6, 1975 (1987)
63. J. A. Anten, D. Nicholls, J. Markopoulos and O. Markopoulou
Transition metal complexes of hydrazones derived from 1,4 diformyl and 1,4 diacetylbenzenes.
Polyhedron, 6, 1075 (1987)
64. G. Pneumatikakis, J. Markopoulos and A. Jannopoulos
Interaction of bis-[μ -chlorodicarbonylrhodium(I)] with nucleosides.
Inorganica Chimica Acta, 151, L25 (1987)
65. K. Mertis, M. Kravaritou, A. Shehadeh and D. Katakis
Aqueous redox chemistry of dinuclear clusters. A mechanistic study of proton oxidative addition to the $[\text{Mo}_2\text{Cl}_6]^{4-}$ ion and the homogeneous reduction of $[\text{Mo}_2(\mu\text{-X})(\mu\text{-Cl})_2\text{Cl}_6]^{3-}$; X = H, Cl by aqueous chromium(II).
Polyhedron, 6, 1975 (1987)
66. G. Pneumatikakis, A. Yannopoulos, J. Markopoulos and C. Angelopoulos
Monotheophylline and monotheophyllinato complexes of palladium(II) and their interactions with nucleosides.
Inorganica Chimica Acta, 152, 101 (1988)
67. G. Pneumatikakis, A. Yannopoulos and J. Markopoulos
Interactions of dichloro-bis-[n_5 -cyclopentadienyl] titanium(IV) with nucleosides.
Inorganica Chimica Acta, 151, 125 (1988)

68. G. Pneumatikakis, A. Yannopoulos and J. Markopoulos
Interactions of bis-[μ -chloro-triacarbonylruthenium(II)] and poly-[μ -dichlorodicarbonylruthenium(II)] with nucleosides.
Inorganica Chimica Acta, **151**, 243 (1988)
69. D. Katakis, G. Kalantzis, E. Vrachnou and J. Konstantatos
A mechanistic study of the reduction of cysteine by vanadium(II) in the pH range from 7.5 to 12.
Inorganica Chimica Acta, **151**, 191 (1988)
70. D. Katakis
Mechanisms of homogeneous stoichiometric, catalytic and photocatalytic dihydrogen formation using thiocomplexes.
Pure and Applied Chemistry, **60**, 1285 (1988)
71. B.-L. Ooi, A. Petrou and A. G. Sykes
Substitution and redox properties of the trimeric incomplete cuboidal W(IV) aqua ion: $[W_3O_4(H_2O)_9]^{4+}$: Comparisons with $[Mo_3O_4(H_2O)_9]^{4+}$.
Inorganic Chemistry, **27**, 3626 (1988)
72. N. Hadjiliadis, A. Yannopoulos and R. Bau
Complexes of mercury(II) with thiamine.
Inorganica Chimica Acta, **69**, 109 (1988)
73. R. Bau, Yun-Soo Hyun, John Lim, Hok-Kin Choi, A. Yannopoulos and N. Hadjiliadis
The crystal stucture of tetrahydrothiamine and its Co(II) complexes.
Inorganica Chimica Acta, **150**, 107 (1988)
74. D. Katakis, K. Chassapis and K. Angelopoulos
Studies of low rank Greek coals. (I) Classification.
International Journal of Coal Geology, **11**, 305 (1989)
75. G. Pneumatikakis, A. Yannopoulos and J. Markopoulos
Mono-vitamin B₆ complexes of palladium(II) and their interaction with nucleosides.
Journal of Inorganic Biochemistry, **37**, 17 (1989)
76. N. Hadjiliadis, A. Yannopoulos, E. de Grave and R. Bau
Complexes of tetrahydrothiamine and its phosphate esters with chromium(III), iron(III), cobalt(II), nickel(II) and copper(II).
Bulletin des Sociétés Chimiques Belges, **98**, 223 (1989)

77. K. Mertis and N. Psaroudakis
Homogeneous catalytic hydrogen formation using a ditungsten cluster
and low valency metal ions in aqueous acidic solutions.
Polyhedron, 8, 469 (1989)
78. M. Scoullos and J. Hadjianestis
Dissolved and particulate trace metals in a wetland of international
importance: Lake Prespa, Greece.
Water, Air, Soil Pollution, 44, 307 (1989)
79. Kalogeropoulos, M. Scoullos, M. Vassilaki and A. Grimanis
Vanadium in particles and sediments of the Saronikos Gulf, Greece.
The Science of the Total Environment, 79, 241 (1989)

ΕΡΓΑΣΤΗΡΙΟ ΑΝΑΛΥΤΙΚΗΣ ΧΗΜΕΙΑΣ
LABORATORY OF ANALYTICAL CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες
Ph. D. and Dozent Theses

1. Δ. Π. Νικολέλης

Φασματοφωτομετρική μελέτη αντιδράσεων υπεριωδικών ιόντων.
Εφαρμογαί εις κινητικούς και καταλυτικούς προσδιορισμούς.
Διδακτορική διατριβή, 1977

D. P. Nikolelis

Spectrophotometric study of periodate reactions. Applications to kinetic
and catalytic determinations.

Ph. D. Thesis, 1977

2. Μ. Α. Κουππάρης

Κατασκευή - μελέτη χαρακτηριστικών και αναλυτικαί εφαρμογαί εκλεκτικού ηλεκτροδίου χλωραμίνης-Τ.

Διδακτορική διατριβή, 1978

M. A. Koupparis

Construction - characteristics study and analytical applications of the
chloramine-T selective electrode.

Ph. D. Thesis, 1978

3. Λ. Α. Λαζάρου

Συμβολή στη χημεία των υπερβρωμικών - αναλυτικές εφαρμογές.

Διδακτορική διατριβή, 1978

L. A. Lazarou

Contribution to perbromate chemistry - analytical applications.

Ph. D. Thesis, 1978

4. Ε. Φ. Διαμαντής

Κατασκευή, μελέτη χαρακτηριστικών και εφαρμογές του εκλεκτικού ηλεκτροδίου πικρικών στη χημική ανάλυση.

Διδακτορική διατριβή, 1979

E. F. Diamandis

Construction, characteristics study and applications of the picrate selective electrode in chemical analysis.

Ph. D. Thesis, 1979

5. **M. M. Τιμοθέου-Ποταμιά**

Καταλυτικά ποτενσιομετρικά ογκομετρήσεις ιόντων και αμινοπολυκαρβονικών οξέων.

Διδακτορική διατριβή, 1981

M. M. Timotheou - Potamia

Catalytic potentiometric titrations of ions and aminopolycarbonic acids.

Ph. D. Thesis, 1981

6. **K. H. Ευσταθίου**

Κατασκευή και εφαρμογές προγραμματιζόμενης ποτενσιομετρικής διατάξεως.

Διατριβή για Υφηγεσία, 1981

C. E. Efstathiou

Construction and applications of a programmable potentiometric system.

Dozent Thesis, 1981

7. **A. Παπαναστασίου-Διαμαντή**

Ενζυμικές φθορισμομετρικές μέθοδοι αναλύσεως χολικών οξέων σε βιολογικά υγρά και μικροπροσδιορισμός υδραργύρου.

Διδακτορική διατριβή, 1982

A. Papanastasiou-Diamandis

Enzymic fluorometric methods for the analysis of bile acids in biological fluids and microdetermination of mercury.

Ph. D. Thesis, 1982

8. **B. H. Χαρτοφύλαξ**

Εφαρμογές του εκλεκτικού ηλεκτροδίου υπεριωδικών σε κινητικά συστήματα αναλύσεως.

Διδακτορική διατριβή, 1982

V. H. Hartofylax

Applications of the periodate ion-selective electrode to kinetic systems of analysis.

Ph. D. Thesis, 1982

9. Π. Κ. Γκριτζάπης

Κατασκευή - μελέτη χαρακτηριστικών και εφαρμογών εκλεκτικών ηλεκτροδίων: 3,5-δινιτρο-σαλικυλικού οξέος, 4-(2'-πυριδιλαζω)-ρεσορκίνης και χρωμικού οξέος.

Διδακτορική διατριβή, 1982

P. K. Gritsapis

Construction - characteristics study and applications of the 3,5-dinitrosalicylate 4-(2'-pyridilazo)-resorcinate and chromate ion-selective electrodes in chemical analysis.

Ph. D. Thesis, 1982

10. Ε. Γ. Σαραντώνης

Κατασκευή - μελέτη χαρακτηριστικών και αναλυτικές εφαρμογές του εκλεκτικού ηλεκτροδίου τρινιτροβενζολοσουλφονικού οξέος.

Διδακτορική διατριβή, Πανεπιστήμιο Ιωαννίνων, 1982

E. G. Sarantonis

Construction and analytical applications of a liquid membrane electrode for trinitrobenzene sulfonic acid.

Ph. D. Thesis, University of Ioannina (Greece) 1982

11. Π. Ι. Αναγνωστοπούλου

Ανάπτυξη αυτοματοποιημένων μεθόδων αναλύσεως με την τεχνική εισαγωγής δειγμάτος σε ροή.

Διδακτορική διατριβή, 1986

P. I. Anagnostopoulou

Development of spectrophotometric methods of analysis using the flow injection technique.

Ph. D. Thesis, 1986

12. Θ. Κ. Χριστόπουλος

Εφαρμογές των εκλεκτικών ηλεκτροδίων σε μελέτες αλληλεπίδρασης διαφόρων ιόντων με την αλβουμίνη.

Διδακτορική διατριβή, 1986

T. K. Christopoulos

Applications of selective electrodes in interaction studies of various ions with albumin.

Ph. D. Thesis, 1986

13. **A. Μητσανά-Παπάζογλου**
Νέοι ποτενσιομετρικοί ανιχνευτές με εφαρμογές στη φαρμακευτική ανάλυση
Διδακτορική διατριβή, 1986
A. Mitsana-Papazoglou
New potentiometric sensors with applications to pharmaceutical analysis.
Ph. D. Thesis, 1986
14. **E. Αθανασίου-Μαλάκη**
Κινητική μελέτη και αναλυτικές εφαρμογές αντιδράσεων 2,4-δινιτρο-φθοροβενζολίου με χρήση εικλεκτικού ηλεκτροδίου φθοριούχων.
Διδακτορική διατριβή, 1987
E. Athanasiou-Malaki
Kinetic study and analytical applications of 2,4-dinitro-fluorobenzene reactions using a fluoride electrode.
Ph. D. Thesis, 1987
15. **N. Δ. Γραϊκας**
Αναλυτικές εφαρμογές μοριακής εκπομπής από κοιλότητα.
Διδακτορική Διατριβή, 1988
N. D. Grekas
Analytical applications of molecular emission cavity analysis.
Ph. D. Thesis, 1988
16. **E. Σ. Λιανίδου**
Κινητική μελέτη και αναλυτικές εφαρμογές ενζυμικών συστημάτων για τον προσδιορισμό χολικών οξέων σε βιολογικά υγρά.
Διδακτορική διατριβή, 1988
E. S. Lianidou
Kinetic study and analytical applications of enzymatic systems for the determination of bile acids in biological fluids.
Ph. D. Thesis, 1988
17. **Σ. Β. Ψαρουδάκης**
Κατασκευή διατάξεως αναδιαλυτικής ποτενσιομετρίας ελεγχόμενης από μικρούπολογιστή. Γενικές μελέτες στη μέθοδο και αναλυτικές εφαρμογές.
Διδακτορική διατριβή, 1988

S. V. Psaroudakis

Construction of a microcomputer-controlled system for stripping potentiometry. General studies and analytical applications.

Ph. D. Thesis, 1988

18. I. Γ. Πένταρη

Μέτρηση χαρακτηριστικών ποιότητας εκλεκτικών ηλεκτροδίων ιόντων και κινητικές αναλύσεις με διατάξεις ελεγχόμενες από μικρούπολογιστές.

Διδακτορική διατριβή, 1989

J. G. Pentari

Evaluation of quality characteristics of ion-selective electrodes and kinetic analyses with systems controlled by microcomputers.

Ph. D. Thesis, 1989

19. I. I. Κούκλη

Αναλυτικές εφαρμογές χημειοφωταύγειας από αναγωγή τετρασθενούς δημητρίου.

Διδακτορική διατριβή, 1989

I. I. Koukli

Analytical applications of chemiluminescence by reduction of tetravalent cerium.

Ph. D. Thesis, 1989

20. Λ. Γ. Βύρας

Παρακολούθηση της ατμοσφαιρικής ρύπανσης της ευρύτερης περιοχής Αθηνών από πολυκυκλικούς αρωματικούς υδρογονάνθρακες.

Διδακτορική διατριβή, ΠΕΡΠΑ και Τμήμα Χημείας, 1989

L. G. Viras

Monitoring of air pollution of greater Athens area caused by polycyclic aromatic hydrocarbons.

Ph. D. Thesis, 1989

B. Πρωτότυπες ερευνητικές εργασίες
Published research papers

1. D. P. Nikolelis and T. P. Hadjioannou
Kinetic microdetermination of manganese in nonferrous alloys and of nitrilotriacetic acid, ethylenediaminetetraacetic acid, and diethylenetri-aminepentaacetic acid.
Analytical Chemistry, 50, 205 (1978)
2. D. P. Nikolelis and T. P. Hadjioannou
Kinetic microdetermination of manganese in natural waters and of osmium and ethylenediaminetetraacetic acid.
Analytica Chimica Acta, 97, 111 (1978)
3. D. P. Nikolelis, P. S. Papastathopoulos and T. P. Hadjioannou
A simple potentiometric method for the determination of reducing substances in urine with a copper-selective electrode.
Analytica Chimica Acta, 98, 227 (1978)
4. D. P. Nikolelis and H. A. Mottola
Repetitive determination of amylase, maltose, sucrose and lactose by sample injection in closed flow-through systems.
Analytical Chemistry, 50, 1665 (1978)
5. L. A. Lazarou and T. P. Hadjioannou
Kinetic study of the iron(II)-induced perbromate-tartaric acid reaction with a perbromate-selective electrode. Determination of tartaric acid.
Analytica Chimica Acta, 100, 207 (1978)
6. L. A. Lazarou and T. P. Hadjioannou
Construction of a new perbromate-selective electrode. Kinetic study of the iron(II) - perbromate reaction and microdetermination of iron.
Analytical Letters, A11(10), 779 (1978)
7. D. P. Nikolelis and T. P. Hadjioannou
Ultramicrodetermination of iridium by an automatic reaction rate method.
Microchimica Acta, I, 383 (1978)
8. D. P. Nikolelis and T. P. Hadjioannou
Kinetic ultramicrodetermination of chromium(III) and osmium(VIII) based on their accelerating effect on the periodate - arsenite reaction.
Microchimica Acta, II, 105 (1978)

