

FIA Bibliography(14)

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FIA-related papers and FIA monographs appeared since 1984 have been compiled in this FIA bibliography section. About 1,800 papers and six monographs were listed in the previous section(refs. 226-228, 342, 501, 598, 771, 953, 1100, 1248, 1445, 1594, and 1786). All papers in this section are numbered in series and shown with the titles in English. The readers are requested to send me the reprints of their FIA-related papers that have not yet been listed in this section.

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1786. FIA Bibliography(13)
Y. Baba, *J. Flow Injection Anal.*, **7**, 42(1990).
1787. *Flow Injection Analysis*(in Japanese)
R. Kuroda, K. Oguma and H. Nakamura, Kyoritsu, Tokyo, 1990.
1788. Flow injection analysis of serum urea using urease covalently immobilized on 2-fluoro-1-methylpyridinium salt-activated fractogel and fluorescence detection
D. Narinesingh, R. Mungal and T.T. Ngo, *Anal. Biochem.*, **188**, 325(1990).
1789. Fluorometric determination of urinary kynurenic acid by flow injection analysis equipped with a "bypass line"
K. Mawatari, F. Iinuma and M. Watanabe, *Anal. Biochem.*, **190**, 88(1990).
1790. Photoinitiation of peroxyoxalate chemiluminescence: Application to flow injection analysis of chemilumophores
R.E. Milofsky and J.W Birks, *Anal. Chem.*, **62**, 1050(1990).
1791. Solute focusing in flow injection analysis: Limits of detection and linear dynamic range
B.F. Johnson and J.G. Dorsey, *Anal. Chem.*, **62**, 1392(1990).
1792. Determination of gold at femtomolar levels in natural waters by flow injection inductively coupled plasma quadrupole mass spectrometry
K.K. Falkner and J.M. Edmond, *Anal. Chem.*, **62**, 1477(1990).
1793. Enhancement of flow injection optosensing by sorbent extraction and reaction rate measurement
N. Lacy, G.D. Christian and J. Ruzicka, *Anal. Chem.*, **62**, 1482(1990).

1794. On-line monitoring of bioreactions of *Bacillus polymyxa* and *Klebsiella oxytoca* by membrane introduction tandem mass spectrometry with flow injection analysis sampling
M.J. Hayward, T. Kotiaho, A.K. Lister, R.G. Cooks, G.D. Austin, R. Narayan and G.T. Tsao, *Anal. Chem.*, **62**, 1798(1990).
1795. Variable flow rates and a sinusoidal flow pump for flow injection analysis
J. Ruzicka, G.D. Marshall and G.D. Christian, *Anal. Chem.*, **62**, 1861(1990).
1796. Flow injection analysis and real-time detection of RNA bases by surface-enhanced raman spectroscopy
F. Ni, R. Sheng and T.M. Cotton, *Anal. Chem.*, **62**, 1958(1990).
1797. Selective determination of histamine by flow injection analysis
J.M. Hungerford, K.D. Walker, M.W. Wekell, J.E. LaRose and H.R. Throm, *Anal. Chem.*, **62**, 1971(1990).
1798. Design of coaxial segmentors for liquid-liquid extraction/flow injection analysis
V. Kuban, L.-G. Danielsson and F. Ingman, *Anal. Chem.*, **62**, 2026(1990).
1799. Minimal dispersion flow injection analysis systems for automated sample introduction
S.H. Brooks and G. Rullo, *Anal. Chem.*, **62**, 2059(1990).
1800. Photometric determination of acidity constants by the flow gradient technique without pH measurements
J. Marcos, A. Rios and M. Valcarcel, *Anal. Chem.*, **62**, 2237(1990).
1801. Flow-injection spectrophotometric determination of acetyl-coenzyme A with immobilized phosphotransacetylase
S. Yamato and K. Shimada, *Anal. Chim. Acta*, **232**, 281(1990).
1802. Separation of rhenium by extraction with crown ethers and flow-injection extraction-spectrophotometric determination with Brilliant Green
H. Koshima and H. Onishi, *Anal. Chim. Acta*, **232**, 287(1990).
1803. Flavin mononucleotide chemiluminescence in cationic micellar media for determination of chromium(III+VI) by flow injection
H. Ohshima, M. Yamada and S. Suzuki, *Anal. Chim. Acta*, **232**, 385(1990).
1804. Quantitative validation of a flow-injection determination of penicillin in pharmaceutical formulations by means of a validation program based on

