

## FIA Bibliography (VIII)

Toshihiko Imato\* and Hiroki Ohura\*\*  
Kyushu University\*  
Kyushu Sangyo University\*\*

FIA-related papers appeared since 1984 have been compiled in this FIA Bibliography section. About seven hundred papers were listed in the previous section (references 226-228, 342, 501, 598, 771). All papers in this section are numbered in series and shown with the titles in English. The readers are requested to send us the reprints of their FIA-related papers that have not yet been listed in this section

---

\* Department of Applied Analytical Chemistry, Faculty of Engineering, Kyushu University, Hakozaki, Higashi-ku, Fukuoka, 812, JAPAN

\*\* Department of Industrial Chemistry, Faculty of Engineering, Kyushu Sangyo University, Matsugadai, Higashi-ku, Fukuoka, 813, JAPAN

771. FIA Bibliography (VII)  
T. Imato and H. Ohura, J. Flow Injection Anal., 4 (1), 40 (1987)
772. Automated determination of the total polyphenol index in white wines by flow injection  
J. Buitrago, R. Cela and J. A. Perez-Bustamante, Afinidad, 43, 530 (1986) (in Spanish)
773. Microsequence analysis of peptides and proteins. VI. A continuous flow reactor for sample concentration and sequence analysis  
J. E. Shively, P. Miller and M. Ronk, Anal. Biochem., 163, 517 (1987)
774. A flow microcalorimetric method for enzyme activity measurements: application to dihydrofolate reductase  
L. Sica, R. Gilli, C. Briand and J. C. Sari, Anal. Biochem., 165, 341 (1987)
775. Determination of picomolar levels of cobalt in seawater by flow injection analysis with chemiluminescence detection  
C. M. Sakamoto-Arnold and K. S. Johnson, Anal. Chem., 59, 1789 (1987)

776. Individual and simultaneous determination of ethanol and acetaldehyde in wines by flow injection analysis and immobilized enzymes  
F. Lazaro, M. D. Luque de Castro and M. Valcarcel, *Anal. Chem.*, 59, 1859 (1987)
777. Fast particle separation by flow/steric field-flow fractionation  
J. C. Giddings, X. Chen, Ka-Gus. Wahlund and M. N. Myers, *Anal. Chem.*, 59, 1957 (1987)
778. Alternate washing method for flow-through determination of ammonium ion using an ammonia gas electrode  
H. Hara and A. Motoike, *Anal. Chem.*, 59, 1995 (1987)
779. Immobilized enzyme kinetic study of D-glucose mutarotation by flow injection analysis  
C. L. M. Stults, A. P. Wade and S. R. Crouch, *Anal. Chem.*, 59, 2245 (1987)
780. Dual porous electrode membrane cell for detection of nonelectroactive species in flowing streams  
A. Trojanek and S. Bruckenstein, *Anal. Chem.*, 59, 2260 (1987)
781. Continuous monitoring of ambient ammonia with a membrane electrode-based detector  
D. M. Pranitis and M. E. Meyerhoff, *Anal. Chem.*, 59, 2345 (1987)
782. Membrane gas-liquid separator for flow injection hydride-generation atomic absorption spectrometry  
M. Yamamoto, K. Takada, T. Kumamaru, M. Yasuda and S. Yokoyama, *Anal. Chem.*, 59, 2446 (1987)
783. Reversibly immobilized glucose oxidase in the amperometric flow-injection determination of glucose  
W. U. De Alwis, B. S. Hill, B. I. Meiklejohn and G. S. Wilson, *Anal. Chem.* 59, 2688 (1978)
784. Sequential determination of both acids and bases by optosensing flow injection analysis using a single-line manifold  
B. A. Woods, J. Ruzicka and G. D. Christian, *Anal. Chem.* 59, 2767 (1987)
785. Flow injection analysis for electrochemical stripping. Comparison of different techniques  
W. Frenzel, G. Welter and P. Braetter, *Anal. Chem. Symp. Ser.*, 25, 77 (1986)
786. Flow injection amperometric determination of clotiazepam at

