CURRICULUM VITAE

Personal information

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Date and Place of Birth :	13.03.1949, Halkiopoulo Etoloakarnanias, Greece
Current Position :	Professor of Physical Chemistry, University of Patras, Greece

1. Education and other scientific and administrative activities

- Undergraduate student, Department of Chemistry, University of Patras, Greece (1967-71).
- Diploma in Chemistry, University of Patras (1971).
- Ph.D in Chemistry, University of Patras (1977).
- Post-doctoral Fellow, Department of Chemistry, University of Utah, USA (1979-80).
- Professor of Physical Chemistry, Department of Chemistry, University of Patras (1990-today).
- He has published 117 research papers in International Scientific Journals and presented another 55 in International Meetings in the research areas of "**physical chemistry of interfaces**" and "**characterization of colloidal materials and macromolecules**".
- He is active on many national and european grants.
- He is member of the Editorial Board of the International Scientific Journals "**Journal of Liquid Chromatography**" and "**Instrumentation Science and Technology**".
- He has been Guest Editor of the Journal of Liquid Chromatography on volume 20 (16 & 17) (1997).
- He is the author of 6 books, circulated by Greek and American publishers.
- He has been referee of scientific papers in seven international journals.
- He has been honored in 1983 by the Academy of Athens.
- He has taught Physical Chemistry at students of the departments of Chemistry, Physics, Biology, Geology, Pharmacology of Patras University (1977-today).
- Academic responsible, co-ordinator, critic reader and author and also co-operative professor of Hellenic Open University (2000-today).
- General director of the Hellenic Industry of Weapons in Aigio, Greece (1991-1993).
- Member of the administrative board of the central administration of the Hellenic Industry of Weapons (1990-1993).
- Director of the section of Physical, Inorganic and Nuclear Chemistry at the Department of Chemistry of the University of Patras (1991-1993, 1998-1999).
- President of the committee of research and substitute member of the administrative committee of the Hellenic Open University (2005-2009).
- Member of the National Board of Research and Technology at the section of "Physics, Chemistry and Materials" (2005-2009).

2. Publications in Peer Review Journals

1. Theory of Non-Equilibrium Stopped-Flow Gas Chromatography.
   By N. A. Katsanos, G. Karaiskakis and I. Z. Karabasis, *J. Chromatogr*., **130**, 3 (1977).
2. Desorption Kinetic Parameters and Adsorption Thermodynamic Parameters Determined Simultaneous by Stopped-Flow Gas Chromatography.
   By G. Karaiskakis and N. A. Katsanos, *J. Chromatogr*., **151**, 291 (1978).
3. Adsorption Studies by Gas-Solid Chromatography Based on the Compensation Effect.
   By G. Karaiskakis, A. Lycourghiotis and N. A. Katsanos, *Z. Phys. Chem*. (*Neue Fogle*), **111**, S. 207 (1978).
4. Catalytic Deamination on Solid Surfaces. 2 Deamination of Dicyclohehylamine on Alumininum Oxide.
   By G. Karaiskakis, A. Lycourghiotis, D. Vattis and N. A. Katsanos, *React. Kinet. Catal*. *Lett*., **15**, 413 (1980).
5. Chromatographic Investigation of the Polarizing Power Developed on the Surface of γ-Al_2O_3 and 13X Molecular Sieve.
   By A. Lycourghiotis, A. Tsiatsios and G. Karaiskakis, *Z. Phys. Chem*. (*Neue Folge*), **123**, S. 103 (1980).
6. Conversion in Catalytic Deamination Calculated by Stopped-Flow Gas Chromatography.
   By D. Vattis, N. A. Katsanos, G. Karaiskakis, A. Lycourghiotis and M. A. Kotinopoulos, *J. Chromatogr*., **214**, 171 (1981).
7. Density and Particle Size of Colloidal Materials Measured by Carrier Density Variation in Sedimentation Field-Flow Fractionation.
   By J. C. Giddings, G. Karaiskakis and K. D. Caldwell, *Sep. Sci. Techn*., **16**(6), 607 (1981).
8. Concentration and Analysis of Dilute Colloidal Samples by Sedimentation Field-Flow Fractionation.
   By J. C. Giddings, G. Karaiskakis and K. D. Caldwell, *Sep. Sci. Techn*., **16**(6), 725 (1981).
9. Verification of Retention and Zone Spreading Equations in Sedimentation Field-Flow Fractionation.
   By G. Karaiskakis, M. N. Myres, K. D. Caldwell and J. C. Giddings, *Anal. Chem*., **53,** 1314 (1981).
10. Characterization of BSA Microspheres by Sedimentation Field-Flow Fractionation.
    By K.D. Caldwell, G. Karaiskakis, M. N. Myers and J. C. Giddings, *J. Pharmaceut. Sci*., **70**(12), 1350 (1981).
11. Characterization of T4D virus by Sedimentation Field-Flow Fractionation.
    By K. D. Caldwell, G. Karaiskakis and J. C. Giddings, *J. Chromatogr*., **215**, 323 (1981).
12. Characterization of Liposomes by Sedimentation Field-Flow Fractionation.
    By K. D. Caldwell, G. Karaiskakis and J. C. Giddings*, Colloids and Surfaces*,. **3**, 233 (1981).
13. Diffusion Coefficients from Stopped-Flow Gas Chromatography.
    By N. A. Katsanos, G. Karaiskakis, D. Vattis and A. Lycourghiotis, *Chromatographia,* **14**(12), 695 (1981).
14. Catalytic Deactivation of Cobalt Molybdenum h. d. s. Catalysts Supported on γ-Al_2O_3 Doped with Li^+ Ions.
    By A. Lycourghiotis, D. Vattis, G. Karaiskakis and N. A. Katsanos, *J. Less-Common Metals*, **86**, 137 (1982).
15. Measurement of Diffusion Coefficients by Reversed-Flow Gas Chromatography Instrumentation.
    By N. A. Katsanos and G. Karaiskakis, *J. Chromatogr*., **237,** 1 (1982).
16. Catalytic Dehydration of Alcohols studied by Reversed-Flow Gas Chromatography.
    By G. Karaiskakis, N. A. Katsanos, I. Georgiadou and A. Lycourghiotis, *J. Chem. Soc*., *Faraday Trans*. *1*, **78,** 2017 (1982).

