

CURRICULUM VITAE
CONSTANTINOS A. GEORGIU
Professor, Analytical Chemistry
DEC 2020

www.aua.gr/georgiou

<https://goo.gl/WLNR3K>

- PERSONAL** : Born in Athens, Greece 1961, Married, two daughters (b. 2006 & 2008).
- ADDRESS** : Agricultural University of Athens, Chemistry Laboratory, 75 Iera Odos, Athens 11855, Greece, tel. +30-2105294248, Email: cag@aua.gr
- EDUCATION** : PhD, Analytical Chemistry, University of Athens, Greece 1990.
BSc, Chemistry, University of Athens, Greece 1984.
- LANGUAGES:** Greek, mother tongue; English, excellent.

RESEARCH AND PROFESSIONAL ACTIVITIES

1. Agricultural University of Athens, Greece: Professor 2009 – ; Associate Professor 2001; Assistant Professor, 1995.
2. University of Belgrade, Serbia, Professor, 2017-
3. Greek Open University, Patras: Professor, 2001 – 2005.
4. Agia Eleni Hospital, Biochemist in Chief, Biochemical and Immuno Assays, Athens, Greece 1991 – 1995.
5. Programming & Analysis, training, ELKEPA, Athens, Greece, 1987 – 1988.
6. University of Athens, Analytical Chemistry Laboratory, Doctoral Research, Flow Injection in Pharmaceutical Analysis, Athens, Greece 1986 – 1990 (M. Koupparis).
7. Air Force Laboratory, Analyst, fuel and oil analyses, Athens, Greece 1985 – 1986.
8. University of Patras, Chemical Engineering and High Temperature Processes Research Institute, Research Associate, Surface Enhanced Raman Spectroscopy, Patras, Greece 1984 – 1985. (G. Papatheodorou)
9. Kern Forschung Anlage, training, Voltammetric Techniques, Juelich, Germany 1982. (H. Nurnmberg)

POST DOCTORAL COLLABORATORS

1. Georgios Danezis, OCT/2019–, “Elemental metabolomics” Foodomics.GR Research Infrastructure – Comprehensive Food Characterization MAR/2017–MAR/2019. IKY fellow, “Elemental metabolomics for authentication of milk and milk products”
2. Madina Tsountsaeva, JAN-MAR/2005. Current job: Researcher, Laboratory of Chemical Analysis, Institute of Structural Macrokinetics and Materials Science, Russian Academy of Sciences.
3. Yaroslava Makarovska, MAR-MAY/2005. Current job: Researcher, University of Antwerp - Department of Chemistry, Micro- and Trace Analysis Center, Belgium.
4. Nicolaos Thomaidis, JAN/1998-JAN/1999. Current job: Professor, Department of Analytical Chemistry, University of Athens, Greece.

SUPERVISOR of PhD STUDENTS

1. Konstantinos Gkliatis (Anticipated in 2021): *Clinical analyzers in the food laboratory: Quality control of oils.*
2. Evagelia Ioannou (Anticipated in 2021): *Sesame oil lignans isolation and study of sesame oil addition effect on the quality characteristics of olive oil and high oleic acid sunflower oil, during frying.*
3. Spyros Drivelos (2020): *Elemental metabolomics: Development of elemental fingerprinting for food authentication.*

4. Georgios Danezis (2016): *Food Authentication: Development of analytical methods for determination of rare earth elements as an indicator of geographical origin.*
5. Eystathios Vassileiou (2016): *Fluidics automation in analytical chemistry.*
6. Marie Curie Scholar, Justyna Lukasiak (2013): *Development of microbial biosensors for food ingredient assessment.*
7. Marie Curie Scholar, Lucyna Lekawska (2013): *Automated methods for lean green food processes.*
8. Efstratios Komaitis (2011): *Bioluminescence whole cell biosensors, in fluidic analysis.*
9. Katerina Minioti (2009): *Novel methods for total antioxidant activity determination – application in olive oil.*
10. Konstantina Pouli (2009): *Synchronous scan fluorescence in edible oil analysis.*
11. Stavroula Skoulika (2001): *Quantitative determination of pesticides and pharmaceuticals through Raman spectroscopy.*
12. Panayotis Nouros (2001): *Flow injection methods for olive oil quality assessment.*

RESEARCH

Food Authentication <https://bit.ly/2CsGo1q>

Elemental metabolomics <https://goo.gl/PoGfLb>

Fluorescence Spectroscopy, bio-luminescence // Biosensors // Olive Oil Quality Control - Oxidative Stress

FUNDED RESEARCH PROGRAMS, 3,0 M €

1. *FoodOmics.GR*, large research infrastructure partner, Elemental Metabolomics, General Secretariat of Research and Technology, Greece, 2017-2020. 400,000 €, total budget, 4 M€.
2. *Updatest, Training professionals and students on new testing technologies for the food sector*, European Union, KA2 ERASMUS+, partner, 2016-2018. 50,000 €, total budget, 400,000 €. <http://updatest.eu/updatest-project/description/>
3. *Rapid spectroscopic methods for assessment of olive oil quality and adulteration*, SPECTRAOIL, Bilateral Greek-Romanian R&D Program, Republic of Romania, 2012 – 2014, 15,000 €.
4. *LeanGreenFood-enzyme technology for Lean and Green Food processing*, European Union, FP 7 Marie Curie Actions-Networks for Initial Training (ITN), WP leader: Novel analytical technologies and Member of the Supervisory Board. 2009 – 2013. 628,922 €, total budget: 2,000,000 €.
5. *Reinforcing of nanotechnology and functional materials centre at faculty of technology and metallurgy*, University of Belgrade, NANOTECH FTM FP7-REGPOT-2009-1, FP 7 Programme, European Union, Networking partner, 2010 – 2012, total budget 1,298,774 €.
6. *Development and application of bioluminescent whole-cell biosensors: aldehydic compounds*, Empirikion Foundation, Greece, 2007 – 2009, 7,000 €.
7. *Total antioxidant capacity, free radicals and heavy metals in olive oil: indices of biological value, stability and origin*, General Secretariat of Research and Technology, Greece, 2005 – 2008, 130,000 €.
8. *Development and application of bioluminescent whole-cell biosensors*, Ministry of Education, Greece, 2005 – 2006, 80,000 €.
9. *Development and application of bioluminescent whole-cell biosensors for environmental toxicity assessment*, Bilateral Greek-Serbia R&D Program, 2004 – 2006, 11,150 €.
10. *Toxicity assessment of sanitary disposal land fill leachates by bioassays: chemometric correlation of bioassays with chemical analysis*, Union of Attica Municipalities, 2002 – 2006, 275,000 €.
11. *Construction and evaluation of a fully automated flow injection analyzer based on biosensor to screen agricultural samples for organophosphorus pesticides*, Bilateral Greek-Ukraine R&D Program, 2001 – 2003, 14,700 €.

12. *Development of novel flow injection methods for the determination of total antioxidant capacity and applications to agricultural analysis*, Bilateral Greek-Spain R&D Program, 2000 – 2001, 11,700 €.
13. *Biosensors for the assay of quality control of foods*, EC Agriculture and Fisheries program, 1997 – 1999, 80,000 €.

Participation in research programs

1. *Panhellinic study for nutrition and health, plan action for the promotion of public health in the field of nutrition*, Ministry of Health, Greece, 2012-2015, total budget: 2,941,541.50 €.
2. *“Urban BioRoof” Cooperation for R&D on screening and formulation of substrates and plants for green roofs* - General Secretariat of Research and Technology, Greece, 2013-2015. 15,000 €, total budget, 400,000 €.
3. *Biological holistic approach to the dynamic form of survival of bacterial pathogens formations – BIOIMENIA*, General Secretariat of Research and Technology, Greece, WP leader: Analytical, 2010-2014. 36,755 €, total budget: 600,000€

REFERENCES in PUBLISHED RESEARCH PAPERS

More than 3000.