- a glassy carbon electrode  
R. M. Alonso, R. M. Jimenez, M. A. Fernandez-Arciniega and L. Hernaez, *Anal. Chem. Symp. Ser.*, 25, 397 (1986)
787. Computer-assisted optimization of an immobilized-enzyme flow-injection system for the determination of glucose  
C. L. M. Stults, A. P. Wade and S. R. Crouch, *Anal. Chim. Acta*, 192, 155 (1987)
788. Pulsed coulometric detection of carbohydrates at a constant detection potential at gold electrodes in alkaline media  
G. G. Neuburger and D. C. Johnson, *Anal. Chim. Acta*, 192, 205 (1987)
789. Design and evaluation of a sandwich phase separator for on-line liqui-liquid extraction  
C. De Ruiter, J. H. Wolf, U. A. T. Brinkman and R. W. Frei, *Anal. Chim. Acta*, 192, 267 (1987)
790. Experimental studies of the effect of temperature on dispersion in a flow injection system  
C. L. M. Stults, A. P. Wade and S. R. Crouch, *Anal. Chim. Acta*, 192, 301 (1987)
791. Simultaneous determination of multiple components in flow-injection systems by square-wave amperometry  
T. P. Tougas and C. Y. Yuan, *Anal. Chim. Acta*, 192, 327 (1987)
792. Indirect determination of iron in a flow-injection system with amperometric detection  
L. Silvar, L. E. Leon and A. Calvo, *Anal. Chim. Acta*, 192, 349 (1987)
793. Flow-injection determination of ammonia in Kjeldahl digests by gas diffusion and conductometry  
C. Pasquini and L. Cardoso de Faria, *Anal. Chim. Acta*, 193, 19 (1987)
794. Carbon fiber electrodes in flow potentiometric stripping analysis  
H. Huiliang, C. Hua, D. Jagner and L. Renman, *Anal. Chim. Acta*, 193, 61 (1987)
795. Automated determination of cadmium and lead in whole blood by computerized flow potentiometric stripping with carbon fiber electrodes  
L. Almestrand, D. Jagner and L. Renman, *Anal. Chim. Acta*, 193, 71 (1987)
796. Formation of two reaction zones in flow-injection systems for kinetic determinations of cobalt and nickel

- A. Fernandez, M. D. Luque de Castro and M. Valcarcel, *Anal. Chim. Acta*, 193, 107 (1987)
797. Indirect atomic absorption spectrometric determination of mixtures of chloride and iodide by precipitation in an unsegmented flow system  
P. Martinez-Jimenez, M. Gallego and M. Valcarcel, *Anal. Chim. Acta*, 193, 127 (1987)
798. Recording the real sample distribution and concentration/ time functions in flow injection analysis  
E. A. G. Zagatto, O. Bahia and H. Bergamin, *Anal. Chim. Acta*, 193, 309 (1987)
799. Cyclic flow-injection determination of copper with hexadecyltrimethylammonium bromide micelle-enhanced, fluorescein-sensitized chemiluminescence detection  
M. Yamada and S. Suzuki, *Anal. Chim. Acta*, 193, 337 (1987)
800. Fluorimetric determination of nitrate in natural waters with 3-amino-1,5-naphthalenedisulphonic acid in a flow-injection system  
S. Motomizu, H. Mikasa and K. Toei, *Anal. Chim. Acta*, 193, 343 (1987)
801. A random-walk simulation of flow-injection systems with merging zones  
C. D. Crowe, H. W. Levin, D. Betteridge and A. P. Wade, *Anal. Chim. Acta*, 194, 49 (1987)
802. Numerical solution of hydraulic models based on the axially-dispersed plug flow model by laplace transforms  
S. D. Kolev and E. Pungor, *Anal. CHim. Acta*, 194, 61 (1987)
803. Flow-injection determination of nitrite and nitrate with biamperometric detection at two platinum wire electrodes  
A. Hulanicki, W. Matuszewski and M. Trojanowicz, *Anal. Chim. Acta*, 194, 119 (1987)
805. Amperometric detection of cationic neurotransmitters at nafion-coated glassy carbon electrodes in flow streams  
J. Wang, P. Tuzhi and T. Golden, *Anal. Chim. Acta*, 194, 129 (1987)
806. Application of ion-selective electrodes in environmental analysis. Determination of acid and fluoride concentrations in rain-water with a flow-injection system  
J. Fucsko, K. Toth, E. Pungor, J. Kunovits and H. Puxbaum, *Anal. Chim. Acta*, 194, 163 (1987)
807. The determination of arsenic and selenium in coal by continuous flow hydride-generation atomic absorption

- spectrometry and atomic fluorescence spectrometry  
L. Ebdon and J. R. Wilkinson, *Anal. Chim. Acta*, 194, 177 (1987)
808. Extraction rate in liquid-liquid segmented flow injection analysis  
L. Nord, K. Backstrom, L. G. Danielsson, F. Ingman and B. Karlberg, *Anal. Chim. Acta*, 194, 221 (1987)
809. Flow-injection single-point titration of acids with biamperometric detection at polarized platinum electrodes  
W. Matuszewski, A. Hulanicki and M. Trojanowicz, *Anal. Chim. Acta*, 194, 269 (1987)
810. Chemiluminescence determination of iron(II) and titanium(III) by flow injection analysis based on reactions with and without luminol  
A. A. Alwarthan and A. Townshend, *Anal. Chim. Acta*, 196, 135 (1987)
811. A flow cell with flexible deposition efficiency for a dual-detection system based on potentiometric stripping analysis and atomic absorption spectrometry  
G. Schulze, M. Koschany and O. Elsholz, *Anal. Chim. Acta*, 196, 153 (1987)
812. Flow injection method for the determination of trace amounts of chloride by using differences in electric conductivity  
G. Lach and K. Baechmann, *Anal. Chim. Acta*, 196, 163 (1987) (in German)
813. The application of the Ruzicka-type iodide-selective electrode the determination of cyanide in alcoholic drinks  
M. V. Budimir, M. Sak-Bosnar and M. S. Jovanovic, *Anal. Chim. Acta*, 196, 293 (1987)
814. Use of acetohydroxamic acid in the direct spectrophotometric determination of iron(III) and iron(II) by flow injection analysis  
A. T. Senior and J. D. Glennon, *Anal. Chim. Acta*, 196, 333 (1987)
815. Assay for guanase in blood serum by flow injection analysis with fluorescence detection  
Y. Hayashi, K. Zaitzu and Y. Ohkura, *Anal. Chim. Acta*, 197, 51 (1987)
816. Flow-injection analysis with a coated tubular solid-state copper(II)-selective electrode  
J. F. van Staden and C. C. P. Wagener, *Anal. Chim. Acta*, 197, 217 (1987)

