

## FIA Bibliography(27)

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FIA-related papers and monographs which appeared since 1984 have been compiled in this bibliography. All papers are numbered in series and shown with the titles in English.

3695. FIA Bibliography(26)  
T. Sakai, N. Ohno, *J. Flow Injection Anal.*, **13**, 188 (1996).
3696. Feeding of silage effluent to dairy cows  
A. T. Randby, *Acta Agriculturae Scandinavica Section A-Animal Science*, **47**, 20 (1997).
3697. Preconcentration and multielement determination in different water samples using cellulose-sodium sulphide and/or the thiourea system with atomic absorption spectrometry  
I. M. M. Kenawy, M. A. H. Hafez, *Analusis*, **24**, 275 (1996).
3698. Colorimetric determination of available iron in soils by flow injection analysis  
A. M. R. Ferreira, J. L. F. C. Lima, A. O. S. S. Rangel, *Analusis*, **24**, 343 (1996).
3699. Precipitation flow injection immunoassay for human immunoglobulin  
A. Hacker, G. Gubitz, J. M. Fernandezromero, M. D. L. Decastro, M. Valcarcel, *Analyst*, **121**, 1565 (1996).
3700. Chemiluminescence determination of penicillamine via flow injection applying a quinine-cerium(IV)system  
Z. D. Zhang, W. R. G. Baeyens, X. R. Zhang, G. Vanderweken, *Analyst*, **121**, 1569 (1996).
3701. Multicomponent analysis by flow injection using a partial least-squares calibration method - simultaneous spectrophotometric determination of iron,cobalt and nickel at sub-pmm levels  
C. Moreno, M. P. Manuelvez, I. Gomez, M. Garciaavargas, *Analyst*, **121**, 1609 (1996).
3702. Sensitive determination of digoxin in tablets by flow injection with fluorescence detection  
M. S. Bloomfield, S. Matchett, K. A. Prebble, *Analyst*, **121**, 1613 (1996).
3703. Catalytic determination of dissolved inorganic carbon in natural waters by flow injection spectrophotometry  
N. Maniasso, S. Sato, M. F. Gine, A. O. Jacintho, *Analyst*, **121**, 1617 (1996).
3704. Technique and support for microorganism immobilization-application to trace metals enrichment by flow injection atomic absorption spectrometry  
A. Maquieira, H. A. M. Elmahadi, R. Puchades, *Analyst*, **121**, 1633 (1996).
3705. Thermometric determination of copper(II) using asid urease  
C. Preininger, B. Danielsson, *Analyst*, **121**, 1717 (1996).
3706. Solid-phase extraction coupled with electrochemical detection for the determination of the herbicide bromofenoxtim in water samples at low- and sub-mu-g i-1 levels  
I. G. Svegl, B. Ogorevc, M. Novic, E. Benfenati, *Analyst*, **121**, 1839 (1996).
3707. Mass transport-controlled steady-state currents for methanol in a flow injection system  
J. Gadomska, M. Donten, Z. Stojek, L. Nyholm, *Analyst*, **121**, 1869 (1996).
3708. Determination of copper(II) by anodic stripping voltammetry using a flow-through system  
A. Economou, P. R. Fielden, *Analyst*, **121**, 1903 (1996).
3709. Development and operating characteristics of micro flow injection analysis systems based on electroosmotic flow - A review  
S. J. Haswell, *Analyst*, **122**, R 1 (1997).
3710. Simultaneous automatic determination of trace amounts of copper and cobalt by use of a flow-through sensor and first-derivative spectrometry  
E. Vereda, A. Rios, M. Valcarcel, *Analyst*, **122**, 85 (1997).
3711. Determination of ammonia in waste by a differential pH method using flow injection potentiometry and a

nonactin-based sensor

H. D. Shen, T. J. Cardwell, R. W. Cattrall, *Analyst*, **122**, 89 (1997).

3712. Chemiluminescence determination of tiopronin by flow injection analysis based on cerium(IV) oxidation sensitized by quinine  
Y. N. Zhao, W. R. G. Baeyens, X. R. Zhang, A. C. Calokerinos, K. Nakashima, G. Vanderweken, *Analyst*, **122**, 103 (1997).
3713. Potentiometric differential microdetector with interchange solid membranes used in flow injection analysis  
L. Olenic, E. Hopirtean, L. Olenic, *Analyst*, **122**, 107 (1997).
3714. Determination of lignocaine hydrochloride by ion-pairing flow injection with piezoelectric detection  
Z. H. Mo, J. Luo, M. L. Li, *Analyst*, **122**, 111 (1997).
3715. Flow injection fluorimetric determination of ascorbic acid based on its photooxidation by thionine blue  
T. Perezruiz, C. Martinezlozano, V. Tomas, C. Sidrach, *Analyst*, **122**, 115 (1997).
3716. On-line flow injection-pervaporation of beer samples for the determination of diacetyl  
J. M. Izquierdoferreiro, J. M. Fernandezromero, M. D. L. Decastro, *Analyst*, **122**, 119 (1997).
3717. Spectrofluorimetric determination of vitamin K-3 by a solid-phase zinc reactor immobilized in a flow injection assembly  
I. G. Torro, J. V. G. Mateo, J. M. Calatayud, *Analyst*, **122**, 139 (1997).
3718. Electrochemical detection of african swine fever virus in pig serum with a competitive separation flow injection analysis-immunoassay  
M. Stiene, U. Bilitewski, *Analyst*, **122**, 155 (1997).
3719. Simultaneous spectrofluorimetric determination of selenium(IV) and (VI) by flow injection analysis  
M. J. Ahmed, C. D. Stalikas, P. G. Veltsistas, S. M. Tzouwarakarayanni, M. I. Karayannis, *Analyst*, **122**, 221 (1997).
3720. Determination of trace amounts of zinc in water samples by flow injection isotope dilution inductively coupled plasma mass spectrometry  
T. J. Hwang, S. J. Jiang, *Analyst*, **122**, 233 (1997).
3721. Optosensor for cinchona alkaloids with C-18 silica gel as a substrate  
Z. L. Gong, Z. J. Zhang, X. F. Yang, *Analyst*, **122**, 283 (1997).
3722. Integrated automatic determination of nitrate, ammonium and organic carbon in soil samples  
E. Ballesteros, A. Rios, M. Valcarcel, *Analyst*, **122**, 309 (1997).
3723. Determination of primary explosive azides in environmental samples by sequential injection amperometry  
R. T. Echols, R. R. James, J. H. Aldstadt, *Analyst*, **122**, 315 (1997).
3724. Flow injection spectrophotometric determination of L-dopa and carbidopa in pharmaceutical formulations using a crude extract of sweet potato root [IPOMOEA BATATAS (L) LAM] as enzymatic source  
O. Fatibello, I. D. Vieira, *Analyst*, **122**, 345 (1997).
3725. Lactate amperometric biosensor based on an electrosynthesized bilayer film with covalently immobilized enzyme  
F. Palmisano, G. E. Debenedetto, C. G. Zambonin, *Analyst*, **122**, 365 (1997).
3726. Applicability of a sol-gel derived CeO<sub>2</sub>TiO<sub>2</sub> thin film electrode as an amperometric sensor in flow injection  
G. Tavcar, K. Kalcher, B. Ogorevc, *Analyst*, **122**, 371 (1997).
3727. Detection and characterization of phospholipase D by flow injection analysis  
M. Becker, U. Spohn, R. Ulbrichhofmann, *Anal. Biochem.*, **244**, 55 (1997).
3728. Factors affecting zone variance in a capillary flow injection system  
D. M. Spence, S. R. Crouch, *Anal. Chem.*, **69**, 165 (1997).
3729. Minization of transition metal interferences with hydride generation techniques  
W. W. Ding, R. E. Sturgeon, *Anal. Chem.*, **69**, 527 (1997).
3730. High-throughput fast-scan anodic stripping voltammetry in a microflow system