RECOGNITIONS

Olive oil expert in EU 2010 –

In the 6th & 9th Who’s Who in Science and Engineering and the 13th & 18th Who’s Who in the World

Guest Editor: *Analytica Chimica Acta*, Volume 505, issue 1, **2004**

Editorial Board member, *Journal of Automated Methods and Management in Chemistry*, **2010** – & *Journal of Agricultural Science*, **2010** –.

President, Greek-Serbian School of Athens, **2011** –.

EXPERT CONTRACT for EVALUATION of PROPOSALS for FUNDING

European Union, 2004-

Republic of Poland, 2020-

Technion - Israel Institute of Technology, Grand Water Research Institute, 2004-

Republic of South Africa, 2015-

Republic of Romania, 2011-

Greek State Scholarship Foundation, 2010 –

Republic of Cyprus, 2003-

Greek General Secretariat of Research and Technology, 2002-.

GRADUATE COURSES ORGANIZED/LECTURED

1. *Analytical Technologies*, Department of Chemical and Biochemical Engineering, University of Belgrade, Serbia, 10-21 October 2011.
2. *Biosensor technology to food and ingredient quality assessment*, Agricultural University of Athens, Lean Green Food ITN Program, 23-25 November 2011.
3. *Automated Method of Analysis* Agricultural University of Athens, Lean Green Food ITN Program, 28-30 November 2011.
4. *Biosensors*, Department of Chemical and Biochemical Engineering, University of Belgrade, Serbia, 1-10 July 2006.
5. *Raman Spectroscopy in advanced analytical chemistry*, University of Athens, Greece, 2001 –.
6. *Advanced Spectroscopy and Instrumental Methods of Analysis & Automated Methods of Analysis*, Agricultural University of Athens, Greece, 2004 –.

UNDERGRADUATE COURSES ORGANIZED/LECTURED

1. *Analytical Chemistry*, Agricultural University of Athens, 1995 –.
2. *General and Inorganic Chemistry*, Agricultural University of Athens & University of Thrace & Open University, Greece, 1995 –.

REVIEWER for 60 SCIENTIFIC JOURNALS

CONFERENCES

Involved in 29 international conferences as chairman / scientific committee member

PUBLICATIONS

1. *Geographical origin and botanical type honey authentication through elemental metabolomics via chemometrics*, S.A. Drivelos, G.P. Danezis, M. Halagarda, S. Popek, C.A. Georgiou, *Food Chemistry*, 338, 127936, **2021**.
2. *Fatty acid profile and physicochemical properties of Greek Protected Designation of Origin cheeses, implications for authentication*, G.P. Danezis, E. Tsiplakou, E.C. Pappa, A.C. Pappas, A. Mavrommatis, K. Sotirakoglou, C.A. Georgiou, G. Zervas, *European Food Research and Technology*, 246 (9), p. 1741-1753, **2020**.
3. *Elemental Content in Pleurotus ostreatus and Cyclocybe cylindracea Mushrooms: Correlations with Concentrations in Cultivation Substrates and Effects on the Production Process*, G. Koutrotsios, G. Danezis, C. Georgiou, G.I. Zervakis, *Molecules*, 25 (9), 2179, **2020**.
4. *Effects of selenium and zinc supplementation on cadmium toxicity in broilers*, E. Zoidis, A.C. Pappas, A. Al-Waeli, C.A. Georgiou, G.P. Danezis, N. Demiris, G. Zervas, K. Fegeros, *Turkish Journal of Veterinary and Animal Sciences*, 44, **2020**.
5. *Authentication of Greek Protected Designation of Origin cheeses through elemental metabolomics*, G.P. Danezis, A.C. Pappas, E. Tsiplakou, E.C. Pappa, M. Zacharioudaki, A.S. Tsagkaris, C.A. Papachristidis, K. Sotirakoglou, G. Zervas, C.A. Georgiou, *International Dairy Journal*, 104, 104599, **2020**.
6. *Elemental Metabolomics: Modulation of egg metallome with flavonoids, an exploratory study*, A.C. Pappas, E. Zoidis, M. Goliomytis, P.E. Simitzis, K. Sotirakoglou, M.A. Charismiadou, C. Nikitas, G. Danezis, S.G. Deligeorgis, C.A. Georgiou, *Antioxidants*, 8 (9), 361, **2019**.
7. *Blood and hair as non-invasive trace element biological indicators in growing rabbits*, G. Papadomichelakis, A.C. Pappas, E. Zoidis, G. Danezis, C.A. Georgiou, K. Fegeros, *World Rabbit Science*, 27, p. 21-30, **2019**.
8. *Greek Graviera Cheese Assessment through Elemental Metabolomics—Implications for Authentication, Safety and Nutrition*, G. Danezis, C. Theodorou, T. Massouras, E. Zoidis, I. Hadjigeorgiou and C. A. Georgiou, *Molecules*, 24 (4), 670, **2019**.
9. *Tissue distribution of rare earth elements in wild, commercial and backyard rabbits*, G.P. Danezis, E. Zoidis, A.C. Pappas, A.S. Tsagkaris, C. Papachristidis, G. Papadomichelakis, I. Hadjigeorgiou, C.A. Georgiou, *Meat Science*, 153, p. 45-50, **2019**.
10. *Aims, Design and Preliminary Findings of the Hellenic National Nutrition and Health Survey (HNNHS)*, I. Dimakopoulos, E. Magriplis, Dimitra Karageorgou, A.-V. Mitsopoulou, I. Bakogianni, R. Micha, G. Michas, T. Ntouroupi, S.-M. Tsaniklidou, K. Argyri, G. Danezis, C. Georgiou, D. B. Panagiotakos, A. Zampelas, *BMC Medical Research Methodology*, 19:37, **2019**.