817. Swept-potential oxidative detection in flow streams  
D. S. Owens, C. M. Jonson, P. E. Sturrock and A. Jaramillo,  
*Anal. Chim. Acta*, 197, 249 (1987)
818. Determination of selenium by means of computerized flow  
constant-current stripping at carbon fiber electrodes.  
Application to human whole blood and milk powder  
C. Hua, D. Jagner and L. Renman, *Anal. Chim. Acta*, 197,  
257 (1987)
819. Determination of uranium(VI) in seawater by means of  
automated flow constant-current cathodic stripping at carbon  
fiber electrodes  
C. Hua, D. Jagner and L. Renman, *Anal. Chim. Acta*, 197, 265  
(1987)
820. Flow-injection determination of phosphate species in  
detergents with a calcium ion-selective electrodes  
P. W. Alexander and J. Koopetngarm, *Anal. Chim. Acta*, 197,  
353 (1987)
821. Temperature effects on amperometric detection at nickel  
oxide electrodes in flow-injection systems  
B. S. Hui and C. O. Huber, *Anal. Chim. Acta*, 197, 361  
(1987)
822. Spectrophotometric determination of total cyanide in waste  
in a flow-injection system with gas-diffusion separation and  
preconcentration  
Z. Zhu and Z. Fang, *Anal. Chim. Acta*, 198, 25 (1987)
823. Determination of acetaldehyde by flow injection analysis  
with soluble or immobilized aldehyde dehydrogenase  
A. M. Alumaibed and A. Townshend, *Anal. Chim. Acta*, 198, 37  
(1987)
824. Flow-injection amplification for the spectrophotometric  
determination of iodide  
A. Al-Wehaid and A. Townshend, *Anal. Chim. Acta*, 198, 45  
(1987)
825. Confluent streams in flow injection analysis  
E. A. G. Zagatto, B. F. Reis, M. Martinelli, F. J. Krug,  
H. Bergamin F and M. F. Gine, *Anal. Chim. Acta*, 198, 153  
(1987)
826. Comparison of immobilized enzyme reactors for flow-injection  
systems  
R. Q. Thompson, H. Kim and C. E. Miller, *Anal. Chim. Acta*,  
198, 165 (1987)
827. Reductive stripping chronopotentiometry for selenium in

- biological materials with a flow system  
H. Eskilsson and C. Haraldsson, *Anal. Chim. Acta*, 198, 231 (1987)
828. Detection of oxidase generated hydrogen peroxide by a solid state peroxialaxalate chemiluminescence detector  
P. Van Zoonen, I. De Herder, C. Gooijer, N. H. Velthorst, W. Frei, E. Kuentzberg and G. Guebitz, *Anal. Lett.*, 19, 1949 (1986)
829. An amperometric glucose electrode based on adsorbed glucose oxidase on palladium/gold modified graphite  
G. Joensson and L. Gorton, *Anal. Lett.*, 20, 839 (1987)
830. Quantitation of toremifene and its major metabolites in human plasma by high-performance liquid chromatography following fluorescent activation  
W. M. Holleran, S. A. Gharbo and M. W. DeGregorio, *Anal. Lett.*, 20, 871 (1987)
831. Determination of mercury in geological materials by continuous-flow, cold-vapor, atomic absorption spectrophotometry  
K. R. Kennedy and J. G. Crock, *Anal. Lett.*, 20, 899 (1987)
832. Continuous flow determination of blood alcohol using biamperometric monitoring of enzymatic reaction  
A. S. Attiyat and G. D. Christian, *Anal. Lett.*, 20, 1099 (1987)
833. Simultaneous optimization of variables in FIA systems by means of the simplex method  
J. Alonso, J. Bartroli, J. Coello and M. del Valle, *Anal. Lett.*, 20, 1247 (1987)
834. Bioluminescent flow sensors: L-alanine determination in serum and urine  
S. Girotti, A. Roda, S. Piazzzi, G. Carrea, A. L. Piacentini, M. A. Angellotti, R. Bovara and S. Ghini, *Anal. Lett.*, 20, 1315 (1987)
835. Indirect assays with immobilized firefly luciferase based on flow injection analysis  
A. Nabi and P. J. Worsfold, *Anal. Proc. (London)*, 23, 415 (1986)
836. Analytical applications of microemulsions  
M. H. Memon and P. J. Worsfold, *Anal. Proc. (London)*, 23, 418 (1986)
837. Enzyme electrode systems for glucose determination  
G. J. Moody, G. S. Sanghera and J. D. R. Thomas, *Anal. Proc.*

