



BIBLIOGRAPHY

1. Hampel, C. A., and Hawley, G. C. The Encyclopedia of Chemistry. 3d ed. New York: Van Nostrand Reinhold Co., 1973.
2. Hampel, C. A. The Encyclopedia of the Chemical Elements. New York: Reinhold Book Corporation, 1968.
3. Bockris, J. O. M. Environmental Chemistry. New York: Plenum Press, 1977.
4. Lapedes, D. N. The Encyclopedia of Environmental Science. New York: Mc Graw-Hill Co., 1974.
5. Woolson, E. A. Arsenical Pesticides. ACS Symposium Series 7. Washington, D.C.: American Chemical Society, 1975.
6. Underwood, E. J. Trace Elements in Human and Animal Nutrition. 4th ed. New York: Academic Press, 1977.
7. Schroeder, H. A., and Balassa, J. J. "Abnormal Trace Metals in Man: Arsenic." Journal of Chronic Disease 19 (January 1966): 85-106.
8. Guenzi, W. D. Pesticides in Soil and Water. Madison, Wisconsin: Soil Science Society of America, 1974.
9. Bolt, G. H., and Bruggenwert, M. G. M. Soil Chemistry: A Basic Elements. Developments in Soil Science 5A. Amsterdam: Elsevier Scientific Publishing Company, 1976.

10. Luckey, L. D.; Venugopal, B.; and Hutcheson, D.
Environmental Quality and Safety Supplement Vol 1:
Heavy Metal Toxicity, Safety and Hormology.
Stuttgart: Georg Thieme Publishers, 1975.
11. Sax, M. I. Dangerous Properties of Industrial Materials.
4th ed. New York: Van Nostrand Reinhold Co.,
1975.
12. Buchanan, W. D. Toxicity of Arsenic Compounds.
Amsterdam: Elsevier Publishing Company, 1962.
13. Searle, C. E. Chemical Carcinogens. ACS Monograph 173.
Washington D.C.: American Chemical Society, 1976.
14. Thailand. Department of Customs. Foreign Trade
Statistics of Thailand. 1971-1978.
15. Haynes, B. W. " Electrothermal Atomic Absorption
Determination of Arsenic and Antimony in
Combustible Solid Waste." Atomic Absorption
Newsletter 17 (1978): 49-52.
16. Woidich, H., and Pfannhauser, W. " Determination of
Arsenic in Biological Materials by Flame Atomic
Absorption Spectrophotometry." Zeitschrift für
Analytische Chemie 276 (1975): 61-66.
17. George, G. M.; Frahm, L. J.; and Mc Donnell, P. J.
" Dry Ashing Method for the Determination of Total
Arsenic in Animal Tissues: Collaborative Study."
Journal of the Association of Official Analytical
Chemists 56 (July 1973): 793-797.

18. Tam, K. H., and Conacher, H. B. S. " The Suitability of the Dry Ashing Procedure for Determination of Arsenic in Marine Samples." Journal of Environmental Science and Health Part B B12 (1977): 213-227.
19. Reay, P. F. " A Routine Method for the Determination of Arsenic in Plants, Sediment and Natural Water." Analytica Chimica Acta 72 (September 1974): 145-154.
20. Campbell, J. L., et al. " Trace Elements Analysis of Fluids by Proton Induced X-ray Fluorescence Spectrometry." Analytical Chemistry 47 (August 1975): 1542-1553.
21. Sachs, R. M., et al. " Determination of Arsenical Residues in Plant Tissue." Weed Science 19 (1971): 412-416.
22. Garrido, M. D.; Gil, M. L.; and Llaguno, C. " Determination of Arsenic in Food Products." Anales de Bromatologia 26 (1974): 167-175.
23. Uthe, J. F., et al. " Comparison of Wet Ashing and Dry Ashing for the Determination of Arsenic in Marine Organisms, Using Methylated Arsenicals for Standards." Journal the Association of Official Analytical Chemists 57 (November 1974): 1363-1365.
24. Kneip, T. J. " Analytical Method for Arsenic in Urine and Air." Health Laboratory Science 13 (1976): 95-99.