- an expert system
R. Wolters, M.A.J. van Opstal and G. Kateman, **Anal. Chim. Acta**, 233, 65(1990).
1805. Enhancement of sensor selectivity by gas-diffusion separation.
Part 1. Flow-injection potentiometric determination of cyanide with a metallic silver-wire electrode
W. Frenzel, C.Y. Liu and J. Oleksy-Frenzel, **Anal. Chim. Acta**, 233, 77(1990).
1806. Potentiometric flow-injection determination of boron by using a flow-through tetrafluoroborate ion-selective poly(vinylchloride) membrane electrode
T. Imato, T. Yoshizuka and N. Ishibashi, **Anal. Chim. Acta**, 233, 139(1990).
1807. Atomic spectrometric detectors for flow-injection analysis
J.F. Tyson, **Anal. Chim. Acta**, 234, 3(1990).
1808. Reversible optosensing in packed flow-through detectors: flow injection or chromatography
J. Ruzicka and G.D. Christian, **Anal. Chim. Acta**, 234, 31(1990).
1809. Modified electrodes for elelctrochemical detection in flowing streams
J. Wang, **Anal. Chim. Acta**, 234, 41(1990).
1810. Flow-injection approach for the determination of the dynamic response characteristics of ion-selective electrode.
Part 1. Theoretical considerations
S.D. Kolev, K. Toth, E. Lindner and E. Pungor, **Anal. Chim. Acta**, 234, 49(1990).
1811. Flow-injection approach for the determination of the dynamic response characteristics of ion-selective electrode.
Part 2. Application to tubular solid-state iodide electrode
K. Toth, E. Lindner, E. Pungor and S.D. Kolev, **Anal. Chim. Acta**, 234, 57(1990).
1812. Mathematical modelling of sequential determinations by flow-injection sandwich techniques
J.L. Montesinos, J. Bartroll, M. Poch, M. Del Valle, J.L.F.C. Lima and A.N. Araujo, **Anal. Chim. Acta**, 234, 67(1990).
1813. Flow-injection immunoanalysis for the on-line monitoring of monoclonal antibodies
W. Stocklein and R.S. Schmid, **Anal. Chim. Acta**, 234, 83(1990).

1814. On-line determination of lactic acid during kefir fermentation based on a fibre-optic lactic acid biosensor and flow-injection analysis
B.A.A. Dremel, W. Yang and R.D. Schmid, *Anal. Chim. Acta*, **234**, 107(1990).
1815. Exchangeable immobilized enzyme reactor for enzyme inhibition tests in flow-injection analysis using a magnetic device. Determination of pesticides in drinking water
R. Kindervater, W. Kunnecke and R.D. Schmid, *Anal. Chim. Acta*, **234**, 113(1990).
1816. Application of a capillary flow cell to sophisticated flow-injection systems
C. Thommen, A. Fromageat, P. Obergfell and H.M. Widmer, *Anal. Chim. Acta*, **234**, 141(1990).
1817. Compensation of the Schlieren effect in flow-injection analysis by using dual-wavelength spectrophotometry
E.A.G. Zagatto, M.A.Z. Arruda, A.O. Jacintho and I.L. Mattos, *Anal. Chim. Acta*, **234**, 153(1990).
1818. Determination of magnesium in blood serum using a flow-injection system with a potential-scanning electrochemical detection equipped with a thin-film deaerator
R. Goldik, C. Yarnitzky and M. Ariel, *Anal. Chim. Acta*, **234**, 161(1990).
1819. Flow-injection analysis for power plants: Evaluation of detectors for the determination of control parameters in conditioned water-steam cycles
M.L. Balconi, F. Sigon, M. Borgarello, R. Ferraroli and F. Realini, *Anal. Chim. Acta*, **234**, 167(1990).
1820. Automated method for the determination of boron in water by flow-injection analysis with in-line preconcentration and spectrophotometric detection
I. Sekerka and J.F. Lechner, *Anal. Chim. Acta*, **234**, 199(1990).
1821. Intelligent flow-injection-inductively coupled plasma system for matrix matching
M.F. Gine, H. Bergamin F., B.F. Reis and R.L. Tuon, *Anal. Chim. Acta*, **234**, 207(1990).
1822. Gas-diffusion dilution flow-injection method for the determination of ethanol in beverages without sample pretreatment

