

## FIA Bibliography(24)

Akira TANAKA, Kumamoto University

FIA-related papers and monographs which appeared since 1994 have been compiled in this bibliography. All papers are numbered in series and shown with the titles in English.

### 3160.FIA Bibliography(23)

A. Tanaka, *J. Flow Injection Anal.*, **12**, 104 (1995).

3161.Development of an analysis instrument for convection-diffusion phenomena of the sample solute in capillary flow systems

T. Korenaga, *Bunseki*, **1995**, 145.

3162.Flow-injection analysis: leaving its teen-years and maturing. A personal reminiscence of its conception and early development

E. H. Hansen, *Anal. Chim. Acta*, **308**, 3 (1995).

3163.Efficiency and response studies on gas diffusion manifolds in flow-injection systems  
R. Tryzell, B. Karlberg, *Anal. Chim. Acta*, **308**, 206 (1995).

3164.Flow injective determination of thiourea by amperometry

J.-W. Lee, S.-I. Mho, C. H. Pyun, I.-H. Yeo,  
*Bull. Korean Chem. Soc.*, **15**, 1038 (1994).

3165.Determination of inorganic arsenic in urine by continuous hydride generation atomic absorption spectrometry

H. Michitsuji, A. Ohara, K. Yamaguchi, Y. Fujiki,  
*Shojinkai Igakushi*, **33**, 79(1994).

3166.Chemically amplified flow-injection analysis of polyphenolic compounds using immobilized-tyrosinase reactor and L-ascorbic acid, based on substrate recycling  
Y.Hasebe, S.Uchiyama, *Saitama Kogyo Daigaku Kiyo*, **3**, 29 (1994).

3167.Elemental analysis of sample containing high concentrations of salts by FIA-ICP-MS

T. Etoh, K.Tsuchiya, M.Matsubara, *Kankyo Kagaku*, **4**, 390 (1994).

3168.Application of photochemical reactions in flow injection system. III. Determination of nitrite, nitrate and iron by Methyl Orange photochemical reaction system

R. Liu, D. Liu, G. Liu, A. Sun, Z. Zhang, *Fenxi Huaxue*, **22**, 1241 (1994).

3169.Determination of volatile organic compounds at the parts per trillion level in complex aqueous matrixes using membrane introduction mass spectrometry

S. Bauer, D. Solyom, *Anal. Chem.*, **66**, 4422 (1994).

3170.Analysis of amines by chemiluminescence using sulforhodamine and peroxalate ester