25. Kneip, T. J. "Arsenic, Selenium and Antimony in Urine and Air. Analytical Method by Hydride Generation and Atomic Absorption Spectroscopy." Health Laboratory Science 14 (1977): 53-58.
26. Diamondstone, B. I., and Burk, R. W. "Some Difficulties Encountered in Speciation Study of Arsenic." The Analyst 102 (August 1977): 613-614.
27. Hundley, H. K., and Underwood, J. C. "Determination of Total Arsenic in Total Diet Samples." Journal of the Association of Official Analytical Chemists 53(November 1970): 1176-1178.
28. Leblanc, P. J., and Jackson, A. L. "Dry Ashing Technique for the Determination of Arsenic in Marine Fish." Journal of the Association of Official Analytical Chemists 56 (March 1973): 383-386.
29. Hoover, W. L., et al. "Atomic Absorption Spectrometric Determination of Arsenic." Journal of the Association of Official Analytical Chemists 57 (January 1974): 18-21.
30. Vijan, P. N., et al. "A Semi-automated Method for the Determination of Arsenic in Soil and Vegetation by Gas-phase Sampling and Atomic Absorption Spectroscopy." Analytica Chimica Acta 82 (April 1976): 329-336.
31. Aggett, J., and Aspell, A. C. "The Determination of Arsenic (III) and Total Arsenic by Atomic Absorption Spectroscopy." The Analyst 101 (May 1976): 341-347.

32. Ihnat, M., and Miller, H. J. "Acid Digestion, Hydride Evolution Atomic Absorption Spectrophotometric Method for Determining Arsenic and Selenium in Foods." Journal of the Association of Official Analytical Chemists 60 (November 1977): 1414-1433.
33. Fiorino, J. A.; Jones, J. W.; and Capar, S. G. "Sequential Determination of Arsenic, Selenium, Antimony and Tellurium in Foods via Rapid Hydride Evolution and Atomic Absorption Spectrometry." Analytical Chemistry 48 (January 1976): 120-125.
34. Yamamoto, Y., and Kumamaru, T. "Comparative Study of Zinc Tablet and Sodium Borohydride Tablet Reduction Systems in the Determination of Arsenic, Antimony and Selenium by Atomic Absorption Spectrophotometry via Their Hydrides." Zeitschrift für Analytische Chemie 281 (1975): 353-359.
35. Mushak, P.; Dessauer, K.; and Walls, E. L. "Flameless Atomic Absorption and Gas Liquid Chromatographic Studies in Arsenic Bioanalysis." Environmental Health Perspectives 19 (1977): 5-10.
36. Wauchope, R. D. "Selenium and Arsenic Levels in Soybeans from Different Production Regions of the United States." Journal of Agricultural and Food Chemistry 26 (January-February 1978): 226-228.

37. Miyazaki, A.; Kimura, A.; and Umezaki, Y. "Determination of Submicrogram Amounts of Arsenic and Antimony by D.C. Plasma Arc Emission Spectrometry." Analytica Chimica Acta 90 (May 1977): 119-125.
38. Holak, W. "Determination of Arsenic and Selenium in Foods by Electroanalytical Techniques." Journal of the Association of Official Analytical Chemists 59 (May 1976): 650-654.
39. Noble, A. C., et al. "Trace Element Analysis of Wine by Proton-induced X-ray Fluorescence Spectrometry." Journal of Agricultural and Food Chemistry 26 (January-February 1978): 226-228.
40. Sakai, K. "Determination of Toxic Elements in Food by Activation Analysis." Sei Mariana Ika Daigaku Kiyo, Ippan Kyoiky 3 (1974): 105-111.
41. Szabo, A.; Hodsagi, E.; and Kovacs, V. "Activation Analytical Determination of Trace Elements in Tomatoes." Isotopenpraxis 13 (1977): 315-316.
42. Purkayastha, B. C., and Bhattacharyya, D. K. "Determination of Gold and Arsenic in Indian Tobacco Leaves." Radiochemical and Radioanalytical Letters 23 (1975): 43-48.
43. Nakahara, H.; Yanokura, M.; and Murakami, Y. "Activation Analysis of Plants within Regions of Geothermal Resource Development." Journal of Radioanalytical Chemistry 37 (1977): 839-847.