- (London), 23, 446 (1986)
838. Spectrophotometric flow injection analysis of silicates for manganese  
K. Oguma, K. Nishiyama and R. Kuroda, *Anal. Sci.*, 3, 251 (1987)
839. Spectrophotometric determination of anionic surfactants in river water with cationic azo dye by solvent extraction-flow injection analysis  
S. Motomizu, Y. Hazaki, M. Oshima and K. Toei, *Anal. Sci.*, 3, 265 (1987)
840. "One-shot" flow injection analysis with immobilized enzyme columns: clinical applications  
M. Ohyabu, M. Fujimura, K. Tanimizu, Y. Okuno, M. Tabata, M. Totani and T. Murachi, *Anal. Sci.*, 3, 277 (1987)
841. Micro-injection system for flame atomic absorption spectrometry using carrier solution  
T. Maeda, Y. Tanimoto and N. Okazaki, *Anal. sci.*, 3, 291 (1987)
842. Micropreparative sedimentation field-flow fractionation and quasi-elastic light scattering spectrometry of narrow particle size distribution polystyrene latexes  
J. Janca, D. Pribylova, C. Konak and B. Sedlacek, *Anal. Sci.*, 3, 297 (1987)
843. Indirect amperometric detection of aliphatic amine in flow system  
C. Ueda, K. Taniuchi, H. Ohmori and M. Masui, *Anal. Sci.*, 3, 377 (1987)
844. Flow injection analysis of feed and premix for monensin and salinomycin  
Y. Suzuki, N. Arai and M. Okamoto, *Anal. Sci.*, 3, 441 (1987)
845. Potentiometric flow injection analysis of glucose using hexacyanoferrate(III)-hexacyanoferrate(II) potential buffer  
H. Ohura, T. Imato, S. Yamasaki and N. Ishibashi, *Anal. Sci.*, 3, 453 (1987)
846. Data processing for flow injection analysis using personal computer of MSX standard system  
D. Yoshizawa, M. Tomoda, K. Uchida, K. Fukushima and S. Saitoh, *Anal. Sci.*, 3, 467 (1987)
847. Spectrophotometric determination of magnesium (II) by flow-injection analysis using succinimide dioxime



- R. Forteza, V. Cerda, S. MasPOCH and M. Blanco, *Analisis*, 15, 136 (1987)
848. Simultaneous determination of ascorbic acid and sulfite in soft drinks by flow injection analysis  
F. Lazaro, de C. M. D. Luque and M. Valcarcel, *Analisis*, 15, 183 (1987)
849. Spectrophotometric determination of phosphorus as orthophosphate based on solvent extraction of the ion associate of molybdophosphate with Malachite Green using flow injection  
S. Motomizu and M. Oshima, *Analyst (London)*, 112, 295 (1987)
850. Models for dispersion in flow injection analysis. Part 1. Basic requirements and study of factors affecting dispersion  
D. C. Stone and J. F. Tyson, *Analyst (London)*, 112, 515 (1987)
851. Analytical information from doublet peaks in flow injection analysis. Part 2 Basic equation and applications to flow injection titrations  
J. F. Tyson, *Analyst (London)*, 112, 523 (1987)
852. Flow injection procedures for the determination of ethanol and alcohol dehydrogenase using coimmobilized bacterial luciferase and oxidoreductase  
A. Nabi and P. J. Worsfold, *Analyst (London)*, 112, 531 (1987)
853. Flow injection determination of inorganic bromide in soils with a coated tubular solid-state bromide-selective electrode  
J. F. van Staden, *Analyst (London)*, 112, 595 (1987)
854. Application of a photodiode array detector to multi-component determination by flow injection analysis  
M. Blanco, J. Gene, H. Iturriaga and S. MasPOCH, *Analyst (London)*, 112, 619 (1987)
855. Determination of nitrazepam and flunitrazepam by flow injection analysis using a voltammetric detector  
E. Ruiz, M. H. Blanco, E. L. Abad and L. Hernandez, *Analyst (London)*, 112, 697 (1987)
856. Flow injection system for kinetic determinations based on the use of two serial injection valves  
A. Fernandez, M. D. L. de Castro and M. Valcarcel, *Analyst (London)*, 112, 803 (1987)
857. Automation of a stopped-flow spectrophotometer for the determination of reaction-rate parameters. Part 1.