11. *Dietary organic selenium addition and accumulation of toxic and essential trace elements in liver and meat of growing rabbits*, G. Papadomichelakis, E. Zoidis, A.C. Pappas, G. Danezis, C.A. Georgiou, K. Fegeros, *Meat Science*, 145, 383-388, **2018**.
12. *Rare earth elements concentration in mushroom cultivation substrates affects the production process and fruit-bodies content of *Pleurotus ostreatus* and *Cyclocybe cylindracea**, G. Koutrotsios, G.P. Danezis, C.A. Georgiou, G.I. Zervakis, *Journal of the Science of Food and Agriculture*, 98 (14), 5418-5427, **2018**.
13. *Elemental Metabolomics*, P. Zhang, C.A. Georgiou, V. Brusic, *Briefings in Bioinformatics*, 19 (3), 524-536, **2018**.
14. *Feasibility Assessment of Synchronous Fluorescence Spectral Fusion by Application to Argan Oil for Adulteration Analysis*, Tyler Stokes, Mellou Foteini, Brett Brownfield, John Kalivas, George Mousdis, Aziz Amine, Constantinos Georgiou, *Applied spectroscopy*, 72 (3), 432-441, **2018**.
15. *Game meat authentication through Rare Earth Elements fingerprinting*, G. P. Danezis, A. C. Pappas, E. Zoidis, G. Papadomichelakis, I. Hadjigeorgiou, P. Zhang, V. Brusic, C.A. Georgiou, *Analytica Chimica Acta*, 991, 46-57, **2017**.
16. *Evaluation of different types of calcined magnesites as feed supplement in small ruminant*, E. Tsiplakou, A.C. Pappas, C. Mitsiopoulou, M. Georgiadou, C.A. Georgiou, G. Zervas, *Small Ruminant Research*, 149, 188-195, **2017**.
17. *Food Authentication: Techniques, Trends & Emerging Approaches*, G. P. Danezis, A. S. Tsagkaris, F. Camin, V. Brusic, C. A. Georgiou, *Trends in Analytical Chemistry*, 85, 123-132, **2016**.
18. *Food Authentication: State of the art & Prospects*, G. P. Danezis, A. S. Tsagkaris, V. Brusic, C. A. Georgiou, *Current opinion in Food Science*, Issue title: *Innovations in Food Science*, 10, 22-31, **2016, invited opinion article**.
19. *Rare earth elements minimal harvest year variation facilitates robust geographical origin discrimination: The case of PDO (Protected Designation of Origin) "Fava Santorinis"*, S. A. Drivelos, G.P. Danezis, S.A. Haroutounian, C.A. Georgiou, *Food Chemistry*, 213, 238-245, **2016**.
20. *A green analytical method for rapid determination of pectin degree of esterification using micro sequential injection lab-on-valve system*, M. Naghshineh, Jan Larsen, Constantinos Georgiou, Karsten Olsen, *Food Chemistry*, 204, 513-520, **2016**.
21. *Development of an integrated biorefinery based on fractionation of spent sulphite liquor for the production of an antioxidant - rich extract, lignosulphonates and succinic acid*, M. Alexandri, H. Papapostolou, M. Komaitis, L. Stragier, W. Verstraete, G. P. Danezis, C. A. Georgiou, S. Papanikolaou, A. A. Koutinas, *Bioresource Technology*, 214, 504-513, **2016**.
22. *Enzymatic spectrophotometric reaction rate determination of aspartame*, K.T. Trifković, L. Łękańska-Andrinopoulou, B.M. Bugarski, C.A. Georgiou, *Hemijaska Industrija*, 69 (4), 355-359, **2015**.
23. *Data fusion for food authentication: Combining rare earth elements and trace metals to discriminate PDO "Fava Santorinis" from other yellow split peas using chemometric tools*, S. A. Drivelos, K. Higgins, J. H. Kalivas, S. A. Haroutounian, C.A. Georgiou, *Food Chemistry*, 165, 316-322, **2014**.
24. *Food adulteration analysis without laboratory prepared or determined reference food adulterant values*, J.H. Kalivas, C.A. Georgiou, M. Moira, I. Tsafaras, E.A. Petrakis, G.A. Mousdis, *Food Chemistry*, 148, 289-293, **2014**.
25. *Bacterial reporter strains for d-xylose content analysis in arabinoxylans*, J. Łukasiak, K. Olsen, C. A. Georgiou, D. G. Georgakopoulos, *European Food Research and Technology*, 238 (2), 275-283, **2014**.

26. *Rapid enzymatic method for pectin methyl esters determination*, L. Łękańska-Andrinopoulou, E.G. Vasiliou, D.G. Georgakopoulos, C.P. Yialouris, C.A. Georgiou, *Journal of Analytical Methods in Chemistry*, ID 854763, 7 pages, **2013**.
27. *Bioluminescence and ice-nucleation microbial biosensors for l-arabinose content analysis in arabinoxylans*, J. Łukasiak, K. Olsen, C. A. Georgiou, D. G. Georgakopoulos, *European Food Research and Technology*, 1-8, **2013**.
28. *Hydrotreating of straight-run gas oil blended with FCC naphtha and light cycle oil*, Z. Dukanovic, S.B. Glisic, V.J. Cobanina, M. Niciforovic, C.A. Georgiou, A.M. Orlovic, *Fuel Processing Technology*, 106, 160-165, **2013**.
29. *Sustainable production of pectin from lime peel by high hydrostatic pressure treatment*, M. Naghshineh, K. Olsen and C.A. Georgiou, *Food Chemistry*, 136, 472-478, **2013**.
30. *The role of selenium in cadmium toxicity: Interactions with Essential and Toxic Elements*, A. Al-waeli, A.C. Pappas, E. Zoidis, C. A. Georgiou, K. Fegeros, G. Zervas, *British Poultry -Science*, 53 (6), 817-827, **2012**.
31. *A review of multi-element analysis and multi-isotope ratio coupled with chemometric tools for the determination of the geographical origin of food and beverages in the European Union*, S. A. Drivelos, C. A. Georgiou, *Trends in Analytical Chemistry*, 40, 38-51, **2012**.
32. *Development of an L-Rhamnose bioluminescent microbial biosensor for analysis of food ingredients*, J. Lukasiak, C.A. Geogiou, K. Olsen, D.G. Georgakopoulos, *European food research and technology*, 235(3), 573-579, **2012**.
33. *Geographical characterization of Greek olive oils using rare earth elements content and supervised chemometric techniques*, E. Farmaki, N. Thomaidis, E. Minioti, E. Ioannou, C. Georgiou, C. Efstathiou, *Analytical Letters*, 45(8), 920-932, **2012**.
34. *Updating a synchronous fluorescence spectroscopic virgin olive oil adulteration calibration to a new geographical region*, M.R. Kunz, J. Ottaway, J.H. Kalivas, C.A. Georgiou, G.A. Mousdis, *Journal of Agricultural and Food Chemistry*, 59, 1051-1057, **2011**.
35. *Iron or zinc dialyzability obtained from a modified in vitro digestion procedure compare well with iron or zinc absorption from meals*, K. Argyri, E. Theophanidi, A. Kapna, C. Staikidou, G. Pounis, M. Komaitis, C. Georgiou, M. Kapsokefalou, *Food Chemistry*, 127,716-721, **2011**.
36. *Influence of organic selenium supplementation on the accumulation of toxic and essential trace elements involved in the antioxidant system of chicken*, A.C. Pappas, E. Zoidis, C.A. Georgiou, N. Demiris, P.F. Surai, K. Fegeros, *Food Additives & Contaminants*, 28, 446-454, **2011**.
37. *Comparison of different tests used in mapping the Greek virgin olive oil production for the determination of its total antioxidant capacity*, A. S.Minioti, C. A. Georgiou, *Grasas Y Aceites*, 61, 45-51, **2010**.
38. *Selenium affects the expression of GPx4 and catalase in the liver of chicken*, E. Zoidis, A. C. Pappas, C. A. Georgiou, E. Komaitis, K. Feggeros, *Comparative Biochemistry and Physiology, Part B*, 155, 294-300, **2010**.
39. *Development of a fully automated flow injection analyzer implementing bioluminescent biosensors for water toxicity assessment*, E. M. Komaitis, E. G. Vasiliou, G. Kremmydas, D. G. Georgakopoulos, C. A. Georgiou, *Sensors*, 10, 7089-7098, **2010**.
40. *Synchronous fluorescence spectroscopy: tool for monitoring thermally stressed edible oils*, K. G. Poulli, N. V. Chantzou, G. N. Mousdis and C. A. Georgiou, *Journal of Agricultural and Food Chemistry*, 57, 8194-201, **2009**.
41. *Monitoring olive oil oxidation under thermal and uv stress through synchronous fluorescence spectroscopy and classical assays*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Food Chemistry*, 117, 499-503, **2009**.