- F. M. Zhou, J. T. Aronson, M. W. Ruegnitz, *Anal. Chem.*, **69**, 728 (1997).
3731. Flow injection fourier transform infrared determination of caffeine in soft drinks  
Y. Daghbouche, S. Garrigues, MT. Vidal; M. Delaguardia, *Anal. Chem.*, **69**, 1086 (1997).
3732. Stopless flow injection in asymmetrical flow field-flow fractionation using a frit inlet  
M. H. Moon, H. Kwon, I. Park, *Anal. Chem.*, **69**, 1436 (1997).
3733. Flow injection based renewable electrochemical sensor system  
M. Mayer, J. Ruzicka, *Anal. Chem.*, **68**, 3808 (1996).
3734. Miniaturized biosensors employing electropolymerized permselective films and their use for creatinine assays in human serum  
M. B. Madaras, R. P. Buck, *Anal. Chem.*, **68**, 3832 (1996).
3735. On line competitive immunoassay for insulin based on capillary electrophoresis with laser induced fluorescence detection  
L. Tao, R. T. Kennedy, *Anal. Chem.*, **68**, 3899 (1996).
3736. Determination of the rare earth elements in aqueous samples at sub-ppt levels by inductively coupled plasma mass spectrometry and flow injection IPCMS.  
J. K. Aggarwal, M. B. Shabani, M. R. Palmer, K. V. Ragnarsdottir, *Anal. Chem.*, **68**, 4418 (1996).
3737. Approaches to in-line removal of dissolved oxygen in flow systems for process analysis  
X. S. Chai, L. G. Danielsson, *Anal. Chim. Acta*, **332**, 31 (1996).
3738. Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry  
S. S. M. Hassan, W. H. Mahmoud, A. H. M. Othman, *Anal. Chim. Acta*, **332**, 39 (1996).
3739. Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite  
S. B. Adelaju, J. N. Barisci, G. G. Wallace, *Anal. Chim. Acta*, **332**, 145 (1996).
3740. Mercury thread electrode in a flow cell  
H. G. Jayaratna, C. S. Bruntlett, P. T. Kissinger, *Anal. Chim. Acta*, **332**, 165 (1996).
3741. Multicommutation in flow analysis .4. computer-assisted splitting for spectrophotometric determination of copper and zinc in plants  
C. C. Oliveira, R. P. Sartini, B. F. Reis, E. A. G. Zagatto, *Anal. Chim. Acta*, **332**, 173 (1996).
3742. Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition  
T. Ghous, A. Townshend, *Anal. Chim. Acta*, **332**, 179 (1996).
3743. Potentiometric detection of carboxylic acids by flow injection analysis using a tungsten oxide electrode  
Z. L. Chen, P. W. Alexander, *Anal. Chim. Acta*, **332**, 187 (1996).
3744. Flow-injection stopped-flow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III)  
J. A. M. Pulgarin, L. F. G. Bermejo, *Anal. Chim. Acta*, **333**, 59 (1996).
3745. Vapour generation fourier transform infrared spectrometric determination of benzene, toluene and methyl tert-butyl ether in gasolines  
E. Lopezanreus, S. Garrigues, M. Delaguardia, *Anal. Chim. Acta*, **333**, 157 (1996).
3746. A robotic-flow injection approach to the fully automated determination of starch in food  
A. Velascoarjona, M. D. L. Decastro, *Anal. Chim. Acta*, **333**, 205 (1996).
3747. Chemiluminescence arising from the oxidation of bilirubin in aqueous media  
L. P. Palilis, A. C. Calokerinos, N. Grekas, *Anal. Chim. Acta*, **333**, 267 (1996).
3748. Photocured polymers in ion-selective electrode membranes .5.photopolymerised sodium sensitive ion-selective electrodes for flow injection potentiometry  
J. R. Farrell, P. J. Iles, T. Dimitrakopoulos, *Anal. Chim. Acta*, **334**, 133 (1996).
3749. Effect of organic solvent on tris(2,2'-bipyridyl)ruthenium(III) chemiluminescent reactions in flowing streams

- W. Y. Lee, T. A. Nieman, *Anal. Chim. Acta*, **334**, 183 (1996).
3750. Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection  
J. R. Farrell, P. J. Iles, Y. J. Yuan, *Anal. Chim. Acta*, **334**, 193 (1996).
3751. Determination of trimethylamine oxide in seawater and small volumes of seafood tissue extract using flow injection analysis  
S. Sadok, R. F. Uglow, S. J. Haswell, *Anal. Chim. Acta*, **334**, 279 (1996).
3752. Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry  
A. Lorber, Z. Karpas, L. Halicz, *Anal. Chim. Acta*, **334**, 295 (1996).
3753. Second order multivariate curve resolution applied to the flow injection analysis of mixtures of amino acids  
J. Saurina, S. Hernandezcassou, R. Tauler, *Anal. Chim. Acta*, **335**, 41 (1996).
3754. Photocured polymers in ion-selective electrode membranes.6.photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry  
J. R. Farrell, P. J. Iles, T. Dimitrakopoulos, *Anal. Chim. Acta*, **335**, 111 (1996).
3755. Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide  
J. Li, S. N. Tan, H. L. Ge, *Anal. Chim. Acta*, **335**, 137 (1996).
3756. Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds  
I. G. Casella, T. R. I. Cataldi, A. Guerrieri, E. Desimoni, *Anal. Chim. Acta*, **335**, 217 (1996).
3757. Electrochemical response of a polypyrole-dodecylsulphate electrode with multicharged cations and vitamins B-1 and B-6 - application as a microsensor in flow-injection analysis  
R. C. Martinez, F. B. Dominguez, I. M. S. Garcia, J. H. Mendez, R. C. Orellana, R. S. Guzman, *Anal. Chim. Acta*, **336**, 47 (1996).
3758. Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection  
K. Stein, R. B. Shi, G. Schwedt, *Anal. Chim. Acta*, **336**, 113 (1996).
3759. Direct vapor generation fourier transform infrared spectrometric determination of ethanol in blood  
A. Perezponce, S. Garrigues, M. Delaguardia, *Anal. Chim. Acta*, **336**, 123 (1996).
3760. Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide  
J. A. Sweileh, *Anal. Chim. Acta*, **336**, 131 (1996).
3761. Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label - application to the determination of polychlorinated biphenyls  
M. Delcarlo, M. Mascini, *Anal. Chim. Acta*, **336**, 167 (1996).
3762. Determination of sucrose using sucrose phosphorylase in a flow-injection system.  
M. Kogure, H. Mori, H. Ariki, C. Kojima, H. Yamamoto, *Anal. Chim. Acta*, **337**, 107 (1997).
3763. New interface for coupling flow-injection and capillary electrophoresis  
P. Kuban, A. Engstrom, J. C. Olsson, G. Thorsen, R. Tryzell, B. Karlberg, *Anal. Chim. Acta*, **337**, 117 (1997).
3764. Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection  
L. G. Decnopweever, J. C. Kraak, *Anal. Chim. Acta*, **337**, 125 (1997).
3765. Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation  
S. Ouyang, Y. H. Chen, Y. Xu, *Anal. Chim. Acta*, **337**, 165 (1997).
3766. Paraquat sensors containing membrane components of high lipophilicities  
B. Saad, M. M. Ariffin, M. I. Saleh, *Anal. Chim. Acta*, **338**, 89 (1997).

3767. Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase  
A. M. Almuaibed, A. Townshend, *Anal. Chim. Acta*, **338**, 149 (1997).
3768. Signal filtering of potentiometric stripping analysis using fourier techniques  
C. W. K. Chow, D. E. Davey, D. E. Mulcahy, *Anal. Chim. Acta*, **338**, 167 (1997).
3769. Determination of volatile arsenicals in ambient air by flow injection  
J. H. Aldstadt, D. C. Olson, F. Martin, *Anal. Chim. Acta*, **338**, 215 (1997).
3770. Chemiluminescence detection of porphyrins with the peroxyoxalate reaction by flow-injection analysis  
M. Lin, C. W. Huie, *Anal. Chim. Acta*, **339**, 131 (1997).
3771. Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays  
J. M. Lin, A. Tsuji, M. Maeda, *Anal. Chim. Acta*, **339**, 139 (1997).
3772. An optosensor for riboflavin with C-18 silica gel as a substrate  
Z. L. Gong, Z. J. Zhang, *Anal. Chim. Acta*, **339**, 161 (1997).
3773. Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis.  
1. use of macroelectrodes  
P. Akhtar, C. O. Too, G. G. Wallace, *Anal. Chim. Acta*, **339**, 201 (1997).
3774. Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis.  
2. use of microelectrodes  
P. Akhtar, C. O. Too, G. G. Wallace, *Anal. Chim. Acta*, **339**, 211 (1997).
3775. Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction  
S. D. Clerc, R. A. Jewsbury, M. G. Mortimer, J. Zeng, *Anal. Chim. Acta*, **339**, 225 (1997).
3776. Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry  
A. G. Coedo, M. T. Dorado, I. Padilla, F. Alguacil, *Anal. Chim. Acta.*, **340**, 31 (1997).
3777. Spline wavelet analysis for voltammetric signals  
X. Y. Zou, J. Y. Mo, *Anal. Chim. Acta*, **340**, 115 (1997).
3778. Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection  
J. Alpizar, A. Cladera, V. Cerda, E. Lastres, L. Garcia, M. Catasus, *Anal. Chim. Acta*, **340**, 149 (1997).
3779. Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method  
Y. Z. Li, A. Townshend, *Anal. Chim. Acta*, **340**, 159 (1997).
3780. Flow injection analysis of copper diethyldithiocarbamate in high resistance toluene media using a microelectrode detector  
T. J. Cardwell, J. H. Santos, A. M. Bond, *Anal. Chim. Acta*, **340**, 169 (1997).
3781. Development of an amperometric immunosensor based on flow injection analysis for the detection of red blood cells  
B. Lu, M. R. Smyth, R. Okennedy, J. Moulds, T. Frame, *Anal. Chim. Acta*, **340**, 175 (1997).
3782. Determination of carbohydrates by flow injection with direct chemiluminescence detection  
I. B. Agater, R. A. Jewsbury, K. Williams, *Analytical Communications*, **33**, 367 (1996).
3783. Flow-injection potentiometric detection of phosphates using a metallic cobalt wire ion-selective electrode  
Z. L. Chen, R. Demarco, P. W. Alexander, *Analytical Communications*, **34**, 93 (1997).
3784. Development of an amperometric immunoassay based on an highly dispersed immunoelectrode  
R. Krishnan, A. L. Ghindilis, P. Atanasov, E. Wilkins, *Anal. Lett.*, **29**, 2615 (1996).
3785. Flow-injection chemiluminescence sensor for the determination of free chlorine in tap water  
W. Qin, Z. J. Zhang, S. N. Liu, *Anal. Lett.*, **30**, 11 (1997).
3786. Reagentless flow analysis determination of hydrogen peroxide by electrocatalyzed luminol chemiluminescence