- N. C. Peterson, P. A. Siskos and M. I. Karayannis, *Analyst* (London), 112, 821 (1987)
858. Effect of hydroxylamine on chemiluminescence intensity generated during the oxidation of pyrogallol with periodate  
N. P. Evmiridis, *Analyst* (London), 112, 825 (1987)
859. Flow injection chemiluminescence determination of sulphite  
S. A. Al-Tamrah, A. Townshend and A. R. Wheatley, *Analyst* (London), 112, 883 (1987)
860. Determination of sulphite and hydrogen peroxide in pharmaceutical matrices via classical spectrophotometry and flow injection  
D. S. Brown and D. R. Jenke, *Analyst* (London), 112, 899 (1987)
861. Flow method for the titration of weak acids or weak bases using linear titration plots  
J. M. Calatayud, P. C. Falco and R. M. Albert, *Analyst* (London), 112, 1063 (1987)
862. Use of a stirred chamber to increase the efficiency of solid-liquid reactions in flow injection analysis. Part 1. Determination of sulphate using barium chloranilate  
J. Toei, *Analyst* (London), 112, 1067 (1987)
863. Oxidative amperometric flow injection determination of cyanide at an electrochemically pre-treated glassy carbon electrode  
A. G. Fogg and R. M. Alonso, *Analyst* (London), 112, 1071 (1987)
864. Spectrophotometric determination of iron in boiler and well waters by flow injection analysis using 2-nitroso-5-(N-propyl-N-sulphopropylamino)phenol  
N. Ohno and T. Sakai, *Analyst* (London), 112, 1127 (1987)
865. Pre-concentration and determination of trace amounts of lead in water by continuous precipitation in an unsegmented-flow atomic absorption spectrometric system  
P. M-Jimenez, M. Gallego and M. Valcarcel, *Analyst* (London), 112, 1233 (1987)
866. Spectrophotometric determination of trace amounts of nitrite based on the nitrosation reaction with N,N-Bis(2-hydroxypropyl) aniline and its application to flow injection analysis  
S. Motomizu, S. C. Rui and M. Oshima and K. Toei, *Analyst* (London), 112, 1261 (1987)
867. Flow-through units for solid-state, liquid and PVC matrix membrane ion-selective electrodes to minimise streaming

potentials

T. K. Christopoulos and E. P. Diamndis, *Analyst (London)*, 112, 1293 (1987)

868. Determination of glucose using flow injection with a carbon fiber based enzyme reactor  
K. P. Ang, H. Gunasingham, B. T. Tay, P. Y. T. Teo, P. C. Thiak, B. Kuah and K. L. Tan, *Analyst (London)*, 112, 1433 (1987)
869. Determination of aluminum in serum by a flow injection system with preconcentration on Dowex A-1 resin and flame atomic absorption spectrophotometry  
P. Hernandez, J. Rodriguez, M. T. Sevilla and L. Hernandez, *An. Quim., Ser. B* 83, 95 (1987) Spanish
870. Quantitation of metals in liquid samples by computer intelligent flow injection inductively coupled plasma emission spectrometry  
J. M. Martin, P. J. Ihrig, *Appl. Spectrosc.*, 41, 986 (1987)
871. Flow injection analysis of pharmaceutical compounds. III. Quantification of furosemide with spectrophotometric detection  
A. S. K. Ahmad, E. M. Abdel-Moety, A. A. Moustafa and A. E. Gendy, *Arch. Pharm. Chemi, Sci. Ed.*, 14, 11 (1986)
872. Determination of manganese by malachite green-periodate catalytic reaction with concentrated reagents and its application to flow-injection analysis  
S. Kawakubo, T. Fukasawa, M. Iwatsuki and T. Fukasawa, *Asahi Garasu Kogyo Gijutsu Shoreikai Kebkyu Houkoku*, 49, 147 (1986) Japanese
873. Use of a bioreactor consisting of sequentially aligned L-glutamate dehydrogenase and L-glutamate oxidase for the determination of ammonia by chemiluminescence  
T. Murachi, and M. Tabata, *Biotechnol. Appl. Biochem.*, 9, 303 (1987)
874. Application of flow injection analysis to water quality monitoring system  
Y. Kondo, H. Shimomura and M. Katoh, *Boshoku Gijutsu*, 36, 234 (1987)
875. Application of FIA (flow injection analysis) method to water quality analysis  
T. Korenaga, *Bunseki*, (4), 245 (1987) (in Japanese)
876. Flow injection analysis coupled with solvent extraction  
T. Sakai, *Bunseki*, (4), 260 (1987) (in Japanese)

877. Cyclic FIA for determination of free cyanide  
M. Ishi, M. Yamada and S. Suzuki, *Bunseki Kagaku*, 36, 316  
(1987) (in Japanese)
878. Determination of ammoniacal nitrogen in water by FIA with a  
gas-diffusion unit  
T. Kuwaki, M. Akiba, M. Oshima and S. Motomizu, *Bunseki  
Kagaku*, 36, T81 (1987) (in Japanese)
879. Determination of iron in nickel-iron alloy thin films by FIA  
F. Shirato, Y. Okajima, T. Kuroishi and Y. Takata, *Bunseki  
Kagaku*, 36, 515 (1987) (in Japanese)
880. Spectrophotometric determination of hydrogen peroxide by FIA  
with Bindschedler's green leuco base as color reagent  
M. Akiba, S. Motomizu and K. Toei, *Bunseki Kagaku*, 36, 561  
(1987) (in Japanese)
881. Simple and rapid determination of L-ascorbic acid by FIA  
with spectrophotometric detection  
T. Yamane and T. Ogawa, *Bunseki Kagaku*, 36, 625 (1987)  
(in Japanese)
882. On-line concentration and flow analysis of trace amounts of  
bismuth with anion-exchange method and ion-exchanger  
absorptiometry  
K. Yoshimura, *Bunseki Kagaku*, 36, 656 (1987) (in Japanese)
883. Inductively coupled plasma atomic emission spectrometric  
determination of copper by suction-flow on-line liquid-  
liquid extraction of its macrocyclic dioxotetramine chelate  
T. Kumamaru, Y. Nitta, H. Matsuo and E. Kimura, *Bull. Chem.  
Soc. Jpn.*, 60, 1930 (1987)
884. Application of the flow injection analysis based on  
iodometry to the determination of ozone decomposition rate  
Y. Onari, *Bull. Chem. Soc. Jpn.*, 60, 3074 (1987)
885. Factors influencing the flow injection analysis  
T. C. Hung, A. Chuang and Pei-Jie Meng, *Bull. Inst. Chem.,  
Acad. Sin.*, 34, 1 (1987)
886. Quinone determination in some mass-produced pharmaceuticals  
by flow injection analysis (FIA) with fluorimetric detection  
M. Polasek, R. Karlicek and P. Solich, *Cesk. Farm.*, 36, 201  
(1987) (in Czech)
887. Simultaneous determination of phosphate, silicate, and  
arsenate by on-line column flow injection analysis  
Y. Narusawa and T. Hashimoto, *Chem. Lett.*, 1367 (1987)
888. Dispersion in flow-injection analysis  
S. Melnik and J. Fejes, *Chem. Listy*, 81, 243 (1987) Slovak