- W. Kunnecke and R.D. Schmid, *Anal. Chim. Acta*, **234**, 213(1990).
1823. 5,5-Diethylbarbiturate tubular electrode for use in flow-injection detection systems
J.L.F.C. Lima, M.C.B.S.M. Montenegro, J. Alonso, J. Bartroli and J.G. Raurich, *Anal. Chim. Acta*, **234**, 221(1990).
1824. Integrated photochemical reaction/electrochemical detection in flow-injection systems: kinetic determination of oxalate
L.E. Leon, A. Rios, M.D. Luque De Castro and M. Valcarcel, *Anal. Chim. Acta*, **234**, 227(1990).
1825. Phosphorescence detection in flowing systems: selective determination of aluminium by flow-injection liquid room-temperature phosphorimetry
Y.-M. Liu, M.R. Fernandez De La Campa, M.E. Diaz Garcia and A. Sanz-Medel, *Anal. Chim. Acta*, **234**, 233(1990).
1826. Detection of slightly soluble systems by means of organized media in flow-injection analysis
B. Moreno Cordero and J.L. Perz Pavon, *Anal. Chim. Acta*, **234**, 239(1990).
1827. Rapid determination of microorganisms using a flow-injection system
T. Ding and R.D. Schmid, *Anal. Chim. Acta*, **234**, 247(1990).
1828. Simple variable-volume injector for flow-injection systems
J.L. Burguera, M. Burguera, C. Rivas, M. De La Guardia and A. Salvador, *Anal. Chim. Acta*, **234**, 253(1990).
1829. Indirect flow-injection determination of methadone by atomic absorption spectrometry
R. Montero, M. Gallego and M. Valcarcel, *Anal. Chim. Acta*, **234**, 433(1990).
1830. Determination of potassium in gasoline and lubricating oils by a flow-injection technique with flame atomic emission spectrometric detection
G.E. Roscoe, R. Miles and C.G. Taylor, *Anal. Chim. Acta*, **234**, 439(1990).
1831. Determination of nitrate with a flow-injection system combining square-wave polarographic detection with on-line deareation
M. Noufi, CH. Yanitzky and M. Ariel, *Anal. Chim. Acta*, **234**, 475(1990).
1832. Determination of glucose in fermentation processes by means of an on-line coupled flow-injection system using enzyme sensors based on