M. Katayama, *Meiji Yakka Daigaku Kenkyu Kiyo*, **24**, 43 (1994).

- 3171.Determination of aluminum in tap water and environmental waters by flow injection analysis  
J. Kobayashi, M. Miyazaki, *Hokuriku Koshu Eisei Gakkaishi*, **21**, 51 (1994).
- 3172.Evaluation of a polarographic flow detector for environmental monitoring  
A. Yamada, K. Hodouchi, Y. Kataoka, H. Iketake, H. Matsubara,  
*Bunseki Kagaku*, **43**, 859 (1994).
- 3173.Flow-injection spectrophotometric determination of acids and bases  
F. Albertus, I. Cortes, F. Ingman, L. G. Danielsson,  
*Quim. Anal.(Barcelona)*, **13**, 200 (1994).
- 3174.Simultaneous determination of dyes and hydrosulfite in indigo dyebath by FIA  
Y. Maeshima, T. Inui, A. Ishihara, H. Kino,  
*Shizuoka-ken Hamamatsu Kogyo Gijutsu Senta Kenkyu Hokoku*, **4**, 1 (1994).
- 3175.Use of the reaction of iron(II) complexonate with nitrate ions for the kinetic determination of selenium(IV) by flow-injection analysis  
G. K. Budnikov, I. M. Fitsev, F. F. Sabitova, A. R. Garifzyanov, V. F. Toropova,  
*Zh. Anal. Khim.*, **49**, 1328 (1994).
- 3176.Exploiting flow injection analysis for hydride generation atomic absorption spectrometric assays  
E. H. Hansen, *Egypt. J. Anal. Chem.*, **3**, 68 (1994).
- 3177.Automated cobalt determination in cleaning liquid for zinc-making process  
S. Kotsugai, K. Yamashita, O. Kawakami, Y. Hayashibe, *Kozan*, **47**, 49 (1994).
- 3178.Biosensors and micromachining  
I. Karube, Y. Murakami, K. Yokoyama,  
*Trans. Mater. Res. Soc. Jpn.*, **18A**(Ecomaterials), 45 (1994).
- 3179.Simple and rapid method for determination of aluminum in cement using a flow-injection analysis system  
T. Maruta, S. Yokoyama, Y. Satoh, T. Yamane,  
*Semento, Konkurito Ronbunshu*, **48**, 906 (1994).
- 3180.Simple and rapid method for determination of major component calcium in cement by using flow-injection analysis  
T. Yamane, H. Yamada, T. Maruta, *Semento, Konkurito Ronbunshu*, **48**, 912 (1994).
- 3181.Thiosulfate sensor based on *Thiobacillus thioparus*  
I. Kubo, I. Karube, T. Takeuchi, Y. Arikawa, T. Kanagawa,  
*Trans. Mater. Res. Soc. Jpn.*, **15A**(Biomaterials, Organic and Intelligent Materials), 477 (1994).
- 3182.Flow-injection calorimetry using a column packed with carboxypeptidase A immobilized beads  
I. Satoh,  
*Trans. Mater. Res. Soc. Jpn.*, **15A**(Biomaterials, Organic and Intelligent Materials), 425 (1994).
- 3183.A chemiluminescence reaction analyzer for a supercritical fluid  
M. Ishii, M. Mutoh, T. Nakamura, *Bunseki Kagaku*, **44**, 91 (1995).
- 3184.Selective and sensitive spectrophotometric determination of copper(II) and benzoylperoxide with N-ethyl-2-naphthylamine  
I. Mori, T. Fujimoto, Y. Fujita, T. Matsuo, *Talanta*, **42**, 77 (1995).

- 3185.Determination of micro amounts of phosphorus with Malachite Green using a filtration - dissolution preconcentration method and flow injection - spectrophotometric detection  
J. P. Susanto, M. Oshima, S. Motomizu, H. Mikasa, Y. Hori,  
*Analyst*, **120**, 187 (1995).
- 3186.Configurations of a flow injection system for perfusion studies of adherent cells  
P. J. Baxter, L. Hallgren, C. H. Pollema, M. Trnka, J. Ruzicka,  
*Anal. Chem.*, **67**, 1486 (1995).
- 3187.Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens  
D. A. Palmer, J. N. Miller, *Anal. Chim. Acta*, **303**, 223 (1995).
- 3188.Application of DNA amplification fingerprinting (DAF) to mixed culture bioreactors  
A. Breen, A. F. Rope, D. Taylor, J. C. Loper, P. R. Sferra,  
*J. Ind. Microbiol.*, **14**, 10 (1995).
- 3189.Automatic continuous-flow determination of sulfite in the presence of a high concentration of thiosulfate  
J. S. Cosano, M. D. Luque de Castro, M. Valcarcel,  
*Anal. Chim. Acta*, **302**, 269 (1995).
- 3190.Determination of nickel, cobalt, copper, thorium and uranium in high-purity zinc metal by ICP-MS with online matrix separation  
M. Fukuda, Y. Hayashibe, Y. Sayama, *Anal. Sci.*, **11**, 13 (1995).
- 3191.Enantioselectivity of bovine serum albumin-bonded columns produced with isolated protein fragments  
J. Haginaka, N. Kanasugi, *J. Chromatogr. A*, **694**, 71 (1995).
- 3192.Beyond total element analysis of biological systems with atomic spectrometric techniques  
A. Sanz-Medel, *Analyst*, **120**, 799 (1995).
- 3193.Sensitized determination of sulfite using flow injection with chemiluminescent detection  
D. A. Paulls, A. Townshend, *Analyst*, **120**, 467 (1995).
- 3194.Flow-injection spectrophotometric determination of residual free chlorine and chloramine  
A. Chaurasia, K. K. Verma, *Fresenius' J. Anal. Chem.*, **351**, 335 (1995).
- 3195.Flow injection analysis of oxalate in foods using titanium(IV)-porphyrin reagent  
C. Matsubara, Y. Yokoi, M. Tsuji, K. Takamura, *Anal. Sci.*, **11**, 245 (1995).
- 3196.Microcolumn preconcentration and gas chromatography-microwave induced plasma-atomic emission spectrometry (GC-MIP-AES) for mercury speciation in waters  
M. L. Mena, C. W. McLeod, P. Jones, A. Withers, V. Minganti, R. Capelli, P. Quevauviller, *Fresenius' J. Anal. Chem.*, **351**, 456 (1995).
- 3197.A fully automated flow injection atomic absorption system for the determination of copper traces in waters with online pre-concentration in an ion-exchange column  
J. L. Burguera, M. Burguera, P. Carrero, J. Marcano, C. Rivas, M. R. Brunetto, *J. Autom. Chem.*, **17**, 25 (1995).