42. *High throughput flow injection bioluminometric method for olive oil antioxidant capacity*, A. S. Minioti, C. A. Georgiou, *Food Chemistry*, 109, 455-461, **2008**.
43. *A standard addition method to assay the concentration of biologically interesting polyphenols in grape berries by reversed-phase HPLC*, A. - V. Sakkiadi, C. A. Georgiou and S. A. Haroutounian, *Molecules*, 12, 2259-2269, **2007**.
44. *Hydrogen peroxide assessment in exhaled breath condensate: condensing equipment – rapid flow injection chemiluminescence method*, E. G. Vasiliou, Y. M. Makarovska, I. A. Pneumatikos, N. V. Lolis, E. A. Kalogeratos, E. K. Papadakis, C. A. Georgiou, *Journal of the Brazilian Chemical Society*, 18, 1040-1047, **2007**.
45. *Derivatization reaction of biogenic amines with tetrabromophenol-pthalein ethyl ester: thermospectrophotometric study of products*, N. D. Demiris, E. P. Labrinea and C. A. Georgiou, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 6, 2543-2549, **2007**.
46. *Rapid synchronous fluorescence method for virgin olive oil adulteration assessment*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Food Chemistry*, 105, 369-375, **2007**.
47. *Synchronous fluorescence spectroscopy for quantitative determination of virgin olive oil adulteration with sunflower oil*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Analytical and Bioanalytical Chemistry*, 386, 1571-1575, **2006**.
48. *Classification of edible and lampante virgin olive oil based on synchronous fluorescence and total luminescence spectroscopy*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Analytica Chimica Acta*, 542, 151, **2005**.
49. *Rapid, fully automated flow injection antioxidant capacity assay*, E. P. Labrinea and C. A. Georgiou, *Journal of Agricultural and Food Chemistry*, 53, 4341, **2005**.
50. *Early-warning electrochemical biosensor system for environmental monitoring based on enzyme inhibition*, S. Dzyadevych, V. Arkhypova, N. Jaffrezic-Renault, C. Martelet, J. - M. Chovelon, C. A. Georgiou and A. Soldatkin, *Sensors and Actuators, B*, 105, 81, **2005**.
51. *Stopped-flow method for assessment of pH and timing effect on the ABTS total antioxidant capacity assay*, E. P. Labrinea and C. A. Georgiou, *Analytica Chimica Acta*, 526, 63, **2004**.
52. *Bioluminescent whole cell biosensors*, C. A. Georgiou and B. Bugarski, *Chemical Industry*, 30, 103-107, **2004**.
53. *Analytical chemistry in balkan and east mediterranean countries during 1994-2001*, N. S. Thomaidis, C. A. Georgiou and A. C. Calokerinos, *Analytica Chimica Acta*, 505, 3, **2004**.
54. *Rapid, non invasive quantitative determination of acyclovir in pharmaceutical solid dosage forms through their PVC-blister package by solid-state FT-Raman spectroscopy*, S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy*, 57, 407, **2003**.
55. *Flow injection analysis system for L-lysine estimation in foodstuffs. Using a biosensor based on lysine oxidase immobilization on a gold-poly(m-phenylenediamine) electrode*, M. H. Divritsioti, I. D. Karalemas, C. A. Georgiou and D. S. Papastathopoulos, *Analytical Letters*, 36, 1939, **2003**.
56. *Developments in monitoring methods for nutrient solutions*, C. A. Georgiou, Proceedings of the International Fertiliser Society No: 530, ISBN 0853101663, p. 263-282, **2003**.
57. *Analytical raman spectroscopy*, C. A. Georgiou, *Journal of Institute of Science and Technology of Balikesir University*, 4, 74-79, **2002**.
58. *Olive oil anisidine value determination by flow injection*, E. P. Labrinea, N. S. Thomaidis and C. A. Georgiou, *Analytica Chimica Acta*, 448, 201, **2001**.
59. *Rapid quantitative determination of ciprofloxacin in pharmaceuticals using solid-state FT-Raman spectroscopy*, S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy*, 55, 1259-1265, **2001**.

60. *Analytical chemistry in the European Union during 1993-1999: an appraisal on the basis of papers abstracted in analytical abstracts*, C. A. Georgiou and N. S. Thomaidis, *Trends in Analytical Chemistry*, 20, 462, **2001**.
61. *Olive oil analysis by flow injection*, C. A. Georgiou, *Journal of the Institute of Science and Technology of Balikesir University*, 3, 20-33, **2001**.
62. *Construction of a L-lysine biosensor by immobilizing lysine oxidase on a gold-poly(o-phenylenediamine) electrode*, J. D. Karalemas, C. A. Georgiou and D. S. Papastathopoulos, *Talanta*, 53, 391, **2000**.
63. *Enzymatic spectrophotometric reaction rate determination of glucose in fruit drinks and carbonated beverages. An analytical chemistry laboratory experiment for food science oriented students*, A. - M. G. Vasilariou and C. A. Georgiou, *Journal of Chemical Education*, 77, 1327, **2000**.
64. *Determination of olive oil 2-thiobarbituric acid reactive substances by parallel flow injection*, P. G. Nouros, C. A. Georgiou and M. G. Polissiou, *Analytica Chimica Acta*, 417, 119, **2000**.
65. *Univariate and multivariate calibration for the quantitative determination of methyl-parathion in pesticide formulations by FT-Raman spectroscopy*, S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy*, 54, 747, **2000**.
66. *FT-Raman spectroscopy: analytical tool for routine analysis of diazinon in pesticide formulations*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, *Talanta*, 51, 599, **2000**.
67. *Direct parallel flow injection multichannel spectrophotometric determination of olive oil iodine value*, N. S. Thomaidis and C. A. Georgiou, *Analytica Chimica Acta*, 405, 239, **2000**.
68. *Rapid quantitative analysis of organophosphorus pesticide formulations by FT-Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, **invited article**, *Internet Journal of Vibrational Spectroscopy* [www.ijvs.com] Vol.4, Ed. 3, **2000**.
69. *Edible oil analysis by flow injection*, N. S. Thomaidis and C. A. Georgiou, **invited article**, *Laboratory Automation and Information Management*, 34, 101, **1999**.
70. *Quantitative determination of fenthion in pesticide formulations by FT-Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, *Applied Spectroscopy*, 53, 1470, **1999**.
71. *Automated flow injection gradient technique for binding studies of micromolecules to proteins using potentiometric sensors: application to bovine serum albumin with anilino-naphthalenesulfonate probe and drugs*, M. E. Georgiou, C. A. Georgiou and M. A. Koupparis, *Analytical Chemistry*, 71, 2541, **1999**.
72. *Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value*, P. G. Nouros, C. A. Georgiou and M. G. Polissiou, *Analytica Chimica Acta*, 389, 239, **1999**.
73. *Rapid automated spectrophotometric competitive complexation studies of drugs with cyclodextrins using the flow injection gradient technique: tricyclic antidepressant drugs with α -cyclodextrin*, M. E. Georgiou, C. A. Georgiou and M. A. Koupparis, *Analyst*, 124, 391, **1999**.
74. *Interaction of β -cyclodextrin with unsaturated and saturated straight chain fatty acid anions studied by phenolphthalein displacement*, C. G. Skoulika, C. A. Georgiou and M. G. Polissiou, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 34, 85, **1999**.
75. *Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil*, P. G. Nouros, C. A. Georgiou and M. Polissiou, *Analytica Chimica Acta*, 351, 291, **1997**.
76. *Flow injection gradient technique in spectrophotometric determination of formation constants of micromolecule cyclodextrin complexes*, M. E. Georgiou, C. A. Georgiou and M. A. Koupparis, *Analytical Chemistry*, 67, 114, **1995**.

77. *Automated flow-injection dynamic dialysis technique in the study of drug binding with cyclodextrins*, E. E. Sideris, C. A. Georgiou, M. A. Koupparis and P. E. Macheras, *Analytica Chimica Acta*, 289, 87, **1994**.
78. *Automated flow-injection technique for use in dissolution studies of sustained-release formulations: application to iron (ii) formulations*, C. A. Georgiou, G. N. Valsami, M. A. Koupparis and P. E. Macheras, *Journal of Pharmaceutical and Biomedical Analysis*, 12, 635, **1994**.
79. *Automation of the batch method for reaction kinetic studies using flow injection analysis. kinetic study of hydrolysis of n^4 acetylsulfanilamide, acetylsalicylic acid and phenyl phosphate*, M. A. Koupparis, P. I. Anagnostopoulou, C. A. Georgiou and T. P. Hadjiioannou, *Analytical Letters*, 25, 2305, **1992**.
80. *Use of ion-selective electrodes in kinetic flow injection: determination of phenolic and hydrazino drugs with 1-fluoro-2,4-dinitrobenzene using a fluoride-selective electrode*, J. C. Apostolakis, C. A. Georgiou and M. A. Koupparis, *Analyst*, 116, 233, **1991**.
81. *Flow-injection stopped-flow kinetic spectrophotometric determination of drugs based on micellar-catalysed reaction with 1-fluoro-2,4-dinitrobenzene*, C. A. Georgiou, M. A. Koupparis and T. P. Hadjiioannou, *Talanta*, 38, 689, **1991**.
82. *Construction and evaluation of an automated flow injection-stopped flow analyser for multipoint reaction rate spectrophotometric methods. Determination of ammonia nitrogen, creatinine, and phosphate*, C. A. Georgiou and M. A. Koupparis, *Journal of Automatic Chemistry*, 13, 199, **1991**.
83. *Automated flow injection spectrophotometric determination of para- and meta-substituted phenols of pharmaceutical interest based on their oxidative condensation with 1-nitroso-2-naphthol*, C. A. Georgiou and M. A. Koupparis, *Analyst*, 115, 309, **1990**.
84. *Automated flow injection spectrophotometric non-aqueous pseudotitrations of amines and their hydrohalide salts*, C. A. Georgiou and M. A. Koupparis, *Analyst*, 113, 755, **1988**.
85. *Development and application of novel flow injection methods in pharmaceutical analysis*, C. A. Georgiou, *PhD Thesis*, University of Athens, Greece, **1990**.