- J. E. Atwater, J. R. Akse, J. Dehart, R. R. Wheeler, *Anal. Lett.*, **30**, 21 (1997).
3787. Iridium-dispersed carbon paste amino acid oxidase electrodes  
G. A. Rivas, B. Maestroni, *Anal. Lett.*, **30**, 489 (1997).
3788. An enzymatic method for the determination of ATP and glycerol with an automated FIA system  
E. R. Kiranas, M. I. Karayannis, S. M. Tzouwarakarayanni, *Anal. Lett.*, **30**, 537 (1997).
3789. Flow-injection analysis of norepinephrine bitartrate by ion association with anionic surfactant using a piezoelectric detector  
Z. H. Mo, M. J. Zhang, M. L. Li, Z. L. Xia, *Anal. Lett.*, **30**, 663 (1997).
3790. A tri-enzyme electrode probe for the sequential determination of fructose and glucose in the same sample  
R. Antiochia, G. Palleschi, *Anal. Lett.*, **30**, 683 (1997).
3791. Flow injection chemiluminescence determination of tetracyclines  
Z. Li, M. L. Feng, J. R. Lu, Z. L. Gong, H. L. Jiang, *Anal. Lett.*, **30**, 797 (1997).
3792. Amperometric biosensor for the determination of phenols using a crude extract of sweet potato (IPOMOEA BATATAS (L) LAM)  
I. D. Vieira, O. Fatibello, *Anal. Lett.*, **30**, 895 (1997).
3793. Flow injection on-line preconcentration and flame AAS determination of copper, cadmium and lead in marine sediment samples  
S. Kartikeyan, B. Vijayalekshmy, S. Chandramouleeswaran, T. P. Rao, C. S. P. Iyer, *Anal. Lett.*, **30**, 1037 (1997).
3794. Flow injection determination of hydrogen peroxide by bis(2,4,6-trichlorophenyl)oxalate chemiluminescence in o/w emulsion  
T. Hasebe, E. Hasegawa, T. Kawashima, *Anal. Sci.*, **12**, 881 (1996).
3795. Flow injection sequential speciation of free and total potassium in fortified wines  
A. O. S. S. Rangel, I. V. Toth, *Anal. Sci.*, **12**, 887 (1996).
3796. Flow injection titration of chloride in electroplating baths with a silver tubular electrode as a detector  
M. B. Etxebarria, J. L. F. C. Lima, M. Conceicao, B. S. M. Montenegro, R. Perezolmos, *Anal. Sci.*, **13**, 89 (1997).
3797. Simultaneous flow injection determination of acetylcholine and choline based on luminol chemiluminescence in a micellar system with on-line dialysis  
T. Hasebe, J. Nagao, T. Kawashima, *Anal. Sci.*, **13**, 93 (1997).
3798. Determination of major and trace elements for certified reference material of riverine water JAC 0031 and JAC 0032 by ICP-MS  
T. Shimamura, M. Iwashita, *Anal. Sci.*, **13**, 177 (1997).
3799. Equilibrium and kinetic studies on ligand exchange reaction of aluminum(III)-5-sulfoquinoline-8-ol complex with fluoride ion by reversed-phase ion-pair liquid chromatography  
Y. Q. Feng, M. Shibukawa, K. Oguma, *Anal. Sci.*, **13**, 217 (1997).
3800. High volumetric yields of functional dimeric miniantibodies in escherichia coli, using an optimized expression vector and high-cell-density fermentation under non-limited growth conditions  
U. Horn, W. Strittmatter, A. Krebber, U. Knupfer, M. Kujau, R. Wenderoth, K. Muller, S. Matzku, A. Pluckthun, D. Riesenber, *Applied Microbiology & Biotechnology*, **46**, 524 (1996).
3801. Luminol chemiluminescence with heteropoly acids and its application to the determination of arsenate, germanate, phosphate and silicate by ion chromatography  
T. Fujiwara, K. Kurahashi, T. Kumamaru, H. Sakai, *Applied Organometallic Chemistry*, **10**, 675 (1996).
3802. Detection of flow injection analysis by acousto-optic tunable filter-based fluorimetry and its application in the determination of solvent polarity  
C. D. Tran, J. Lu, *Applied Spectroscopy*, **50**, 1578 (1996).
3803. Comparison of univariate and multivariate strategies for the determination of sucrose in fruit juices by

- automated flow injection analysis with fourier transform infrared detection  
R. Kellner, B. Lendl, I. Wells, P. J. Worsfold, *Applied Spectroscopy*, **51**, 227 (1997).
3804. Review of chemometrics applied to spectroscopy 1985-95 .2.  
P. R. Mobley, B. R. Kowalski, J. J. Workman, R. Bro, *Applied Spectroscopy Reviews*, **31**, 347 (1996).
3805. Automatic chromium(III)/(VI) preconcentration and speciation by flow injection-flame AAS  
M. S. Jimenez, L. Martin, J. M. Mir, J. R. Castillo, *At. Spectrosc.*, **17**, 201 (1996).
3806. Immunodetection approaches and high-performance immunoaffinity chromatography for an analogue of bovine growth hormone releasing factor at trace levels  
R. A. Strong, B. Y. Cho, D. H. Fisher, J. Nappier, I. S. Krull, *Biomedical Chromatography*, **10**, 337 (1996).
3807. Flow-injection analysis of cobalt(II) utilizing enhanced lophine chemiluminescence with hydroxylammonium chloride  
K. Nakashima, H. Yamasaki, R. Shimoda, N. Kuroda, S. Akiyama, W. R. G. Baeyens, *Biomedical Chromatography*, **11**, 63 (1997).
3808. Automated flow-injection fluorimetric determination of different penicillins in pharmaceutical dosage forms  
P. Solich, D. Solichova, C. K. Polydorou, C. E. Efsthathiou, M. A. Koupparis, *Biomedical Chromatography*, **11**, 65 (1997).
3809. Precipitation flow-injection immunoassay for human igg  
A. Hacker, G. Gubitz, J. M. Fernandezromero, M. D. L. Decastro, M. Valcarcel, *Biomedical Chromatography*, **11**, 105 (1997)
3810. Flow injection analysis of some nonapeptides derivatized with 4-fluoro-7-nitrobenzo-2,1,3-oxadiazole  
W. R. G. Baeyens, G. Vanderweken, Y. Vandenbossche, A. Vanoverbeke, K. Imai, *Biomedical Chromatography*, **11**, 109 (1997).
3811. Chemiluminescent determination of tiopronin and its metabolite, 2-mercaptopropionic acid, in urine by HPLC coupled with a flow injection set-up  
Y. N. Zhao, W. R. G. Baeyens, X. R. Zhang, K. Nakashima, A. C. Calokerinos, G. Vanderweken, *Biomedical Chromatography*, **11**, 115 (1997).
3812. Chemiluminescence determination of tiopronin by flow injection analysis based on cerium(IV) oxidation sensitized by quinine  
Y. N. Zhao, W. R. G. Baeyens, X. R. Zhang, A. C. Calokerinos, K. Nakashima, G. Vanderweken, *Biomedical Chromatography*, **11**, 117 (1997).
3813. Highly sensitive flow injection analysis of lipid hydroperoxides in foodstuffs  
K. Akasaka, T. Takamura, H. Ohrui, H. Meguro, K. Hashimoto, *Bioscience Biotechnology & Biochemistry*, **60**, 1772 (1996).
3814. Lactate solid-state biosensor with multilayer of electrodeposited polymers for flow-injection clinical analysis  
T. K. V. Krawczyk, M. Trojanowicz, A. Lewenstam, A. Moszczynska, *Biosensors & Bioelectronics*, **11**, 1155 (1996).
3815. Organic charge transfer complex based printable biosensor  
G. F. Khan, *Biosensors & Bioelectronics*, **11**, 1221 (1996).
3816. Reversible coupling of glucoenzymes on fluoride-sensitive fet biosensors based on lectin-glucoprotein binding  
R. Koneke, C. Menzel, R. Ulber, K. Schugerl, T. Scheper, M. Saleemuddin, *Biosensors & Bioelectronics*, **11**, 1229 (1996).
3817. A preliminary study of a biosensor based on flow injection of the recognition element  
D. Kriz, A. Johansson, *Biosensors & Bioelectronics*, **11**, 1259 (1996).
3818. Free cholesterol fiber-optic biosensor for serum samples with simplex optimization  
M. D. Marazuela, B. Cuesta, M. C. Morenobondi, A. Quejido, *Biosensors & Bioelectronics*, **12**, 233 (1997).
3819. Semi-on-line analysis for fast and precise monitoring of bioreaction processes