- 3198.Spectrophotometric determination of tannin in tanning effluent with a flow injection system  
V. L. Dressler, E. L. Machado, A. F. Martins, *Analyst*, **120**, 1185 (1995).
- 3199.Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer  
J. A. Roussin, J. Li, H. L. Pardue, *Anal. Chim. Acta*, **303**, 199 (1995).
- 3200.Pyoverdin-doped sol-gel glass for the spectrofluorimetric determination of iron(III)  
J. M. Barrero, C. Camara, M. C. Perez-Conde, C. San Jose, L. Fernandez, *Analyst*, **120**, 431 (1995).
- 3201.Fluorescence spectrophotometric determination of trace manganese(II) by optical fiber kinetic method - flow injection analysis with manganese - thiamine - sodium periodate system  
J. Wang, Z. Zhang, *Fenxi Huaxue*, **23**, 299 (1995).
- 3202.In-line, titanium dioxide-catalyzed, ultraviolet mineralization of toxic aromatic compounds in the waste stream from a flow injection - based resorcinol analyzer  
M. de la Guardia, K. D. Khalaf, B. A. Hasan, A. Morales-Rubio, V. Carbonell, *Analyst*, **120**, 231 (1995).
- 3203.Simultaneous structure-activity determination of disulfiram photolysis products by online continuous-flow liquid secondary ion mass spectrometry and enzyme inhibition assay  
L. M. Benson, K. A. Veverka, D. C. Mays, A. N. Nelson, Z. H. Shriver, J. J. Lipsky, S. Naylor, *J. Chromatogr., A*, **693**, 162 (1995).
- 3204.Microfabricated sensor arrays sensitive to pH and K<sup>+</sup> for ionic distribution measurements in the beating heart  
V. V. Cosofret, M. Erdosy, T. A. Johnson, R. P. Buck, R. B. Ash, M. R. Neuman, *Anal. Chem.*, **67**, 1647 (1995).
- 3205.Simultaneous assays of glucose, urate, and cholesterol in blood serum by amperometric flow injection analysis  
T. Yao, M. Satomura, T. Nakahara, *Electroanalysis*, **7**, 143 (1995).
- 3206.Immunosensing with amperometric detection, using galactosidase as label and *p*-aminophenyl-β-D-galactopyranoside as substrate  
M. Masson, Z. Liu, T. Haruyama, E. Kobatake, Y. Ikariyama, M. Aizawa, *Anal. Chim. Acta*, **304**, 353 (1995).
- 3207.Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine  
J. Mohns, W. Kuennencke, *Anal. Chim. Acta*, **305**, 241 (1995).
- 3208.Simple and rapid determination of phosphorus in cement using a flow-injection analysis system  
T. Maruta, S. Yokoyama, Y. Sato, T. Yamane, *Muki Materiaru*, **2**(255), 122 (1995).
- 3209.Automatic calibration for online process monitoring in continuous-flow systems  
M. Agudo, A. Rios, M. Valcarcel, A. Danet, *J. Autom. Chem.*, **17**, 17 (1995).