- chemically modified electrodes
R. Appelqvist and E.H. Hansen, **Anal. Chim. Acta**, 235, 265(1990).
1833. Flow-injection catalytic kinetic determination of manganese using stopped-flow and gradient calibration
J. Yang, C. Ma, S. Zhang and Z. Shen, **Anal. Chim. Acta**, 235, 323(1990).
1834. Enzymatic determination of L-lysine by flow-injection techniques
A. Pohlmann, W.W. Stamm, H. Kusakabe and M.-R. Kula, **Anal. Chim. Acta**, 235, 329(1990).
1835. Processing and error analysis of signals in flow-injeciton analysis
D. Chen and Y. Zeng, **Anal. Chim. Acta**, 235, 337(1990).
1836. Direct automatic determination of polyphenols in olive oils in the aqueous phase of a flow-injection liquid-liquid extraction system without phase separation
J.A.G. Mesa, P. Linares, M.D. Luque De Castro and M. Valcarcel; **Anal. Chim. Acta**, 235, 441(1990).
1837. Determination of total phosphorus in waters with amperometric detection by coupling of flow-injection analysis with continuous microwave oven digestion
S. Hinkamp and G. Schwedt, **Anal. Chim. Acta**, 236, 345(1990).
1838. Determination of chromium by on-line preconcentration on a poly(hydroxamic acid) resin in flow-injection atomic absorption spectrometry
A. Shah and S. Devi, **Anal. Chim. Acta**, 236, 469(1990).
1839. Application of flow-injection analysis in the on-line monitoring of sugars, lactic acid, protien and biomass during lactic acid fermentations
J. Nielsen, K. Nikolajsen, S. Benthin and J. Villadsen, **Anal. Chim. Acta**, 237, 165(1990).
1840. Automated exploration and exploitation of flow-injection response surfaces
A.P. Wade, P.M. Shiundu and P.D. Wentzell, **Anal. Chim. Acta**, 237, 361(1990).
1841. Determination of BrO_3^- by flow injection analysis with 5-Br-PADAP and SCN^-
C. Xingguo, Z. Xingwei, H. Zhide and K. Zongyan, **Anal. Lett.**, 23, 119(1990).
1842. Extractable sulphate-sulphur, total sulphur and trace-element

- determinations in plant material by flow injection analysis.
Part I. Extractable sulphate-S
D.L. Heanes, *Anal. Lett.*, **23**, 543(1990).
1843. Extractable sulphate-sulphur, total sulphur and trace-element determinations in plant material by flow injection analysis.
Part II. Total sulphur and copper, zinc, manganese and iron in plant material
D.L. Heanes, *Anal. Lett.*, **23**, 675(1990).
1844. Recent advances in detection in flow injection systems
M. Valcarcel and M.D. Luque de Castro, *Anal. Proc.*, **26**, 313(1989).
1845. Ion pairing flow injection extraction
M. Harriott and D.T. Burns, *Anal. Proc.*, **26**, 315(1989).
1846. Modification of a galssy carbon electrode by electrochemical deposition of reduced 12-molybdophosphate in a flow injection system: increased response to molybdate and pH
R. Zhao, S.P. Scullion and A.G. Fogg, *Anal. Proc.*, **26**, 363(1989).
1847. Spectrophotometric flow-injection techniques for process monitoring
R.L. Benson, P.J. Worsfold and F.W. Sweeting, *Anal. Proc.*, **26**, 385(1989).
1848. Flow-injection extraction-spectrophotometric determination of copper with dithiocarbamates
J. Szpunar-Lobinska and M. Troianowicz, *Anal. Sci.*, **6**, 415(1990).
1849. Flow-injection method for the separation of thallium and gold on a sephadex column and their extraction-photometric determination with rhodamine B
H. Koshima and H. Ohishi, *Anal. Sci.*, **6**, 421(1990).
1850. Potentiometric determination of ethanol in alcoholic beverages using a flow-injection analysis system equipped with a gas diffusion unit with a microporous poly(tetrafluoroethylene) membrane
H. Ohura, T.. Imato, Y. Asano, S. Yamasaki and N. Ishibashi, *Anal. Sci.*, **6**, 541(1990).
1851. Flow injection analysis of nonionic surfactants using ionic surfactant-selective electrode detector
T. Masadome, T. Imato and N. Ishibashi, *Anal. Sci.*, **6**, 605(1990).
1852. Some aspects of flow electroanalysis
K. Stulik, *Analyst(London)*, **114**, 1519(1989).
1853. Flow injection analysis and chromatography: Twins or siblings?

