

REFERENCES

1. Johnson, S.W., and J.M. Blake, " On Kaolinite and Pholerite ", American Journal of Science, 2 nd ser., 43, 531-561, 1867.
2. Ross, C.S. and P.F. Kerr, " The Kaolin Minerals ", Professional Paper 165-E, U.S. Geological Survey, pp 154-180, 1931.
3. Kuengtag, C., P. Wasuwanich and T. Pungrassami, " Kaolin Deposits of Thailand ", UNIDO, ID/WG.370/5, 1982.
4. Huber, J.M. Corporation, " Kaolin Clays and Their Industrial Uses ", New York, N.Y., 2 nd ed. pp 15-22, 1955.
5. ASTM D 718-86, "Method of Analysis of Aluminium Silicate Pigment", American Standard Society for Testing and Materials, Philadelphia, Pa., 1987.
6. Valeton, I., " Bauxites ", Developments in Soil Science, Amsterdam, 1972.
7. Maignien, R., "Review of Research on Laterites", Natural Resources Research IV, UNESCO, 1966.
8. Bauer, M., " Beitrage zur Geologie der Seyschellen Insbesondere zur Kenntnis des Laterits ", Neues Jahrb Miner, vol 2, 163-219.
9. Buchanan, F., " A Journal from Malabar through the Countries of Mysore ", Canara and Malabar, East India Company, London, 2, 436-460.
10. American Water Works Association, " AWWA Standard for Bauxite ", AWWA B401-453, New York 16 N.Y.
11. Anderson, N.G., " Analytical Techniques for Cell Fractions. XII A multiple-cuvette rotor for a new microanalytical system", Anal. Biochem., 28, 207-209, 1968.

12. Skeggs, Jr.L.T., " Automatic Method For Colorimetric Analysis ",
Am. J. Clin. Pathol., 28, 331-332, 1957.
13. Thiers, R.E., R.R. Cole and W.J. Kirsch, " Kinetic Parameters of Continuous Flow Analysis", Clin. Chem., 13, 451-467, 1967.
14. Walker, W.H.C., C.A. Penncock and G.K. McGown, " Practical Considerations in Kinetics of Continuous Flow Analysis ",
Clin. Chim. Acta, 27, 421-435, 1970.
15. Strickler, H.S., P.J. Stanchak and J.J. Maydak, " Application of Correction Equations for Sample Interactions in Complex Autoanalyser Methods ", Anal. Chem., 42, 1576-1578, 1970.
16. Walker, W.H.C., "Curve Regeneration in Continuous Flow Analysis",
Clin. Chim. Acta, 32, 305-306, 1971.
17. Thiers, R.E., J. Bryan and K.M. Oglesby, "Multichannel Continuous-Flow Analyser ", Clin. Chem., 12, 120-136, 1966.
18. Habig, R.L., B.W. Schlein, L. Walter and R.E. Thiers, " A Bubble-gating Flow Cell for Continuous Flow Analysis ", Clin. Chem., 15, 1047-10 , 1963.
19. Ruzicka, J. and E.H. Hansen, " Flow Injection Analysis Part I. A New Concept of Fast Continuous Flow Analysis ", Anal. Chim. Acta, 78, 145-157, 1975.
20. Stewart, K.K., G.R. Beecher and P.E. Hare, " Rapid Analysis of Discrete Samples: the use of nonsegmented continuous flow",
Anal. Biochem., 70, 167-173, 1976.
21. Nagy, G., Z. Feher and E. Pungor, " Application of Silicone Rubber-Based Graphite Electrode for Active Substance Injected into Electrolyte Streams ", Anal. Chim. Acta, 52, 47-54, 1970.
22. Ruzicka, J. and E.H. Hansen, " Flow Injection Analysis Part X. Theory, Thecniques and Trends ", Anal. Chim. Acta, 99, 37-76, 1978.

23. Betteridge, D., " Flow Injection Analysis ", Anal. Chem., 50, 832A-846A, 1978.
24. Ruzicka, J., and E.H. Hansen, Flow Injection Analysis, Wiley, New York, 1981.
25. Stewart, K.K., " Flow Injection Analysis: A Review of Its Early History ", Talanta, 28, 789-797, 1981.
26. Ruzicka, J. and E.H. Hansen, " The Fast Decade of Flow Injection Analysis: From Serial Assay to Diagnostic Tool ", Anal. Chim. Acta, 179, 1-58, 1986.
27. Ranger, C.B., " Flow Injection Analysis Principles Techniques Applications Design ", Anal. Chem., 53, 20A-32A, 1981.
28. Mindagard, J., " Flow Multi-Injection Analysis: A System for The Analysis of Highly Concentrated Samples Without Prior Dilution ", Anal. Chim. Acta, 104, 185-189, 1979.
29. Taylor, G., " Dispersion of Soluble Matter in Solvent Flowing Slowly Through a Tube ", Pro. R. Soc. London Ser A, 219, 186-203, 1953.
30. Bate, H., S. Rowlands and A. Sirs, " Influence of Diffusion on Dispersion of Indicators in Blood Flow ", J. Appl. Physiol., 34, 866-872, 1973.
31. Vanderslice, T.J., K.K. Stewart, A.G. Rosenfeld and D.J. Higgs, "Laminar Dispersion in Flow-injection Analysis", Talanta, 28, 11-18, 1981.
32. Zoeltzer, D. and G. Schwedt, "Comparison of Continuous-Flow (CFA) and Flow-Injection (FIA) Techniques for the Photometric Determination of Traces of Aluminium in Water and Soil Samples ", Fresenius Z Anal. Chem., 317, 422-426, 1984.