- 3210.Application of photochemical reactions in a flow injection analysis system. IV.  
Determination of ascorbic acid based on the photochemical reduction of Methylene Blue  
R. Liu, D. Liu, A. Sun, G. Liu, *Fenxi Huaxue*, **23**, 187 (1995).
- 3211.Determination of nitrate in chromium plating solution with nitrate-selective electrode  
Y. R. Kang, W. Lee, H. Huh, G. S. Cha, H. Nam,  
*Bull. Korean Chem. Soc.*, **16**, 221 (1995).
- 3212.Flow-injection spectrofluorometric determination of gold with kojic acid  
T. Ito, *Bunseki Kagaku*, **44**, 297 (1995).
- 3213.Optical oxygen sensing materials based on the room-temperature phosphorescence intensity quenching of immobilized Erythrosine B  
M. E. Diaz-Garcia, R. Pereiro-Garcia, N. Velasco-Garcia,  
*Analyst*, **120**, 457 (1995).
- 3214.Hyphenated flow injection systems and high discrimination instruments  
M. D. Luque de Castro, M. T. Tena, *Talanta*, **42**, 151 (1995).
- 3215.A continuous flow system for sensitive urushiol detection using a new chemiluminescent reaction  
M. Ishii, M. Takimoto, T. Miyakoshi, T. Nakamura, *Anal. Sci.*, **11**, 79 (1995).
- 3216.Evaluation of lophine derivatives as chemiluminogens by a flow-injection method  
K. Nakashima, H. Yamasaki, N. Kuroda, S. Akiyama,  
*Anal. Chim. Acta*, **303**, 103 (1995).
- 3217.UV-polymerizable screen-printed enzyme pastes  
I. Rohm, W. Kuennenke, U. Bilitewski, *Anal. Chem.*, **67**, 2304 (1995).
- 3218.Quartz crystal microbalance bioaffinity sensor for biotin  
M. Masson, K. Yun, T. Haruyama, E. Kobatake, M. Aizawa,  
*Anal. Chem.*, **67**, 2212 (1995).
- 3219.Development of a novel luminol-related compound, 3-propyl-7,8-dihydro-pyridazino-[4,5-g]quinoxaline-2,6,9(1H)-trione, and its application to hydrogen peroxide and serum glucose assays  
J. Ishida, H. Arakawa, M. Takada, M. Yamaguchi, *Analyst*, **120**, 1083 (1995).
- 3220.Application of the glass slab optical waveguide to the spectrophotometric determination of the iron(II)-1,10-phenanthroline complex by flow analysis  
K. Tsunoda, H. Itabashi, H. Akaiwa, *Anal. Chim. Acta*, **299**, 327 (1995).
- 3221.Highly sensitive detection of L-lactate and pyruvate by amperometric flow-injection analysis based on enzymic substrate recycling and selective detection of hydrogen peroxide  
T. Yao, M. Satomura, T. Nakahara, *Electroanalysis*, **7**, 395 (1995).
- 3222.Simultaneous sensing of five compounds in fruit by amperometric flow injection system with immobilized-enzyme reactors  
K. Matsumoto, T. Tsukatani, S. Higuchi, *Sens. Mater.*, **7**, 167 (1995).
- 3223.Biosensing of glucose, sucrose, and lactate in beverages with an automated multi-channel flow analyzer  
R. L. C. Chen, K. Matsumoto, *Biosci., Biotechnol., Biochem.*, **59**, 813 (1995).