17. Spectroscopic Determination of the Kinetic Model and of Activation Energies of Co_3O_4 Surface Dissociation on γ-Al_2O_3 and SiO_2 modified with Alkali Earth Cations. By A. Lycourghiotis, M. Kotinopoulos, A. Tsiatsios, N. A. Katsanos, and G. Karaiskakis, *React. Kinet. Catal. Lett*., **20**, 163 (1982).
18. Preparation and Characterization of Iron (II) Oxide Supported Alumina Catalysts. By A. Lycourghiotis, D. Vattis, G. Karaiskakis and N. A. Katsanos, *Revue Chimie Minerale,* **19**, 139 (1982).
19. Determination of Adsorption Equilibrium Constants by Reversed-Flow Gas Chromatography. By G. Karaiskakis, N. A. Katsanos and A. Niotis, *J. Chromatogr*., **245**, 21 (1982).
20. Kinetic Study of Drying step of Supportd Catalysts by Reversed-Flow Gas Chromatography. By G. Karaiskakis, A. Lycourghiotis and N. A. Katsanos, *Chromatographia*, **15**(6), 351 (1982).
21. Sedimentation Field-Flow Fractionation of Colloidal particles in river water. By G. Karaiskakis, K. Graff, K. D. Caldwell and J. C. Giddings, *Int. J. Environ. Anal. Chem*., **12(**1), 1 (1982).
22. Catalytic Deamination by Reversed-flow Gas Chromatography.
    By M. Kotinopoulos, G. Karaiskakis and N. A. Katsanos, *J. Chem. Soc., Faraday Trans. 1*, **78**, 3379 (1982).
23. Colloid Characterization by Sedimentation Field-flow Fractionation I. Monodisperse Populations.
    By J. C. Giddings, G. Karaiskakis, K. D. Caldwell and M. N. Myers, *J. Colloid Interf. Sci*., **92**(1), 66 (1983).
24. Temperature Variation of Gas Diffusion Coefficients Studied by the Reversed-Flow Sampling Technique.
    By N. A. Katsanos and G. Karaiskakis, *J. Chromatogr*., **254**, 15 (1983).
25. Kinetics of Carbon Monoxide oxidation over Co_3O_4 containing Catalysts studied by the Reversed-Flow Technique.
    By G. Karaiskakis, N. A. Katsanos and A. Lycourghiotis, *Canadian J. Chemistry,* **61**, 1853 (1983).
26. Measurement of Diffusion Coefficients in Multicomponent Gas Mixtures by the Reversed-Flow Technique.
    By G. Karaiskakis, N. A. Katsanos and A. Niotis, *Chromatographia,* **17**(6), 310 (1983).
27. Reversed-Flow Gas Chromatography applied to Physicochemical Measurements. By N. A. Katsanos and G. Karaiskakis, *Advances in Chromatography*, **24**, 125 (1984).
28. Rate Coefficients for Evaporation of Pure Liquids and Diffusion Coefficients of Vapors. By G. Karaiskakis and N. A. Katsanos, *J. Phys. Chem*., **88**(16), 3674 (1984).
29. The Reversed-flow Technique applied in heterogeneous Catalysis with Complicated Kinetics. By N. A. Katsanos, G. Karaiskakis and A. Niotis, 8th International Congress on Catalysis, West Berlin, 1984, Vol. III, p.143.
30. Characterization of Gases by the Reversed-Flow Gas Chromatography Technique. By G. Karaiskakis, A. Niotis and N. A. Katsanos*, J. Chromatogr. Sci*., **22,** 554 (1984).
31. Catalytic Hydrodesulfurization of Thiophene Studied by the Reversed-Flow Gas Chromatography Technique.
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32. Lennard-Jones Potential Parameters Determined by the Reversed-Flow Gas Chromatography Technique.
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33. Measurement of Activity Coefficients by Reversed-Flow Gas Chromatography. By N. A. Katsanos, G. Karaiskakis and P. Agathonos, *J. Chromatogr*., **349**, 369 (1986).

