

**ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ**

ΤΜΗΜΑ ΧΗΜΕΙΑΣ

**ΠΕΠΡΑΓΜΕΝΑ
ΕΡΕΥΝΗΤΙΚΗΣ ΔΡΑΣΤΗΡΙΟΤΗΤΑΣ**

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UNIVERSITY OF ATHENS

DEPARTMENT OF CHEMISTRY

RESEARCH ACTIVITY

1978 – 1989



1992

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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 επίσηυση 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 Υψηγεία, 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 Πρόεδρο του Τμήματος Χημείας Κ. Ευσταθίου τον οποίο και ευχαριστούμε θερμότατα. Επίσης ευχαριστούμε τους Αναπλ. Καθηγητές Μ. Κουμπάρη, Κ. Δημόπουλο και τους Επικ. Καθηγητές Αθ. Γιωτάκη, Θ. Καλογεράκο, Ι. Μαρκόπουλο, που ανέλαβαν τη συλλογή των τίτλων των δημοσιεύσεων από το κάθε Εργαστήριο.

Νίκος Χατζηρησιτίδης
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. Φριλιγκος
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. Scoullou
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 νουκλεοσιδια.
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 Υψηγεία, 1981

A. T. Tsatsas
Spectroscopic studies of ions and metal complexes attached to a polymeric substrate.
Dozent Thesis, 1981

7. Ι. Μ. 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. Α. 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. Παπαρρηγοπούλου-Καμαριωτάκη
Μελέτη συμπλόκων νιοβίου(III) με οξαλικά και τρυγικά ιόντα σε υδατικά διαλύματα.
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- M. Paparrigoroulou - 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 tantalium complexes in its low oxidation states.
Ph. D. Thesis, 1982
11. Γ. Κ. Καλαντζής
Συμβολή στη μελέτη των αντιδράσεων δισθενούς και τρισθενούς βαναδίου με θειοιοενώσεις.
Διδακτορική Διατριβή, 1983
- G.K. Kalantzis
Contribution to the study of the reactions of V(II) and V(III) with thio-
late compounds.
Ph. D. Thesis, 1983
12. Η. Ι. Χοντζόπουλος
Σύνθεση νέων διθειολενικών συμπλόκων και χρήση του 2-χλωρο-διθειο-
βενζυλο-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-dithio-
benzyl-nickel(II) for the photocatalytic evolution of H₂ from water.
Ph. D. Thesis, 1983

13. Ε. Τσελέπη-Καλούδη
Σμπλοκα 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. Δημοτικήλη
Φωτοχημεία 1:12 ετεροπολυβολφραμικών αλάτων και 2:18 φωσφορομολυβδαινικού αμμωνίου.
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- 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. Κοϊνής
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
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Διδακτορική διατριβή, 1987

- M. Kravaritou
The reactivity of complexes containing multiple "Mo-Mo" bonds.
Ph. D. Thesis, 1987
18. A. Shehadeh
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Synthesis and study of $\text{Ru}_2(\mu\text{-O}_2\text{CCH}_3)_4$ and of hexanuclear clusters of Re;
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19. Μ. Κ. Παπαδάκη
Υδρολυτικές, οξειδοαναγωγικές και φωτοχημικές αντιδράσεις του συμπλόκου δις-[1-(4-μεθοξυφαινυλο)-2-φαινυλο-1,2-αιθυλενοδιθειολενικού-S,S'] νικελίου.
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- M. K. Papadaki
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20. Χ. Α. Μητσοπούλου
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- Ch. A. Mitsopoulou
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21. Μ. Ι. Δασενάκης
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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
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1. C. Chassapis and G. Pneumatikakis
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4. D. Katakis, J. Konstantatos, N. Katsaros and E. Vrachnou-Astra
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5. D. Katakis and M. Scoullou
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6. J. K. Creen, K. Mertis and G. Wilkinson
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8. G. Pneumatikakis and N. Hadjiliadis
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19. M. Skoullou, F. Oldfield, R. Thompson and K. Tolonel
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Kinetics and mechanisms of aquation of some σ -bonded organochromi-
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The interaction of hydrogen with tri- μ -chloro-hexakis (trimethylsilylmethyl)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).
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Gold complexes of purine and pyrimidine nucleosides.
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38. F. Piperaki, N. Katsaros and D. Katakis
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Chimika Chronika (New Series), 11, 11 (1982)
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Marine Pollution Bulletin, **14**, 1, 24 (1983)
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lexes of Pd(II).
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ΕΡΓΑΣΤΗΡΙΟ ΑΝΑΛΥΤΙΚΗΣ ΧΗΜΕΙΑΣ
LABORATORY OF ANALYTICAL CHEMISTRY