- 3224.Determination of formation quotients by a flow injection procedure  
R. T. Echols, J. F. Tyson, *Analyst*, **120**, 1175 (1995).
- 3225.Spectrofluorometric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquid-liquid extraction  
T. Sakai, N. Ohno, Y. S. Chung, H. Nishikawa, *Anal. Chim. Acta*, **308**, 329 (1995).
- 3226.Indirect, ion-annihilation electrogenerated chemiluminescence and its application to the determination of aromatic tertiary amines  
A. W. Knight, G. M. Greenway, *Analyst*, **120**, 1077 (1995).
- 3227.Biospecific detection in liquid chromatography  
J. Emneus, G. Marko-Varga, *J. Chromatogr., A*, **703**, 191 (1995).
- 3228.Capillary electrophoresis-mass spectrometry  
J. Cai, J. Henion, *J. Chromatogr., A*, **703**, 667 (1995).
- 3229.Routine assay of creatinine in newborn baby urine by spectrophotometric flow-injection analysis  
T. Sakai, H. Ohta, N. Ohno, J. Imai, *Anal. Chim. Acta*, **308**, 446 (1995).
- 3230.Flow injection analysis for sugars in foods using titanium(IV)-porphyrin reagent  
Y. Yokoi, C. Matsubara, K. Takamura, *Bunseki Kagaku*, **44**, 355 (1995).
- 3231.Automatic implementation of the method of standard additions in unsegmented flow systems  
M. Agudo, A. Rios, M. Valcarcel, *Anal. Chim. Acta*, **308**, 77 (1995).
- 3232.Sequential enzymic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method  
R. L. C. Chen, K. Matsumoto, *Anal. Chim. Acta*, **308**, 145 (1995).
- 3233.Preconcentration of an analyte dialyzate in a flow-injection system  
J. F. van Staden, C. J. Hattingh, *Anal. Chim. Acta*, **308**, 214 (1995).
- 3234.Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners  
M. C. Yebra, M. Gallego, M. Valcarcel, *Anal. Chim. Acta*, **308**, 275 (1995).
- 3235.Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry  
M. C. Yebra, M. Gallego, M. Valcarcel, *Anal. Chim. Acta*, **308**, 357 (1995).
- 3236.Determination of cadmium in fertilizers by flow-injection spectrophotometry  
J. A. Gomes Neto, H. Bergamin F, E. A. G. Zagatto, F. J. Krug, *Anal. Chim. Acta*, **308**, 439 (1995).
- 3237.Application of photoacoustic spectrometry to flow-injection analysis  
I. Carrer, P. Cusmai, E. Zanzottera, W. Martinotti, F. Realini, *Anal. Chim. Acta*, **308**, 20 (1995).
- 3238.Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence  
T. Aoki, M. Wakabayashi, *Anal. Chim. Acta*, **308**, 308 (1995).