CONFERENCES

1. *Authentication of Greek PDO cheeses through data fusion of elemental, fatty acid profile and physicochemical properties*, G. P. Danezis, A. C. Pappas, E. Tsiplakou, E. C. Pappa, A. Mavrommatis, M. Zacharioudaki, A. S. Tsagkaris, C.A. Papachristidis, K. Sotirakoglou, G. Zervas and C.A. Georgiou, ACAC 2018, Athens, Greece, October 30 – November 2, **2018**.
2. *Advances in cheeses authentication: state of the art and novel analytical indicators*, G.P. Danezis, M.M. Zaric, A.S. Tsagkaris, P.K. Kasimi, I. Seremelis and C.A. Georgiou, ACAC 2018, Athens, Greece, October 30 – November 2, **2018**.
3. *Hard and semi-hard Greek PDO cheese authentication through elemental metabolomics*, G. Danezis, A. C. Pappas, E. Tsiplakou, E.C. Pappa, M. Zacharioudaki A. Tsagkaris, K. Sotirakoglou, G. Zervas, C.A. Georgiou, Metrology 2018, Athens, Greece, May 11-12, **2018**.
4. *Nutritional value & safety of Greek PDO cheeses through elemental metabolomics*, G. P. Danezis, A. C. Pappas, E. Tsiplakou, E. C. Pappa, M. Zacharioudaki, A. S. Tsagkaris, K. Sotirakoglou, G. Zervas and C.A. Georgiou, IMA 2017, Heraklion, Greece, September 17-21, **2017**.
5. *Multi-element method validation for rare earths, precious metals and trace elements determination through ICP-MS in meat products*, G.P. Danezis, A.S. Tsagkaris, A.C. Pappas, E. Zoidis, G. Papadomichelakis, I.E. Hadjigeorgiou and C.A. Georgiou, IMA 2017, Heraklion, Greece, September 17-21, **2017**.

6. *Soft Greek PDO cheeses authentication and discrimination from possible imitations using elemental metabolomics*, G. P. Danezis, A. C. Pappas, E. Tsiplakou, E. C. Pappa, M. Zacharioudaki, A. S. Tsagkaris, K. Sotirakoglou, G. Zervas and C.A. Georgiou, IMA 2017, Heraklion, Greece, September 17-21, **2017**
7. *Determination of rare earth elements in edible mushrooms (Cyclocybe cylindracea and Pleurotus ostreatus) and in their production substrates – Effects on cultivation and quality parameters*, G. Koutrotsios, G. P. Danezis, C. A. Georgiou, G. I. Zervakis, MIKROBIOKOSMOS 2017, Athens, Greece, April 7-9, **2017**
8. *Greek PDO Feta authentication through elemental fingerprinting*, G. Danezis, A. C. Pappas, A. Tsagkaris, E. Tsiplakou, E. C. Pappa, M. Zacharioudaki, G. Zervas, C. A. Georgiou, 6th International Congress on Food Technology, Metropolitan Expo Athens, Greece, March 18-19, **2017**
9. *Elemental Metabolomics – Linking Environmental, Food, Nutrition and Health Sciences*, P. Zhang, C.A. Georgiou, V. Brusic, 10th International Conference on Bioinformatics of Genome Regulation and Structure/ Systems Biology, BGRS/SB2016, Novosibirsk, Russia, 29 August – 2 September, **2016**.
10. *Elemental Metabolomics for improving human health*, P. Zhang, C. A. Georgiou, V. Brusic, Belgrade Bioinformatics Conference, BelBI 2016, Belgrade, Serbia, June 20-24, **2016**.
11. *Investigation of Greek PDO cheeses' elemental fingerprinting*, G. Danezis, A.C. Pappas, E.C. Pappa, M. Zacharioudaki, C. Papachristidis, A. Tsagkaris, E. Tsiplakou, G. Zervas, C.A. Georgiou, EZE 2016, Serres, Greece, October 5-7, **2016**.
12. *Determination of elemental content through ICP-MS in different types of tubes used for blood collection*. A. Tsagkaris, G. Danezis, S. Megremi, S. Tsegkas, P. Kaplani, A. Zampelas, C.A. Georgiou, 14th Panellinic Conference of Clinical Chemistry, Ioannina, Greece, September 29 – October 1, **2016**.
13. *Rare earth elements in diabetes: relation to age, sex and dietary habits*. A. Tsagkaris, G. Danezis, S. Megremi, S. Tsegkas, P. Kaplani, A. Zampelas, C.A. Georgiou, International Conference on Nutraceuticals and Functional Foods, Kalamata, Greece, July 7-9, **2016**.
14. *Green roof systems as urban biofilters for retaining air pollutants* M.P. Kaltsidi, N. Ntoulas, G. Danezis, A. Tsagkaris, C. Georgiou and P.A. Nektarios, 6th International Conference on Landscape & Urban Horticulture, Athens, Greece, June 20-25, **2016**.
15. *Heavy metal leaching from adaptive green roof systems sodded with tall fescue*, M.P. Kaltsidi, N. Ntoulas, G. Danezis, C. Georgiou and P.A. Nektarios, 15th ETS CONFERENCE 2016, Albufeira, Portugal, June 5-8, **2016**.
16. *Method development and validation for rare earths, trace and macro elements determination in cheeses*, G. Danezis, A.C. Pappas, E.C. Pappa, M. Zacharioudaki, A. Tsagkaris, C. Papachristidis, E. Tsiplakou, G. Zervas, C.A. Georgiou, Metrology 2016, Athens, Greece, May 13-14, **2016**.
17. *Method development and validation for rare earths, trace and macro elements determination in tomato paste*, G. Danezis, A. Tsagkaris, S. Megremi, S. Tsegkas, P. Kaplani, V. Theodoulidou, C.A. Georgiou, Metrology 2016, Athens, Greece, May 13-14, **2016**.
18. *Organic food authentication - PDO "Tomataki Santorinis" study*, G. Danezis, S. Drivelos, A. Tsagkaris, C. Papachristidis, D. Sotirchos, K. Panourgias, S. Roxanis, C.A. Georgiou, Food Chemistry Days 2015, Athens, Greece, November 26-27, **2015**.
19. *Seasonal variation of elemental profile in PDO "Tomataki Santorinis"*, G. Danezis, S. Drivelos, A. Tsagkaris, C. Papachristidis, D. Sotirchos, S. Roxanis, K. Panourgias, C.A. Georgiou, Food Chemistry Days 2015, Athens, Greece, November 26-27, **2015**.
20. *Authentication of PDO "Tomataki Santorinis": discrimination from other cherry tomatoes by rare earth & trace elements content through chemometrics*, G. Danezis, S. Drivelos, A. Tsagkaris, D. Sotirchos, C.A. Georgiou, EFFOST 2015, Athens, Greece, November 10-12, **2015**.
21. *Seasonal variation of rare earth and trace elements in game meat: limnos wild rabbits*, G. Danezis, A.C. Pappas, E. Zoidis, C. Papachristidis, C. Vavvas, G. Papadomichelakis, I. Hadjigeorgiou, V. Brusic, C.A. Georgiou, EFFOST 2015, Athens, Greece, November 10-12, **2015**.