LABORATORY OF ANALYTICAL CHEMISTRY

9. M. A. Koupparis and T. P. Hadjioannou
Kinetic determination of iodide and osmium(VIII) with a chloramine-T selective electrode.
Analytica Chimica Acta, 96, 31 (1978)
10. T. M. Athanassouli and D. S. Papastathopoulos
A laboratory evaluation of fluoride dentifrices used in Greece.
Community Dentistry and Oral Epidemiology, 6, 185 (1978)
11. M. A. Koupparis and T. P. Hadjioannou
Use of chloramine-T selective electrode in the kinetic microdetermination of iodide by means of its catalytic effect on the chloramine-T - hydrogen peroxide reaction.
Microchimica Acta, II, 267 (1978)
12. M. A. Koupparis and T. P. Hadjioannou
Evaluation of the chloramine-T membrane electrode response in acidic solutions. The determination of the pKa of N-chloro-p-toluenesulfonamide (chloramine-T acid).
Microchemical Journal, 23, 178 (1978)
13. T. P. Hadjioannou, M. A. Koupparis and E. P. Diamandis
New chloramine-T and picrate ion-selective electrodes.
Proceedings of the Analytical Division of the Chemical Society, 15, 78 (1978)
14. M. A. Koupparis and T. P. Hadjioannou
Indirect potentiometric determination of hydrazine, isoniazid, sulphide and thiosulphate with a chloramine-T ion-selective electrode.
Talanta, 25, 477 (1978)
15. E. Piperaki, H. Berndt and E. Jackwerth
Investigations on the sorption of metal chelates on activated carbon.
Analytica Chimica Acta, 100, 589 (1978)
16. S. A. Al-Tamrah, R. Belcher, S. L. Bogdanski, A. C. Calokerinos and A. Townshend
Molecular emission cavity analysis, part 13: Indirect determination of some aliphatic amines and aminoacids.
Analytica Chimica Acta, 105, 433 (1979)

17. M. A. Koupparis, C. E. Efstathiou and T. P. Hadjioannou
Kinetic determination of formaldehyde and hexamethylenetetramine with a cyanide-selective electrode.
Analytica Chimica Acta, 107, 91 (1979)
18. C. E. Efstathiou and T. P. Hadjioannou
Potentiometric titration of fluoride, chromate, molybdate, tungstate, oxalate, phosphate, pyrophosphate and hexacyanoferrate(II) ions with lead(II) solutions and a fluoride-selective electrode.
Analytica Chimica Acta, 109, 319 (1979)
19. C. E. Efstathiou, E. Cordos and H. V. Malmstadt
Multisample rotating-disc module for spectrometric analytical methods.
Analytical Chemistry, 51, 58 (1979)
20. L. Lazarou and T. P. Hadjioannou
Kinetic determination of citric acid with a perbromate ion selective electrode.
Analytica Chimica Acta, 108, 375 (1979)
21. L. A. Lazarou and T. P. Hadjioannou
Kinetic study of the iron(II) - induced perbromate-iodide reaction with an iodide ion selective electrode. Kinetic determination of iron, perbromate, ethylenediaminetetraacetic acid, diethylenetriaminepentaacetic acid, and ethyleneglycol-bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid.
Analytical Chemistry, 51, 740 (1979)
22. D. P. Nikolelis, C. E. Efstathiou and T. P. Hadjioannou
Assay of nicotinamide in multivitamin preparations using an ammonia gas-sensing electrode.
Analyst, 104, 1181 (1979)
23. L. A. Lazarou and T. P. Hadjioannou
Kinetic study of the iron(II)-induced perbromate-lactic acid reaction with a perbromate electrode.
Analytical Letters, 12(A7), 725 (1979)
24. D. P. Nikolelis and T. P. Hadjioannou
Determination of amygdalin in blood serum.
Analytical Letters, 12(B11), 1169 (1979)

LABORATORY OF ANALYTICAL CHEMISTRY —————

25. C. E. Efstatou and H. V. Malmstadt
Microcomputer-controlled multisample rotating-disc colorimeter.
American Laboratory, **11**, 9 (1979)
26. M. A. Koupparis, K. Walczak and H. V. Malmstadt
Corticosteroid determination in skin preparations by a reaction rate method.
Journal of Pharmaceutical Sciences, **68**, 1479 (1979)
27. D. S. Papastathopoulos, E. P. Diamandis and T. P. Hadjioannou
Flow-through electrode unit for liquid membrane-electrodes.
Analytical Chemistry, **52**, 2100 (1980)
28. D. P. Nikolelis and H. A. Mottola
The peroxidase - catalyzed oxidation of NADH as an indicator reaction for repetitive determination by sample injection in closed flow-through systems: The determination of LDH in blood serum.
Analytical Biochemistry, **97**, 255 (1979)
29. E. P. Diamandis, C. E. Efstatou and T. P. Hadjioannou
Automatic determination of ethylene glycol in anti-freeze solutions with a periodate-sensitive flow-through electrode
Analyst, **105**, 1203 (1980)
30. P. A. Siskos, S. Tzouwara and S. Philianos
Spectrofluorimetric determination of Michaelis-Menten constants of bile acids with β -NAD⁺ and 3 α -hydroxysteroid dehydrogenase.
Analytical Letters, **13(B13)**, 1589 (1980)
31. E. P. Diamandis and T. P. Hadjioannou
Analytical study of new creatininium and tetramethylammonium cation selective membrane electrodes.
Analytical Letters, **13(B15)**, 1317 (1980)
32. E. P. Diamandis and T. P. Hadjioannou
Titrimetric determination of iodide, hexacyanoferrate(II), thiourea, cationic surfactants, and of picrate with a picrate ion-selective electrode.
Microchimica Acta, **II**, 27 (1980)
33. M. A. Koupparis, K. Walczak and H. V. Malmstadt
A compact automated microprocessor-based stopped-flow analyser.
Journal of Automatic Chemistry, **2**, 66 (1980)

34. D. S. Papastathopoulos and M. I. Karayannis
Construction and evaluation of a solid-state iodide selective electrode:
A chemical instrumentation laboratory experiment.
Journal of Chemical Education, 57, 904 (1980)
35. M. A. Koupparis, K. Walczak and H. V. Malmstadt
An automated stopped-flow/ unsegmented solution-storage analyser.
American Laboratory, 12, 27 (1980)
36. E. P. Diamandis and T. P. Hadjiiioannou
Potentiometric determination of some common alkaloids with a picrate
ion-selective electrode.
Analytica Chimica Acta, 123, 341 (1981)
37. E. P. Diamandis and T. P. Hadjiiioannou
Catalytic determination of selenium with a picrate ion-selective elec-
trode.
Analytica Chimica Acta, 123, 143 (1981)
38. D. P. Nikolelis, D. S. Papastathopoulos and T. P. Hadjiiioannou
Construction of a guanine enzyme electrode and determination of
guanase in human blood serum with an ammonia gas sensor.
Analytica Chimica Acta, 126, 43 (1981)
39. P. C. Gritsapis and T. P. Hadjiiioannou
Development and analytical applications of a new liquid-membrane
3,5-dinitrosalicylate selective electrode.
Analytica Chimica Acta, 126, 51 (1981)
40. C. E. Efsthathiou, E. P. Diamandis and T. P. Hadjiiioannou
Potentiometric determination of nicotine in tobacco products with a
nicotine-sensitive liquid membrane electrode.
Analytica Chimica Acta, 127, 173 (1981)
41. R. Belcher, S. L. Bogdanski, A. C. Calokerinos and A. Townshend
Determination of ammonium- and nitrate-nitrogen by molecular emission
cavity analysis.
Analyst, 106, 625 (1981)
42. C. E. Efsthathiou, D. S. Papastathopoulos and T. P. Hadjiiioannou
A digital "sample-wash timer" for the Technicon Sampler II.
*Chemical, Biomedical and Environmental Instrumentation, 11(1), 49
(1981)*

43. E. P. Diamandis, E. Athanasiou-Malaki, D. S. Papastathopoulos and T. P. Hadjioannou
Construction and analytical applications of liquid membrane electrodes for atropine and novatropine.
Analytica Chimica Acta, 128, 239 (1981)
44. E. P. Diamandis, D. S. Papastathopoulos and T. P. Hadjioannou
Continuous-flow serum albumin determination by reaction with picrate ions, with use of a flow-through picrate ion electrode.
Clinical Chemistry, 27, 427 (1981)
45. E. P. Diamandis and T. P. Hadjioannou
Kinetic-potentiometric determination of creatinine in serum with a picrate ion-selective electrode.
Clinical Chemistry, 27, 455 (1981)
46. D. I. Souganidis, T. M. Athanassouli and D. S. Papastathopoulos
A study of in vivo fluoride uptake by dental tissues from fluoride-containing silver amalgams.
Journal of Dental Research, 60, 105 (1981)
47. M. I. Karayannis and P. A. Siskos
Stopped-flow kinetic studies of the coupled dichlorophenol-indophenol-nicotinamide adenine dinucleotide reaction.
Analytica Chimica Acta, 136, 339 (1982)
48. M. A. Koupparis and M. I. Karayannis
A kinetic study of the permanganate - oxalate reaction and kinetic determination of Mn(II) and oxalic acid by the stopped-flow technique.
Analytica Chimica Acta, 138, 303 (1982)
49. M. A. Koupparis, K. Walczak and H. V. Malmstadt
Automated determination of nitrate in waters with a reduction column in a microcomputer based stopped-flow analyser.
Analytica Chimica Acta, 142, 119 (1982)
50. T. Christopoulos, E. P. Diamandis and T. P. Hadjioannou
Potentiometric titration of organic cations with sodium tetraphenylborate and a liquid-membrane tetraphenylborate ion-selective electrode.
Analytica Chimica Acta, 143, 143 (1982)

51. C. E. Efstatiou and T. P. Hadjiioannou
Monte Carlo simulation for the study of error propagation in the double known addition method with ion-selective electrodes.
Analytical Chemistry, 54, 1525 (1982)
52. C. E. Efstatiou, D. P. Nikolelis and T. P. Hadjiioannou
Rate study of the alkaline hydrolysis of nicotinamide using an ammonia gas-sensing electrode.
Analytical Letters, 15(A14), 1179 (1982)
53. S. L. Bogdanski, A. C. Calokerinos and A. Townshend
Spectral studies in molecular emission cavity analysis.
Canadian Journal of Spectroscopy, 27, 10 (1982)
54. M. A. Koupparis and H. V. Malmstadt
Determination of water by an automated stopped-flow analyzer with pyridine-free two component Karl Fischer reagent.
Analytical Chemistry, 54, 1914 (1982)
55. M. A. Koupparis, K. M. Walczak and H. V. Malmstadt
Kinetic determination of nitrite in waters by using a stopped-flow analyser.
Analyst, 107, 1309 (1982)
56. E. P. Diamandis, C. E. Efstatiou and T. P. Hadjiioannou
Stability of the composite solution [Mercury(II)-TPTZ-Iron(II)] used for the automated determination of serum chloride.
Clinical Chemistry, 28, 254 (1982)
57. M. A. Koupparis, E. P. Diamandis and H. V. Malmstadt
Total calcium and magnesium determined in serum with an automated stopped-flow analyzer.
Clinical Chemistry, 28, 2149 (1982)
58. M. M. Timotheou-Potamia, M. A. Koupparis and T. P. Hadjiioannou
Semi-automatic catalytic titration of some aminopolycarboxylic acids, copper(II) and cobalt(II).
Microchimica Acta, II, 433 (1982)
59. E. P. Diamandis and T. P. Hadjiioannou
Continuous-flow potentiometric determination of creatinine in urine with a picrate ion-selective electrode.
Microchemical Journal, 27, 512 (1982)

60. L. A. Lazarou, E. P. Diamandis and T. P. Hadjioannou
Spectrophotometric study of the iron(II) - induced perbromate - iodide reaction. Automatic reaction-rate method for the ultramicrodetermination of iron.
Chimika Chronika (New Series), **11**, 3 (1982)
61. E. P. Diamandis and T. P. Hadjioannou
Continuous-flow determination of reducing sugars and sucrose in industrial products with periodate oxidation and a periodate-sensitive flow-through electrode.
Analyst, **107**, 1471 (1982)
62. I. K. Τριανταφυλλίδης, Α. Παπαναστασίου, Π. Σίσκος, Ο. Μανούσος, Δ. Κολοκυθάς, Α. Ζερβακάκης, Δ. Τσαντούλας και Μ. Τηλιακός
Η διαγνωστική αξία του προσδιορισμού των χολικών οξέων (ολικών - επί μέρους) του ορού σε παθήσεις ήπατος, χοληφόρων, παγκρέατος.
Αρχεία Ιατρικών Εταιρειών, **8**(4), 438 (1982)
63. S. L. Bogdanski, A. C. Calokerinos and A. Townshend
A device for molecular emission cavity analysis.
International Laboratory, **12**, 60 (1982)
64. A. C. Calokerinos and A. Townshend
Improved procedure for the determination of sulphite using a new MECA photometer.
Fresenius Zeitschrift für Analytische Chemie, **311**, 214 (1982)
65. D. P. Nikolelis, C. E. Efstathiou and T. P. Hadjioannou
Potentiometric determination of certain α -aminohydroxy compounds by using an ammonia gas-sensing electrode.
Talanta, **29**, 911 (1982)
66. D. P. Nikolelis and T. P. Hadjioannou
Construction of an arginine enzyme electrode and determination of arginine in biological materials.
Analytica Chimica Acta, **147**, 22 (1983)
67. A. C. Calokerinos and T. P. Hadjioannou
The S_2 calibration curve obtained by using molecular emission cavity analysis.
Analytica Chimica Acta, **148**, 277 (1983)

68. A. C. Calokerinos, M. M. Timotheou-Potamia, E. G. Sarantonis and T. P. Hadjioannou
Indirect potentiometric determination of sulphide with a cadmium ion-selective electrode.
Analytica Chimica Acta, 151, 85 (1983)
69. E. P. Diamandis, C. E. Efstathiou, D. S. Papastathopoulos and T. P. Hadjioannou
Continuous-flow determination of reducing sugars in serum by reaction with periodate ions, with use of a flow-through periodate-sensitive electrode.
Microchemical Journal, 28, 227 (1983)
70. E. P. Diamandis and T. K. Christopoulos
Potentiometric titrations of pharmaceutical compounds in formulations with sodium tetraphenylborate.
Analytica Chimica Acta, 152, 281 (1983)
71. J. G. Pentari and C. E. Efstathiou
Construction, characteristics and applications of dichloroacetate - selective electrode in the determination of chloramphenicol in pharmaceuticals.
Analytica Chimica Acta, 153, 161 (1983)
72. C. E. Efstathiou
Automated determination of detection limits and selectivity coefficients of ion-selective electrodes by using a microcomputer-controlled potentiometric system.
Analytica Chimica Acta, 154, 41 (1983)
73. E. G. Sarantonis and M. I. Karayannis
Construction and analytical applications of liquid membrane electrode for trinitrobenzenesulphonic acid.
Analytical Biochemistry, 130, 177 (1983)
74. M. M. Timotheou-Potamia, M. A. Koupparis and T. P. Hadjioannou
Evaluation of a chloramine-T - selective electrode for the catalytic titration of silver and mercury(II) based on iodide - catalyzed chloramine-T reactions.
Microchemical Journal, 28, 392 (1983)

LABORATORY OF ANALYTICAL CHEMISTRY _____

75. D. P. Nikolelis and T. P. Hadjioannou
Construction of N-acetyl-L-methionine electrode and determination of acylase with ammonia gas sensor.
Analytical Letters, 16(B5), 401 (1983)
76. C. E. Efstathiou, M. A. Koupparis and T. P. Hadjioannou
A low-cost variable-time ratemeter for reaction rate methods.
Chemical, Biomedical and Environmental Instrumentation, 12(4), 215 (1983)
77. M. M. Timotheou-Potamia and T. P. Hadjioannou
Catalytic titrimetric determination of iodide in table salts.
Microchimica Acta, II, 59 (1983)
78. C. E. Efstathiou, A. V. Mitsana-Papazoglou and T. P. Hadjioannou
A sensitive spot test for the detection of sodium based on the fluorescence of sodium-zinc-uranyl acetate.
Microchemical Journal, 28, 341 (1983)
79. E. P. Diamandis and T. P. Hadjioannou
Study of the stoichiometry and the kinetics of the Jaffé reaction with a picrate ion - selective electrode.
Microchemical Journal, 28, 399 (1983)
80. A. C. Calokerinos and T. P. Hadjioannou
Direct potentiometric titration of thiosulfate, thiourea, and ascorbic acid with iodate using an iodide ion - selective electrode.
Microchemical journal, 28, 464 (1983)
81. C. E. Efstathiou and T. P. Hadjioannou
Kinetic detection of the end-point in titrations involving slow reactions.
Direct titration of polyhydroxy-compounds with periodate.
Talanta, 30, 154 (1983)
82. P. A. Siskos, E. P. Diamandis, E. Gillieron, J. C. Colbert
Potentiometric titrations of sulfate - sulfide - dithionate mixtures using lead electrode.
Talanta, 30, 980 (1983)
83. A. Papanastasiou-Diamandis, P. A. Siskos and E. P. Diamandis
A direct determination of lactate in plasma.
Clinica Chimica Acta, 129, 359 (1983)