889. Flow injection analysis of silicic acid in geothermal water  
T. Yokoyama and T. Tarutani, *Chinetsu*, 22, 9 (1985) (in Japanese)
890. Determination of total cholesterol in serum by flow injection analysis with immobilized enzymes  
J. M. Fernandez-Romero, de C. M. D. Luque de Castro and M. Valcarcel, *Clin. Chim. Acta*, 167, 97 (1987)
891. Fast fluorometric flow injection analysis of formaldehyde in atmospheric water  
S. Dong and P. K. Dasgupta, *Environ. Sci. Technol.*, 21, 581 (1987)
892. Determination of trace amounts of selenium in environmental samples by hydride generation atomic absorption spectrometry combined with flow injection analysis  
X. Wang and Z. Fang, *Fenxi Huaxue*, 14, 738 (1986) (in Chinese)
893. Determination of chromium(VI) in industrial wastewater by flow injection analysis  
Z. Yu and X. Li, *Fenxi Huaxue*, 14, 867 (1986) (in Chinese)
894. Microcomputer-controlled flow injection analysis system and turbidimetric determination of sulfate in natural waters  
B. Xia, Buyun and L. Zhang, *Fenxi Huaxue*, 15, 465 (1987) (in Chinese)
895. Rapid on-line enrichment for AAS (atomic absorption spectrometry)  
G. Schulze and O. Elsholz, *Fortschr. Atomspektrom. Spurenanal.*, 2, 261 (1986) (in German)
896. On-line sulphate monitoring by reversed flow injection analysis and alternating reagent injection  
J. F. van Staden, *Fresenius' Z. Anal. Chem.*, 326, 754 (1987)
897. Tensammetry with the bubble-electrode in a flow-through system  
F. Scholz, M. Kupfer, J. Seelisch, G. Glowacz and G. Henrion, *Fresenius' Z. Anal. Chem.*, 326, 774 (1987)
898. Universal flow-cell for electroanalytical measurements  
W. Frenzel and P. Bratter, *Fresenius' Z. Anal. Chem.*, 327, 10 (1987)
899. Digestion-free determination of trace metals(Zn, Cd, Pb, Cu) in beverages(wine) by inverse voltammetry in flow-through cells (in German)  
F. Wahdat and R. Neeb, *Fresenius' Z. Anal. Chem.*, 327, 175

- (1987)
900. Voltammetric-enzymatic determination of ethanol in whole blood by flow injection analysis  
A. Fernandez, M. D. Luque de Castro and M. Valcarcel, Fresenius' Z. Anal. Chem., 327, 552 (1987)
  901. Effect of addition of main ion to carrier solution in potentiometric flow-injection measurements with solid state ion-selective electrodes  
L. Ilcheva, M. Trojanowicz and T. Kra. vel krawczyk, Fresenius' Z. Anal. Chem., 328, 27 (1987)
  902. On-line quality control in concentrated hydrochloric acid production plants. Flow injection determination of HCl content in concentrated hydrochloric acid by automated pre-valve dilution and a coated tubular solid-state chloride-selective electrode  
J. F. van Staden, Fresenius' Z. Anal. Chem., 328, 68 (1987)
  903. A modular fluorimetric stopped-flow system for use in clinical chemistry  
M. C. Gutierrez, A. Gomez-Hens and D. Perez-Bendito, Fresenius' Z. Anal. Chem., 328, 120 (1987)
  904. Flow injection potentiometry for low level measurements in the presence of sensed ion in the carrier  
M. Trojanowicz and W. Frenzel, Fresenius' Z. Anal. Chem., 328, 653 (1987)
  905. Cold vapor atomic absorption determination of mercury in soil and plants using flow injection gas diffusion system  
S. Zhang, Z. Fang and J. Sun, Guangpuxue Yu Guangpu Fenxi, 7, 57 (1987) Chinese
  906. A flow injection analysis of iron in marine sediments  
Y. Yuan, Haiyang Yu Huzhao, 18, 156 (1987) Chinese
  907. Separation of heavy metals in polluted soils by sequential extraction and ICP spectrometry  
P. O. Scokart, K. Meeus-Verdinne, R. De Borger, Int. J. Environ. Anal. Chem., 29, 305 (1987)
  908. Flow injection analysis of silicate rocks. Part (1). FIA-AAS determination of calcium in diatomite  
Q. Wei, Y. Guo, M. Liu and Y. Ben, Jilin Daxue Ziran Kexue Xuebao, (4), 93 (1986) (in Chinese)
  909. Automated free fatty acid determination using flow injection analysis solvent extractions  
J. S. Canham and G. E. Pacey, J. Am. Oil Chem. Soc., 64, 1004 (1987)