22. *Authentication of Greek PDO and traditional cheeses through rare earth and trace element profile using chemometrics*, G. Danezis, A.C. Pappas, S. Drivelos, E.C. Pappa, M. Zacharioudaki, C. Papachristidis, A. Tsagkaris, E. Tsiplakou, G. Zervas, C.A. Georgiou, *EFFOST 2015*, Athens, Greece, November 10-12, **2015**.
23. *Fluidic biosensor unit prototype featuring sensitivities down to the pM level for early detection of quorum sensing molecules*, G. Danezis, M. Moira, C.A. Georgiou, *EFFOST 2015*, Athens, Greece, November 10-12, **2015**.
24. *Rare earth elements & actinides accumulation patterns in game meat, backyard & commercial rabbits*, G. Danezis, A. Tsagkaris, E. Zoidis, A.C. Pappas, C. Papachristidis, C. Vavvas, G. Papadomichelakis, I. Hadjigeorgiou, V. Brusic, C.A. Georgiou, *IMA 2015*, Kalamata, Greece, September 21-24, **2015**.
25. *Authentication of game meat through rare earth and trace element profile: The case of Limnos island wild rabbits*, G. Danezis, A.C. Pappas, E. Zoidis, C. Papachristidis, C. Vavvas, G. Papadomichelakis, I. Hadjigeorgiou, V. Brusic, C.A. Georgiou, *IMA 2015*, Kalamata, Greece, September 21-24, **2015**.
26. *Mass spectrometry techniques for the control of urban roof gardens contribution in rainwater decontamination*, A. Tsagkaris, G. Danezis, C.A. Georgiou, Urban BioRoof conference, September 17-18, Athens, Greece, **2015**.
27. *Rare Earth Elements bioaccumulation by *Suillus mediterraneensis* in urban environment of Athens*, B. Kokkoris, G. Danezis, J. Massas, C.A. Georgiou, G. Zervakis, *MIKROBIOKOSMOS*, Athens, Greece, April 3-5, **2015**.
28. *Quality characteristics investigation for wild rabbits of Limnos island*, G. Danezis, A.C. Pappas, E. Zoidis, G. Papadomichelakis, M. Spilioti, C. Vavvas, C.A. Georgiou, I. Hadjigeorgiou, *EZE 2014*, Kiparissia, Greece, October 1-3, **2014**.
29. *Organic selenium role in rabbits' meat quality*, E. Zoidis, G. Papadomichelakis, A. Sarfempergker-Katafygiotis, D. Terzi, G. Giasemi, G. Danezis, C.A. Georgiou, A.C. Pappas, *EZE 2014*, Kiparissia, Greece, October 1-3, **2014**.
30. *Synchronous fluorescence spectroscopy for the determination of argan oil adulteration with corn oil*, F. Mellou, G. Mousdis, C. Georigou, *ISEKI_Food 2014*, Athens, Greece, May 21-23, **2014**.
31. *Bioluminescence and ice nucleation microbial biosensors for monosaccharide content analysis in arabinoxylans*, J. Lukasiak, C.A. Geogiou, K. Olsen, D.G. Georgakopoulos, *EUROFOODCHEM XVII*, Istanbul, Turkey, May 7-10, **2013**.
32. *Enzymatic spectrophotometric reaction rate determination of aspartame in carbonated beverages and sweeteners*, K. T. Trifković, L. Łękańska, B. M. Bugarski, C. A. Georgiou. *III International congress "Engineering, Environment and Materials in Processing Industry"*, Jahorina, Bosnia-Herzegovina, March 4-6, **2013**.
33. *Flow Injection Analyzers for Sustainable Pectin Analysis*, L. Łękańska, E. G. Vasiliou, D. G. Georgakopoulos, C. A. Georgiou, *XII International Conference on Flow Analysis*, Thessaloniki, Greece, September 23-28, **2012**.
34. *Green Chemistry Technologies for Pectin Analysis*, L. Łękańska, D. G. Georgakopoulos, C. A. Georgiou, *Third International Symposium on Green Chemistry for Environment, Health and Development*, Skiathos, Greece, October 3-5, **2012**.
35. *Development of bioluminescent microbial biosensors to monitor enzymatic processing of food ingredients*, J. Lukasiak, C.A. Geogiou, K. Olsen, D.G. Georgakopoulos, *Microbiokosmos 4th Annual Conference of the Greek National Initiative "Mikrobiokosmos": Mikrobiokosmos 2011*, Ioannina, Greece, October 21-23, **2011**.
36. *Updating a synchronous fluorescence spectroscopic virgin olive oil adulteration calibration to a new geographical region*, J.H. Kalivas, M.R. Kunz, J. Ottaway, C.A. Georgiou, G.A. Mousdis, *102nd AOCS Annual Meeting & EXPO*, Cincinnati, Ohio, USA, May 1 - 4, **2011**.

37. *Multivariate calibration for extra virgin olive oil adulteration without reference samples*, J. Kalivas, C. A. Georgiou, I. Tsafaras, G. Mousdis, E. Petrakis, *National Meeting of the Society for Applied Spectroscopy (SAS)*, Reno, Nevada, USA. October 2 - 7, **2011**.
38. *Using Net Analyte Signal (NAS) to identify an adulterant in extra virgin olive oil*, K. Higgins, J. Kalivas, C. Georgiou, *PITTCON, Conference Proceedings*, p. 620-625, Atlanta, USA, March 13-18, **2011**.
39. *Chemometric characterization of the geographical origin of olive oils due to their rare earth elements content by artificial neural networks and classification trees*, E. G. Farmaki, N. S. Thomaidis, K. S. Minioti, E. Ioannou, C. A. Georgiou, C. E. Efstathiou, *7th Aegean Analytical Chemistry Days Conference*, Conference Proceedings p. 24, 29 September – 3 October **2010**, Lesvos, Greece.
40. *Olive oil quality assessment through synchronous fluorescence spectroscopy*, K. I. Poulli, G. A. Mousdis, C. A. Georgiou, *7th Aegean Analytical Chemistry Days Conference*, Conference Proceedings p. 21, 29 September – 3 October **2010**, Lesvos, Greece.
41. *Classification of Greek extra virgin olive oils according to geographical origin through ICP-MS multielement determination and principal component analysis*, E. T. Ioannou, N. S. Thomaidis, C. A. Georgiou, *7th Aegean Analytical Chemistry Days Conference*, Conference Proceedings p. 21, 29 September – 3 October **2010**, Lesvos, Greece.
42. *Development and optimization of a fully automated flow injection analyzer for aldehydic compounds assessment implementing vibrio fischeri whole cell biosensors*, E. M. Komaitis, K. A. Kamoutsas, E. G. Vasiliou, G. F. Kremmydas, D. G. Georgakopoulos, C. A. Georgiou, *7th Aegean Analytical Chemistry Days Conference*, Conference Proceedings p. 88, 29 September – 3 October **2010**, Lesvos, Greece.
43. *Response of vibrio fischeri whole cell biosensors to olive oil phenolics: monitoring early oxidation events during frying*, C. A. Georgiou, E. M. Komaitis, E. G. Vasiliou, G. Kremmydas, D. G. Georgakopoulos, *5th Euro Fed Lipid Congress*, 16-19 September **2007**, Gothenburg, Sweden.
44. *Mapping trace element content of Greek virgin olive oils from different cultivars and regions through inductively coupled plasma mass spectrometry*, A. S. Minioti, K. Poulli, N. S. Thomaidis, C. A. Georgiou, *6th EuroFed Lipid Congress*, Conference Proceedings p. 240, 7-10 September **2008**, Athens, Greece.
45. *Synchronous fluorescence spectroscopy and classical assays: tools for monitoring olive oil stability*, K. I. Poulli, G. A. Mousdis, C. A. Georgiou, *6th EuroFed Lipid Congress*, Conference Proceedings p. 82, 7-10 September **2008**, Athens, Greece.
46. *Quantitation of virgin olive oil adulteration through synchronous fluorescence spectroscopy*, K. I. Poulli, G. A. Mousdis, C. A. Georgiou, *2nd Hellenic Conference on Contemporary Trends in Oils and Lipids* Conference proceedings O-17, 7-8 June **2007**, Athens, Greece.
47. *Assessment of oil quality during frying through v. fischeri whole cell biosensors*, E. M. Komaitis, E. G. Vasiliou, D. G. Georgakopoulos, C. A. Georgiou, *2nd Hellenic Conference on Contemporary Trends in Oils and Lipids* Conference proceedings O-17, 7-8 June, **2007**, Athens, Greece.
48. *Synchronous fluorescence: tool for virgin olive oil adulteration assessment*, K. I. Poulli, G. A. Mousdis, C. A. Georgiou, *2nd Hellenic Food Biotechnology Conference*, book of Abstracts p. 162-165, 29-31 March **2007**, Athens, Greece.
49. *Response of vibrio fischeri whole cell biosensors to olive oil phenolics*, E. Komaitis, E. Vasiliou, G. Kremmydas, D. Georgakopoulos, C. A. Georgiou, *2nd Hellenic Food Biotechnology Conference*, book of Abstracts p. 312-314, 29-31 March **2007**, Athens, Greece.
50. *Monitoring lipid oxidation events at frying temperatures through total antioxidant capacity assays*, N. V. Chantzios, C. A. Georgiou, *2nd Hellenic Food Biotechnology Conference*, book of Abstracts p. 315-317, 29-31 March **2007**, Athens, Greece.
51. *Flow injection bioluminometric assessment of olive oil total antioxidant capacity*, A. S. Minioti, C. A. Georgiou, *2nd Hellenic Food Biotechnology Conference*, book of Abstracts p. 310-311, 29-31 March **2007**, **Best poster award**, Athens, Greece.