- J. Ruzicka and G.D. Christian, **Analyst(London)**, 115, 475(1990).
1854. Bismuth(III) hydride generation, its separation and the determination of bismuth(III) by atomic absorption spectrometry using flow injection
W.-F. Chan and P.-K. Hon, **Analyst(London)**, 115, 567(1990).
1855. Use of masking agents in the determination of lead in tap water by flame atomic absorption spectrometry with flow injection pre-concentration
S.R. Bysouth, J.F. Tyson and P.B. Stockwell, **Analyst(London)**, 115, 571(1990).
1856. Spectrofluorimetric optosensing of aluminium in a flow injection system: Determination of aluminium in dialysis fluids and concentrates
M.R.P. Garcia, M.E.D. Garcia and A. Sanz-Medel, **Analyst(London)**, 115, 575(1990).
1857. Effect of coated open-tubular inorganic-based solid-state ion-selective electrodes on dispersion in flow injection
J.F. van Staden, **Analyst(London)**, 115, 581(1990).
1858. Applications of the single well stirred tank model for dispersion in flow injection
J.F. Tyson, **Analyst(London)**, 115, 587(1990).
1859. Shapes of flow injection signals: Effect of refractive index on spectrophotometric signals obtained for on-line formation of bromide from bromate, bromide and hydrogen ion in a single-channel manifold using large-volume time-based injections
A.G. Fogg, E. Cipko, L. Farabella and J.F. Tyson, **Analyst(London)**, 115, 593(1990).
1860. Reductive reverse flow injection amperometric determination of nitrate at a platinum electrode after on-line reduction to nitrosyl chloride in concentrated sulphuric acid medium containing chloride
A.G. Fogg, S.P. Scullion and T.E. Edmonds, **Analyst(London)**, 115, 599(1990).
1861. Simultaneous determination of total and free calcium in milk by flow injection
J.F. van Staden and A. van Rensburg, **Analyst(London)**, 115, 605(1990).
1862. Selective determination of triton-type non-ionic surfactants by on-line clean-up and flow injection with spectrophotometric detection
M.E. Leon-Gonzalez, M.J. Santos-Delgado and J.M. Poto-Diez, **Analyst(London)**, 115, 609(1990).

1863. Determination of zinc in plants by flow injection spectrophotometry with ion-exchange separation
J.R. Ferreira, E.A.G. Zagatto, M.A.Z. Arruda and S.M.B. Brienza,
Analyst(London), 115, 779(1990).
1864. Gel-phase absorptiometry of phosphate with molybdate and malachite green and its application to flow analysis
K. Yoshimura, S. Nawata and G. Kura, *Analyst(London)*, 115, 843(1990).
1865. Determination of diphenhydramine hydrochloride by flow injection with bromophenol blue and turbidimetric measurement
J.M. Calatayud, A.S. Sampedro and S.N. Sarrion, *Analyst(London)*, 115, 855(1990).
1866. Experimental evaluation of commercially available semi-permeable membranes for use with parallel-plate dialysers in flow injection systems
J.F. van Staden and A. van Rensburg,
Analyst(London), 115, 1049(1990).
1867. Rapid differential flow injection of phosphorus compounds in wastewater by sequential spectrophotometry and inductively coupled plasma atomic emission spectrometry using a vacuum ultraviolet emission line
J.L. Manzoori, A. Miyazaki and H. Tao, *Analyst(London)*, 115, 1055(1990).
1868. Optimization of a flow injection sampling system for quantitative analysis of dilute aqueous solutions using combined resonance and surface-enhanced Raman spectroscopy(SERRS)
G.T. Taylor, S.K. Sharma and K. Mohanan, *Appl. Spectrosc.*, 44, 635 (1990).
1869. Determination of hydride-forming elements with the FIAS-200 flow-mercury/hydride system
T. Guo, W. Erler, H. Schulze and S. McIntosh, *At. Spectrosc.*, 11, 24(1990).
1870. Determination of oxalate by FIA with electrogenerated chemiluminescence detection(in Japanese)
K. Ushikura, *Bunseki Kagaku*, 39, 323(1990).
1871. Flow injection analysis of nonionic surfactants with plasticized poly(vinyl chloride) membrane electrode detector(in Japanese)
T. Masadome, T. Imato and N. Ishibashi, *Bunseki Kagaku*, 39, 519(1990).
1872. Flow-injection extraction (FIE) in flame atomic absorption spectrometry (in Czech)