910. Indirect atomic absorption determination of chloride by continuous precipitation of silver chloride in a flow injection system  
P. M. Jimenez, M. Gallego and M. Valcarcel, *J. Anal. At. Spectrom.*, 2, 211 (1987)
911. Flow injection techniques in inductively coupled plasma spectrometry. Plenary lecture  
C. W. McLeod, *J. Anal. At. Spectrom.*, 2, 549 (1987)
912. Tra enrichment and determination of sulfate by flow injection inductively coupled plasma atomic emission spectrometry  
A. G. Cox, C. W. McLeod, D. L Miles and J. M. Cook, *J. Anal. At. Spectrom.*, 2, 553 (1987)
913. Flow injection ion-exchange preconcentration for the determination of aluminum by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry  
G. M. R. Pereiro, G. M. E. Diaz, M. A. Sanz, *J. Anal. At. Spectrom.*, 2, 699 (1987)
914. Kinetic-based determinations in continuous-flow analysis  
M. D. Luque de Castro, M. Valcarcel, *J. Autom. Chem.*, 8, 186 (1986)
915. Amperometric determination of nitrogen dioxide in air samples by flow injection and reaction at a gas-liquid interface  
F. W. Nyasulu and H. A. Mottola, *J. Autom. Chem.*, 9, 46 (1987)
916. A kinetic method for the spectrophotometric determination of cobalt using flow injection analysis  
A. Nabi and P. J. Worsfold, *J. Chem. Soc. Pak.*, 8, 487 (1986)
917. Catalytic photometric determination of selenium by flow injection analysis  
J. M. Hwang, T. S. Wei and Y. M. Chen, *J. Chin. Chem. Soc. (Taipei)*, 33, 109 (1986).
918. Continuous separation techniques in flow injection analysis. A review  
M. Valcarcel and de C. M. D. Luque, *J. Chromatogr.*, 393, 3 (1987)
919. Voltammetric determination of Cyadox using adsorptive accumulation in a flow-through system  
M. Kopanica and V. Stara, *J. Electroanal. Chem. Interfacial Electrochem.*, 214, 115 (1986)

920. Determination of glucose by flow injection analysis with merging zone method  
M. Tomoda, D. Yoshizawa, K. Uchida, K. Fukushima and S. Saitoh, *J. Flow injection Anal.*, 4, 4 (1987) (in Japanese)
921. Flow injection analysis of ultra-trace sulfide in water by membrane separation-chemiluminescence detection  
T. Aoki, T. Nosaka and M. Munemori, *J. Flow injection Anal.*, 4, 15 (1987) (in Japanese)
922. Separation and simultaneous determination of phosphate, arsenate and silicate with on-line column flow injection analysis  
Y. Narusawa and T. Hashimoto, *J. Flow injection Anal.*, 4, 20 (1987) (in Japanese)
923. Study of sample solvent/carrier combination for flow injection analysis-atomic absorption spectrometry  
A. S. Attiyat, *J. Flow injection Anal.*, 4, 26 (1987)
924. Automated flow-injection mercurothiocyanate determination of chloride salts of drugs for routine assays: content uniformity and dissolution studies  
M. A. Koupparis and E. G. Sarantonis, *J. Pharm. Sci.*, 75, 800 (1986)
925. Construction of simple ion-chromatographic apparatus and its application in model experiment of ion chromatography and flow injection-analysis  
M. Kanke, T. Kumagai, T. Takeda and K. Kawabuchi, *Kagaku Kyoiku*, 34, 328 (1986) (in Japanese)
926. Flow injection analysis of cyanide in waste water with gas diffusion separation  
Z. Zhu and Z. Fang, *Kexue Tongbao (Foreign Lang. Ed.)*, 31, 1728 (1986)
927. Routine analysis of acetone in milk by flow injection analysis  
L. Diekmann, K. Pabst and H. O. Gravert, *Kiel. Milchwirtsch. Forschungsber.*, 38, 205 (1986) German
928. Differential kinetic determination of furfural and vanillin by flow injection analysis  
P. Linares, M. D. Luque de Castro and M. Valcarcel, *Microchem. J.*, 35, 120 (1987)
929. Individual and simultaneous fluorometric determination of glycine and cysteine by flow injection analysis  
B. Bermudez, F. Lazaro, de C. M. D. Luque and M. Valcarcel, *Microchem. J.*, 35, 315 (1987)