84. A. Papanastasiou-Diamandis, E. P. Diamandis and P. A. Siskos
Direct enzymic fluorimetric method for the determination of individual
bile acids in bile.
Clinica Chimica Acta, 134, 17 (1983)
85. M. A. Koupparis, E. P. Diamandis and H. V. Malmstadt
Automated determination of crude protein, phosphorus, calcium, iron,
and magnesium in feeds with a stopped-flow analyser.
Journal of Association of Official Analytical Chemists, 66, 188 (1983)
86. E. P. Diamandis, M. A. Koupparis and T. P. Hadjioannou
Kinetic studies with ion selective electrodes: Determination of crea-
tinine with a picrate ion selective electrode. A laboratory experiment.
Journal of Chemical Education, 60, 74 (1983)
87. T. M. Athanassouli, D. S. Papastathopoulos and A. X. Apostolopoulos
Dental caries and strontium concentration in drinking water and surface
enamel.
Journal of Dental Research, 62, 989 (1983)
88. A. Papanastasiou-Diamandis, P. A. Siskos and T. P. Hadjioannou
Enzymatic fluorimetric determination of cholic acid and chenodeoxy-
cholic acid in aqueous solutions and blood serum using a differential
kinetic method.
Analytica Chimica Acta, 157, 125 (1984)
89. A. C. Calokerinos and T. P. Hadjioannou
The determination of inorganic phosphorus compounds by using mole-
cular emission cavity analysis.
Analytica Chimica Acta, 157, 171 (1984)
90. P. Ioannou and P. A. Siskos
Fluorimetric kinetic studies and sub- μ M determination of aluminum ion
with 2-hydroxy-1-naphthaldehyde p-methoxy-benzoylhydrazone.
Talanta, 31, 253 (1984)
91. A. Papanastasiou-Diamandis, P. A. Siskos, I. K. Triantafilidis and T. P.
Hadjioannou
Enzymic fluorimetric determination of total, primary, and individual
bile acids in serum.
Analytica Chimica Acta, 160, 243 (1984)

LABORATORY OF ANALYTICAL CHEMISTRY

92. P. A. Siskos, N. C. Peterson and R. E. Huie
The kinetics of the manganese(III) - sulfur(IV) reaction in aqueous perchloric acid solutions.
Inorganic Chemistry (USA), 23(8), 1134 (1984)
93. E. M. Athanasiou-Malaki and M. A. Koupparis
Indirect potentiometric determination of α -aminoacids with a copper selective electrode. Determination of dopa and methyldopa in pharmaceutical preparations.
Analytica Chimica Acta, 161, 349 (1984)
94. M. A. Koupparis, P. Macheras and C. Reppas
Application of automated flow injection analysis (FIA) to dissolution studies.
International Journal of Pharmaceutics, 19, 339 (1984)
95. E. P. Diamandis, G. Ellis, D. Daneman and L. C. Allen
Liquid chromatography of glycated hemoglobin with the Dawichi HA-8110 automated analyzer.
Clinical Chemistry, 30, 503 (1984)
96. M. A. Koupparis and P. Anagnostopoulou
An automated microprocessor-based spectrophotometric flow-injection analyser.
Journal of Automatic Chemistry, 6, 186 (1984)
97. S. J. Soldin, A. Papanastasiou-Diamandis, J. Heyes, C. Lingwood and P. Olley
Are immunoassays for digoxin reliable?
Clinical Biochemistry, 17, 317 (1984)
98. D. P. Nikolelis
Kinetic determination of L-alanine and L-alanine dehydrogenase with an ammonia gas-sensing electrode.
Analytica Chimica Acta, 167, 381 (1985)
99. V. H. Hartofylax and C. E. Efstathiou
Kinetic determination of glycerol in soaps and of alkanine phosphatase activity in serum with a periodate-selective electrode.
Analytica Chimica Acta, 167, 375 (1985)

100. P. C. Gritsapis, C. E. Efstathiou and T. P. Hadjioannou
Construction, assessment, and applications of a dichromate - selective liquid membrane electrode based on tetrapentyl-ammonium dichromate.
Analytica Chimica Acta, 171, 165 (1985)
101. M. M. Timotheou-Potamia, E. G. Sarantonis, A. C. Calokerinos and T. P. Hadjioannou
Catalytic - kinetic potentiometric determination of thyroxine.
Analytica Chimica Acta, 171, 363 (1985)
102. N. Grekas and A. C. Calokerinos
Continuous flow molecular emission cavity analysis of sulphide.
Analytica Chimica Acta, 173, 311 (1985)
103. N. Grekas and A. C. Calokerinos
Continuous flow molecular emission cavity analysis of sulphite and sulphur dioxide.
Analyst, 110, 335 (1985)
104. A. V. Mitsana-Papazoglou, T. K. Christopoulos, E. P. Diamandis, T. P. Hadjioannou
Construction of ion-selective electrodes for chlorpromazine, amitriptyline, propantheline, and meperidine: Analytical study and application to pharmaceutical analysis.
Analyst, 110, 1091 (1985)
105. T. K. Christopoulos, A. V. Mitsana-Papazoglou and E. P. Diamandis
Ion-selective electrodes for the determination of ionisation constants of sparingly soluble organic bases in aqueous solutions: Applications to chlorpromazine and amitriptyline.
Analyst, 110, 1497 (1985)
106. G. A. Rechnitz, M. Saffran and D. S. Papastathopoulos
Enzyme electrode for adenosine 3',5'-cyclic - monophosphate.
Analytical Sciences, 1, 459 (1985)
107. E. P. Diamandis, A. Papanastasiou-Diamandis, T. K. Christopoulos and T. P. Hadjioannou
Continuous-flow potentiometric determination of α -amylase activity in serum and urine.
Microchemical Journal, 32, 183 (1985)

LABORATORY OF ANALYTICAL CHEMISTRY

108. M. A. Koupparis, E. P. Diamandis and H. V. Malmstadt
Automated stopped-flow analyser in clinical chemistry: Determination of albumin with bromcresol green and purple.
Clinica Chimica Acta, 149, 225 (1985)
109. A. Papanastasiou-Diamandis and P. A. Siskos
Microdetermination of mercury by its inhibition of 3 α -hydroxy steroid dehydrogenase.
Microchemical Journal, 32, 237 (1985)
110. M. A. Koupparis, P. Macheras and C. Tsaprounis
Automated flow-injection colorimetric determination of acetaminophen for assays and dissolution of multicomponent dosage forms.
International Journal of Pharmaceutics, 27, 349 (1985)
111. P. Anagnostopoulou and M. A. Koupparis
Automated flow-injection pseudotitration of boric acid.
Journal of Pharmaceutical Sciences, 74, 886 (1985)
112. M. A. Koupparis, P. Anagnostopoulou and H. V. Malmstadt
Automated flow-injection pseudotitration of strong and weak acids, ascorbic acid and calcium, and catalytic pseudotitrations of amino-polycarboxylic acids by use of a microcomputer-controlled analyser.
Talanta, 32, 411 (1985)
113. E. A. Piperaki
Determination of cadmium in blood by flameless atomic absorption spectroscopy.
Chimika Chronika (New Series), 14, 57 (1985)
114. E. A. Piperaki
Investigations on the sorption of sulfur containing chelates on activated carbon.
Fresenius Zeitschrift für Analytische Chemie, 321, 679 (1985)
115. C. E. Efstathiou, M. A. Koupparis and T. P. Hadjioannou
Applications of ion-selective electrodes in reaction kinetics and kinetic analysis.
Ion-Selective Electrode Rev., 7, 203 (1985)

116. T. K. Christopoulos and E. P. Diamandis
A general method for the assay of binders. Application to the potentiometric determination of albumin in human serum, plasma and whole blood.
Clinical Biochemistry, 19, 151 (1986)
117. P. Anagnostopoulou and M. A. Koupparis
Automated flow-injection phenol red method for determination of bromide and bromide salts of drugs.
Analytical Chemistry, 58, 322 (1986)
118. M. A. Koupparis and A. Barcuchova
Automated flow injection spectrophotometric determination of some phenothiazines using iron perchlorate. Applications in drug assays, content uniformity and dissolution studies.
Analyst, 111, 313 (1986)
119. P. Macheras, M. Koupparis and C. Tsaprounis
An automated flow injection-serial dynamic dialysis technique for drug-protein binding studies.
International Journal of Pharmaceutics, 30, 123 (1986)
120. H. Skaltsa, M. Koupparis and S. Philianos
Kinetic potentiometric determination of peroxidase in plants, using fluoride selective electrode.
Journal of the Association of Official Analytical Chemists, 69, 1006 (1986)
121. M. A. Koupparis and E. G. Sarantonis
Automated flow-injection mercurothiocyanate determination of chloride salts of drugs for routine assays: Content uniformity and dissolution studies.
Journal of Pharmaceutical Sciences, 75, 800 (1986)
122. P. C. Gritsapis, E. P. Diamandis and T. P. Hadjioannou
Determination of the second ionization constant of 3,5-dinitrosalicylic acid ($DNSH_2$) and the instability constant of $[DNSFe]^+$ and titrimetric determination of thiourea with a 3,5-dinitrosalicylate-selective electrode.
Microchemical Journal, 33, 62 (1986)

123. M. A. Koupparis and P. I. Anagnostopoulou
Automated flow injection spectrophotometric determination of zinc using zincon: Applications to analysis of waters, alloys and insulin formulations.
Analyst, 111, 1311 (1986)
124. P. Macheras, M. Koupparis and C. Tsaprounis
Drug dissolution studies in milk using the automated flow injection serial dynamic dialysis technique.
International Journal of Pharmaceutics, 33, 125 (1986)
125. C. E. Efstathiou, J. G. Pentari and T. P. Hadjiianno
Method for evaluation of thermal hysteresis characteristics of membrane electrode - reference electrode pairs.
Analytical Chemistry, 58, 233 (1986)
126. V. H. Hartofylax, C. E. Efstathiou and T. P. Hadjiianno
Kinetic determination of iron(II) and some α -hydroxyacids based on the accelerating action of iron(II) on the α -hydroxyacids - periodate reaction.
Microchemical Journal, 33, 17 (1986)
127. V. H. Hartofylax, C. E. Efstathiou and T. P. Hadjiianno
Kinetic study of the tartaric acid-periodate reaction: Determination of tartaric acid using an improved periodate-selective electrode.
Microchemical Journal, 33, 9 (1986)
128. J. G. Pentari and C. E. Efstathiou
Construction and evaluation of a microcomputer controlled pulsed amperometric detector system.
Analytical Instrumentation, 15(4), 329 (1986)
129. K. Athanasiou, L. G. Viras and P. A. Siskos
Mutagenicity and polycyclic aromatic hydrocarbons analysis of ambient airborn particles collected in Athens, Greece.
The Science of Total Environment, 52, 201 (1986)
130. E. G. Sarantonis, E. P. Diamandis and M. I. Karayannis
Kinetic study of the reaction between trinitrobenzene-sulfonic acid (TNBS) and aminoacids with a trinitrobenzene-sulfonate ion-selective electrode.
Analytical Biochemistry, 155, 129 (1986)

131. E. G. Sarantonis and A. Townshend
Flow injection determination of iron(II), iron(III) and total iron with chemiluminescence detection.
Analytica Chimica Acta, 184, 311 (1986)
132. P. C. Ioannou and E. A. Piperaki
Kinetic fluorometric determination of aluminum in serum.
Clinical Chemistry, 32, 1481 (1986)
133. M. I. Karayannis, E. A. Piperaki and M. M. Maniadaki
Kinetic determination of nitrite based on the Griess reaction and the stopped-flow technique.
Analytical Letters, 19, 13 (1986)
134. T. D. Yerian, T. P. Hadjioannou and G. D. Christian
Flow injection analysis with the iron-induced perbromate-iodide reaction:
Spectrophotometric determinations of iron.
Talanta, 33, 547 (1986)
135. D. P. Nikolelis
Kinetic - potentiometric determination of monosodium glutamate in soups and soup bases and of glutamic dehydrogenase.
Analyst, 112, 763 (1987)
136. L. G. Viras, P. A. Siskos and E. Stefanou
Determination of polycyclic aromatic hydrocarbons in Athens atmosphere.
International Journal of Environmental Analytical Chemistry, 28, 71 (1987)
137. T. K. Christopoulos and E. P. Diamandis
Flow-through units for solid-state, liquid and PVC matrix membrane ion-selective electrodes to minimise streaming potentials.
Analyst, 112, 1293 (1987)
138. I. I. Koukli and A. C. Calokerinos
Kinetic determination of some inorganic and organic compounds by oxidation with iodate.
Analytica Chimica Acta, 192, 333 (1987)
139. P. C. Ioannou
A simple and rapid fluorimetric method for the microdetermination of isonicotinic acid hydrazide.
Talanta, 34, 857 (1987)

140. E. S. Lianidou and P. A. Siskos
Determination of kinetic parameters for 3α -hydroxysteroid dehydrogenase using the five major bile acids and their conjugates as substrates and correlation with their structure and solubility.
Analyst, **112**, 753 (1987)
141. N. C. Peterson, P. A. Siskos and M. I. Karayannis
Automation of a stopped-flow spectrophotometer for the determination of reaction-rate parameters. Part I.
Analyst, **112**, 821 (1987)
142. I. Triantafilidis, K. Tsamakidis, N. Bourbouris, B. Seitanidis and P. A. Siskos
Acute leukemeia following ulcerative colitis. A case report.
American Journal of Gastroenterology, **82**, 1334 (1987)
143. M. S. Bratakos, T. F. Zafiropoulos, P. A. Siskos and P. V. Ioannou
Selenium in foods produced and consumed in Greece.
Journal of Food Science, **52**, 817 (1987)
144. S. V. Psaroudakis and C. E. Efstatithiou
Metal interferences in potentiometric stripping analysis.
Analyst, **112**, 1587 (1987)
145. P. Macheras, M. Koupparis and E. Apostolelli
Dissolution of 4 theophylline formulations in milk.
International Journal of Pharmaceutics, **36**, 73 (1987)
146. A. V. Mitsana-Papazoglou, T. K. Christopoulos, E. P. Diamandis and M. A. Koupparis
Dissolution studies of drug formulations using ion-selective electrodes as sensors in air-segmented continuous flow analyzer.
Journal of Pharmaceutical Sciences, **76**, 724 (1987)
147. H. D. Skaltsa, O. A. Tzakou, M. A. Koupparis and S. M. Philianos
Specific differential spectrophotometric determination of ascorbic acid in plants using ascorbate oxidase
Analytical Letters, **20**, 1679 (1987)
148. Λ. Γιαννακου, Ε. Διαμάντης και Α. Σουβατζόγλου
Εκχύλιση, καθαρισμός και συμπύκνωση ουσιών του πλάσματος που αντιδρούν με αντισώματα εναντίον της διγοξίνης.
Αρχεία Ελληνικής Ιατρικής, **4**, 459 (1987)