- V. Kuban, J. Komarek and D. Cajkova, *Chem. Listy*, **84**, 376(1990).
1873. Precise determination of silver by flow-injection analysis with stripping voltammetry detection
L.Q. Zhang and P.E. Sturrock, *Electroanalysis(N.Y.)*, **2**, 133(1990).
1874. Cocatalytic chemiluminescence system for the determination of trace amounts of copper(II) by flow injection analysis(in Chinese)
W. Zhang, S. Zhong, H. Hu and J. Gong, *Fenxi Huaxue*, **17**, 922(1989).
1875. Flow injection analysis(in Chinese)
Z. Zhu, S. Xu and Z. Fang, *Fenxi Shiyanshi*, **8**, 75(1989).
1876. Selective determination of Triton-type non-ionic surfactants in different samples by on-line clean-up and FIA
M.E. Leon-Gonzalez, M.J. Santos-Delgado and L.M. Polo-Diez, *Fresenius' J. Anal. Chem.*, **337**, 389(1990).
1877. Three component flow injection analysis with on-line dialysis.
Simultaneous determination of free calcium, total calcium and total chloride in milk by flow injection analysis and on-line dialysis
J.F. van Staden and A. van Rensburg, *Fresenius' J. Anal. Chem.*, **337**, 393(1990).
1878. FLow injection alaysis: A useful alternative for solving analytical problems
M. Valcarcel and M.D. Luque de Castro, *Fresenius' J. Anal. Chem.*, **337**, 662(1990).
1879. Flow injection ion-exchange preconcentration for the determination of iron(II) with chemiluminescence detection
A.A. Alwarthan, K.A.J. Habib and A. Townshend, *Fresenius' J. Anal. Chem.*, **337**, 848(1990).
1880. Speciation of tetraalkyllead compounds by flow injection - atomic absorption spectrophotometry
R. Borja, M. de la Guardia, A. Salvador, J.L. Burguera and M. Burguera, *Fresenius' J. Anal. Chem.*, **338**, 9(1990).
1881. Evaluation of experimental conditions on the response of fluoride and cyanide selective electrodes in flow injection potentiometry
O. Elsholz, W. Frenzel, C.-Y. Liu and J. Moller, *Fresenius' J. Anal. Chem.*, **338**, 159(1990).
1882. Flow injection spectrofluorimetric determination of samarium(III) based on quenching of calcein blue fluorescence
M. Aihara and M. Uchikado, *Fukuoka Joshi Daigaku Kaseigakubu Kiyo*,