930. Fundamentals and application of flow injection analysis.  
 II. Application of the method  
 M. Koshino, Nippon Dojo Hiriyogaku Zasshi, 58, 247 (1987)  
 (in Japanese)
931. Advances in analytical methods based on atomic absorption spectrometry in the Geochemistry Laboratories of the Geological Survey of Canada  
 G. E. M. Hall, K. N. De Silva, J. C. Pelchat and J. E. Vaive, Pap. - Geol. Surv. Can., 87-1A, 477 (1987)
932. Immunoassay by HPLC and flow injection analysis with electrochemical detection  
 C. E. Lunte, W. R. Heineman, H. B. Halsall, K. R. Wehmeyer, M. J. Doy and D. S. Wright, Proc. - Electrochem. Soc., 86-14, 129 (1986)
933. Flow injection analysis: an investigation of N-phenylbenzohydroxamic acid  
 L. A. Blyshak and A. J. C. L. Hogarth, Proc. Indian Acad. Sci., 95, 151 (1986)
934. A constant-flow gravity liquid-feed system for use in flow injection analysis  
 J. C. De Andrade, M. Ferreira and N. Baccan, Quim. Nova, 9, 123 (1986) (in Portuguese)
935. Application of flow injection analysis  
 H. Shimizu, Ryusan to Kogyo, 39, 123 (1986) (in Japanese)
936. Comparison of four wet digestion procedures for the determination of selenium in eggs by hydride generation-flow injection atomic absorption spectrometry  
 J. Sun, Shipin Yu Fajiao Gongye, (4), 7 (1987) (in Chinese)
937. Flow injection analysis: a novel tool for plasma spectroscopy  
 G. D. Christian and J. Ruzicka, Spectrochim. Acta, Part B, 42B, 57 (1987)
938. Use of a robot and flow injection for automated sample preparation and analysis of used oils by ICP emission spectrometry  
 M. P. Granchi, J. A. Biggerstaff, L. J. Hilliard and P. Grey, Spectrochim. Acta, Part B, 42B, 169 (1987)
939. Characterization of a nebulizer interface for flame atomic absorption spectroscopy  
 A. Gustavsson and O. Anders, Spectrochim. Acta, Part B, 42B, 883, (1987).
940. Application of flow-injection analysis for the determination

- of chloride extracted from corroded iron artifacts  
W. Weker and M. Trojanowicz, *Stud. Conserv.*, 32, 86 (1987)
941. Silicone rubber wall-jet electrode in hydrodynamic voltammetry. (Comparison of various carbon electrodes)  
Zs. Niegreisz, G. Horvai, K. Toth and E. Pungor, *Symp. Biol. Hung.*, 31, 83 (1986)
942. Automated determination of lead in urine by means of computerized flow potentiometric stripping analysis with a carbon-fiber electrode  
H. Huiliang, D. Janger and L. Renman, *Talanta*, 34, 539 (1987)
943. Determination of calcium and magnesium in limestone and dolomite by enthalpimetric flow-injection analysis  
W. A. de Oliveira and A. S. Mendes, *Talanta*, 34, 543 (1987)
944. Spectrophotometric determination of bromide (and iodide) in a flow system after oxidation by peroxodisulphate  
A. Carlsson, U. Lundstrom and A. Olin, *Talanta*, 34, 615 (1987)
945. Quantitative analysis by surface-enhanced Raman spectrometry on silver hydrosols in a flow-injection system  
J. J. Laserna, A. Berthod and J. D. Winefordner, *Talanta*, 34, 745 (1987)
946. Studies of two-phase equilibria by liquid-liquid segmented flow extraction of dithiocarbamic acid into various solvents  
K. Backstrom, L.-G. Danielsson, F. Ingman and Z. Huazhang, *Talanta*, 34, 783 (1987)
947. Determination of viscosity with an open-closed flow-injection system  
A. Rios, M. D. Luc. De Castro and M. Valcarcel, *Talanta*, 34, 915 (1987)
948. Continuous flow determination of chloride in the non-linear response region with a tubular chloride ion-selective electrode  
H. Hara, Y. Wakizaka and S. Okazaki, *Talanta*, 34, 921 (1987)
949. Application of the removal of dissolved oxygen by silicone membrane to a flow amperometric detector  
M. Hara, N. Nomura, K. Yamaguchi and N. Matsubara, *Toyama Diagaku KyoikugakubuKiyo*, (34), 1 (1986) Japanese
950. Miniaturization in flow injection analysis. Practical limitations from a theoretical point of view  
W. E. Van der Linden, *Trends Anal. Chem. (Pers. Ed.)*, 6, 37 (1987)

951. Flow injection analysis: beyond the laboratory curiosity stage  
G. E. Pacey and S. P. Bubnis, Trends Anal. Chem. (Pers. Ed.), 6, 165 (1987)
952. Flame-atomic absorption spectrometry with flow injection sample introduction for heavy trace metal determination in biological materials  
K. H. Friese and H. Matschiner, Wiss. Z. - Martin-Luther-Univ. Halle-Wittenberg, 36, 3 (1987) (in German)