149. E. Athanasiou-Malaki and M. A. Koupparis
Kinetic-potentiometric determination of amino acids based on monitoring their reaction with dinitrofluorobenzene using a fluoride-selective electrode.
Analyst, **112**, 757 (1987)
150. L. Yianakou, E. P. Diamandis and A. Souvatzoglou
Effect of incubation time and temperature on the interference of digoxin-like immunoreactive substances in digoxin immunoassays.
Therapeutic Drug Monitoring, **9**, 461 (1987)
151. N. Grekas and A. C. Calokerinos
Molecular emission cavity analysis of organic sulphur compounds by electrolytic generation of hydrogen sulphide.
Analytica Chimica Acta, **202**, 241 (1987)
152. N. Zoulis and C. E. Efstathiou
Voltammetric determination of N-alkylated anilines by adsorption/extraction at a carbon paste electrode.
Analytica Chimica Acta, **204**, 201 (1988)
153. M. S. Bratakos, T. F. Zafiropoulos, P. A. Siskos and P. V. Ioannou
Total selenium concentration in tap and bottled drinking water and coastal waters of Greece.
The Science of Total Environmental, **76**, 49 (1988)
154. M. S. Bratakos, T. F. Zafiropoulos, P. A. Siskos and P. V. Ioannou
Selenium losses on cooking Greek foods.
International Journal of Food Science and Technology, **23**, 585 (1988)
155. N. Grekas and A. C. Calokerinos
Continuous flow molecular emission cavity analysis of organic sulphur compounds by alkaline hydrolysis.
Analytica Chimica Acta, **204**, 285 (1988)
156. G. Milliadis, P. A. Siskos and G. Vasilioti
Persistence of linuron in soil of Marathon area determined by high performance liquid chromatography.
Annes Inst. Phytopath. Benaki (N.S.), **15**, 141 (1988)

LABORATORY OF ANALYTICAL CHEMISTRY —————

157. E. S. Lianidou, A. Papanastasiou-Diamandis and P. A. Siskos
Enzymic fluorimetric determination of sulfated and non-sulfated primary bile acids in urine using a rapid solvolysis technique.
Analyst, **113**, 1459 (1988)
158. M. Timotheou-Potamia
Catalytic / kinetic potentiometric determination of organic iodine-containing compounds.
Analytica Chimica Acta, **206**, 375 (1988)
159. I. I. Koukli, E. G. Sarantonis and A. Calokerinos
Continuous-flow chemiluminescence determination of sulfite and sulphur dioxide.
Analyst, **113**, 603 (1988)
160. P. C. Ioannou
A more simple, rapid and sensitive fluorimetric method for the determination of isoniazid and acetylisoniazid in serum. Application for acetylator phenotyping.
Clinica Chimica Acta, **175**, 175 (1988)
161. M. A. Koupparis and P. I. Anagnostopoulou
Automated flow injection determination of salicylates using Trinder reaction for clinical analysis, assays and dissolution studies of formulations.
Journal of Pharmaceutical and Biomedical Analysis, **6**, 35 (1988)
162. M. A. Koupparis and P. I. Anagnostopoulou
Automated flow-injection determination of sulfonamides by the Bratton-Marshall reaction for clinical analysis, assays and dissolution studies of formulations.
Analytica Chimica Acta, **204**, 271 (1988)
163. P. E. Macheras, M. A. Koupparis and S. S. Antimisiaris
Effect of temperature and fat content on the binding of hydrochlorothiazide to milk.
Journal of Pharmaceutical Sciences, **77**, 334 (1988)
164. C. A. Georgiou and M. A. Koupparis
Automated flow injection spectrophotometric non-aqueous pseudo-titrations of amines and their hydrohalide salts.
Analyst, **113**, 755 (1988)

165. P. Gritsapis and M. Timotheou-Potamia
Determination of reducing sugars with a 2,4-dinitrophenolate - selective membrane electrode.
Analytica Chimica Acta, 218, 37 (1989)
166. S. Halvatzis and M. Timotheou-Potamia
Kinetic-potentiometric determination of ascorbic acid, biotin, pyridoxine hydrochloride and thiamine hydrochloride with N-bromosuccinimide.
Analytica Chimica Acta, 227, 405 (1989)
167. E. S. Lianidou, D. S. Papastathopoulos and P. A. Siskos
Determination of ursodeoxycholic acid in serum by a new fluorimetric enzymatic method using a 7β -hydroxysteroid dehydrogenase prepared from *Clostridium absonum*.
Analytical Biochemistry, 179, 341 (1989)
168. E. S. Lianidou, D. S. Papastathopoulos and P. A. Siskos
Enzymatic fluorimetric determination of ursodeoxycholic acid in urine using *Clostridium absonum* 7β -hydroxysteroid dehydrogenase.
Analytical Letters, 22, 2265 (1989)
169. S. V. Psaroudakis and C. E. Efstathiou
Applicability of gallium as copper scavenger in the determination of zinc in high copper content samples by potentiometric stripping analysis.
Analyst, 114, 25 (1989)
170. S. V. Psaroudakis, C. E. Efstathiou and T. P. Hadjioannou
Determination of trace amounts of indium in sphalerites by potentiometric stripping analysis.
Analytical Letters, 22, 1753 (1989)
171. H. L. Archodaki, M. A. Koupparis and C. E. Efstathiou
Semi-automated determination of phenolic compounds using a fluoride - selective electrode and based on their micellar - catalysed reaction with 1-fluoro-2,4-dinitrobenzene.
Analyst, 114, 591 (1989)
172. V. H. Hartofylax, C. E. Efstathiou and T. P. Hadjioannou
Kinetic study of the acid hydrolysis of sucrose and lactose and kinetic determination of sucrose using a periodate-selective electrode.
Analytica Chimica Acta, 224, 159 (1989)

LABORATORY OF ANALYTICAL CHEMISTRY —————

173. G. N. Valsami, P. E. Macheras and M. A. Koupparis
Construction of a naproxen ion-selective electrode and its application to pharmaceutical analysis.
Analyst, **114**, 387 (1989)
174. M. Parisi-Poulou, V. Reizopoulou, M. Koupparis and P. Macheras
Second derivative UV spectrophotometric determination of hydrochlorothiazide and hydrochlorothiazide - amiloride combination in tablets.
International Journal of Pharmaceutics, **51**, 169 (1989)
175. P. E. Macheras, M. A. Koupparis and S. G. Antimisiaris
Effect of temperature and fat content on the solubility of hydrochlorothiazide and chlorothiazide in milk.
Journal of Pharmaceutical Science, **78**, 933 (1989)
176. E. Athanasiou-Malaki, M. A. Koupparis and T. P. Hadjioannou
Kinetic determination of primary and secondary amines using a fluoride-selective electrode and based on their reaction with 1-fluoro-2,4-dinitrobenzene.
Analytical Chemistry, **61**, 1358 (1989)
177. E. Athanasiou-Malaki and M. A. Koupparis
Kinetic study and application in kinetic-potentiometric determination of the reaction of 1-fluoro-2,4-dinitrobenzene with hydrazines, hydrazides and azide using a fluoride-selective electrode.
Talanta, **36**, 431 (1989)
178. E. Athanasiou-Malaki and M. A. Koupparis
Kinetic-potentiometric study and analytical applications of micellar-catalyzed reactions of 1-fluoro-2,4-dinitrobenzene with aminocompounds.
Analytica Chimica Acta, **219**, 295 (1989)
179. P. Macheras, M. Koupparis and S. Antimisiaris
An in vitro model for exploring CR theophylline formulations - milk interactions.
International Journal of Pharmaceutics, **54**, 123 (1989)
180. M. A. Koupparis, K. E. Evagorou and T. P. Hadjioannou
Automated stopped-flow system in pharmaceutical and clinical analysis:
Kinetic determination of acetaminophen in formulations and serum using the iron(II) - 2,4,6-tris-(2-pyridyl)-s-triazine reaction.
Analytica Chimica Acta, **224**, 339 (1989)

181. A. Müller, E. Piperaki and C. Hess-Riechmann
Photometrische Rhenium Bestimmung im industriellen Proben. Eine schnelle und einfache Methode mit hoher Selektivität.
Monatshefte für Chemie, 120, 219 (1989)
182. E. Piperaki, J. Erfkamp, E. Diemann, and A. Müller
Use of matrix - modifier in the determination of traces of Mo, Co, Cu, Mn and Ni in *chromatium vinosum* by Zeeman atomic absorption spectrometry.
Biology of Metals, 2, 61 (1989)
183. P. C. Ioannou and D. G. Konstantianos
Fluorometric determination of magnesium in serum with 2-hydroxy-1-naphthaldehyde salicyloylhydrazone.
Clinical Chemistry, 35, 1492 (1989)
184. N. Ζερεφός, Γ. Ε. Διγενής, Δ. Αρβανίτης, Ε. Λιανίδου, Δ. Κυριάκη, Π. Ιωάννου και Β. Αλεβίζου
Διαγνωστική αξία της δοκιμασίας της δεσφερριοξαμίνης σε αρρώστους υπό χρόνια αιμοκάθαρση.
Ιπποκράτης, 2, 155 (1989)
185. I. I. Koukli, A. C. Calokerinos and T. P. Hadjiioannou
Continuous-flow chemiluminescence determination of acetaminophen by reduction of cerium(IV).
Analyst, 114, 711 (1989)
186. N. Grekas and A. C. Calokerinos
Effect of sulphite on the determination of sulphide by continuous-flow molecular emission cavity analysis.
Analytica Chimica Acta, 225, 359 (1989)
187. N. Grekas, A. C. Calokerinos and T. P. Hadjiioannou
Determination of thiamine using continuous flow molecular emission cavity analysis.
Analyst, 114, 1283 (1989)

ΕΡΓΑΣΤΗΡΙΟ ΟΡΓΑΝΙΚΗΣ ΧΗΜΕΙΑΣ
LABORATORY OF ORGANIC CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες
Ph. D. and Dozent Theses

1. Μ. Κολοβός

Ελεγχόμενη σύνθεση κυκλικών μη συμμετρικών πεπτιδίων με δύο S-S γέφυρες και η σημασία τους στο πρόβλημα των πρωτεΐνων.

Διδακτορική διατριβή, 1981

M. Kolovos

A controlled synthesis of cyclic unsymmetrical cystine peptides bearing two S-S bridges in the ring and their meaning to the problem of the proteins.

Ph. D. Thesis, 1981

2. Π. Μουτεβελή-Μηνακάκη

Μερικές εφαρμογές της μετάθεσης Curtius.

Διδακτορική διατριβή, 1982

P. Moutevelis-Minakakis

Some applications of the Curtius rearrangement.

Ph. D. Thesis, 1982

3. Λ. Δ. Λαπατσάνης

Νέες συνθετικές μέθοδοι στη χημεία των πεπτιδίων.

Διατριβή για Υφηγεσία, 1983

L. D. Lapatsanis

New synthetic methods in peptide synthesis.

Dozent Thesis, 1983

4. Β. Θεοδώρου-Κασιούμη

Σύνθεση συμπλόκων λευκοχρύσου(II) με S-υποκατεστημένες κυστεΐνες και νουκλεοζίτες.

Διδακτορική διατριβή, 1983

V. Theodorou-Kassioumi

Synthesis of platinum(II) complexes with S-substituted cysteines and nucleosides.

Ph. D. Thesis, 1983

5. Γ. Χ. Κόκοτος

Σύνθεση νέων αμινο- και υδροξυ-κουμαρινών. Νέα φθορίζοντα υποστρώματα για χυμοθρυψίνη.

Διδακτορική διατριβή, 1984

G. Chr. Kokotos

Synthesis of new amino- and hydroxy-coumarins. New fluorogenic substrates for chymotrypsin.

Ph. D. Thesis, 1984

6. Μ. Ζουρίδου-Λιάπη

Νέα μέθοδος ολικής συνθέσεως των σεσκιτερπενίων (+)-δριμενίνης, (+)-ισοδριμενίνης και οπτικώς ενεργών μορφών αλβικανικού οξέος και αλβικανόλης.

Διδακτορική διατριβή, 1985

M. Zouridou-Liapis

New total synthesis of sesquiterpenes (+)-drimenin, (+)-isodrimenin and optically active albicanic acid and albicanol.

Ph. D. Thesis, 1985

B. Πρωτότυπες ερευνητικές δημοσιεύσεις

Published research papers

1. L. Lapatsanis

A new method for the preparation of diphenylmethyl ethers.

Tetrahedron Letters, 3943 (1978)

2. L. Lapatsanis

A new method for the preparation of diphenylmethyl esters by using tridiphenylmethyl phosphate as alkylated agents.

Tetrahedron Letters, 4697 (1978)

3. S. Paraskewas

Aminomethylierung des Bis-(Pyridin-3-Carboxamid)-PdCl₂-Komplexes.

Synthesis, 47 (1978)

LABORATORY OF ORGANIC CHEMISTRY

4. S. Paraskewas and D. Konstantinidis
Komplexe von 1-Amino-5-Chlor-Benzophenonoxim mit Cu²⁺ und Pd²⁺.
Chemiker Zeitung, 102, 265 (1978)
5. S. Paraskewas and D. Konstantinidis
Bildung von Epoxiden bei der Katalytischen Oxidation von 1,3-Cyclohexadien mit Wassrigen CuCl₂ und PdCl₂-Lösungen.
Chemiker Zeitung, 102, 236 (1978)
6. S. Paraskewas and D. Konstantinidis
Herstellung, IR und ESR - Untersuchungen von Cu²⁺ Komplexen mit Maleinsäureanalogen.
Chimika Chronika (New Series), 7, 85 (1978)
7. A. Felix, E. Heimer, Th. Lambros, C. Tzougraki and J. Meienhofer
Rapid removal of protecting groups from peptides by catalytic transfer hydrogenation with 1,4-cyclohexadiene.
Journal of Organic Chemistry, 43, 4194 (1978)
8. C. Tzougraki, R. Makofske, T. Gabriel, S. S. Wang, R. Kutny, J. Meienhofer and C. H. Li
A synthesis of human β-endorphin in solution.
Journal of the American Chemical Society, 100, 6248 (1978)
9. I. Photaki, C. Tzougraki and Ch. Kotsira-Engonopoulos
Synthesis and some pharmacological properties of Glu(OMe)₄ and deamino-Glu(OMe)₄ - oxytocin.
International Journal of Peptide and Protein Research, 13, 426 (1979).
10. S. Paraskewas and L. Lapatsanis
Maleinsäure-monoamide aus Maleinsäure-anhydrid durch Pd Katalysierte Reaktion mit primären Aminen.
Synthesis, 457 (1979)
11. S. Paraskewas and L. Lapatsanis
ESR-Untersuchungen bei der Oxidation von p-Phenyldiamine mit Luftsauerstoff und CuCl₂.
Chemiker Zeitung, 103, 296 (1979)
12. S. Paraskewas and L. Lapatsanis
ESR-Untersuchungen der Komplexbildung von 2,5-Dihydroxybenzoesäure mit Pd(II), Cu(II) und Mn(II).
Chemiker Zeitung, 103, 297 (1979)