- L. H. Christensen, J. Marcher, U. Schulze, M. Carlsen, R. W. Min, J. Nielsen, J. Villadsen, *Biotechnology & Bioengineering*, **52**, 237 (1996).
3820. A kalman filter algorithm and monitoring apparatus for at-line control of fractional protein precipitation  
I. J. Holwill, S. J. Chard, M. T. Flanagan, M. Hoare, *Biotechnology & Bioengineering*, **53**, 58 (1997).
3821. Potentiometric sensor for on line glucose determination  
R. O. M. Folly, B. Valdman, F. Valero, C. Sola, *Biotechnology Techniques*, **10**, 867 (1996).
3822. Determination of Cr(III) and Cr(VI) in water by flow injection on-line preconcentration flame atomic absorption spectrometry  
C. G. Bruhn, L. Villalba, V. H. Campos, S. Basualto, J. Tapia, *Boletin de la Sociedad Chilena de Quimica*, **42**, 83 (1997).
3823. Several factors affecting the detection sensitivity of the reaction heat-induced optical beam deflection method  
X. Z. Wu, H. Kitatani, K. Uchiyama, T. Hobo, *Bull. Chem. Soc. Jpn.*, **69**, 3423 (1996).
3824. Speciation of trace metals in pond water as studied by liquid chromatography inductively coupled plasma mass spectrometry  
A. Itoh, C. Kimata, H. Miwa, H. Sawatari, H. Haraguchi, *Bull. Chem. Soc. Jpn.*, **69**, 3469 (1996).
3825. Multielement determination of trace elements in sediment sample by inductively coupled plasma mass spectrometry with microsampling technique  
E. Fujimori, R. Wei, H. Sawatari, K. Chiba, H. Haraguchi, *Bull. Chem. Soc. Jpn.*, **69**, 3505 (1996).
3826. Pulsed amperometric detection of metal ions complexing with EDTA in a flow injection system  
J. W. Lee, I. H. Yeo, C. H. Pyun, *Bulletin of the Korean Chemical Society*, **18**, 316 (1997).
3827. Flow injection analysis: its application to biological substance analysis  
T. Matsubara, *Bunseki*, **1996**, 994 (1996).
3828. Determination of ionic surfactants based on ion association in an aqueous medium  
Y. H. Gao, S. Motomizu, *Bunseki Kagaku*, **45**, 1065 (1996).
3829. Development of novel redox systems in potentiometry and its application to analytical chemistry  
N. Teshima, *Bunseki Kagaku*, **45**, 1151 (1996).
3830. Use of high current microsecond pulsed hollow cathode lamp in hydride generation atomic fluorescence spectrometry  
Y. Z. Xie, B. L. Huang, Z. B. Gong, P. Y. Yang, X. R. Wang, S. Y. Zhang, *Canadian Journal of Applied Spectroscopy*, **41**, 149 (1996).
3831. Flow injection thermal analysis mass spectrometry-application to studies of carbon gasification reactions  
J. M. Jones, W. A. T. Ellyatt, F. E. Ndaji, K. M. Thomas, *Carbon*, **35**, 217 (1997).
3832. Symposium flow injection analysis, krakow, 10-11 October 1996  
M. Trojanowicz, *Chemia Analityczna*, **42**, 134 (1997).
3833. Studies on the chemical kinetics in flow injection analysis system  
Z. Liu, G. W. Zou, Y. K. Zhang, *Chemical Journal of Chinese Universities-Chinese*, **18**, 33 (1997).
3834. Environmental immunoassays and other bioanalytical methods-overview and update.  
J. Sherry, *Chemosphere*, **34**, 1011 (1997).
3835. Chemiluminescence determination of tiopronin and its metabolite 2-mercaptopropionic acid in human urine by HPLC coupled with flow injection.  
Y. N. Zhao, W. R. G. Baeyens, X. R. Zhang, A. C. Calokerinos, K. Nakashima, G. Vanderweken, A. Vanoverbeke, *Chromatographia*, **44**, 31 (1997).
3836. Spectrophotometric determination of urinary iodine by flow injection analysis with on-line catalytic digestion  
Y. P. Zhang, D. X. Yuan, J. X. Chen, T. S. Lan, H. Q. Chen, *Clinical Chemistry*, **42**, 2021 (1996).
3837. Statistical evaluation of phosphorus breakthrough profiles using a segmented exponential model  
S. L. McGeehan, B. Shafii, D. V. Naylor, W. J. Price, *Communications in Soil Science & Plant Analysis*, **28**, 395 (1997).

3838. Recent developments in flow injection immunoanalysis  
R. Puchades, A. Maquieira, *Critical Reviews in Analytical Chemistry*, **26**, 195 (1996).
3839. Direct processing and analysis of solid and other complex samples with automatic flow injection systems  
Z. L. Zhi, A. Rios, M. Valcarcel, *Critical Reviews in Analytical Chemistry*, **26**, 239 (1996).
3840. Coaxial flow mixer for real-time monitoring of cellular responses in flow injection cytometry  
G. Blankenstein, L. D. Scampavia, J. Ruzicka, G. D. Christian, *Cytometry*, **25**, 200 (1996).
3841. On-line immunoanalysis of monoclonal antibodies during a continuous culture of hybridoma cells  
J. J. Vanderpol, M. Machnik, M. Biselli, T. Portelaklein, C. D. Degooijer, J. Tramper, C. Wandrey, *Cytotechnology*, **24**, 19 (1997).
3842. Flow-injection analysis of carbonate, sulfite and acetate in food  
R. Shi, K. Stein, G. Schwedt, *Deutsche Lebensmittel-Rundschau*, **92**, 323 (1996).
3843. Voltammetric multichannel measurements using silicon fabricated microelectrode arrays  
M. Paeschke, F. Dietrich, A. Uhlig, R. Hintsche, *Electroanalysis*, **8**, 891 (1996).
3844. Flow injection monitoring and analysis of mixtures of simazine, atrazine, and propazine using filter-supported bilayer lipid membranes(blms)  
D. P. Nikotelis, C. C. Siontorou, *Electroanalysis*, **8**, 907 (1996).
3845. Flow-injection analysis of ethanol with an alcohol dehydrogenase-modified carbon paste electrode  
M. J. Lobo, A. J. Miranda, P. Tunon, *Electroanalysis*, **8**, 932 (1996).
3846. Peroxidase-modified carbon paste microelectrode as amperometric fi-detector for peroxides in partial aqueous media  
I. C. Popescu, E. Csoregi, L. Gorton, *Electroanalysis*, **8**, 1014 (1996).
3847. Simultaneous determination of chloride and fluoride ions in waters by sequential injection analysis  
J. Alpizar, A. Crespi, A. Cladera, R. Forteza, V. Cerda, *Electroanalysis*, **8**, 1051 (1996).
3848. Fast amperometric immunoassay for hantavirus infection  
R. Krishnan, A. L. Ghindilis, P. Atanasov, E. Wilkins, J. Montoya, F. T. Koster, *Electroanalysis*, **8**, 1131 (1996).
3849. Flow characteristics of a versatile wall-jet or radial-flow thin-layer large-volume cell for electrochemical detection in flow-through analytical systems  
B. Soucagueillous, W. Kutner, *Electroanalysis*, **9**, 32 (1997).
3850. Detection of hydrogen peroxide and other molecules of biological importance at an electrocatalytic surface on a carbon fiber microelectrode  
W. B. Nowall, W. G. Kuhr, *Electroanalysis*, **9**, 102 (1997).
3851. Flow-injection potentiometric detection of metal ions based on tungsten oxide electrode  
Z. L. Chen, P. W. Alexander, *Electroanalysis*, **9**, 141 (1997).
3852. L-ascorbate sensor with polypyrrole-coated carbon felt membrane electropolymerized in a cucumber juice solution  
S. Uchiyama, Y. Hasebe, M. Tanaka, *Electroanalysis*, **9**, 176 (1997).
3853. Evaluation of a new wall-jet flow-through cell for commercial ion-selective electrodes in flow injection potentiometry  
L. T. Dibenedetto, T. Dimitrakopoulos, *Electroanalysis*, **9**, 179 (1997).
3854. Amperometric biosensors based on NAD(P)-dependent dehydrogenase enzymes  
M. J. Lobo, A. J. Miranda, P. Tunon, *Electroanalysis*, **9**, 191 (1997).
3855. Amperometry and cyclic voltammetry of tyrosine and tryptophan-containing oligopeptides at carbon fiber microelectrodes applied to single cell analysis  
C. D. Paras, R. T. Kennedy, *Electroanalysis*, **9**, 203 (1997).
3856. Simultaneous FIA determination of two components with differential normal pulse voltammetric multidetection

- J. Alpizar, A. Crespi, A. Cladera, R. Forteza, V. Cerdà, *Electroanalysis*, **9**, 247 (1997).
3857. Method comparison and evaluation for the analysis of weak acid-dissociable cyanide  
J. R. Sebroski, R. H. Ode, *Environmental Science & Technology*, **31**, 52 (1997).
3858. Flow injection hydride generation atomic absorption spectrometry (FI-HG-AAS) and spectrophotometric methods for determination of lead in environmental samples  
G. Samanta, D. Chakraborti, *Environmental Technology*, **17**, 1327 (1996).
3859. Measurement of bod-correlation between 5-day bod and commercial bod biosensor values  
J. L. Marty, D. Olive, Y. Asano, *Environmental Technology*, **18**, 333 (1997).
3860. On-line monitoring of enzyme-catalyzed biotransformations with biosensors  
F. Lammers, T. Schepers, *Enzyme & Microbial Technology*, **20**, 432 (1997).
3861. Stability-indicating liquid chromatographic determination of trifluoperazine hydrochloride in bulk form and tablets  
E. M. Abdelmoety, O. A. Aldeeb, *European Journal of Pharmaceutical Sciences*, **5**, 1 (1997).
3862. Flow injection-kinetic spectrophotometric determination of iron(III) and aluminum(III)  
Y. Chen, R. Cai, Y. Zeng, *Fenxi Huaxue*, **24**, 1166 (1996).
3863. Flow-injection chemiluminescence analysis for determination of trace ascorbic acid  
M. Feng, J. Lu, X. Zhang, Z. Xu, Z. Zhang, *Fenxi Huaxue*, **24**, 1364 (1996).
3864. Silver-diethyldithiocarbamate system for the determination of arsenic by flow injection analysis  
G. Liu, C. Wang, F. Cao, *Fenxi Huaxue*, **24**, 1429 (1996).
3865. Determination of benzaldehyde by flow injection analysis with chemiluminescence detection  
G. Yao, Q. Liu, Z. Geng, *Fenxi Huaxue*, **24**, 1441 (1996).
3866. Reverse flow injection chemiluminescence determination of glucose  
Y. Huang, M. Feng, Z. Zhang, *Fenxi Huaxue*, **25**, 34 (1997).
3867. Simultaneous determination of aluminum and iron by flow injection-stopped flow-spectrophotometry  
A. Zhang, S. Wang, H. Wang, H. Cui, *Fenxi Huaxue*, **25**, 37 (1997).
3868. A gravitational phase separator for use in flow injection/liquid-liquid extraction/indirect atomic absorption spectrometric determination of nitrate and nitrite  
H. Qiu, Q. Shuai, Z. Tang, S. Lin, *Fenxi Huaxue*, **25**, 72 (1997).
3869. Determination of trace silicon by flow injection/differential kinetic chemiluminescence method  
H. Jiang, M. Yang, J. Lu, *Fenxi Huaxue*, **25**, 149 (1997).
3870. Simultaneous determination of nickel and iron by flow injection-spectrophotometry  
X. Qu, J. Zhou, H. Yin, *Fenxi Huaxue*, **25**, 168 (1997).
3871. Advance of flow injection-chemiluminescence detection  
Y. Zhou, G. Zhu, *Fenxi Huaxue*, **25**, 222 (1997).
3872. Flow injection analysis/chemiluminescence detection of trace hydrazine in air  
Y. Wu, F. Zhao, Z. Geng, Z. Chen, Q. Liu, *Fenxi Huaxue*, **25**, 263 (1997).
3873. Flow-injection/chemiluminescence assays of catecholamines  
J. Li, J. Lu, *Fenxi Huaxue*, **25**, 314 (1997).
3874. Reverse flow injection chemiluminescence for determination of trace iron  
Y. Zhou, F. Li, G. Zhu, J. Sun, J. Lei, *Fenxi Huaxue*, **25**, 334 (1997).
3875. Determination of mercury in dry fish samples by microwave digestion and flow injection analysis system cold vapor atomic absorption spectrometry  
L. A. Depaz, A. Alegria, R. Barbera, R. Farre, M. J. Lagarda, *Food Chemistry*, **58**, 169 (1997).
3876. Effect of pH and hydrogen peroxide on heat inactivation of salmonella and listeria in egg white  
P. M. Muriana, *Food Microbiology*, **14**, 11 (1997).
3877. Evaluation of meat spoilage using a chemiluminescence-flow injection analysis system based on immobilized putrescine oxidase and a photodiode