1883. Application of wall-jet electrode in flow-injection anodic stripping voltammetry(in Chinese)
G. Gao and D. Qi, **Gaodeng Xuexiao Huaxue Xuebao**, 11, 18(1990).
1884. Flow injection-spectrophotometric analysis of iron speciation in natural water(in Chinese)
Q. Xu and X. Yuan, **Huanjing Huaxue**, 8, 35(1989).
1885. Flow-injection methods for monitoring the environment
D.S. Mahadevappa, **Indian J. Environ. Prot.**, 9, 412(1989).
1886. Determination of manganese in vegetables and medicinal plants using flow injection system
S. Devi, **Indian J. Technol.**, 28, 78(1990).
1887. Novel flow injection approaches to environmental analysis
M.D. Luque de Castro and M. Valcarcel, **Int. J. Environ. Anal. Chem.**, 38, 171(1990).
1888. A flow injection analysis system involving immobilized NADH oxidase in column form for clinical analysis
T. Murachi, M. Totani, M. Ikemoto and M. Tabata, **J. Biotechnol.**, 14, 33(1990).
1889. Determination of alanine aminotransferase in human serum in an open-closed flow injection configuration
J.M. Fernandez-Romero, M.D. Luque de Castro and M. Valcarcel, **J. Biotechnol.**, 14, 43(1990).
1890. Prerequisites for the on-line control of microbial processes by flow injection analysis
I. Ogbomo, U. Prinzing and H.L. Schmidt, **J. Biotechnol.**, 14, 63(1990).
1891. Flow injection analysis and biosensors: applications for biotechnology and environmental control
H. Luedi, M.B. Garn, P. Bataillard and H.M. Widmer, **J. Biotechnol.**, 14, 71(1990).
1892. Development of an FIA system with immobilized enzymes for specific post-column detection of purine bases and their nucleosides separated by HPLC column
T. Yao, Y. Matsumoto and T. Wasa, **J. Biotechnol.**, 14, 89(1990).
1893. Simultaneous determination of glucose, ethanol and lactate in alcoholic beverages and serum by amperometric flow injection analysis with immobilized enzyme reactors

- K. Matsumoto, H. Matsubara, M. Hamada, H. Ukeda and Y. Osajima,
J. Biotechnol., 14, 115(1990).
1894. A microconduit flow injection analysis demonstration using a 35-mm slide profector
I.D. McKelvie, T.J. Cardwell and R.W. Cattrall, **J. Chem. Educ.**,
67, 262(1990).
1895. Determination of inorganic anions by flow injection analysis and high-performance liquid chromatography combined with photolytic-electrochemical detection
L. Dou and I.S. Krull, **J. Chromatogr.**, 499, 685(1990).
1896. Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis
Y. Baba, M. Tsuhako and N. Yoza, **J. Chromatogr.**, 507, 103(1990).
1897. Desorption studies at a hanging mercury drop electrode by a flow injection method
H. Sawamoto and K. Gamoh, **J. Electroanal. Chem. Interfacial Electrochem.**, 283, 421(1990).
1898. Modification of a commercial dual channel valve to be used in a stopped-flow injection analysis system
M. Blanco, J. Coello, H. Iturriaga, S. Maspoch and J. Riba, **J. Flow Injection Anal.**, 7, 3(1990).
1899. A variable volume injection applied to the atomic absorption determination of sodium, potassium, calcium and magnesium in blood serum by flow injection analysis
J.L. Burguera, M. Burguera, C. Rivas, M. De La Guardia, A. Salvador and V. Carbonell, **J. Flow Injection Anal.**, 7, 11(1990).
1900. FIA potentiometric determination of salicylate in pharmaceutical preparations with a tubular detector
J.L.F.C. Lima, M. Conceicao, B.M. Montenegro and A.M. Roque da Silva, **J. Flow Injection Anal.**, 7, 19(1990).
1901. Flow injection analysis for rapid amyloglucosidase activity determination
C.G. Hartford, D.W. Muntz, J.V. Evans and G.T. Blair, **J. Food Compos. Anal.**, 2, 364(1989).
1902. Flow injection analysis of pharmaceuticals
M.D. Luque de Castro and M. Valcarcel, **J. Pharm. Biomed. Anal.**, 7, 1291(1989).