13. S. Paraskewas and D. Konstantinidis
Reaktionen von Propargylbromid mit Pd^{2+} und Cu^{2+} Salzen.
Chemie - Ingenieur - Technik, 52, 157 (1980)
14. S. Paraskewas
Chlorierung und Bromierung von Pyridin- $PdCl_2$ Komplexe.
Synthesis, 378 (1980)
15. S. Paraskewas and A. Danopoulos
Oxidation von Allylethern mit Luftsauerstoff und $PdCl_2$.
Chemiker Zeitung, 104, 238 (1980)
16. L. Lapatsanis, Chr. Profilis and P. Catsoulakos
Synthesis of some steroidal esters of α -amino acids.
Journal of Chemical and Engineering Data, 25, 287 (1980)
17. C. Tzougraki, R. Makofske, T. Gabriel, J. Michalewsky, J. Meienhofer and C. H. Li
Synthesis of human β -endorphin in solution using benzyl-type side chain protective groups.
International Journal of Peptide and Protein Research, 15, 377 (1980)
18. T. Barth, J. Slaninova, L. Servitova, M. Lebl, C. Kotsira-Engonopoulos, C. Tzougraki, I. Photaki, M. Krojidlo and K. Jost
The effect of some structural modifications of the oxytocin molecule and the duration of galactogogic response.
Collection of Czechoslovak Chemical Communications, 46, 2441 (1981)
19. S. Paraskewas, L. Lapatsanis and Ch. Mantzos
3,4-Dihydroxybenzoësäure mit $Pd(II)$, $Cu(II)$, $Cr(III)$, $Fe(III)$, $Co(II)$ und $Mn(II)$.
Chemiker Zeitung, 105, 151 (1981)
20. S. Paraskewas, L. Lapatsanis and Ch. Mantzos
Herstellung von S-Trityl-L-Cystein-Komplexen mit Pd^{2+} , Cr^{3+} , Mn^{2+} und Co^{2+} .
Chemiker Zeitung, 105, 227 (1981)
21. S. Paraskewas and A. Danopoulos
 Cu^{2+} und Pd^{2+} complexes with adenine and histidine derivatives.
Inorganica Chimica Acta, 55, 141 (1981)

LABORATORY OF ORGANIC CHEMISTRY _____

22. S. Mylonas, A. Valavanidis, V. Voukouvalidis and M. Polyssiou
Platinum(II) and palladium(II) complexes with amino acid derivatives.
Synthesis, interpretation of IR and ^1H NMR spectra and conformational implications.
Inorganica Chimica Acta, 55, 125 (1981)
23. S. Mylonas, A. Valavanidis, V. Voukouvalidis and M. Polyssiou
Synthesis of S-2-aminoethyl-L-cysteine and S-2-aminoethyl-D,L-penicillamine complexes with Pt(II)) and Pd(II). Interpretation of IR and ^1H NMR spectra and conformational implications.
Inorganica Chimica Acta, 66, 25 (1982)
24. N. Hadjiliadis, G. Pneumatikakis and S. Paraskewas
Inosin, guanosine and xanthosin O(6) N(7) chelate complexes of Pt^{2+} and Pd^{2+} .
Chimika Chronika (New Series), 11, 11 (1982)
25. S. Paraskewas and A. Danopoulos
ESR und IR - Untersuchungen von Cu-Diphenat Komplexen mit Aminen.
Chemiker Zeitung, 106, 435 (1982)
26. S. Paraskewas, A. Danopoulos and Ch. Mantzos
Complexes of N,N'-bis-(aceto-glucose)-ethylendiamin with Cu^{2+} , Ni^{2+} and Co^{2+} .
Inorganica Chimica Acta, 64, 151 (1982)
27. M. Bodanszky, M. A. Bednarek, A. Yiotakis and R. Curtis
Allomalformin.
International Journal of Peptide and Protein Research, 20, 16 (1982)
28. V. Theodorou, I. Photaki, N. Hadjiliadis, R. W. Gellert and R. Bau
Spectroscopic studies and X-ray determination of the complex
cis-(S-ethyl-L-cysteine)platinum (II) dichloride.
Inorganica Chimica Acta, 60, 1, (1982)
29. S. Paraskewas and A. Danopoulos
Oxidation von Isothiocyanaten zu Isocyanaten mit PdCl_2 .
Synthesis, 838 (1983)

30. S. Mylonas, A. Valavanidis, V. Voukouvalidis and M. Polyssiou
Antitumor activity of platinum(II) and palladium(II) complexes of S-2-aminoethyl-L-cysteine and S-2-aminoethyl-D,L-penicilamine.
Chimika Chronika (New Series), **12**, 165 (1983)
31. H. Ziffer, K. Kawai, M. Kasai, M. Imuta and C. Froussios
Microbially mediated enantioselective ester hydrolysis utilizing *Rhizopus Nigricans*. A new method of assigning absolute stereochemistry of acyclic 1-arylalkanols.
Journal of Organic Chemistry, **48**, 3017 (1983)
32. M. Kasai, C. Froussios and H. Zitter
On the relation between elution order and absolute stereochemistry of arylalkanols from a Piricle column.
Journal of Organic Chemistry, **48**, 459 (1983)
33. L. Lapatsanis, G. Milias, C. Froussios and M. Kolovos
Synthesis of N-(9-fluorenylmethoxycarbonyl)-L-amino acids and N,2,2,2-(trichloroethoxycarbonyl)-L-amino acids.
Synthesis, 671 (1983)
34. S. Paraskewas and A. Danopoulos
Complexes of brucin with Pd^{2+} , Cu^{2+} , Co^{2+} and Ni^{2+} chlorides.
Inorganica Chimica Acta, **71**, 259 (1983)
35. S. Paraskewas, A. Danopoulos and Ch. Mantzos
Chlorierung von Ungesättigten Cyclischen Kohlen - Wasserstoffen mit Conjugierten Doppelbindungen.
Chemiker Zeitung, **108**, 222 (1984)
36. S. Paraskewas, A. Danopoulos and L. Lapatsanis
Komplexe von Aminosäurederivaten mit Palladium(II) Chlorid. IR und ESR-spektroskopische Untersuchungen.
Chemiker Zeitung, **7/8**, 251 (1984)
37. M. Kolovos and C. Froussios
o-Diphenylmethylation of alcohols and carboxylic acids using diphenylmethyl diphenyl phosphate as alkylating agent.
Tetrahedron Letters, **25**, 3909 (1984)

LABORATORY OF ORGANIC CHEMISTRY

38. I. Goodman and A. Valavanidis
Copolyesteramides-I: Anionic copolymers of ω -laurolactam with ϵ -caprolactone.
European Polymer Journal, 20, 241 (1984)
39. M. Kolovos and P. Moutevelis-Minakakis
The use of diacetoxyphenyliodine for the direct oxidative conversion of S-protected L-cysteine compounds to L-cystine derivatives.
Tetrahedron Letters, 25, 4153 (1984)
40. P. Moutevelis-Minakakis and I. Photaki
Some applications of the Curtius rearrangement.
Journal of Chemical Society, Perkin Transactions I, 2277 (1985)
41. R. Wunderlin, P. Minakakis, A. Tun-kyi, S. D. Sharma and R. Schwyzer
Melanotropin Receptors I. Synthesis and Biological Activity of N $^{\alpha}$ -(5-bromovaleryl)-N $^{\alpha}$ -deacetyl- α -melanotropin.
Helvetica Chimica Acta, 68, 1 (1985)
42. R. Wunderlin, S. D. Sharma, P. Minakakis and R. Schwyzer
Melanotropin receptors II. Synthesis and biological activity of α -melanotropin/tobacco mosaic virus disulfide conjugates.
Helvetica Chimica Acta, 68, 12 (1985)
43. M. Liapis, V. Ragoussis and N. Ragoussis
Improved total synthesis of (+)-drimenin.
Journal of the Chemical Society, Perkin Transactions I, 815, (1985)
44. V. Theodorou and N. Hadjiliadis
S-alkyl and S-alkylaryl cysteine complexes with platinum(II) and their interactions with nucleosides.
Polyedron, 4, 1283, (1985)
45. L. Lapatsanis, G. Milias and S. Paraskewas
A simple method for the preparation of dephenylmentyl esters of N-protected amino acids
Synthesis, 513, (1985)
46. C. Tzougraki, W. Dairman, R. Makofske, L. Aepli and J. Meienhofer
Synthesis of a potent enkephalin analog, Tyr-D-Thr-Gly-Phe- Δ^3 ProNH₂ and some of its biological activities.
International Journal of Peptide and Protein Research, 28, 370 (1986)

47. G. Kokotos and C. Tzougraki
Synthesis and study of substituted coumarins. A facile preparation of D,L-o-tyrosin.
Journal of Heterocyclic Chemistry, 23, 87 (1986)
48. G. Kokotos and C. Tzougraki
Fluorogenic substrates for chymotrypsin with new fluorescent markers.
International Journal of Peptide and Protein Research, 28, 186 (1986)
49. V. Dive, A. Yiotakis and S. Fermandjian.
Inhibiteurs peptidiques d'une collagenase bacterienne.
Annales de Biologie Clinique, 44, 168 (1986)
50. A. Yiotakis and V. Dive
New thiol inhibitors of *Achromobacter Iophagus* collagenase, specificity of the enzyme's S₃ subsite.
European Journal of Biochemistry, 160, 413 (1986)
51. A. Danopoulos, L. Lapatsanis and S. Paraskewas
Cu²⁺- und Pd²⁺-komplexe mit phtalimiden aromatischer Aminen und Pyridin Derivaten.
Chemiker Zeitung, 110, 327 (1986)
52. A. Valavanidis
Environmental factors and cancer of the respiratory system: smoking industrial exposures, and air pollution as major causes.
Materia Medica Greca, 14, 25 (1986)
53. S. Paraskewas and A. Danopoulos
Nachweis von Zukern und Hydroxsäuren mit 6,7-Dimethyl-2,3-DL-(2-Pyridyl) Quinoxalin-kupfer (II) Chlorid Komplex.
Chemiker Zeitung, 110, 329 (1986)
54. A. Valavanidis
Passive smoking: air pollution from cigarette smoke and health consequences.
Archives of Hellenic Medicine, I, 95 (1986)
55. C. Froussios and M. Kolovos
Preparation of diphenylmethyl esters and ethers of unprotected aminoacids.
Synthesis, 12, 1106 (1987)

56. A. A. Danopoulos, P. Minakakis, L. Lapatsanis and S. Paraskewas
Komplexverbindungen von GlyMet und (CysGly)₂ mit Cu²⁺ und Pd²⁺.
Chemiker Zeitung, **9**, 281 (1987)
57. V. Ragoussis, M. Liapis and N. Ragoussis
Synthesis and resolution of albicanic acid simple access to optically active drimane sesquiterpenes.
Journal of the Chemical Society, Perkin Transactions I, 987 (1987)
58. L. Moroder, Ch. Tzougraki, W. Gohring, G. Mourier, H. J. Musiol and E. Wunsch
Studies on immunoassays of peptide factors V: Synthesis of cholecystokinin-58-[1-11]/iso-1-cytochrome c conjugate.
Biological Chemistry, Hoppe-Seyler, **368**, 855 (1987)
59. A. Valavanidis
Chemical constituents of tobacco smoke: toxic, carcinogenic, mutagenic and teratogenic substances, heavy metals and radioactive elements in the mainstream and sidestream tobacco smoke.
Iatriki, **54**, 20 (1988)
60. S. Mylonas, A. Valavanidis, K. Dimitropoulos, M. Polyssiou, A. Tsiftoglou and I. Vizirianakis
Synthesis, molecular structure determination, and antitumor activity of platinum(II) and palladium(II) complexes of 2-substituted benzimidazole.
Journal of Inorganic Biochemistry, **34**, 265 (1988)
61. A. Yiotakis, A. Hatgiyannacou, V. Dive and F. Toma
New thiol inhibitors of clostridium histolyticum collagenase. Importance of the P3' position.
European Journal of Biochemistry, **172**, 761 (1988)
62. S. Paraskewas, D. Konstantinidis and G. Vasilara
Oxidation of hydroquinones with oxygen in the presence of bis(1,3-propanediaminato) copper(II) - chloride.
Synthesis, 897 (1988)
63. C. Froussios and M. Kolovos
Nouvelle methode de protection du carboxyle des acides A-amines: Esters 9-fluorenyliques.
Tetrahedron Letters, **30**, 3413 (1989)

64. A. Valavanidis and N. Sarafopoulos
Occupational health and safety in Greece: current problems and perspectives.
International Labour Review, 128, 249 (1989)
65. A. Valavanidis
Environmental factors and cancer in man. Quantitative estimates of their contribution to death rates and methodological problem.
Occupational Medicine, I, 157 (1989)
66. S. Paraskewas, A. Danopoulos and Ch. Mantzos
Komplexverbindungen von Aminosäuren mit Gold.
Chemiker Zeitung, 113, 88 (1989)
67. S. Paraskewas, Th. Leventouris and N. Gouskos
X-ray diffraction and electron paramagnetic resonance studies of a $\text{Bi}_4\text{Sr}_{2.5}\text{Ca}_{2.5}\text{Cu}_4\text{O}_x$ superconducting phase.
Modern Physics Letters I, I (1989)
68. S. Perlepe, D. Kovala-Demertzis, S. Skariba, L. Nikolis and S. Paraskewas
Variation of product identity as a function of metallon: Ligand reaction ratio, stereochemical studies and thermal investigation of complexes of 2-acetylpyridine hydrazone.
Thermochimica Acta, 147, 153 (1989)
69. S. Paraskewas, H. Bauer, J. Brun, A. Hernanto and W. Voelter
Circular Dichroismus untersuchungen von Polyalkohol und Zucker - Vanadat(V) - Komplexen.
Zeitschrift Naturforschung, 44b, 1464 (1989)
70. H. P. Maskova, G. Kokotos, C. Tzougraki and T. Barth
Synthesis and use of an aminoquinolinone derivative for the fluorometric determination of oxytocinase.
Collection of Czechoslovak Chemical Communications, 54, 2802 (1989)
71. G. Valensin, V. Dive, A. Lai, A. Yiotakis and F. Toma
Delination of conformational dynamics in solution from ^1H and ^3H nuclear magnetic resonance spin-lattice relaxation rates.
Journal of the Chemical Society, Perkin Transactions 2, 85(4), 293 (1989)

LABORATORY OF ORGANIC CHEMISTRY

72. S. Wimmer, P. Castan, N. Ferderigos, N. Hadjiliadis and J-P. Laussac
Interaction entre le platine(II) et un tetrapeptide modele de la metallo-thioneine.
C.R. Acad. Sci. Paris, 1775 (1989)
73. G. E. Haniotakis, V. G. Mavraganis and V. Ragoussis
1,5,7-Trioxaspiro[5,5]undecane, a pheromone analog with biological activity for the olive fruit fly, *Dacus oleae*.
Journal of Chemical Ecology, 15, 1057 (1989)
74. A. Danopoulos, L. Lapatsanis, S. Paraskewas, W. Voelter and Ab. Malik
Syntheses and spectral studies of some new complexes of gold and palladium with organic ligands.
Chemiker Zeitung, 113, 215 (1989)
75. N. Guskos, J. Kuriata, L. Sadlowski and S. Paraskewas
On the possibility of the existence of Cu^{3+} ions in high TC superconducting samples of $\text{YBa}_2\text{Cu}_3\text{O}_x$.
Physica Status Solidi, 6, 152, K9 (1989)

ΕΡΓΑΣΤΗΡΙΟ ΦΥΣΙΚΟΧΗΜΕΙΑΣ
LABORATORY OF PHYSICAL CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες
Ph. D. and Dozent Theses

1. I. Ξεξάκης

Φωτοχρωμισμός και θερμοχρωμισμός ορισμένων ετεροκυκλικών βάσεων του Schiff.

Διδακτορική διατριβή (σε συνεργασία με το ΕΚΕΦΕ "Δημόκριτος"), 1982

J. Xexakis

Photochromism and thermochromism of some heterocyclic Schiff bases.