- Y. Yano, K. Yokoyama, I. Karube, *Food Science & Technology-Lebensmittel-Wissenschaft & Technologie*, **29**, 498 (1996).
3878. Investigation of the automated determination of As, Sb and Bi by flow injection hydride generation using in-situ trapping on stable coatings in graphite furnace atomic absorption spectrometry  
H. O. Haug, Y. P. Liao, *Fresenius' J. Anal. Chem.*, **356**, 435 (1996).
3879. Determination of alpha-amylase activity using fourier transform infrared spectroscopy  
P. Krieg, B. Lendl, R. Vonach, R. Kellner, *Fresenius' J. Anal. Chem.*, **356**, 504 (1996).
3880. Flow injection analysis of ascorbic acid at a methylene green chemically modified electrode  
A. M. Yu, C. X. He, J. Zhou, H. Y. Chen, *Fresenius' J. Anal. Chem.*, **357**, 84 (1997).
3881. Use of microwave plasma torch atomic emission spectrometry for the determination of silicon  
F. Liang, H. Q. Zhang, Q. Jin, D. X. Zhang, Y. H. Lei, Q. H. Jin, *Fresenius' J. Anal. Chem.*, **357**, 384 (1997).
3882. Flow-injection analysis with amperometric detection for measurements of proton activities in solutions of strong acids and strong bases  
A. D. Dakashev, *Fresenius' J. Anal. Chem.*, **357**, 392 (1997).
3883. Two-step solvent extraction flow injection system for the determination of anionic surfactants by spectrophotometry  
S. H. Fan, Z. L. Fang, *Fresenius' J. Anal. Chem.*, **357**, 416 (1997).
3884. Determination of mercury(II) traces in drinking water by inhibition of an urease reactor in a flow injection analysis (FIA) system  
R. B. Shi, K. Stein, G. Schwedt, *Fresenius' J. Anal. Chem.*, **357**, 752 (1997).
3885. Enzymatic interference-free assay for oxalate in urine  
P. Canizares, M. D. L. Decastro, *Fresenius' J. Anal. Chem.*, **357**, 777 (1997).
3886. Flow injection atomic absorption spectrometry for the standardization of arsenic, lead and mercury in environmental and biological standard reference materials  
G. Samanta, D. Chakraborti, *Fresenius' J. Anal. Chem.*, **357**, 827 (1997).
3887. Selenium determination by HG-ICPAES-elimination of iron interferences by means of an ion-exchange resin in a continuous flow system  
L. D. Martinez, M. Baucells, E. Pelfort, M. Roura, R. Olsina, *Fresenius' J. Anal. Chem.*, **357**, 850 (1997).
3888. Flow analysis preconcentration of Mg and Zn using emulsions for flame atomic absorption spectrometry  
T. Yokoyama, T. Watarai, T. Uehara, K. Mizuoka, K. Kohara, M. Kido, M. Zenki, *Fresenius' J. Anal. Chem.*, **357**, 860 (1997).
3889. Flow injection determination of anionic polyelectrolytes using an anionic surfactant-selective plasticized poly(vinyl chloride) membrane electrode detector  
T. Masadome, T. Imato, S. Itoh, Y. Asano, *Fresenius' J. Anal. Chem.*, **357**, 901 (1997).
3890. Spectrophotometric flow injection determination of trace iodide in table salt and laver through the reaction of iodate with 3,5-Br-2-PADAP and thiocyanate  
J. Y. Sun, X. G. Chen, Z. D. Hu, *Fresenius' J. Anal. Chem.*, **357**, 1002 (1997).
3891. Aluminum binding to humic substances determined by high performance cation exchange chromatography  
S. H. Sutheimer, S. E. Cabaniss, *Geochimica et Cosmochimica Acta*, **61**, 1 (1997).
3892. Flow injection spectrophotometric determination of ultra trace amounts of selenium(IV)  
A. A. Ensafi, *Indian Journal of Chemistry Section A-Inorganic Bio-Inorganic Physical Theoretical & Analytical Chemistry*, **36**, 105 (1997).
3893. Simultaneous determination of ionic species by sequential injection analysis using a sandwich technique with large sample volumes  
J. M. Estela, A. Cladera, A. Munoz, V. Cerda, *International Journal of Environmental Analytical Chemistry*, **64**, 205 (1996).

3894. Flow-injection analysis thermospray tandem mass spectrometry of triazine herbicides and some of their degradation products in surface water  
R. B. Geerdink, P. J. Berg, P. G. M. Kienhuis, W. M. A. Niessen, U. A. T. Brinkman, *International Journal of Environmental Analytical Chemistry*, **64**, 265 (1996).
3895. Assement of airborne ammonia in swine forming environment by the fluorimetric enzyme method  
P. Subramanian, S. Reynolds, P. S. Thorne, K. Donham, J. Stookesberry, K. Thu, *International Journal of Environmental Analytical Chemistry*, **64**, 301 (1996).
3896. Immunochemical techniques and immunosensors for the analysis of dealkylated degradation products of atrazine  
C. Wittmann, *International Journal of Environmental Analytical Chemistry*, **65**, 113 (1996).
3897. Immunobilized enzyme-based microtiter plate assay for glucose in foods  
H. Ukeda, Y. Fujita, M. Ohira, M. Sawamura, *J. Agric. Food Chem.*, **44**, 3858 (1996).
3898. Determination of imazethapyr using capillary column flow injection liposome immunoanalysis  
M. Lee, R. A. Durst, *J. Agric. Food Chem.*, **44**, 4032 (1996).
3899. Flow injection determination of sodium, potassium, calcium, and magnesium in beer by flame emission and atomic absorption spectrometry  
S. M. V. Fernandes, A. O. S. S. Rangel, J. L. F. C. Lima, *J. Agric. Food Chem.*, **45**, 1269 (1997).
3900. Risk management in allergen immunotherapy  
D. K. Greineder, *Journal of Allergy & Clinical Immunology*, **98**, S 330 (1996).
3901. Evaluation of controlled-pore glass immobilized iminodiacetate as a reagent for automated on-line matrix separation for inductively coupled plasma mass spectrometry  
S. M. Nelms, G. M. Greenway, D. Koller, *J. Anal. At. Spectrom.*, **11**, 907 (1996).
3902. Comparison of systems for eliminating interferences in the determination of arsenic and antimony by hydride generation inductively coupled plasma atomic emission spectrometry  
A. Risnes, W. Lund, *J. Anal. At. Spectrom.*, **11**, 943 (1996).
3903. Thermally stabilized iridium on an integrated, carbide-coated platform as a permanent modifier for hydride-forming elements in electrothermal atomic absorption spectrometry.3.effect of l-cysteine  
D. L. Tsalev, A. Dulivo, L. Lampugnani, M. Dimarco, R. Zamboni, *J. Anal. At. Spectrom.*, **11**, 989 (1996).
3904. Waste reduction in inductively coupled plasma mass spectrometry using flow injection and a direct injection nebulizer(VOL 11, PG 525, 1996)  
J. S. Crain, J. T. Kiely, *J. Anal. At. Spectrom.*, **11**, 1007 (1996).
3905. Speciation of inorganic selenium by inductively coupled plasma mass spectrometry with hydraulic high pressure nebulization  
N. Jakubowski, C. Thomas, D. Stuewer, I. Detlaff, J. Schram, *J. Anal. At. Spectrom.*, **11**, 1023 (1996).
3906. Study of the application of air-water flow injection inductivity coupled plasma mass spectrometry for the determination of calcium in steels  
A. G. Coedo, M. T. Dorado, I. Padilla, F. J. Alguacil, *J. Anal. At. Spectrom.*, **11**, 1037 (1996).
3907. Use of flow injection cold vapour generation and preconcentration on coated graphite tubes for the determination of cadmium in sea-water by electrochemical atomic absorption spectrometry  
P. Bermejobarrera, J. Moredapinciro, A. Moredapinciro, A. Bermejobarrera, *J. Anal. At. Spectrom.*, **11**, 1081 (1996).
3908. Gas-liquid separator for automated hydride generation and atomic absorption spectrometry  
F. Laborda, M. T. Gomez, M. S. Jimenez, J. M. Mir, J. R. Castillo, *J. Anal. At. Spectrom.*, **11**, 1121 (1996).
3909. Speciation of inorganic selenium and selenoaminoacids by on-line reversed-phase high-performance liquid chromatography focused microwave digestion hydride generation atomic detection  
J. M. G. Lafuente, M. L. F. Sanchez, A. Sanzmedel, *J. Anal. At. Spectrom.*, **11**, 1163 (1996).