52. *Chemical approach to remote sensing*, C. A. Georgiou, **Invited lecture**, *Dahlia Greidinger Symposium on Advanced Technologies for Monitoring Nutrient and Water Availability to Plants*, 12-14 March **2007**, Haifa, Israel.
53. *Phase-field modelling of immobilized yeast cell growth dynamics in Ca-alginate microbeads*, I. Pajiz-Lijakovic, M. Plavsic, B. Bugarski, C. A. Georgiou, M. Kanellaki, V. Nedovic, *XIVth International Workshop on Bioencapsulation*, Workshop Proceedings, p. 390-393, Lausanne, CH, 6-7 October **2006**.
54. *Application of electrostatic extrusion – flavor encapsulation and controlled release*, V. Manojlovic, C. A. Georgiou, V. Nedovic and B. Bugarski, *XIVth International Workshop on Bioencapsulation*, Workshop Proceedings, p. 375-378, 6-7 October **2006**, Lausanne, Switzerland
55. *Flow technologies for automation of luminescence whole-cell biosensors: water toxicity assessment*, E. Komaitis, D. Georgakopoulos and C. A. Georgiou, *5th Aegean Analytical Chemistry Days*, book of abstracts p. 46, 5-8 October **2006**, Thessaloniki, Greece.
56. *Luminescence whole-cell biosensor analyzer for water toxicity assessment*, C. A. Georgiou, **Keynote lecture**, *5th Analytical Chemistry and Chemical Analysis International Congress (AC&CA-05)*, book of Abstracts, p. 12, 18 September **2005**, Kiev, Ukraine.
57. *Luminescence whole-cell biosensor analyzer for water toxicity assessment*, C.A. Georgiou, *1st South East European Countries Water Conference*, book of abstracts, p. 36, 21-23 October **2005**, Athens.
58. *Portable analyzers for olive oil quality assessment*, C. A. Georgiou, *1st Hellenic Conference on Contemporary Trends in Oils and Lipids*, book of Abstracts p. O11, 8-9 June **2005**, Athens, Greece.
59. *Heavy metals in food*, C. A. Georgiou, **Invited lecture**, *Trends in Food Contaminants meeting of the Greek Chemists Society*, book of abstracts p.139, 23 October **2004**, Athens, Greece.
60. *Chemometric evaluation of synchronous scan fluorescence spectroscopy for olive oil classification: lampante and virgin olive oil*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *4th Aegean Analytical Chemistry Days*, Conference Proceedings p. 302, 29 September – 3 October **2004**, Kusadasi/Aydin, Turkey.
61. *Automated total antioxidant capacity assays*, C. A. Georgiou, **Invited lecture**, *4th Aegean Analytical Chemistry Days*, Conference Proceedings p. 37, 29 September – 3 October **2004**, Kusadasi/Aydin, Turkey.
62. *Heavy metals in foods*, C. A. Georgiou, *Developments in the Field of Food Contaminants*, book of abstract, p. 139, October 23, **2004**, Athens.
63. *Bioluminescent whole cell biosensors for environmental toxicity assessment*, C. A. Georgiou and B. Bugarski, **Invited lecture**, *Applications of Immobilisation/Bioencapsulation in Medicine, Pharmacy, Food Technology and Biotechnology*, book of Abstracts p.7, 25 – 27 June **2004**, Belgrade, Serbia – Montenegro.
64. *Developments in monitoring methods for nutrient solutions*, C. A. Georgiou, **Invited lecture**, *Nutrient, Substrate and Water Management in Protected Cropping Systems, 2003 Dahlia Greidinger Symposium*, book of Abstracts p. 72, 7 – 10 December **2003**, Izmir, Turkey.
65. *Analytical chemistry in Balkan and east mediterranean countries during 1994 – 2001*, N. S. Thomaidis, C. A. Georgiou and A. C. Calokerinos, **Opening lecture**, *3rd Aegean Analytical Chemistry Days*, Conference Proceedings p. 19, 29 September – 2 October **2002**, Polihnitos, Lesvos, Greece.
66. *Early-warning system in the environment based on electrochemical biosensors and enzyme inhibition effect*, S. Dzyadevych, V. Arkhypova, A. El'skaya, N. Jaffrezic-Renault, C. Martelet, J.-M. Chovelon, C. A. Georgiou and A. Soldatkin, *3rd Aegean Analytical Chemistry Days*, Conference Proceedings, p. 425, 29 September – 2 October **2002**, Polihnitos, Lesvos, Greece.
67. *pH effects on total antioxidant activity (TAA) determination*, E. P. Labrinea and C. A. Georgiou, *3rd Aegean Analytical Chemistry Days*, Conference Proceedings p. 210-211, 29 September – 2 October **2002**, Polihnitos, Lesvos, Greece.