Ph. D. Thesis, 1982

2. A. Μαυριδης

Ab Initio MCSCF υπολογισμοί επί των μοριακών συστημάτων CNa ($^4\Sigma^-$, $^2\Pi(1)$) και CNa_2 ($^3\Sigma_g$, 3B_1 , $^3\Pi_g(3)$, 3A_2).

Διατριβή για Υφηγεσία, 1983

A. Mavridis

MCSCF ab initio calculations on the molecular systems CNa ($^4\Sigma^-$, $^2\Pi(1)$) and CNa_2 ($^3\Sigma_g$, 3B_1 , $^3\Pi_g(3)$, 3A_2).

Dozent Thesis, 1983

3. I. X. Παπαϊωάννου

Ηλεκτρική ειδική αγωγιμότητα αλκαλιδίων - ηλεκτριδίων.

Διδακτορική διατριβή, 1984 (σε συνεργασία με το Michigan State University)

I. C. Papaioannou

Electrical conductivity of alkalides-electrides.

Ph. D. Thesis, 1984

4. B. Χαβρεδάκη

Διερεύνηση διαχύσεως αερίων σε πορώδη στερεά υπό το πρίσμα νεότερων απόψεων για το ρόλο των μακροσκοπικών δομών του στερεού και των αλλελεπιδράσεων στερεού-αερίου.

Διδακτορική διατριβή, (σε συνεργασία με το ΕΚΕΦΕ "Δημόκριτος"), 1985

V. Havredaki

Investigation of diffusion of permanent gases through porous media in the light of new theoretical views concerning the role of the macroscopic structure of the solid and the gas-solid interaction.

Ph. D. Thesis, 1985

5. Φ. Αρώνη-Καραγιάννη

Μελέτη της διασπάσεως της προπανόλης-2 σε απλούς και μεικτούς καταλύτες επί φορέως silica.

Διδακτορική διατριβή (σε συνεργασία με το Πανεπιστήμιο Πατρών), 1987.

Ph. Aroni-Karayianni

Study of propanol-2 decomposition by simple and mixed catalysts supported on silica.

Ph. D. Thesis, 1987

B. Πρωτότυπες ερευνητικές εργασίες

Published research papers

1. A. Mavridis

The relation between the volume virial coefficients and the pressure virial coefficients.

Chimika Chronika (New Series), 5, 333 (1978)

2. I. Moustakali-Mavridis, E. Hadjoudis and A. Mavridis

Crystal and molecular structure of some thermochromic Schiff bases.

Acta Crystallographica, B34, 3709 (1978)

3. E. Hadjoudis, I. Moustakali-Mavridis and J. Xexakis

Effect of crystal and molecular structure on the thermochromism and photochromism of some salicylidene-2-aminopyridines.

Israel Journal of Chemistry 18, 202 (1979)

4. T. Kalogerakos, S. Blanquet and J. P. Waller

Cobalt(III) labeling of methionyl-tRNA synthetase from *E. Coli*.

European Journal of Biochemistry, 93, 339 (1979)

5. I. Moustakali-Mavridis, E. Hadjoudis and A. Mavridis
Crystal and molecular structure of thermochromic Schiff bases:
II. Structure of N-salicylidene-3-aminopyridine and N-(5-methoxy-
salicylidene)-3-aminopyridine.
Acta Crystallographica, B36, 1126 (1980)
6. A. Mavridis and J. F. Harrison
Ab initio study of the electronic structure of the ground triplet and
low lying singlet states of formyl nitrene HCON and formyl phosphini-
dene HCOP.
Journal of American Chemical Society, 102, 7651 (1980)
7. A. Mitsou-Clappas and K. Viras
Transition conformationelle du clorure de polyvinyle en solution dans
des melanges de solvants polaires et non polaires.
European Polymer Journal, 16, 205 (1980)
8. A. Lycourgiotis, D. Vattis and Ph. Aroni
Influence of lithium on the kind of cobalt-species formed on $\gamma\text{-Al}_2\text{O}_3$.
Zeitschrift für Physikalische Chemie Neue Folge, 120, 211 (1980)
9. T. Kalogerakos, P. Dessen, G. Fayat and S. Blanquet
Proteolytic cleavage of methionyl-transfer ribonucleic acid synthetase
from *B. Stearothermophilus*. Effect on structure and activity.
Biochemistry, 19, 3712 (1980)
10. I. Providaki-Molinou
EMF measurements in non-aqueous media.(a) Standard electrode poten-
tial determination of the silver-silver chloride electrode in non-aque-
ous alcoholic solutions at 15, 20 and 30 °C. (b) Ion product of ali-
phatic alcohols at 15, 20 and 30 °C.
Chimika Chronika (New Series), 11, 121 (1982)
11. A. Mavridis and J. F. Harrison
Near Hartree-Fock calculations on the ground state of the fluoronium
ion FH_2^+ .
Journal of Chemical Society, Faraday Transaction II, 78, 447 (1982)
12. A. Mavridis and J. F. Harrison
Electronic Structure of CLi, SiH, and SiLi in the lowest ${}^4\Sigma^-$ and ${}^2\Pi$
states.
Journal of Physical Chemistry, 86, 1979 (1982)

13. A. Mavridis and J. F. Harrison
Electronic structure of the carbyne CLi and the carbene Li₂C.
Journal of American Chemical Society, 104, 3827 (1982)
14. A. Lycourgiotis, D. Vattis, Ph. Aroni and N. Katsanos
Active phase-carrier interactions in cobalt oxide on γ -alumina doped with heaviest alkali cations.
Acta Chimica Academiae Scientiarum Hungariae, 109, 261 (1982)
15. F. Mayaux, T. Kalogerakos, K. Britto and S. Blanquet
Removal of the tightly bound zinc from *E. Coli* trypsin modified methionyl-tRNA synthetase.
European Journal of Biochemistry, 128, 41 (1982)
16. K. Viras, H. H. Teo, A. Marshall, P. C. Domszy, T. A. King and C. Booth
Raman scattering from the longitudinal acoustic mode of oligo-oxyethylene.
Journal of Polymer Science, Physics Edition, 21, 919 (1983)
17. E. Hadjoudis, J. Petrou and J. Xexakis
Substinent effects on thermochromism of N-Salicylidene-2-aminopyridines in the solid state.
Molecular Crystals and Liquid Crystals, 93, 73 (1983)
18. T. G. Swales, H. H. Teo, R. C. Domszy, K. Viras, T. A. King and C. Booth
Low-frequency Raman scattering from methylene-oxyethylene-methylene triblock oligomers.
Journal of Polymer Science, Physics Edition, 21, 1501 (1983)
19. V. Havredaki and J. P. Petropoulos
Experimental studies in relation to a new theoretical description of the permeation of dilute absorbable gases through porous membranes.
Journal of Membrane Science, 12, 303 (1983)
20. J. H. Petropoulos, K. Tsimilis, K. Savvakis and V. Havredaki
Simple sensitive techniques for absolute and differential helium pycnometry.
Journal of Physics and Scientific Instruments, 16, 1112 (1983)
21. G. Fayat, M. Fromant, T. Kalogerakos and S. Blanquet
Effect of the overproduction of phenylalanyl and theonyl-tRNA synthetase on the tRNA and tRNA concentration in *E. Coli* cells.
Biochimie, 65, 221 (1983)

22. A. Mavridis, J. F. Harrison and J. F. Liebman
Electronic structure of CNa and CNa₂ in their electronic ground states.
Journal of Physical Chemistry, **88**, 4973 (1984)
23. M. Tipping, K. Viras and T. A. King
Low-frequency dynamics of solid poly(L-alanine) from Raman spectroscopy.
Biopolymers, **23**, 2891 (1984)
24. K. Viras, T. A. King and C. Booth
Low-frequency Raman-active modes and temperature dependences in oligooxyethylene.
Journal of Polymer Science, Physics Edition, **23**, 471 (1985)
25. K. Viras, T. A. King and C. Booth
Effect of temperature on low-frequency Raman scattering from crystalline pentadecaethylene glycol di-n-octadecyl ether.
Journal of Chemical Society, Faraday Transactions II, **81**, 491 (1985)
26. K. Viras, T. A. King and C. Booth
The effect of temperature on the low-frequency Raman scattering from pentadecaethylene glycol di-n-hexyl ether and related materials.
Journal of Chemical Society, Faraday Transactions II, **81**, 1477 (1985)
27. F. Viras, K. Viras and T.A. King
Low-frequency excitations in amorphous poly(vinylacetate).
Journal of Polymer Science, Physics Edition, **23**, 609 (1985)
28. A. Mavridis, A. E. Alvaro-Swaisgood and J. F. Harrison
The electronic and geometric structures of the transition-metal carbyne cations ScCH, TiCH, VCH and CrCH.
Journal of Physical Chemistry, **90**, 2584 (1986)
29. J. Petropoulos and V. Havredaki
On the fundamental concepts underlying Henry-law adsorption and adsorbed gas transport in porous solids.
Journal of Chemical Society, Faraday Transactions I, **82**, 2531 (1986)
30. K. Viras, F. Viras, C. Campbell, T. A. King and C. Booth
Morphology of poly(oxyethylene) methyl-n-alkyl ethers as determined by small-angle X-ray and Raman scattering.
Journal of Chemical Society, Faraday Transactions II, **83**, 917 (1987)

31. F. Viras, K. Viras, C. Campbell, T. A. King and C. Booth
Application of the perturbated-elastic-rod model to the longitudinal acoustic modes of poly(oxyethylene)s and their n-hexadecyl ethers.
Journal of Chemical Society, Faraday Transactions II, **83**, 927 (1987)
32. S. Kapelos and A. Mavridis
"Electronegativity". A mnemonic rule.
Journal of Chemical Education, **64**, 941 (1987)
33. J. C. Papaioannou, S. Jaenicke and J. L. Dye
Electronic properties of sodium-C222-sodide.
Journal of Solid State Chemistry, **67**, 122 (1987)
34. J. Allison, A. Mavridis and J. F. Harrison
The gas phase chemistry of bare and ligated transition metal ions:
Correlation of reactivity with electronic structure I. M and MCO
Polyhedron, **7**, 1559 (1988)
35. F. Viras, Y. Z. Luo, K. Viras, R. Mobbs, T. A. King and C. Booth
Crystalline morphology of block-copoly(oxypropylene/oxyethylene/oxypropylene) by small-angle X-ray and Raman scattering.
Makromolekulare Chemie, **189**, 459 (1988)
36. F. Viras and K. Viras
Preferential solvation in polymer cosolvent systems: Polystyrene + cyclohexane + ethanol and Poly(vinyl-2-pyridine) + nitroethane + carbon tetrachloride.
Journal of Polymer Science, Physics Edition, **26**, 2525 (1988)
37. M. Palaiologou, F. Viras and K. Viras
Polymer cosolvent system: Poly(vinyl-2-pyridine)/toluene/ethyl acetate.
European Polymer Journal, **24**, 1191 (1988)
38. J. Papaioannou and J. L. Dye
Four-probe single crystal holder for conductivity measurements.
Review of Scientific Instrumentation, **59**, 496 (1988)
39. Ι. Παπαϊωάννου, Ι. Προβιδάκη-Μολίνου και Α. Μαυρίδης
Ανιόντα αλκαλιμετάλλων.
J. Papaioannou, I. Providaki-Molinou and A. Mavridis
Anions of Alkalimetals.
Chimika Chronika (New Series) **17**, 101 (1988)

40. A. Mavridis, J. F. Harrison and J. Allison
The electronic structure of first row transition metal monocarbonyl cations MCO, M = Sc, Ti, V, Cr.
Journal of American Chemical Society **111**, 2482 (1989)
41. A. Mavridis and J. Allison
Electronic and geometric structure of the titanium hydrides TiH, TiH₂.
Journal Chemical Society, Faraday Transactions II, **85**, 1391 (1989)
42. K. Viras, F. Viras, C. Campbell, T. A. King and C. Booth
Low-frequency Raman spectra of even α,ω disubstituted n-alkanes.
Journal of Physical Chemistry, **93**, 3479 (1989)
43. U. Mittag, J. Samios and Th. Dorfmüller
Molecular dynamics simulation of the liquid mixture CCl₄/CS₂. Thermo-dynamic and structural properties.
Molecular Physics, **66**, 51 (1989)
44. U. Mittag, J. Samios, Th. Dorfmüller, St. Gunster and F. Zeidler
A comparative molecular dynamics and a neutron scattering study of the structure of the binary mixture CCl₄/CS₂.
Molecular Physics, **67**, 1141 (1989)

ΕΡΓΑΣΤΗΡΙΟ ΒΙΟΜΗΧΑΝΙΚΗΣ ΧΗΜΕΙΑΣ
LABORATORY OF INDUSTRIAL CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες
Ph. D. and Dozent Theses

1. N. Χατζηχριστίδης

Πρότυπα αστεροειδή πολυισοπρένια με 8 και 12 ίσους κλάδους.
Σύνθεση - Χαρακτηρισμός - Ιδιότητες.

Διατριβή για Υφηγεσία, 1978

N. Hadjichristidis

Model star polyisoprenes with 8 and 12 equal arms. Synthesis - Characterization - Properties.

Dozent Thesis, 1978

2. I. Αλεξόπουλος

Περί της επιδράσεως της πλευρικής ομάδος επί των ιδιοτήτων των πολυμεθακρυλικών εστέρων εν διαλύματι.

Διδακτορική διατριβή, 1978

J. Alexopoulos

The effect of the side group on the properties of polymethacrylates in dilute solution.

Ph. D. Thesis, 1979

3. Δ. Α. Κόκιαρης

Επίδραση του θείου της πλευρικής ομάδος επί της ευκαμψίας των πολυμεθακρυλικών εστέρων.

Διδακτορική διατριβή, 1979

D. A. Kokiaris

Influence of the sulfur in the side group on the flexibility of polymethacrylates.

Ph. D. Thesis, 1979

4. Α. Ιωάννου

Μελέτη φυσικών ιδιοτήτων προτύπων συμπολυμερών στυρενίου - ισοπρενίου.

Διδακτορική διατριβή, 1984

A. Ioannou

Study of physical properties of block copolymers of styrene - isoprene.
Ph. D. Thesis, 1984

5. M. Liouni

Εμβολιασμός μαλλιού με μεθακρυλικούς εστέρες. Χαρακτηρισμός -
Ιδιότητες.
Διδακτορική διατριβή, 1988

M. Liouni

Grafting of methacrylates onto wool. Characterization - Properties.
Ph. D. Thesis, 1984

B. Πρωτότυπες ερευνητικές εργασίες

Published research papers

1. J. Alexopoulos and N. Hadjichristidis

Poly(o-biphenyl methacrylate), a new polymer with negligible change of
intrinsic viscosity in different solvents.

Makromolekulare Chemie, 179, 549 (1978)

2. N. Hadjichristidis and J. E. L. Roovers

The conformation of poly(isoprene-g-styrene) in dilute solution.

Journal of Polymer Science, Physics, 16, 851 (1978)

3. K. Serassi-Kyriakou, N. Hadjichristidis et C. Touloupis

Formation de Lysinoalanine par traitement de la soi avec phosphate.

Chimika Chronika (New Series), 7, 161 (1978)

4. N. Hadjichristidis, A. Guyot and L. Fetters

The synthesis of star polyisoprenes using octa- and dodecachlorosilanes
as linking agent.

Macromolecules, 11, 668, (1978)

5. I. Tsangaraki-Kaplanoglou

Farben von Aluminium mit handelsüblichen Dispersionsfarbstoffen aus
wassrigen Lösungen.