3910. Determination of total mercury in sediments by microwave-assisted digestion-flow injection-inductively coupled plasma mass spectrometry  
A. Wolter, H. Garraud, F. Martin, O. F. X. Donard, P. Fodor, *J. Anal. At. Spectrom.*, **12**, 53 (1997).
3911. Determination of arsenic in airborne particulate matter by inductively coupled plasma mass spectrometry  
C. F. Wang, S. L. Jeng, F. J. Shieh, *J. Anal. At. Spectrom.*, **12**, 61 (1997).
3912. Characterization of an ultrasonic nebulizer membrane separation interface with inductively coupled plasma mass spectrometry for the determination of trace elements by solvent extraction-invited lecture  
I. B. Brenner, A. Zander, M. Plantz, J. Zhu, *J. Anal. At. Spectrom.*, **12**, 273 (1997).
3913. Use of flow injection cold vapour generation and preconcentration on coated graphite tubes for the determination of mercury in polluted seawaters by electrothermal atomic absorption spectrometry  
P. Bermejobarrera, J. Moredapineiro, A. Moredapineiro, A. Bermejobarrera, *J. Anal. At. Spectrom.*, **12**, 317 (1997).
3914. Use of extraction chromatography for chromium preconcentration in flow-injection analysis  
M. F. Grigoreva, Y. G. Murzina, A. V. Kalyamin, *J. Anal. Chem.*, **51**, 953 (1996).
3915. Reversed flow-injection photometric analysis for the monitoring of dissolved oxygen in water  
V. V. Kuznetsov, M. V. Murasheva, *J. Anal. Chem.*, **51**, 993 (1996).
3916. Flow-injection analysis of natural waters with a chloride-selective electrode  
Y. G. Vlasov, Y. E. Ermolenko, I. A. Popov, S. Y. Elmarug, V. G. Khoroshev, V. V. Kolodnikov, *J. Anal. Chem.*, **52**, 81 (1997).
3917. Solid-phase extraction cleanup for determining ascorbic acid and dehydroascorbic acid by titration with 2,6-dichlorophenolindophenol  
K. K. Verma, A. Jain, B. Sahasrabuddhey, K. Gupta, S. Mishra, *Journal of AOAC International*, **79**, 1236 (1996).
3918. Flow analysis determination of iodide at nanogram levels in water  
C. K. Chandrawanshi, S. K. Chandrawanshi, K. S. Patel, *J. Autom. Chem.*, **18**, 181 (1996).
3919. Automatic determination of mercury in samples of environmental interest  
M. C. Canela, W. F. Jardim, J. J. R. Rohwedder, *J. Autom. Chem.*, **18**, 193 (1996).
3920. Technical note - using fims to determine mercury content in sewage sludge, sediment and soil samples  
T. Z. Guo, J. Baasner, *J. Autom. Chem.*, **18**, 221 (1996).
3921. Improvement of the production of subtilisin carlsberg alkaline protease by bacillus licheniformis by on-line process monitoring and control in a stirred tank reactor  
A. B. Vanputten, F. Spitsenberger, G. Kretzmer, B. Hitzman, M. Dors, R. Simutis, K. Schugerl, *Journal of Biotechnology*, **49**, 83 (1996).
3922. High speed centrifugal separator for rapid on-line sample clarification in biotechnology  
P. Richardson, J. Molloy, R. Ravenhall, I. Holwill, M. Hoare, P. Dunnill, *Journal of Biotechnology*, **49**, 111 (1996).
3923. Analysis of various sugars by means of immobilized enzyme coupled flow injection analysis  
B. Weigel, B. Hitzmann, G. Kretzmer, K. Schugerl, A. Huwig, F. Giffhorn, *Journal of Biotechnology*, **50**, 93 (1996).
3924. On-line simultaneous monitoring of ammonia and glutamine in a hollow-fiber reactor using flow injection analysis  
T. S. Stoll, P. A. Ruffieux, M. Schneider, U. Vonstockar, I. W. Marison, *Journal of Biotechnology*, **51**, 27 (1996).
3925. Development of an on-line control system for the cultivation of animal cells in a hollow-fiber reactor using flow injection analysis and a visual programming language  
T. S. Stoll, P. A. Ruffieux, U. Vonstockar, I. W. Marison, *Journal of Biotechnology*, **51**, 37 (1996).
3926. A method for screening potential antioxidant activity

- T. Nishida, R. Matsukawa, K. Masaki, Z. Dubinsky, I. Karube, *Journal of Biotechnology*, **51**, 149, (1996).
3927. Bioprocess automation and bioprocess design  
B. Sonnleitner, *Journal of Biotechnology*, **52**, 175 (1997).
3928. Ionic strength effect on the rate of reduction of hexacyanoferrate(III) by ascorbic acid-a flow injection kinetic experiment  
J. A. Nobrega, F. R. P. Rocha, *Journal of Chemical Education*, **74**, 560 (1997).
3929. Simultaneous on-line monitoring of glucose and total malto sugar in fermentation processes using an FIA system  
E. F. Umoh, A. B. Vonputten, K. Schugerl, *Journal of Chemical Technology & Biotechnology*, **67**, 276 (1996).
3930. Comparison of two enzyme sequences for a novel L-malate biosensor  
N. Gajovic, A. Warsinke, F. W. Scheller, *Journal of Chemical Technology & Biotechnology*, **68**, 31 (1997).
3931. Comparative investigation of UV, electrochemical and particle beam mass spectrometric detection for the high-performance liquid chromatographic determination of benzoic and cinnamic acids and of their corresponding phenolic acids  
C. Bocchi, M. Careri, F. Groppi, A. Mangia, P. Manini, G. Mori, *J. Chromatogr.*, **753**, 157 (1996).
3932. Determination of staphylococcal enterotoxin B by on-line (micro) liquid chromatography-electrospray mass spectrometry  
C. E. Kientz, A. G. Hulst, E. R. J. Wils, *J. Chromatogr.*, **757**, 51 (1997).
3933. Potentiometric detection of aliphatic amines by flow injection analysis and ion-interaction chromatography with a metallic copper electrode  
Z. L. Chen, P. W. Alexander, *J. Chromatogr.*, **758**, 227 (1997).
3934. Gas chromatographic determination of nitrite in water by precolumn formation of 2-phenylphenol with flame ionization detection  
A. Jain, R. M. Smith, K. K. Verma, *J. Chromatogr.*, **760**, 319 (1997).
3935. Simultaneous determination of nitrite and nitrate anions in plasma, urine and cell culture supernatants by high-performance liquid chromatography with post-column reactions  
M. N. Muscara, G. Denucci, *J. Chromatogr. B*, **686**, 157 (1996).
3936. Optimization of HPLC detection for acridinium ester-labeled antibodies  
W. S. Reiter, D. S. Hage, *Journal of Clinical Ligand Assay*, **19**, 246 (1996).
3937. XPS study and electrochemical behaviour of the nickel hexacyanoferrate film electrode upon treatment in alkaline solutions  
T. R. I. Cataldi, R. Guascito, A. M. Salvi, *Journal of Electroanalytical Chemistry*, **417**, 83 (1996).
3938. A new amperometric biosensor for fructose using a carbon paste electrode modified with silica gel coated with meldonias blue and fructose 5-dehydrogenase  
C. A. B. Garcia, G. D. Neto, L. T. Kubota, L. A. Grandin, *Journal of Electroanalytical Chemistry*, **418**, 147 (1996).
3939. Colominic acid production from escherichia coli in a FED-batch culture under the control of ammonium ions using an FIA system  
H. Honda, T. Nakazeko, K. Ogiso, Y. Kawase, N. Aoki, M. Kawase, T. Kobayashi, *Journal of Fermentation & Bioengineering*, **83**, 59 (1997).
3940. Flow injection analysis of surfactants  
T. Masadome, T. Imato, *J. Flow Injection Anal.*, **13**, 120 (1996).
3941. Flow injection analysis of cyanide using immobilized enzyme  
T. Deguchi, K. Fukaura, S. Norimatsu, S. Minami, A. Tanaka, I. Sanemasa, *J. Flow Injection Anal.*, **13**, 138 (1996).
3942. Application of sequential injection-wetting film extraction to the photometric determination of vanadium(IV)