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37. Analytical Applications of Reversed-Flow Gas Chromatography.
    By N. A. Katsanos and G. Karaiskakis, *Analyst*, **112**, 809 (1987).
38. Characterization of Dilute Colloidal Samples by Frontal Sedimentation Field-Flow Fractionation.
    By G. Karaiskakis and E. Dalas, *J. Chromatogr. Sci*., **26**, 29 (1988).
39. Kinetic Study of Reactivity of Marble with Sulphur Dioxide by Reversed-Flow Gas Chromatography.
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40. Characterization of Inorganic Colloidal Materials by Steric Field-Flow Fractionation. I. Determination of Particle Size Distribution.
    By E. Dalas and G. Karaiskakis*, Colloids and Surfaces*, **28**, 169 (1987).
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    By A. Niotis, N. A. Katsanos, G. Karaiskakis and M. Kotinopoulos, *Chromatographia*, **23**(6), 447 (1987).
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    By E. Dalas, P. Koutsoukos and G. Karaiskakis*, Colloid & Polymer Sci*., **268,** 155 (1990).
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45. Measurements of Activity Coefficients, Mass Transfer Coefficients and Diffusion Coefficients in Multicomponent Liquid Mixtures by Reversed-flow Gas Chromatography.
    By P. Agathonos and G. Karaiskakis, *J. Chem. Soc.*, *Faraday Trans. 1*, **85**(6), 1357 (1989).
46. Sedimentation Field-Flow Fractionation: A New Methodology for the Concentration and Particle Size Analysis of Dilute Polydisperse Colloidal Samples.
    By A. Koliadima and G. Karaiskakis, *J. Liq. Chromatogr*., **11**(14), 2863 (1988).
47. Estimation of Solubility and Interaction Parameters in Binary Liquid Mixtures by Reversed-flow Gas Chromatography.
    By A. Koliadima, P. Agathonos and G. Karaiskakis, *Chromatographia*, **26**, 29 (1988).
48. Simultaneous Determination of Particle Size and Density in Polydisperse Colloidal Samples by Sedimentation Field-Flow Fractionation.
    By A. Koliadima, E. Dalas and G. Karaiskakis, *J. High Res. Chromatogr*., **13**, 338 (1990).
49. Adsorption, Reaction and Desorption Rate Constants, Measured Simultaneously by Gas Chromatography.
    By N. A. Katsanos, G. Karaiskakis and Ch. Vassilakos, *Pure Appl. Chem*., **61**(11), 2057 (1989).