1903. Instrumentation based on microcomputers. - 5: A computer operated flow injection analyzer
D. Malcolme-Lawes, C. Pasquini and K.H. Wong, **Lab. Microcomput.**, 8, 44(1989).
1904. Study on the single standard FIA-gradient dilution-micelle solubilization spectrophotometric determination of tungsten(in Chinese)
J. Yang, G. Dai and Z. He, **Lihua Jianyan, Huaxue Fence**, 25, 284(1989).
1905. FIA determination of phosphoric acid in phosphorization solution(in Chinese)
S. Wang, K. Mei and Y. Luo, **Lihua Jianyan, Huaxue Fence**, 25, 305(1989).
1906. Determination of pentachlorophenol by flow injecton and amperometric detection with a glassy carbon electrode
P. Yanez-Sedeno, E. Chico Guijarro, J.M. Pingarron Carrazon and L.M. Polo Diez, **Microchem. J.**, 41, 366(1990).
1907. Amperometric determination of Paraoxon in the presence of p-nitrophenol by flow injection analysis
E. Rodriguez, R. Carabias Martiniz and J. Hernandez Mendez, **Port. Electrochim. Acta**, 7, 73(1989).
1908. Development of flow injection amperometric monitors for the determination of nitrate and other species
A.G. Fogg, S.P. Scullion and T.E. Edmonds, **Port. Electrochim. Acta**, 7, 77(1989).
1909. Continuous flow injection chemical analysis(in Portuguese)
B.F. Reis, M.F. Gine, E.A.M. Krouka, **Quim. Nova**, 12, 82(1989).
1910. On-line trace metal enrichment in flow injection/atomic absorption spectrometry
S. Devi, K.A.J. Habib and A. Townshend, **Quim. Anal.**, 8, 159(1989).
1911. The design of flow injection manifolds to give the best detection limits for methods involving on-line chemical derivatization.
Part 1. Theoretical bases for high sensitivity
J.F. Tyson, **Quim. Anal.**, 8, 171(1989).
1912. The design of flow injection manifolds to give the best detection limits for methods involving on-line chemical derivatization.
Part 2. The spectrophotometric determination of chloride
J.F. Tyson, A.G. Fogg, and X. Wang, **Quim. Anal.**, 8, 179(1989).

1913. Determination of hydride forming elements at ultratrace levels by flow-injection hydride generation atomic absorption spectrometry with on-line ion-exchange column preconcentration
S. Zhang, S. Xu, and Z. Fang, **Quim. Anal.**, 8, 191(1989).
1914. A flow injection method for phosphate based on an antimony-enhanced molybdenum blue reaction
N. Lacy, G.D. Christian and J. Ruzicka, **Quim. Anal.**, 8, 201(1989).
1915. Organized surfactant assemblies in flow injection analysis
B. Moreno Cordero, J.L. Perez Pavon and J. Hernandez Mendez, **Quim. Anal.**, 8, 231(1989).
1916. Titration device by flow injection
A.F. Danet and A. Gurguta, **Rev. Chim.**, 40, 532(1989).
1917. Flow-injection determination of phosphate with a cadmium ion-selective electrode
D.E. Davey, D.E. Mulcahy and G.R. O'Connell, **Talanta**, 37, 683(1990).
1918. Rapid determination of zinc and iron in foods by flow-injection analysis with flame atomic-absorption spectrophotometry and slurry nebulization
J.C. de Andrate, F.C. Strong III and N.J. Martin, **Talanta**, 37, 711(1990).
1919. Determination of ortho- and pyrophosphates in waters by extraction chromatography and flow-injection analysis
B.Ya. Spivakov, T.A. Maryutina, L.K. Shpigun, V.M. Shkinev, Yu.A. Zolotov, E. Ruseva and I. Havezov, **Talanta**, 37, 889(1990).
1920. Flow-through sensor for the fluorimetric determination of cyanide
D. Chen, M.D. Luque de Castro and M. Valcarcel, **Talanta**, 37, 1049(1990).
1921. Determination of the flotation collector ethyl xanthate by flow-injection analysis
M. Kopanica, V. Stara and A. Trojanek, **Talanta**, 37, 1067(1990).
1922. Flow injection spectrophotometric determination of microamount tin (in Chinese)
J. Yang, G. Liu and Y. Jiang, **Yejin Fenxi**, 10, 58(1990).
1923. Theory of flow injection analysis. First order chemical reactions(in Russian)
V.P. Andreev and M.I. Khidekel, **Zh. Fiz. Khim.**, 63, 3237(1989).