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

1. Δ. Π. Νικολέλης
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- C. E. Efstathiou
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S. V. Psaroudakis

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J. G. Pentari

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19. Ι. Ι. Κούκλη

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I. I. Koukli

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20. Λ. Γ. Βύρας

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L. G. Viras

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LABORATORY OF ORGANIC CHEMISTRY

A. Διδακτορικές Διατριβές και Υφηγεσίες
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6. Μ. Ζουριδου-Λιάπη

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ΕΡΓΑΣΤΗΡΙΟ ΦΥΣΙΚΟΧΗΜΕΙΑΣ
LABORATORY OF PHYSICAL CHEMISTRY

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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.

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B. Πρωτότυπες ερευνητικές εργασίες
Published research papers

1. A. Mavridis

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

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

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6. A. Mavridis and J. F. Harrison
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7. A. Mitsou-Clappas and K. Viras
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8. A. Lycourgiotis, D. Vattis and Ph. Aroni
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10. I. Providaki-Molinou
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J. Papaioannou, I. Providaki-Molinou and A. Mavridis
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Journal of Physical Chemistry, **93**, 3479 (1989)
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ΕΡΓΑΣΤΗΡΙΟ ΒΙΟΜΗΧΑΝΙΚΗΣ ΧΗΜΕΙΑΣ
LABORATORY OF INDUSTRIAL CHEMISTRY

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

1. N. Χατζηχρηστίδης
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Σύνθεση - Χαρακτηρισμός - Ιδιότητες.
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N. Hadjichristidis
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2. I. Αλεξόπουλος
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J. Alexopoulos
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3. Δ. Α. Κόκιαρης
Επίδραση του θείου της πλευρικής ομάδος επί της ευκαμψίας των πολυμεθακρυλικών εστέρων.
Διδακτορική διατριβή, 1979

D. A. Kokiaris
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Ph. D. Thesis, 1979
4. Α. Ιωάννου
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Διδακτορική διατριβή, 1984

A. Ioannou

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5. M. Λιούνη

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Διδακτορική διατριβή, 1988

M. Liouni

Grafting of methacrylates onto wool. Characterization - Properties.

Ph. D. Thesis, 1984

B. Πρωτότυπες ερευνητικές εργασίες

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

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5. I. Tsangaraki-Kaplanoglou

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49. L. J. Fetters, W. Graessley, N. Hadjichristidis, A. Kiss, D. Pearson and L. Younhouse
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51. G. Fytas, G. Floudas and N. Hadjichristidis
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54. B. Bauer, L. J. Fetters, W. Graessley, N. Hadjichristidis and F. Quack
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55. G. McKenna, B. Hostetter, N. Hadjichristidis, L. Fetters and D. Plazek
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56. Ek. Siakali-Kioulafa, N. Hadjichristidis and J. Mays
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61. A. Ιωάννου
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- A. Ioannou
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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 γλυκοπρωτεϊνών με αναστολογική 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 γλυκεριναιθέρων του πρωτόζωου *Tetrahymena pyriformis*.
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G. N. Athanasiou
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4. Β. Α. Ρεβίθη
Μελέτη της επιδράσεως του παράγοντος ενεργοποίησης αιμοπεταλίων (PAF) στη βιοσύνθεση προσταγλανδινών in vivo στο πρωτόζωο *Tetrahymena pyriformis*.
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V. A. Revithi

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5. Ν. Ανδρικόπουλος

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Διδακτορική διατριβή, 1983

N. Andrikopoulos

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6. Π. Θ. Ιωαννίδη

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

Διδακτορική διατριβή, 1984

P. Th. Ioannidis

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7. Ν. Τζαμπούρ

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N. Tzabour

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8. Ι. Κ. Νάκελ

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I. C. Nakhel

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9. E. I. Σταυρακάκη

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H. J. Stavrakakis

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10. M. Ανδριώτης

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M. Adriotis

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