50. Potential Barrier Field-Flow Fractionation for the Separation and Characterization of Colloidal Particles.
    By G. Karaiskakis and A. Koliadima, *Chromatographia*, **28**, 31 (1989).
51. Investigation of the Coagulation Mechanism of the Suspended Particulate Matter in Coastal Waters.
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    By A. Koliadima and G. Karaiskakis*, J. Water and Wastewater Res*., **23**, 85 (1990).
53. Estimation of Polymers and Colloids Polydispersity by Field-Flow Fractionation.
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54. Potential Barrier Field-Flow Fractionation: A Versatile New Separation Method.
    By A. Koliadima and G. Karaiskakis, *J. Chromatogr.*, **517,** 345 (1990).
55. A Plant Kinetic Study of Alcoholic Fermentation Using RFGC.
    By N. Economopoulos, N. Athanasopoulos, N. A. Katsanos, G. Karaiskakis, P. Agathonos and Ch. Vassilakos, *Sep. Sci. Technol*., **27**(15), 2055 (1992).
56. Gas Chromatographic study of interaction between vinylchloride and polyvinylchloride.
    By A. Koliadima, P. Agathonos and G. Karaiskakis, *J. Chromatogr*., **550**, 171 (1991).
57. Activity coefficients in binary liquid mixtures by RFGC.
    By A. Koliadima, G. Karaiskakis, N. A. Katsanos and M. Roth, *J. Chromatogr*., **595**, 237 (1992).
58. Concentration and characterization of dilute colloidal samples by potential barrier field-flow fractionation.
    By A. Koliadima and G. Karaiskakis, *Chromatographia*, **39**, 74 (1994).
59. Kinetic study by proton nuclear magnetic reasonance spectroscopy of the reaction between ethyl pyruvate and diethyl phosphite yielding 2-diethoxyphosphonyl-2-hydroxypropionic acid ethyl ester.
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60. Potential barrier gravitational FFF for the analysis of polydisperse colloidal samples.
    By A. Athanasopoulou and G. Karaiskakis, *Chromatographia*, **40,** 734 (1995).
61. New methodologies of FFF for the separation and characterization of dilute colloidal samples.
    By A. Athanasopoulou, A. Koliadima and G. Karaiskakis, *Instrum. Sci. Technol*., **24**(2), 79 (1996).
62. Potential barrier gravitational FFF based on the variation of the pH solution for the analysis of colloidal materials.
    By A. Athanasopoulou and G. Karaiskakis, *Chromatographia*, **43**, 369 (1996).
63. Characterization of sulphides by gravitational FFF.
    By A. Athanasopoulou and G. Karaiskakis, *J. Liq. Chromatogr. & Rel. Technol*., **20**(6), 839 (1997).
64. New gas chromatographic instrumentation for studying mass transfer phenomena.
    By D. Gavril and G. Karaiskakis, *Instrum. Sci. Technol*., **25**(3), 2177 (1997).
65. Adhesion studies of colloidal materials on solid surfaces by FFF.
    By G. Karaiskakis, A. Athanasopoulou and A. Koliadima, *J. Microcol. Sep*., **9**(4), 275 (1997).
66. Colloidal interactions studied by sedimentation FFF.
    By A. Athanasopoulou, G. Karaiskakis and A. Travlos, *J. Liq. Chromatogr. & Rel. Technol*., **20**(16 & 17), 2525 (1997).
67. Particulate matter in air: Particle size distributions and elemental concentrations.
    By A. Koliadima, A. Athanasopoulou and G. Karaiskakis, *Aerosol Sci. Technol*., **28**(4), 292 (1998).

68. Interaction studies of vinylchloride with liquid foods by gas chromatography. By D.Gavril and G.Karaiskakis, *Chromatographia*, **47**, 63 (1998).
69. Conversions of CO oxidation over Pt-Rh alloy catalysts calculated by a new gas chromatographic technique.
    By D. Gavril, A. Koliadima and G. Karaiskakis, *Chromatographia*, **49**, 285 (1999).
70. Study of the sorption of carbon monoxide, oxygen and carbon dioxide on platinum-rhodium alloy catalysts by a new gas chromatographic methodology. By D. Gavril and G. Karaiskakis, *J. Chromatogr. A*, **845**, 67 (1999).
71. Study of hydroxyapatite aggregation in the presence of potassium phosphate by centrifugal sedimentation field-flow fractionation.
    By A. Athanasopoulou, D. Gavril, A. Koliadima and G. Karaiskakis, *J. Chromatogr. A*, **845,**. 293 (1999).
72. Adsorption studies of gases on Pt-Rh bimetallic catalysts by reversed-flow gas chromatography.
    By D. Gavril, A. Koliadima and G. Karaiskakis, *Langmuir*, **15**, 3798 (1999).
73. Gas chromatographic kinetic study of carbon monoxide oxidation over platinum-rhodium catalysts.
    By D. Gavril, N. A. Katsanos and G. Karaiskakis, *J. Chromatogr*.A, **852**, 507 (1999).
74. Investigation of the coagulation and adhesion phenomena in colloids by Field-flow fractionation.
    By A. Koliadima, D. Gavril and G. Karaiskakis, *J. Liq. Chromatogr. & Rel. Technol*., **22(18)**, 2779 (1999).
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76. Potential barrier field-flow fractionation.
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82. Study of the influence of the ionic strength and the pH of the suspending medium on the size of the wheat starch granules measured by sedimentation/steric field-flow fractionation. By L. Farmakis, A. Koliadima and G. Karaiskakis, *J. Liq. Chromatogr.& Rel. Technol.* **25**, 167 (2002).
83. Flux of gases across the air-water interface studied by reversed-flow gas chromatography. By K. A. Rashid, D. Gavril, N. A. Katsanos and G. Karaiskakis, *J. Chromatog*, A., **934**, 31 (2001).
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91. Surface energy of solid catalysts measured by inverse gas chromatography.
    By N. A. Katsanos, D. Gavril, J. Kapolos and G. Karaiskakis, *J. Colloid Interf. Sci*., **270**, 455 (2004).
92. Determination of collision cross-sectional parameters from experimentally measured gas diffusion coefficients.
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81. Determination of mass transfer coefficients for the evaporation of SO_2 from water at different temperature and pH values.
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