68. *Portable analysers for olive oil quality assessment*, C. A. Georgiou, **Invited lecture**, 2nd *Altinoluk International Symposium on Olive Oil*, Conference Proceedings p.128-138, 17 – 19 October **2001**, Altinoluk, Turkey.
69. *Analytical Raman spectroscopy*, C. A. Georgiou, **Invited lecture**, 1st *Black Sea Basin Conference on Analytical Chemistry*, book of abstracts p. 48-49, 11 – 15 September **2001**, Odessa, Ukraine.
70. *Olive oil analysis by flow injection*, C. A. Georgiou, **Invited lecture**, 2nd *Aegean Analytical Chemistry Days*, abstracts published in the Journal of the Institute of Science and Technology of Balikesir University, Vol. 2, p. 5-6, 1 – 4 November **2000**, Ayvalik, Turkey.
71. *Determination of olive oil 2-thiobarbituric acid reactive substances by parallel flow injection*, N. S. Thomaidis, P. G. Nouros, M. G. Polissiou and C. A. Georgiou, 8th *International Conference on Flow Analysis*, book of abstracts p. 93, 25 – 29 June **2000** Warsaw, Poland.
72. *Direct olive oil anisidine value determination by flow injection*, E. P. Labrinea, N. S. Thomaidis and C. A. Georgiou, 2nd *International Conference of the Chemical Societies of the South-East European Countries. Chemical Sciences and Industry*, book of abstracts PO32, 6 – 9 June **2000**, Halkidiki, Greece.
73. *Determination of ciprofloxacin in pharmaceutical solid dosage forms by FT-Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, 2nd *International Conference of the Chemical Societies of the South-East European Countries. Chemical Sciences and Industry*, book of abstracts PO661, 6 – 9 June **2000**, Halkidiki, Greece.
74. *Development of automated flow injection methods for olive oil analysis*, N. S. Thomaidis, P. G. Nouros, C. A. Georgiou and M. G. Polissiou, 1st *International Conference on Instrumental Methods of Analysis: Modern Trends and Applications*, Conference Proceedings p. 496 – 499, 19 – 22 September **1999**, Halkidiki, Greece.
75. *Quantitative determination of diazinon in pesticide formulations by FT-Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, 1st *International Conference on Instrumental Methods of Analysis: Modern Trends and Applications*, Conference Proceedings p.186-190, 19 – 22 September **1999**, Halkidiki, Greece.
76. *Direct olive oil iodine value determination by parallel multichannel flow injection*, N. S. Thomaidis and C. A. Georgiou, 10th *International Conference on Flow Injection Analysis*, book of abstracts p. 70, 20 – 25 June **1999**, Prague, Czech Republic.
77. *Quantitative determination of the pyrethroid insecticide cypermethrin by FT-Raman spectroscopy*, E. A. Boukouvalas, C. A. Georgiou and M. G. Polissiou, 1st *International Conference of the Chemical Societies of the South-East European Countries. Chemical Sciences and Industry*, book of abstracts PO459, 1 – 4 June **1998**, Halkidiki, Greece.
78. *Fenthion quantitation by Fourier transforms Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, 1st *International Conference of the Chemical Societies of the South-East European Countries. Chemical Sciences and Industry*, book of abstracts PO527, 1 – 4 June **1998**, Halkidiki, Greece.
79. *Automated flow injection spectrophotometric determination of olive oil free fatty acid content and comparison with FT-IR method*, P. G. Nouros, C. A. Georgiou, and M. G. Polissiou, 7th *European Conference on Spectroscopy of Biological Molecules*, p 497-498 in *Spectroscopy of biological molecules: modern trends*, P. Carmona R. Navarro and A. Hernanz (Eds), Kluwer Academic Publishers, **1997**, Netherlands.
80. *Automated Spectrophotometric determination of acidity of olive oil with flow injection analysis and comparison with infrared spectroscopy to transform fourier method*, P. G. Nouros, C. A. Georgiou and M. G. Polissiou, 17th *Panhellenic Chemistry Conference*, proceedings, 614-617, 1-5 December **1996**, Patras.
81. *Determination of binding constants of dyes and micromolecules with cyclodextrins using flow-injection gradient technique*, M. Georgiou, C. A. Georgiou and M. Koupparis, *Biosensors and Flow Injection Analysis in Bioprocess Control Conference*, book of abstracts, 6 – 9 April **1992**, Freising, Germany.

82. *Studies of complex of cyclodextrins with the technique of dynamic percolation - flow injection analysis*, E.E. Sideris, C. A. Georgiou, P. Mahairas and M. A. Koupparis, 5th Panellenic Symposium of Medicinal Chemistry, book of abstracts, 7-8 December **1991**, Athens.
83. *Evaluation of automated flow stopped flow analyser in routine analysis*, C. A. Georgiou and M. A. Koupparis, 3rd International Symposium on Kinetics in Analytical Chemistry, book of abstracts, 25 – 28 September **1989**, Dubrovnik, Yugoslavia.
84. *Kinetic spectrophotometric determinations of drugs based on their reaction with 1-fluoro-2,4-dinitrobenzene using flow stopped flow technique*, C. A. Georgiou and M. A. Koupparis, 3rd International Symposium on Kinetics in Analytical Chemistry, book of abstracts, 25 – 28 September **1989**, Dubrovnik, Yugoslavia.
85. *Automated determination of aminofen, hydrochloric isoxsuprine and others substituted phenols with the method of flow injection analysis, based on their oxidative condensation with 1-nitroso-2-vaftholi presence of Ce (IV) or Pb (IV)*, C. A. Georgiou and M. A. Koupparis, 12th Panellenic Chemistry Conference, proceedings volume B, p. 694 – 698, 21-25 November **1988**, Thessaloniki, Greece
86. *Automated determination of amines and their hydrochloric salts with non-aqueous spectrophotometric fasle-titrate flow injection*. C. A. Georgiou and M. A. Koupparis, 4th Panellenic Drug Conference, proceedings, p. 694 – 698, 21-23 May **1988**, Athens, Greece.

BOOKS

1. *Elemental Metabolomics for food authentication*, G. P. Danezis, C. A. Georgiou, **Invited chapter** in *Food quality, traceability and Foodomics* ed. D. Cozzolino, Elsevier, *Comprehensive Foodomics*, series ed. A. Cifuentes, **in press**.
2. *FOOD AUTHENTICATION: Analysis, Regulation & Consumers*, C. A. Georgiou and G. P. Danezis, **Eds**, Willey – Blackwell, ISBN: 978-1-118-81026-2, p. 1-550, May 2017, <https://bit.ly/2CsGo1q>.
3. *Elemental and Isotopic Mass Spectrometry*, C. A. Georgiou and G. P. Danezis, **Invited chapter** in *Advanced Mass Spectrometry for Food Safety and Quality*, Y. Pico, *Comprehensive Analytical Chemistry*, 2015, p. 131-243.
4. *Fully automated fluidic analyzer for food quality assessment implementing bioluminescent biosensors*, E. Komaitis, E. Vasiliou, D. Georgakopoulos and C. A. Georgiou, **Invited chapter** in *Luminescent microbial biosensors*, G. Thouand, 2014, p. 1-14.
5. *Following oil quality during thermal stress through total antioxidant capacity assays*, N. V. Chantzos and C. A. Georgiou, **Invited chapter** in *Food Chemistry Research Developments* edited by N. K. Papadopoulos, Nova Science Publishers, Inc, NY 2008, p. 13 – 20.
6. *3rd Aegean analytical chemistry day's proceedings*, C. E. Efstathiou, A. C. Calokerinos and C. A. Georgiou, Editors, Lesvos, Greece, 2002, p. 1 – 650.
7. *Chemistry laboratory handbook for the first semester*, C. A. Georgiou, Dimokriteio University of Thrace, Orestiada 2000, p. 1-23.
8. *Errors and statistical processing of analytical data*, C. A. Georgiou, Agricultural University of Athens Press, Athens 2000, p. 1-14.
9. *Handbook of analytical chemistry laboratory*, C. A. Georgiou, Agricultural University of Athens Press, Athens 2000, p. 1-43.
10. *Problems in analytical chemistry*, C. A. Georgiou, Agricultural University of Athens Press, Athens 1998, p. 1-40.
11. *Optimization of analytical methods*, M. A. Koupparis and C. A. Georgiou, chapter 8 in K. H. Efstathiou, D. S. Papastathopoulos, M. A. Koupparis and A. K. Kalokairinos (Eds), *Advanced topics in analytical chemistry*, Athanasopoulos-Papadamis, Athens, Greece, 1989, p. 40 – 47.