- and vanadium(V)  
S. Nakano, Y. Luo, D. A. Holman, J. Ruzicka, G. D. Chirstian, *J. Flow Injection Anal.*, **13**, 148 (1996).
3943. Influence of the light-path of the flow cell on the spectrophotometric measurements in an FIA assembly  
M. C. Icaardo, C. G. Benito, A. M. Romero, J. M. Calatayud, *J. Flow Injection Anal.*, **13**, 160 (1996).
3944. Determination of cobalt in sea water by flow injection analysis  
K. Oguma, *J. Flow Injection Anal.*, **13**, 168 (1996).
3945. Portable battery-powered flow injection analyser  
N. Teshima, *J. Flow Injection Anal.*, **13**, 169 (1996).
3946. Competitive flow injection enzyme immunoassay for steroids using a post-column reaction technique  
K. Kronqvist, U. Lovgren, J. Svenson, L. E. Edholm, G. Johansson, *Journal of Immunological Methods*, **200**, 145 (1997).
3947. Assessment of affinity constants by rapid solid phase detection of equilibrium binding in a flow system  
J. Piebler, A. Brecht, T. Giersch, B. Hock, G. Gauglitz, *Journal of Immunological Methods*, **201**, 189 (1997).
3948. Quantitative analysis of debranched amylopectin by HPAEC-PAD with a postcolumn enzyme reactor  
K. S. Wong, J. Jane, *Journal of Liquid Chromatography & Related Technologies*, **20**, 297 (1997).
3949. Morphine determination by HPLC with improved chemiluminescence detection using a conventional silica based column  
E. Amiott, A. R. J. Andrews, *Journal of Liquid Chromatography & Related Technologies*, **20**, 311 (1997).
3950. Identification of carbamates by particle beam mass spectrometry  
J. Slobodnik, M. E. Jager, S. J. F. Hoekstraoussoren, M. Honing, B. L. M. Vanbaar, U. A. T. Brinkman, *Journal of Mass Spectrometry*, **32**, 43 (1997).
3951. Transport of some nitrogen heterocyclic and aromatic compounds through metal ion containing nafion ionomer membrane  
J. Ramkumar, B. Maiti, T. S. Krishnamoorthy, *Journal of Membrane Science*, **125**, 269 (1997).
3952. Flow-injection fluorimetric determination of penicillamine and tiopronin in pharmaceutical preparations  
T. P. Ruiz, C. Martinezlozano, V. Tomas, C. S. Decardona, *Journal of Pharmaceutical & Biomedical Analysis*, **15**, 33 (1996).
3953. Drug substance manufacture process control-application of flow injection analysis and HPLC for monitoring an enantiospecific synthesis  
K. Chong, T. Loughlin, C. Moeder, H. J. Perpall, R. Thompson, N. Grinberg, G. B. Smith, M. Bhupathy, G. Bicker, *Journal of Pharmaceutical & Biomedical Analysis*, **15**, 111 (1996).
3954. Development and validation of flow-injection method for the determination of albumin tannate, the active component of a pharmaceutical preparation  
L. G. Gracia, M. D. L. Decastro, *Journal of Pharmaceutical & Biomedical Analysis*, **15**, 447, (1997).
3955. Flow-injection spectrophotometric determination of frusemide or sulphathiazole in pharmaceuticals  
M. S. Garcia, C. Sanchezpedreno, M. I. Albero, V. Rodenas, *Journal of Pharmaceutical & Biomedical Analysis*, **15**, 453 (1997).
3956. Investigation of a new amoxicillin sodium impurity unstable in solution  
L. Valvo, S. Alimonti, R. Alimenti, C. Desena, E. C. Signoretti, R. Draisci, L. Giannetti, *Journal Pharmaceutical & Biomedical Analysis*, **15**, 487 (1997).
3957. Functionalization of gold surfaces for specific and reversible attachment of a fused beta-galactosidase and choline-receptor protein  
J. Madoz, B. A. Kuznetsov, F. J. Medrano, J. L. Garcia, V. M. Fernandez, *Journal of the American Chemical Society*, **119**, 1043 (1997).
3958. Application of a hexa-electrode electrochemical detector for flow injection analysis  
M. C. Chen, H. J. Huang, *Journal of the Chinese Chemical Society*, **43**, 387 (1996).

3959. Platinization latinization of shapable electroconductive polymer film for an improved glucose sensor  
G. F. Khan, W. Wernet, *Journal of the Electrochemical Society*, **143**, 3336 (1996).
3960. Manganese levels in serum of healthy venezuelan infants living in merida  
O. M. Alarcon, J. A. Reinosafuller, T. Silva, M. R. Defernandez, J. Gamboa, *Journal of Trace Elements in Medicine & Biology*, **10**, 210 (1996).
3961. The automatic kinetic spectrophotometric assay for laccase activity using o-phenylenediamine  
H. P. Huang, R. X. Cai, Y. M. Du, Y. Zeng, *Laboratory Robotics & Automation*, **8**, 231 (1996).
3962. Two new parameters - axial dispersion degree and radial dispersion intensity of sample zone injected in flow-injection analysis systems  
Y. S. Li, X. F. Gao, *Laboratory Robotics & Automation*, **8**, 351 (1996).
3963. Liquid extraction techniques for sample preparation  
R. E. Majors, *LC GC-Magazine of Separation Science*, **14**, 936 ff. (1996).
3964. Determination of Cr(VI) by flame atomic absorption spectrometry combined with flow-injection on-line sorption preconcentration  
A. Gaspar, J. Posta, *Magyar Kemiai Folyoirat*, **102**, 503 (1996).
3965. Instrumental and analytical method for the determination of lead traces with atomic absorption measurements in a contiflow system  
L. Papp, *Magyar Kemiai Folyoirat*, **102**, 542 (1996).
3966. Optimization of flow injection on-line microcolumn preconcentration of ultratrace elements in environmental samples prior to their spectrochemical determination  
Z. Horvath, A. Laszity, K. Zihperenyi, A. Levai, *Microchem. J.*, **54**, 391 (1996).
3967. Determination of Cd, Co, Cu, Mn, Ni, Pb and Zn by inductively coupled plasma mass spectroscopy or flame atomic absorption spectrometry after on-line preconcentration and solvent extraction by flow injection system  
A. Bortoli, M. Gerotto, M. Marchiori, F. Mariconti, M. Palonta, A. Troncon, *Microchem. J.*, **54**, 402 (1996).
3968. Catalytic electrooxidation of NADH for dehydrogenase amperometric biosensors  
I. Katakis, E. Dominguez, *Mikrochim. Acta*, **126**, 11 (1997).
3969. Indirect flow-injection determination of ascorbic acid by flame atomic absorption spectrometry  
M. D. Yebrabiurrun, R. M. Cesponromero, P. Bermejobarrera, *Mikrochim. Acta*, **126**, 53 (1997).
3970. FIA-fluorimetric assembly for the determination of noradrenaline hydrochloride by a solid-phase reactor with immobilized hexacyanoferrate(III)  
S. L. Ortiz, G. A. Rivas, J. M. Calatayud, *Mikrochim. Acta*, **126**, 69 (1997).
3971. KMnO<sub>4</sub>-OP chemiluminescence system for FIA determination of hydrogen peroxide  
M. L. Feng, Z. Li, J. R. Lu, H. L. Jiang, *Mikrochim. Acta*, **126**, 73 (1997).
3972. Plastic membrane electrodes for the potentiometric determination of codeine in pharmaceutical preparations  
E. M. Elnemma, M. A. Hamada, *Mikrochim. Acta*, **126**, 147 (1997).
3973. An update of analytical procedures for the determination of malt modification and malt homogeneity .4  
M. Moll, *Monatsschrift fur Brauwissenschaft*, **50**, 12 (1997).
3974. Adsorption-desorption studies of nitriles at a hanging mercury drop electrode  
H. Sawamoto, *Nippon Kagaku Kaishi*, **1996**, 958 (1996).
3975. Computerized continuous monitoring and analysis of ozone in solution  
A. Kerc, A. M. Saatci, *Ozone-Science & Engineering*, **18**, 469 (1996).
3976. An improved flow injection method for the assay of phenothiazine neuroleptics in pharmaceutical preparations using Fe(III) ions  
J. Karpinska, A. Kojlo, A. Grudniewska, H. Puzanowskatarasiewicz, *Pharmazie*, **51**, 950 (1996).
3977. Numerical analysis of injection molding of glass fiber reinforced thermoplastics .1. injection pressures and flow