Metalloberfläche, 32, 348 (1978)

6. J. Alexopoulos and N. Hadjichristidis
Solution properties and flexibility of (poly(2-biphenyl) methacrylate.
Makromolekulare Chemie, **180**, 455 (1979)
7. I. Tsangaraki-Kaplanoglou
Untersuchungen über die Eigenschaften von handelsüblichen Dispersionsfarbstoffen für das Einfärben von anodisiertem.
Metalloberfläche, **33**, 320 (1979)
8. N. Hadjichristidis and L. Fetters
Synthesis of 18-arm polyisoprene.
Macromolecules, **13**, 191 (1980)
9. B. Bauer, N. Hadjichristidis, L.J. Fetters and J.E.L. Roovers
The θ temperature depression for 8- and 12- arm polyisoprene in dioxane.
Journal of American Chemical Society, **102**, 2410 (1980)
10. G. Quack, N. Hadjichristidis, L. J. Fettters and R. Young
Aspects of linking dienyllithium chains with divinylbenzene.
Industrial Eng. Chem. Product Research and Development (JACS), **19**, 587 (1980)
11. I. Tsangaraki-Kaplanoglou
The influence of anodizing temperature on dyeing of aluminium with commercial disperse dyes from aqueous solutions.
Trans. of the Inst. of Metal Finishing, **58**, 78 (1980)
12. C. Touloupis and J. A. Rippon
Amphoteric shrink-resist polymers containing sulphonium and carbamoyl sulphonate groups for application to unchlorinated wool.
J. Text. Inst. **5**, 266 (1980)
13. Ch. Boussias, C. Touloupis and N. Hadjichristidis
A simple and fast detection method of Hercosset 57 in dilute solutions.
Text. Res. J., **50**, 209 (1980)
14. D. Kokkialis, C. Touloupis and N. Hadjichristidis
Solution properties and chain flexibility of polythiolmethacrylates:
1. Poly-(phenylthiolmethacrylate).
Polymer, **22**, 63 (1981)

15. N. Hadjichristidis, C. Touloupis and L. J. Fetters
Solution properties and chain flexibility of polythiolmethacrylates
2. Poly-(cyclohexylthiolmethacrylate).
Macromolecules, 14, 128 (1981)
16. Z. Xu, S. Mingshi, N. Hadjichristidis and L. J. Fetters
Method for gel permeation chromatography calibration and the evaluation of Mark - Houwink - Sakurada constants.
Macromolecules, 14, 1591 (1981)
17. C. Kow, N. Hadjichristidis, M. Morton and L. J. Fetters
Glass transition behavior of polyisoprene: the influence of molecular weight, terminal hydroxy groups and chain branching.
Rubber Chemistry and Technology, 55, 245 (1982)
18. N. Hadjichristidis, Z. Xu, J. Roovers and L. J. Fetters
The characteristic ratios of stereo-irregular polybutadiene and polyisoprene.
Journal of Polymer Sciences, Physics, 20, 743 (1982)
19. N. Hadjichristidis, C. Touloupis and S. Karvounis
Viscosity/temperature relationships for dilute solutions of poly-(2,4,5-trichloro-phenyl methacrylate).
Makromolekulare Chemie, 183, 611 (1982)
20. E. Von Meerwall, D.H. Tomich, N. Hadjichristidis and L. J. Fetters
Phenomenology of self-diffusion in star-branched polyisoprenes in solution.
Macromolecules, 15, 1157 (1982)
21. N. Hadjichristidis and L. J. Fetters
Effect of molecular chain branching on the refractive index increment of polystyrene and polyisoprene solutions.
Journal of Polymer Science, Physics, 20, 2163 (1982)
22. I. Tsangaraki-Kaplanoglou
The effect of pretreatment of anodized aluminium on the coloration with disperse dyes from aqueous solutions.
J. Soc. Dyers Col., 98, 440 (1982)
23. J. Roovers, N. Hadjichristidis and L. J. Fetters
Analysis and dilute solution properties of 12- and 18-arm star polystyrene.
Macromolecules, 16, 214 (1983)

24. N. Hadjichristidis, J. Mays, R.D. Vargo and L. J. Fetter
Properties and chain flexibility of poly(tetrahydro-4H-pyranyl-2-methacrylate).
Journal of Polymer Science, Physics, 21, 189 (1983)
25. D. Pearson, S. J. Mueller, N. Hadjichristidis and L. J. Fetter
Comparison of the rheological properties of linear and star-branched polyisoprenes in shear and elongational flows.
Journal of Polymer Science, Physics, 21, 2287 (1983)
26. Z. Xu, N. Hadjichristidis, J. M. Carella and L. J. Fetter
The characteristic ratios of atactic poly(vinyl ethylene) and poly(ethyl-ethylene).
Macromolecules, 16, 925 (1983)
27. E. Von Meerwall, D. H. Tomich, J. Grigsby, L. J. Fetter and N. Hadjichristidis
Self-diffusion of linear and three-armed polybutadienes and polystyrenes in CCl₄.
Macromolecules, 16, 1715 (1983)
28. N. Hadjichristidis
Viscosity and intrinsic viscosity/temperature relationships for dilute solutions of poly(2-biphenyl-methacrylate) biphenyl methacrylate).
Makromolekulare Chemie, 184, 1043 (1983)
29. Z. Xu, R. Qian, N. Hadjichristidis and L. J. Fetter
Molecular weight dependence of Huggins coefficient under theta conditions.
J. China University, Sci. and Technol., 14, 228 (1984)
30. X. Chen, Z. Xu, E. Von Meerwall, N. Hadjichristidis and L. J. Fetter
Self diffusion of linear 4- and 18-armed star in tetrachloromethane solutions.
Macromolecules, 17, 1343 (1984)
31. Z. Xu, N. Hadjichristidis and L. J. Fetter
Solution properties and chain dimensions of poly(n-alkylmethacrylates).
Macromolecules, 17, 2303 (1984)
32. J. Mays, N. Hadjichristidis and L. J. Fetter
Characteristic ratios of model polydienes and polyolefins.
Macromolecules, 17, 2723 (1984)

33. X. Chen, Z. Xu, N. Hadjichristidis, L. J. Fetter, J. Carella and W. W. Graessley
The effect of microstructure and molecular weight on the refractive index increment of polybutadiene in cyclohexane.
Journal of Polymer Science, Physics, 22, 777 (1984)
34. N. Hadjichristidis, J. Mays, W. Ferry and L. J. Fetter
Properties and chain flexibility of poly(di-isobornyl methacrylate).
Journal of Polymer Science, Physics, 22, 1745 (1984)
35. I. Tsangaraki-Kaplanoglou
Einfluss der Vorbehandlung von anodisierten Aluminium mit organischen Säuren beim Färben mit Dispersionsfarbstoffen.
Aluminium, 60, 3, 206 (1984)
36. N. Hadjichristidis and J. Roovers
Linear viscoelastic properties of mixtures of 3- and 4-arm polybutadiene stars.
Polymer, 26, 1087 (1985)
37. J. W. Mays, N. Hadjichristidis and L. J. Fetter
Solvent and temperature influences on polystyrene unperturbed dimensions.
Macromolecules, 18, 2231 (1985)
38. J. W. Mays, W. M. Ferry, N. Hadjichristidis and L. J. Fetter
Unperturbed dimensions of poly(2-chloroethylmethacrylate).
Macromolecules, 18, 2230 (1985)
39. Z. Xu, J. W. Mays, C. Xuexin, N. Hadjichristidis, F. C. Schilling, H. E. Bair, D.S. Pearson and L. J. Fetter
Molecular characterization of poly(2-methyl-1,3-pentadiene) and its hydrogenated derivative, atactic polypropylene.
Macromolecules, 18, 2560 (1985)
40. I. Tsangaraki-Kaplanoglou
Influence of anionic surface-active agents in the dyeing of aluminium.
Trans. of the Inst. of Metal Finishing, 63, 11 (1985)
41. A. B. Nguyen, N. Hadjichristidis and L. J. Fetter
Static Light-scattering study of high molecular weight 18-arm star block copolymers.
Macromolecules, 19, 768 (1986)

42. J. W. Mays, W. M. Ferry, N. Hadjichristidis, W. Funk and L. J. Fetter
Solution properties and chain flexibility of poly(p-tert-butylstyrene).
Polymer, **27**, 129 (1986)
43. Z. Xu, B. Li, C. Kow, N. Hadjichristidis and L. J. Fetter
SEC calibration from broad distribution polymer samples.
Polymer Communication, **27**, 182 (1986)
44. J. W. Mays, N. Hadjichristidis, W. W. Graessly and I. J. Fetter
Temperature dependencies for the unperturbed dimensions for stereo-
irregular 1,4-polybutadiene and poly(a-methyl styrene).
Journal of Polymer Science, Physics, **24**, 2553 (1986)
45. I. Tsangaraki-Kaplanoglou
The use of nonionic surface-active agents and organic acids on the dyeing
of aluminium with disperse dye.
Chimika Chronika (New Series), **15**, 71, (1986)
46. N. S. Davidson, L. J. Fetter, W. G. Funk, N. Hadjichristidis and W. W. Graessley
Measurements of chain dimensions in dilute polymer solutions: a light
scattering and viscometric study of linear polyisoprene in cyclohexane.
Macromolecules, **20**, 2614 (1987)
47. N. Khasat, P. Pennisi, N. Hadjichristidis and L. J. Fetter
The dilute solution behaviour of 3-arm asymmetric and regular 3- and
12-arm polystyrene stars.
Macromolecules, **21**, 1100 (1988)
48. J. Mays, N. Hadjichristidis and L. J. Fetter
Star branched polystyrenes: An evaluation of solvent and temperature
influences on unperturbed chain dimensions.
Polymer, **29**, 680 (1988)
49. L. J. Fetter, W. Graessley, N. Hadjichristidis, A. Kiss, D. Pearson
and L. Younghouse
Association behaviour of end-functionalized polymers. 2. Melt rheology
of polyisoprenes with carboxylate, amine and zwitterion end groups.
Macromolecules, **21**, 1644 (1988)

50. N. Davidson, L. J. Fetters, W. Funk, W. Graessley and N. Hadjichristidis
Association behaviour of end-functionalized polymers. 1. Dilute solution properties of polyisoprenes with amine and zwitterion end groups.
Macromolecules, **21**, 112 (1988)
51. G. Fytas, G. Floudas and N. Hadjichristidis
Optical anisotropy of linear and star polyisoprene by depolarized Rayleigh scattering.
Polymer Communication, **29**, 322 (1988)
52. J. Mays and N. Hadjichristidis
Characteristic ratios of polymethacrylates
Journal of Macromolecules Science, **C28**, 371 (1988)
53. M. Liouni, C. Touloupis, N. Hadjichristidis and J. Mays
Viscosity/temperature relationships for linear and star polystyrenes in dilute solution.
Journal of Applied Polymer Science, **37**, 2699 (1989)
54. B. Bauer, L. J. Fetters, W. Graessley, N. Hadjichristidis and F. Quack
Chain dimensions in dilute polymer solutions: a light scattering and viscometric study of multi-armed polyisoprene stars in good and theta solvents.
Macromolecules, **22**, 2337 (1989)
55. G. McKenna, B. Hostetter, N. Hadjichristidis, L. Fetters and D. Plazek
A study of the linear viscoelastic properties of cyclic polystyrenes using creep and recovery measurements.
Macromolecules, **22**, 1834 (1989)
56. E. Siakali-Kioula, N. Hadjichristidis and J. Mays
Synthesis and properties of polymethacrylates with alicyclic side groups.
Macromolecules, **22**, 2059 (1989)
57. J. Mays, J. Lindner and N. Hadjichristidis
Application of extrapolation procedures to viscosity data below the theta temperature.
Polymer Communication, **30**, 174 (1989)
58. J. Mays and N. Hadjichristidis
Synthesis of high molecular weight near monodisperse poly(α -methylstyrene) by anionic polymerization.
Polymer Bulletin, **22**, 471 (1989)

59. Z. Tuzar, P. Kratochvil, K. Prochazka, K. Contractor and N. Hadjichristidis
Solution behavior of a graft copolymer in selective solvents for its backbone and grafts.
Makromolekulare Chemie, 190, 2967 (1989)
60. A. Ioannou and N. Hadjichristidis
Electrical resistivity of glassy block copolymers and corresponding states relationship.
Chimika-Chronika (New Series), 18, 215 (1989)
61. A. Ιωάννου
Συμβολή στον προσδιορισμό των μοριακών βάρους των κατά συστάδες συμπολυμερών στυρενίου -ισοπρενίου με τη μέθοδο Benoit.
Chimika-Chronika (New Series), 18, 239 (1989)
A. Ioannou
Molecular weight determination of styrene - isoprene block copolymers by Benoit method
Chimika-Chronika (New Series), 18, 239 (1989)
62. I. Tsangaraki-Kaplanoglou, R. Moshohoritou and N. Kontos
The use of a natural dye in the formation of a thin coloured coating on an aluminium surface.
J. Soc. Dyer Col. 105, 115 (1989)

ΕΡΓΑΣΤΗΡΙΟ ΧΗΜΕΙΑΣ ΤΡΟΦΙΜΩΝ
LABORATORY OF FOOD CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες

Ph. D. and Dozent Theses

1. Σ. Ε. Τσαμπέρης

Φυσικά σύμπλοκα γαγγλιοζιτών και γλυκοπρωτεΐνών με ανασολογική δράση.

Διδακτορική διατριβή, 1980

S. E. Tsamperis

Natural complexes of gangliosides and glycoproteins with immune action.

Ph. D. Thesis, 1980

2. Σ. Σινούρη

Συμβολή στη μελέτη της τριγλυκεριδικής σύστασης του ελαιολάδου και του βαμβακελαίου. Εφαρμογή στην ανεύρεση της νοθείας.

S. Sinouri

Study of the oil and cotton-seed oil triglyceride composition. Apply in adulteration detection.

Ph. D. Thesis, 1981

3. Γ. Ν. Αθανασίου

Απομόνωση και μελέτη του εξωενζύμου αποικοδόμησης γλυκερινα-θέρων του πρωτόζωου *Tetrahymena pyriformis*.

Διδακτορική διατριβή, 1982

G. N. Athanasiou

Isolation and study of glycerylether degrading exoenzyme of *Tetrahymena pyriformis*.

Ph. D. Thesis, 1982

4. Β. Α. Ρεβίθη

Μελέτη της επιδράσεως του παράγοντος ενεργοποιησης αιμοπεταλίων (PAF) στη βιοσύνθεση προσταγλανδινών *in vivo* στο πρωτόζωο *Tetrahymena pyriformis*.

Διδακτορική διατριβή, 1983

V. A. Revithi

Study of the effect of platelet-activating factor (PAF) in the in vivo biosynthesis of prostaglandins in *Tetrahymena pyriformis*.

Ph. D. Thesis, 1983

5. N. Ανδρικόπουλος

Λιποειδή της γύρης του πεύκου *Pinus halepensis*: Μελέτη της χημικής σύστασης και της βιολογικής τους δράσης σε σχέση με τον παραγόντα ενεργοποίησης αιμοπεταλίων (PAF) και την αλλεργία.

Διδακτορική διατριβή, 1983

N. Andrikopoulos

Lipids of *Pinus halepensis* pollen: Study on its chemical composition and biological activity, in relation with platelet activating factor (PAF) and allergy.

Ph. D. Thesis, 1983

6. Π. Θ. Ιωαννίδη

Μελέτη της χημικής σύστασης του φλοιού της ρίζας και της βιολογικής δράσεως των φύλων του βαμβακόφυτου *Gossypium hirsutum*.