33. Wyganowski, C., S. Motomizu and K. Toei, " Spectrophotometric Determination of Aluminium in River Water with Bromopyrogallol Red and n-tetradecyltrimethylammonium Bromide By Flow Injection Analysis ", Anal. Chem. Acta, 140, 313-317, 1982.
34. Edwards, A.C. and M.S. Cresser, " An Improved, Automated Xylenol Orange Method for The Colorimetric Determination of Aluminium ", Talanta, 30, 702-704, 1983.
35. Bertsch, P.M., M.M. Alley and T.L. Ellmore, " Automated Aluminium Analysis With The Aluminon Method", Soil Sci. Soc. Am. J., 45, 666-667, 1981.
36. Mortatti, J., F.J. Krug, L.C.R. Pessenda and E.A.G. Zagatto, " Determination of Iron in Natural Waters and Plant Materials with 1,10-Phenanthroline by Flow Injection Analysis ", Analyst, 107, 659-663, 1982.
37. Burguera, J.L. and M. Burguera," Flow Injection Spectrophotometry Followed by Atomic Absorption Spectrometry for The Determination of Iron(II) and Total Iron ", Anal. Chim. Acta, 161, 375-379, 1984.
38. Hongbo, C., M. Lihong and Z. Zhaohai, " Automatic Flow-Injection Colorimetric Determination of Available Aluminium in Soils ", Fenxi Huaxue, 12, 754-756, 1984.
39. Rokuro, K., I. Iwao and K. Hideki,"Spectrophotometric Determination of Silicon in Silicates by Flow-Injection Analysis ", Talanta, 32, 353-357, 1985.
40. Corbett, J.A. and B.D. Guerin, " The Determination of Aluminium in Iron and Steel ", Analyst, 91, 490-498, 1966.
41. Sandell, E.B., Colorimetric Determination of Metals, 3 rd ed., Interscience Publishers, a division of John Wiley & Sons Inc., New York, pp 522-554, 1959.

42. Leussing, D.L. and I.M. Kolthoff, "Iron-Thioglycolate Complexes", J. Am. Chem. Soc., 75, 3904-3911, 1953.
43. Boltz, D.F., Colorimetric Determinations of Nonmetals, (Interscience), Wiley, 1958.
44. Myshlyaeva, L. V. and V.V. Krasnoschekov, Analytical Chemistry of Silicon, John Wiley & Sons, New York, Toronto, PP 91-111, 1974.
45. ASTM D 717-73, " Specification for Aluminium Silicate Pigments ", American Society for Testing and Materials, Philadelphia, Pa, 1987.
46. Pendleton, R.L. and S. Sharasuvana, " Analysis of Some Siamese Laterites ", Soil Science, 62, 423-440, 1946.
47. Attack, F.A., Colorimetric Determination of Aluminium ", J. Soc. Chem Ind., London, 34, 936, 1915.
48. Parker, C.A. and A.P. Goddard, " The Reaction of Aluminium Ions with Alizarin-3-sulfonate with Particular Reference to The Effect of Addition of Calcium Ions ", Anal. Chim. Acta, 4, 517-535, 1950.
49. Tikhonov, V.N., Analytical Chemistry of Aluminium, John Wiley & Sons, New York, Toronto, 1973, 136-137.
50. Sandell, E.B. and H. Onishi, Photometric Determination of Traces of Metals, John Wiley & Sons, Inc., 4th ed, 1978, PP 286-306
51. Grigg, J.L. and J.D. Morrison, " Automatic Colorimetric Determination of Aluminium in Soil Extracts using Catechol Violet", Commun. Soil Sci. Plant Anal., 13, 351-561, 1982.
52. Leggett, D.J., N.H. Chen and D.S. Mahadevappa, " Flow-injection Methods for Determinations of Iron(III) ", Indian J. Chem Sect. A, 20, 1051-1053, 1981.

53. Tadashi, M., T. Yasuhiko and K. Rokuro, " Flow-injection Analysis of Silicate Rocks for Total Iron and Aluminium ", Talanta, 29, 659-662, 1982.
54. ASTN 72-01/84, " Determination of Iron in Water by Flow Injection Analysis (TPTZ method) ", The Tecator Application Short Note, 1984.
55. Borggaard, O.K. and S..S. Jorgensen, " Determination of Silicon in Soil Extracts by Flow Injection Analysis ", Analyst, 110, 177-180, 1985.
56. Yoshinobu, U. and S. Itsuma, " Water-recycling Operation in Processing Plants of Kaolin Ore II Rapid Measurement of The Mineral Composition by X-ray Fluorescence Analysis " Chem. Abstr., 101, 182898h, 1984.
57. Reis, B.F., H. Bergamin F°, E.A.G. Zagatto and F.J. Krug, " Merging Zones in Flow Injection Analysis, Part 3. Spectrophotometric Determination of Aluminium in Plant and Soil Materials with Sequential Addition of Pulsed Reagents ", Anal. Chim. Acta, 107, 309-317, 1979.

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