- J. P. Greene, J. O. Wilkes, *Polymer Engineering & Science*, **37**, 590 (1997).
3978. Process monitoring during electrochemical production of polysulfides by on-line FIA using a capillary flow-through cell  
X. S. Chai, L. G. Danielsson, *Process Control & Quality*, **8**, 159 (1996).
3979. Determination of total ammonia and carbon dioxide in liquors from the caron process for nickel extraction  
F. Albertus, I. Cortes, L. G. Danielsson, F. Ingman, *Process Control & Quality*, **8**, 185 (1996).
3980. A high-reynolds-number cross-flow with injection and suction  
A. D. Fitt, T. R. B. Lattimer, *Quarterly Journal of Mechanics & Applied Mathematics*, **50**, 47 (1997).
3981. Vascular air embolism-location, frequency, and cause on electron-beam CT studies of the chest  
R. Groell, G. J. Schaffler, R. Rienmueller, R. Kern, *Radiology*, **202**, 459 (1997).
3982. Membrane introduction mass spectrometry in a pilot plant-on-line monitoring of fermentation broths  
R. C. Johnson, N. Srinivasan, R. G. Cooks, D. Schell, *Rapid Communications in Mass Spectrometry*, **11**, 363 (1997).
- 
3983. Rapid scanning technique for the determination of optimal tandem mass spectrometric conditions for quantitative analysis  
D. L. Hiller, T. J. Zuzel, J. A. Williams, R. O. Cole, *Rapid Communications in Mass Spectrometry*, **11**, 593 (1997).
3984. A spectrophotometric method for the determination of nitrites in waste waters,by stopped-flow injection analysis  
A. F. Danet, M. Cheregi, R. Ghenea, M. Mutuliga, *Revista de Chimie*, **47**, 1073 (1996).
3985. A microbioreactor based on interfacial polymerisation and application to flow injection analysis of glucose  
M. Son, F. Peddie, D. Mulcahy, D. Davey, M. R. Haskard, *Sensors & Actuators B-Chemical*, **34**, 422 (1996).
3986. A miniaturized ISFET-ELISA system with a pretreated fused silica capillary as reaction cartridge  
E. Yacoubgeorge, H. Wolf, S. Koch, P. Woias, *Sensors & Actuators B-Chemical*, **34**, 429 (1996).
3987. A study of factors influencing the mass transfer efficiency across passive membranes in flow injection systems  
J. F. Vanstaden, C. J. Hattingh, *South African Journal of Chemistry-Suid-Afrikaanse Tydskrif vir Chemie*, **49**, 47 (1996).
3988. Tandem (hyphenated or coupled) flow injection systems-a new dimension in flow injection analysis  
J. F. Vanstaden, *South African Journal of Chemistry-Suid-Afrikaanse Tydskrif vir Chemie*, **49**, 53 (1996).
3989. Flow injection analysis - state of the art applied to atomic spectroscopy - foreword  
J. Tyson, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, R 7 (1996).
3990. Dispersion of discrete sample signals within aerosol spray chambers - preliminary investigations  
J. A. Koropchak, S. Sadain, B. Szostek, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1733 (1996).
3991. Extension of the dynamic range of flame atomic absorption spectrometry using flow injection analysis with variable-volume dilution chambers  
H. Elazouzi, M. Y. Perezjordan, A. Salvador, M. Delaguardia, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1747 (1996).
3992. Development of transient data acquisition system for hyphenated techniques coupled with inductively coupled plasma atomic emission spectrometry  
X. R. Wang, Z. X. Zhuang, C. L. Yang, P. Y. Yang, X. M. Yan, J. M. Lin, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1753 (1996).
3993. Design and application of a new phase separator for flow injection liquid-liquid extraction  
S. L. Lin, S. A. Qin, H. O. Qiu, Z. Y. Tang, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1769 (1996).
3994. A comparison of gas-liquid separators for the determination of mercury by cold-vapour sequential injection atomic absorption spectrometry

- I. D. Brindle, S. G. Zheng, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1777 (1996).
3995. First order speciation of As using flow injection hydride generation atomic absorption spectrometry with in-situ trapping of the arsine in a graphite furnace  
S. N. Willie, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1781 (1996).
3996. Flow injection method for the rapid determination of chemical oxygen demand based on microwave digestion and chromium speciation in flame atomic absorption spectrometry  
A. Cuesta, J. L. Todoli, A. Canals, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1791 (1996).
3997. Determination of As, Sb, Bi and Hg in water samples by flow-injection inductively coupled plasma mass spectrometry with an in-situ nebulizer/hydride generator  
C. S. Chen, S. J. Jiang, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1813 (1996).
3998. Determination of arsenic in gold by flow injection inductively coupled plasma mass spectrometry with matrix removal by reductive precipitation  
P. Bechtelhaigh, J. F. Tyson, E. Denoyer, M. W. Hinds, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1823 (1996).
3999. Determination of tin in steels by non-dispersive atomic fluorescence spectrometry coupled with flow-injection hydride generation in the presence of L-cysteine  
H. W. Chen, W. Yao, D. X. Wu, I. D. Brindle, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1829 (1996).
4000. Flow injection for the determination of Se(IV) and Se(VI) by hydride generation atomic absorption spectrometry with microwave oven on-line prereduction of Se(VI) to Se(IV)  
J. L. Burguera, P. Carrero, M. Burguera, C. Rondon, M. R. Brunetto, M. Gallignani, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1837 (1996).
4001. Use of a surfactant in the determination of arsenic by flow injection hydride generation atomic absorption spectrometry  
R. I. Ellis, J. F. Tyson, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1859 (1996).
4002. Determination of total mercury in environmental and biological samples by flow injection cold vapour atomic absorption spectrometry  
J. Murphy, P. Jones, S. J. Hill, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1867 (1996).
4003. Electrothermal atomic absorption spectrometric determination of lead in high-purity reagents with flow-injection on-line microcolumn preconcentration and separation using a macrocycle immobilized silica gel sorbent  
M. Sperling, X. P. Yan, B. Welz, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1875 (1996).
4004. Investigation of on-line coupling electrothermal atomic absorption spectrometry with flow injection sorption preconcentration using a knotted reactor for totally automatic determination of lead in water samples  
M. Sperling, X. P. Yan, B. Welz, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1891 (1996).
4005. A comparison of preconcentration reagents for flow injection analysis flame atomic spectrometry  
G. M. Greenway, S. M. Nelms, I. Skhosana, S. J. L. Dolman, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1909 (1996).
4006. Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of cadmium, copper and lead by flame atomic absorption spectrometry  
R. L. Ma, F. Adams, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1917 (1996).
4007. Separation and preconcentration by flow injection coupled to tungsten coil electrothermal atomic absorption spectrometry  
M. M. Silva, F. J. Krug, P. V. Oliveira, J. A. Nobrega, B. F. Reis, D. A. G. Penteado, *Spectrochimica Acta Part B-Atomic Spectroscopy*, **51**, 1925 (1996).
4008. Flow-injection analysis for hypoxanthine in meat with dissolved oxygen detector and enzyme reactor  
M. Numata, N. Funazaki, S. Ito, Y. Asano, Y. Yano, *Talanta*, **43**, 2053 (1996).

4009. Determination of L-phenylalanine in serum by flow-injection analysis using immobilized phenylalanine dehydrogenase and fluorimetric detection  
N. Kiba, A. Itagaki, M. Furusawa, *Talanta*, **44**, 131 (1997).
4010. Spectrophotometric determination of a nanomolar amount of ascorbic acid using its catalytic effect on copper(II) porphyrin formation  
M. Tabata, H. Morita, *Talanta*, **44**, 151 (1997).
4011. Investigation of HFO<sup>+</sup> interference in the determination of platinum in a catalytic converter (cordierite) by inductively coupled plasma mass spectrometry  
M. Parent, H. Vanhoe, L. Moens, R. Dams, *Talanta*, **44**, 221 (1997).
4012. Amperometric detection of amines using cobalt electrodes after separation by ion-moderated partition chromatography  
A. Hidayat, D. B. Hibbert, P. W. Alexander, *Talanta*, **44**, 239 (1997).
4013. Determination of nanogram levels of zirconium by chelating ion exchange and on-line preconcentration in flow injection UV-visible spectrophotometry  
R. Purohit, S. Devi, *Talanta*, **44**, 319 (1997).
4014. Evaluation of perchlorate tolerant photo-cured calcium selective electrodes for use in flow injection potentiometry  
L. T. Dibenedetto, T. Dimitrakopoulos, J. R. Farrell, P. J. Iles, *Talanta*, **44**, 349 (1997).
4015. Inhibition of the enzyme phosphoenolpyruvate-carboxylase (PEPC) by different pollutants  
K. Stein, G. Ohlenbusch, *Talanta*, **44**, 475 (1997).
4016. Novel flow injection channel flow cell for the investigation of processes at solid-liquid interfaces .1. theory  
J. J. Gooding, B. A. Coles, R. G. Compton, *The Journal of Physical Chemistry B*, **101**, 175 (1997).
4017. Novel flow injection channel flow cell for the investigation of processes at solid-liquid interfaces .2. experiment  
J. J. Gooding, C. M. Brennan, J. H. Atherton, B. A. Coles, R. G. Compton, *The Journal of Physical Chemistry B*, **101**, 182 (1997).
4018. Fabrication of a multilayer film containing cobalt phthalocyanine on the surface of a gold electrode based on electrostatic interaction and its application as an amperometric sensor of hydrazine  
C. Q. Sun, Y. P. Sun, X. Zhang, X. Y. Zhang, D. Jiang, Q. Gao, H. D. Xu, J. C. Shen, *Thin Solid Films*, **288**, 291 (1996).
4019. Analytical chemistry in a drop  
H. H. Liu, P. K. Dasgupta, *TRAC-Trends in Analytical Chemistry*, **15**, 468 (1996).
4020. Flow injection analysis  
G. D. Christian, *TRAC-Trends in Analytical Chemistry*, **16**, R 6 (1997).
4021. Automation of selective assays for on-line bioprocess monitoring by flow-injection analysis  
J. J. Vanderpol, C. D. Degooijer, M. Biselli, C. Wandrey, J. Tramper, *Trends in Biotechnology*, **14**, 471 (1996).
4022. Applications of flow injection analysis to analytical biotechnology  
P. J. Keay, Y. Wang, *Trends in Biotechnology*, **15**, 76 (1997).
4023. Analytical applications of organic conducting polymer electrodes  
N. F. Atta, G. C. Russell, Z. Wang, N. Akmal, J. F. Rubinson, S. K. Lunsford, E. Karagozler, O. Y. Ataman, H. Zimmer, H. B. Mark, A. Galal, *Turkish Journal of Chemistry*, **21**, 21 (1997).
4024. Selective determination of non-biodegradable polar, organic pollutants in waste water related to functional groups using flow injection combined with tandem mass spectrometry  
H. F. Schroder, *Water Science & Technology*, **34**, 21 (1996).
4025. Production of L-glutamate oxidase by streptomyces sp n1 in submerged fermentation  
Q. S. Li, J. J. Zhong, *World Journal of Microbiology & Biotechnology*, **12**, 651 (1996).

4026. Spectrophotometric determination of glucose in foods by flow injection analysis with an immobilized glucose oxidase reactor  
K. Stein, G. Schwedt, R. Shi, *Zeitschrift für Lebensmittel-Untersuchung und-Forschung A-Food Research & Technology*, **204**, 99 (1997).

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