Διδακτορική διατριβή, 1984

P. Th. Ioannidis

Study of the chemical composition of the bark of the root and study of the biological action of the leaves of the *Gossypium hirsutum*.

Ph. D. Thesis, 1984

7. N. Τζαμπούρ

Συμβολή στη μελέτη της τριγλυκεριδικής σύστασης των ελαιών. Σύγκριση με τις θεωρίες της τριγλυκεριδικής σύστασης.

Διδακτορική διατριβή, 1985

N. Tzabour

Study of the oils triglyceride composition. Comparison with the theories of the triglyceride composition.

Ph. D. Thesis, 1985

8. I. K. Νάκελ

Απομόνωση και ταυτοποίηση των λιποειδών της Μέδουσας *Pelagia noctiluca*.

Διδακτορική διατριβή, 1986

I. C. Nakhel

Isolation and identification of the lipids of the Medusa *Pelagia noctiluca*.

Ph. D. Thesis, 1986

9. E. I. Σταυρακάκη

Μελέτη των λιποειδών του χερσαίου γαστερόποδου *Eobania vermiculata*.
Διδακτορική διατριβή, 1986

H. J. Stavrakakis

Study of the lipids of the land gastropod *Eobania vermiculata*.

Ph. D. Thesis, 1986

10. M. Ανδριώτης

Μελέτη της επιδρασης του PAF σε διάφορους μικροοργανισμούς και διερεύνηση της δυνατότητας έκλισης PAF από αυτούς.

Διδακτορική διατριβή, 1989

M. Adriotis

Study on the effect of PAF in microorganisms: production of PAF by microorganisms.

Ph. D. Thesis, 1989

B. Πρωτότυπες ερευνητικές δημοσιεύσεις

Published research papers

1. C. A. Demopoulos, R. N. Pinckard and D. J. Hanahan

Platelet Activating Factor, evidence for 1-O-alkyl-2-acetyl-sn-glyceryl-3-phosphorylcholine as the active component. (A new class of lipid chemical mediators).

Journal of Biological Chemistry, 254, 9355 (1979)

2. J. A. Garnie, D. G. Smith and M. Mavris-Vavayannis

Effects of insulin on lipolysis and lipogenesis in adipocytes from genetically obes (Ob/Ob) mice.

Biochemical Journal 184, 107 (1979)

3. D. J. Hanahan, C. A. Demopoulos, J. Liehr and R. N. Pinckard

Identification of naturally occurring platelet activating factor as acetyl-glyceryl-ether-phosphorylcholine (AGEPC).

Journal of Biological Chemistry, 255, 5514 (1980)

LABORATORY OF FOOD CHEMISTRY

4. R. N. Pinckard, L. M. Mcmanus, C. A. Demopoulos, M. Halonen, P. O. Clark, J. O. Shaw, W. T. Kniker and D. J. Hanahan
Molecular pathobiology of acetyl-glyceryl-ether-phosphoryl-choline (AGEPC). Evidence for the structural and functional identity with platelet activating factor (PAF).
Journal of Reticuloendothelial Society, 28,95S (1980)
5. L. M. Mcmanus, D. J. Hanahan, C. A. Demopoulos and R. N. Pinckard
Pathobiology of intravenous infusion of acetyl-glyceryl-etherphosphorylcholine (AGEPC), a synthetic platelet activating factor (PAF), in rabbit.
Journal of Immunology 124, 2919 (1980)
6. C. A. Demopoulos, G. E. Tsabikakis and V. M. Kapoulas
Intravascular pathobiology of acetyl-glyceryl-ether-phosphorylcholine (AGEPC). Intravenous infusion in guinea pigs.
Immunology Letters, 3, 133 (1981)
7. V. M. Kapoulas, G. N. Athanasiou and C. A. Demopoulos
Glyceryl-ether exisizing expenzyme from *T. pyriformis*.
Chimika Chronika (New Series), 10, 203 (1981)
8. V. M. Kapoulas and S. Passaloglou-Emmanouilidou
Detection of adulteration of olive oil with seed oils by a combination of column and gas-liquid chromatography.
Journal of American Oil Chemists, 38, 694 (1981)
9. S. K. Mastronicolis, V. M. Kapoulas and H. Kroger
The isolation of antibodies specific for 5-methyl-cytidine-bovine serum albumin.
Zeitschrift für Naturforschung, 36c, 459 (1981)
10. S. K. Mastronikolis, V. M. Kapoulas and H. Kroger
Mono-specific antibody against 5-methyl-cytidine for the structural analysis of nucleic acids.
Zeitschrift für Naturforschung, 37c, 399 (1982)
11. E. Lanara, C. Vakirtzis-Lemonia, L. G. Kritikou and C. A. Demopoulos
Responce of mice and mouse platelets to AGEPC.
Biochemica and Biophysica Research Comunication, 109, 1148 (1982)

12. G. E. Tsabikakis and C. A. Demopoulos
AGEPC (synthetic PAF): A new mediator which activates platelets and acts as a potent allergen.
Iatriki, 41, 450 (1982)
13. D. Galanopoulou, W. P. Williams and P. J. Quinn
Structural studies of plant lipid dispersions subjected to oxidation in the presence of decomposing peroxychromate.
Biochimica et Biophysica Acta, 713, 315 (1982)
14. D. G. Galanopoulou, R. F. G. Booth and P. J. Quinn
Protection by ubiquinol against lipid peroxidation.
Biochemical Society Transactions, 10, 20 (1982)
15. R. F. G. Booth, D. G. Galanopoulou and P. J. Quinn
Protection by ubiquinone and ubiquinol against lipid peroxidation in egg yolk phosphatidylcholine liposomes.
Biochemistry International, 5, 151 (1982)
16. M. C. Moschidis, C. A. Demopoulos and L. G. Kritikou
Phosphono-platelet activating factor: I."Synthesis of 1-O-hexadecyl-2-O-acetyl-glyceryl-3-(2-trimethylammoniummethyl)phosphonate and its platelet activating potency.
Chemistry and Physics of Lipids, 33, 87 (1983)
17. C. A. Demopoulos, M. C. Moschidis and L. G. Kritikou
TLC separation of phosphonolipids from their phospholipid analogues.
Journal of Chromatography, 2, 373 (1983)
18. M. C. Moschidis and C. A. Demopoulos
Silicic acid column chromatography of phosphonolipids: Separation of 1-O-alkyl-2-acetyl-sn-glyceryl-3-phosphocholine from 1-O-alkyl-2-acetyl-sn-glyceryl-3-phosphorylcholine, cardiolipid and other related phospholipids.
Journal of Chromatography, 259, 504 (1983)
19. S. K. Mastronikolis and V. M. Kapoulas
Chemistry, Biochemistry and nutritional aspects of natural phosphono-compounds. I. Glycerophosphonolipids.
Chimika Chronika (New Series), 12, 119 (1983)

20. C. A. Demopoulos, N. Siafaka-Kapadai, A. D. Tselepis and V. M. Kapoulas
In vivo effects of acetyl glyceryl ethel phosphorylcholine (AGEPC) on rats.
Chimika Chronika (New Series), 13, 245 (1984)
21. M. C. Moschidis, C. A. Demopoulos and L. G. Kritikou
Isolation of hens'egg phosphonolipids by thin-layer chromatography, their idendification and silicid acid column chromatographjc separation.
Journal of Chromatography, 292, 473 (1984)
22. M. C. Moschidis and C. A. Demopoulos
Silicic acid column chromatography of phosphonolipids: VII separation of 1-O-acetyl-3-O-glyceryl-phosphonate, 1-O-alkyl-2,3-glyceryl-biphosphonate and 1,2-dioleyl-3-O-glyceryl-phosphonate from their phosphoryl analogs and other lipids and phospholipids.
Journal of Chromatography, 294, 403 (1984)
23. K. Α. Δημόπουλος
Παράγοντας ενεργοποιηστης των αιμοπεταλίων (P.A.F).
Αρχείο Ιατρικών Εταιρειών, 1, 88 (1984)
C. A. Demopoulos
Platelet-activating factor (PAF).
Archives of Hellenic Medicine 1, 88 (1984)
24. I. A. Komaitis and E. Melissari-Panayiotou
Determination of Protein in Cheese by Dye-Binding.
Chimika Chronika (New Series), 13, 239-243 (1984)
25. V. M. Kapoulas, S. K. Mastronikolis, I. C. Nakhel and H. J. Stavrakakis
A micromethod for rapid quantitative determination of phosphonate phosphorus.
Zeitschrift für Naturforschung, 39c, 249 (1984)
26. S. K. Mastronikolis, I. C. Nakhel, V. M. Kapoulas and D. S. Galanos
On the sphingophosphonolipids of *Pelagia noctiluca*.
Chimika Chronika (New Series), 13, 149 (1984)
27. H. J. Stavrakakis, S. K. Mastronikolis and D. S. Galanos
Complex glyco and phosphonolipids in a terrestrial mollusc.
Chimika Chronika (New Series), 14, 117 (1985)

28. M. C. Moschidis and C. A. Demopoulos
Phosphono platelet activating factor: Synthesis of 2-acetamido-2-deoxy-1-octadecyl glycerol-3-(2-trimethylammoniumethyl) and(2-aminoethyl)-phosphonates.
Chemistry and Physics of Lipids, 37, 4552, (1985)
29. N. K. Andrikopoulos, A. Siafaka-Kapadai, C. A. Demopoulos and V. M. Kapoulas
Lipids of *Pinus Halepensis* pollen.
Phytochemistry, 24, 2953 (1985)
30. V. M. Kapoulas and S. Miniadou-Meimaroglou
Composition and distribution of lipids in tissues of Bogue (Boops boops).
Zeitschrift für Naturforschung, 40c, 562 (1985)
31. A. Siafaka-Kapadai, C. A. Demopoulos and N.K. Andrikopoulos
Biological activity of lipids of pine pollen on platelet aggregation in correlation with the platelet activating factor.
Biochemistry International 12, 33 (1986)
32. N. K. Andrikopoulos, A. Siafaka-Kapadai, N. Yanovits-Arkyriadis and C. A. Demopoulos
Evidence for the presence of neutral glyceryl-ether derivatives in pollen lipids of pine tree *Pinus Halepensis*.
Zeitschrift für Naturforschung, 41b, 396 (1986)
33. N. K. Andrikopoulos, C. A. Demopoulos and A. Siafaka-Kapadai
High-performance liquid chromatographic analysis of platelet-activating factor on a cation-exchange column by direct ultraviolet detection.
Journal of Chromatography, 363, 412 (1986)
34. A. Tselepis, D. Tsoukatos, C. A. Demopoulos and V. M. Kapoulas
Effects of AGEPC on the intracellular levels of ions in *Tetrahymena pyriformis*.
Biochemistry International, 13, 999 (1986)
35. A. D. Tselepis, A. Evangelou, D. Tsoukatos, C. A. Demopoulos and V. M. Kapoulas
Electrocardiographic alteration induced by AGEPC in wistar rats in relation to its hypotensive and hematologic effects.
Comparative Biochemistry and Physiology, 87C, 41 (1987)

36. M. E. Komaitis, N. Ifanti-Papatrayianni and S. Passaloglou-Emmanouilidou
Total glycoalkaloid content of five varieties of potatoes. Effect of
temperature, light and time of storage.
Chimika Chronika (New Series), **16**, 47 (1987)
37. D. Kelefiotis, E. Lanara, C. Vakirtzis-Lemonia, A. Siafaka, M. Mavris,
M. Lazanas and C. A. Demopoulos
Study of digoxin as inhibitor of the in vivo effects of acetyl glyceryl
ether phosphorylcholine (AGEPC) in mice.
Life Sciences, **42**, 623 (1988)
38. M. Lazanas, C. A. Demopoulos, S. Tournis, S. Koussisis, K. Labrakis-
Lazanas and X. Tsarouchas
PAF of biological fluids in disease: IV. Levels in blood in allergic
reactions induced by drugs.
Archives of Dermatological Research, **280**, 124 (1988)
39. C. A. Demopoulos, N. K. Andrikopoulos and R. Stathopoulou-Sparou
Abnormal platelet response to PAF and ADP in β -Thalassaemia.
International Journal of Biochemistry, **20**, 599 (1988)
40. Α. Δ. Τσελέπης, Α. Ευαγγέλου, Δ. Τσουκάτος, Κ. Α. Δημόπουλος και
Β. Μ. Καπούλας
Η πιθανή συμμετοχή του παράγοντα ενεργοποίησης των αιμοπεταλίων
(PAF) στην καρδιακή αναφυλαξία των επίμυων.
Iatρική, **53**, 303 (1988)
A. D. Tselepis, A. Evangelou, D. Tsoukatos, C. A. Demopoulos and V. M.
Kapoulas
The possible contribution of platelet-activating factor in rat cardial
anaphylaxis.
Iatriki, **53**, 303 (1988)
41. K. Labrakis-Lazanas, M. Lazanas, S. Koussisis, S. Tournis and C. A.
Demopoulos
PAF of biological fluids in disease: Blood levels in allergic rhinitis.
Haematologica, **3**, 379 (1988)

42. M. Lazanas, C. A. Demopoulos, K. Labrakis-Lazanas, X. Tsarouchas and S. Koussissis
PAF of biological fluids in disease. Levels in blood in posttransfusion reactions.
IRCS Medical Science (Pharmacology), **16**, 681 (1988)
43. W. Chao, A. Siafaka-Kapadai, D. J. Hanahan and M. S. Olson
Biosynthesis of platelet activating factor (PAF) by cultured rat kupffer cells stimulated by calcium ionophore.
The FASEB Journal, **2(5)**, A 1376 (1988)
44. I. C. Nakhel, S. K. Mastronikolis and S. Miniadis-Meimaroglou
Phospho- and phosphonolipids of the Aegean pelagic scyphomedusa *Pelagia noctiluca*.
Biochimica Biophysica Acta, **958**, 300 (1988)
45. H. J. Stavrakakis, S. K. Mastronikolis and V. M. Kapoulas
Lipid composition and structural studies on lipids from the land snail *Eobania vermiculata*.
Zeitschrift für Naturforschung, **44c**, 597 (1989)
46. W. Chao, A. Siafaka-Kapadai, M. S. Olson and D. J. Hanahan
Biosynthesis of platelet activating factor (PAF) by cultured rat kupffer cells stimulated by calcium ionophore A 23187.
Biochemical Journal, **257**, 823 (1989)
47. W. Chao, A. Siafaka-Kapadai, D. J. Hanahan and M. S. Olson
Metabolism of platelet-activating factor (PAF: 1-O-alkyl-2-acetyl-sn-glycero-phosphocholine) by cultured rat kupffer cells.
Biochemical Journal, **261**, 77 (1989)
48. N. K. Andrikopoulos, V. A. Tzamtzis, G. A. Giannopoulos, G. K. Kalantzopoulos and C. A. Demopoulos
Deterioration of some vegetable oils. I. During heating or flying of several foods.
Revue Francaise des Corps Gras., **36**, 127 (1989)
49. N. K. Andrikopoulos and C. A. Demopoulos
Deterioration of some vegetable oils. II. After two years storage of fried and non fried samples.
Revue Francaise des Corps Gras., **36**, 213 (1989)

50. Χ. Ιατρού, Κ. Α. Δημόπουλος και Π. Ν. Ζηρογιάννης
Παράγοντας ενεργοποίησης των αιμοπεταλίων και νεφρός.
Ελληνική Νεφρολογία, 1, 241 (1989)

Ch. Iatrou, C. A. Demopoulos and P. N. Zyrogianes
Platelet-activating factor and kidney.
Hellenic Nephrology, 1, 241 (1989)