44. Turel, Z. R.; Merchant, J. R.; and Haldar, B. C.
"Neutron Activation Analysis of Bawachi Seeds."
Journal of Radioanalytical Chemistry 45 (1978):
203-207.
45. Heydorn, K., and Damsgaard, E. "Simultaneous
Determination of Arsenic, Manganese and Selenium
in Biological Materials by Neutron Activation
Analysis." Talanta 20 (January 1973): 1-11.
46. Munns, R. K. "Simultaneous Determination of Trace
Amounts of Arsenic and Selenium in Foods by Gas
Chromatography." Chemical Abstract 88 (January
1978): 20647.
47. Brown, R., and Taylor, H. E. "Trace Elements Analysis
of Normal Lung Tissue and Hilar Lymph Nodes by
Spark Source Mass Spectrometry." Chemical Abstract
88 (June 1978): 164967.
48. Forsberg, G. "Determination of Arsenic by Anodic
Stripping Voltammetry and Differential Pulse Anodic
Stripping Voltammetry." Analytical Chemistry 47
(August 1975): 1582-1592.
49. Offner, H. G., and Wituchi, E. F. "Toxic Inorganic
Materials and Their Emergency Detection (in Water)
by the Polarographic Method." Journal of the
American Water Works Association 60 (August 1968):
947-952.

50. Davis, P. H., et al. "Analysis of Total Arsenic in Urine and Blood by High Speed Anodic Stripping Voltammetry." Journal American Industrial Hygiene Association 39 (1978): 480-490.
51. Pilkington, E. S., and Weeks, C. "Determination of Trace Elements in Zinc Plant Electrolyte by Differential Pulse Polarography and Anodic Stripping Voltammetry." Analytical Chemistry 48 (October 1976): 1665-1668.
52. Nadezhina, L. S.; Grinzaid, E. L.; and Novakovskaya, E. G. "Assessment of the Sensitivity of Various Polarographic Methods for Determining Lead, Tin and Arsenic." Chemical Abstract 73 (November 1970): 105173.
53. Crosby, N. T. "Determination of Metals in Foods." The Analyst 102 (April 1977): 225-268.
54. Parry, E. P., and Osteryoung, R. A. "Evaluation of Analytical Pulse Polarography." Analytical Chemistry 37 (December 1965): 1634-1637.
55. Myers, D. J., and Osteryoung, J. "Determination of Arsenic (III) at the Part-per-Billion Level by Differential Pulse Polarography." Analytical Chemistry 45 (February 1973): 267-271.
56. Meites, L. Polarographic Techniques. 2d ed. New York: Interscience Publishers, 1965.

57. Princeton Applied Research Corporation. Model 315 Automated Electroanalysis Controller: Operating and Service Manual. New Jersey: Princeton Applied Research Corporation, 1974.
58. Vogel, A. I. A Textbook of Quantitative Inorganic Analysis. 3d ed. London: The English Language Book Society and Longman, 1962.
59. Doshi, G. R., and Patel, B. "Ashing Procedures for Volatile Elements in Biomaterials." Current Science 42 (May 1973): 307-309.
60. Tomilov, A. P., and Chomutov, N. E. "Arsenic" In Encyclopedia of Electrochemistry of the Elements, pp. 22-51. Edited by Allen J. Bard. New York: Marcel Dekker Inc., 1974.
61. Nelson, F., and Kraus, K. A. "Anion Exchange Studies XVIII Germanium and Arsenic in HCl Solution." Journal of the American Chemical Society 77 (September 1955): 4508-4511.
62. Inczedy, J. Analytical Applications of Ion Exchangers. Translated by A. Pall. London: Pergamon Press, 1966.
63. Odencrantz, J. T., and Reiman, W. "Determination of Arsenic in Insecticides." Analytical Chemistry 22 (August 1950): 1066-1067.

64. Suta Poosittisak. "The Analysis of Lead in Various Vegetables by Anodic Stripping Voltammetry." Master's Thesis, Department of Chemistry, Graduate School, Chulalongkorn University, 1979.
65. Hanson, N. W. Official, Standardised and Recommended Methods of Analysis. 2d ed. Cambridge: W. Heffer and Sons, 1973.
66. Food and Agriculture Organization of the United Nations. "Food Additive Control Series." Rome: 1962.
67. Canada, and the United Kingdom. "Preliminary Working Paper on Calcium Arsenate and Lead Arsenate Prepared for the 1968 FAO/WHO Joint Meeting on Pesticide Residues." Canada: 1968.

VITA

Miss Javapa Koopetngarm was born on November 23, 1952 in Bangkok. She received her B.Sc. in Chemistry from Faculty of Science, Chulalongkorn University in 1973. She was supported by the University Development Commission Scholarship during the study towards the Master degree of science. After her graduation, she will be an instructor at the Department of Chemistry, Faculty of Science and Industrial Education, King Mongkut's Institute of Technology (Thon Buri).