- 3239.Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters  
S. Motomizu, M. Sanada, *Anal. Chim. Acta*, **308**, 406 (1995).
- 3240.Characterization and reduction of interferences in flow-injection analysis for the *in situ* determination of nitrate and nitrite in sea water  
A. Daniel, D. Birot, M. Lehaitre, J. Poncin, *Anal. Chim. Acta*, **308**, 413 (1995).
- 3241.Shipboard flow injection determination of sea water pH with spectrophotometric detection  
R. G. J. Bellerby, D. R. Turner, G. E. Millward, P. J. Worsfold, *Anal. Chim. Acta*, **309**, 259 (1995).
- 3242.Fluoride determination by its inhibitory effect on immobilized liver esterase  
J. Marcos, A. Townshend, *Anal. Chim. Acta*, **310**, 173 (1995).
- 3243.Spectrophotometric determination of copper(II) in concentrated zinc solution for hydrometallurgical zinc refining by a flow injection method utilizing non-dispersed sample zone  
Y. Sayama, M. Tokuda, Y. Hayashibe, *Bunseki Kagaku*, **44**, 491 (1995).
- 3244.Selective chemiluminescence determination of iron(II) using photocatalytic production of organic peroxides on semiconductor  
Y. Makita, T. Nakagama, X. Z. Wu, T. Hobo, *Bunseki Kagaku*, **44**, 457 (1995).
- 3245.Development of a novel chemiluminescent probe, 4-(5',6'-dimethoxybenzothiazolyl)phthalhydrazide  
J. Ishida, M. Takada, S. Hara, K. Sasamoto, K. Kina, M. Yamaguchi, *Anal. Chim. Acta*, **309**, 211 (1995).
- 3246.Determination of total Hg in environmental samples with online microwave digestion coupled to a flow injection mercury system (FIMS)  
C. P. Hanna, S. A. McIntosh, *At. Spectrosc.*, **16**, 106 (1995).
- 3247.Simultaneous determination of nitrite-nitrogen and nitrate-nitrogen in environmental waters by flow injection analysis  
F. Oshima, *Fukuoka Kyoiku Daigaku Kiyo, Dai-3-bunsatsu: Sugaku, Rika, Gijutsuka Hen*, **44**, 53 (1995).
- 3248.Flow injection analysis and its application to environmental waters  
F. Oshima, *Fukuoka Kyoiku Daigaku Kiyo, Dai-3-bunsatsu: Sugaku, Rika, Gijutsuka Hen*, **44**, 45 (1995).
- 3249.Flow-injection anodic stripping voltammetry at a gold electrode for selenium(IV) determination  
D. W. Bryce, A. Izquierdo, M. D. Luque de Castro, *Anal. Chim. Acta*, **308**, 96 (1995).
- 3250.Studies on the elimination of sulfide interference in the potentiometric determination of chloride using ion selective electrodes in a flow injection system  
T. Altunbulduk, H. Meier zu Koecker, W. Frenzel, *Fresenius' J. Anal. Chem.*, **351**, 593 (1995).

3251. Integrated application of capillary HPLC/continuous-flow liquid secondary ion mass spectrometry to discovery stage metabolism studies  
C. Li, N. Chauret, Y. Ducharme, L. A. Trimble, D. A. Nicoll-Griffith, J. A. Yerger,  
*Anal. Chem.*, **67**, 2931 (1995).
3252. A coaxial jet mixer for rapid kinetic analysis in flow injection and flow injection cytometry  
L. D. Scampavia, G. Blankenstein, J. Ruzicka, G. D. Christian,  
*Anal. Chem.*, **67**, 2743 (1995).
3253. A biosensor based on *Thiobacillus thioparus* for measuring thiosulfate and methanethiol  
I. Kubo, I. Karube, T. Takeuchi, M. Furusawa, Y. Arikawa, T. Kanagawa,  
*Can. J. Microbiol.*, **41**, 366 (1995).
3254. Liposome membrane permeability assay using a glucose biosensor flow injection system  
T. Katsu, H. Wei, W. Hu, X. Zhang, X. Zhang, *Anal. Lett.*, **28**, 1571 (1995).
3255. Determination of ascorbic acid in soft drinks, preserved fruit juices and pharmaceuticals by flow injection spectrophotometry: matrix absorbance correction by treatment with sodium hydroxide  
A. Jain, A. Chaurasia, K. K. Verma, *Talanta*, **42**, 779 (1995).
3256. Amperometric flow-injection determination of citric acid in food using free citrate lyase and co-immobilized oxalacetate decarboxylase and pyruvate oxidase  
K. Matsumoto, T. Tsukatani, Y. Okajima, *Electroanalysis*, **7**, 527 (1995).
3257. Simultaneous determination of copper(II) and iron(III) using 8-quinolinol by solvent extraction flow-injection method  
K. Nakagawa, K. Haraguchi, T. Ogata,  
*Hokkaido Kogyo Gijutsu Kenkyusho Hokoku*, **63**, 12 (1995).
3258. Determination of metal ion mixtures using pH gradient flow-injection analysis with fluorescence detection  
N. Porter, B. T. Hart, R. Morrison, I. C. Hamilton,  
*Anal. Chim. Acta*, **308**, 313 (1995).
3259. Multicommunication in flow analysis. Part 2. Binary sampling for spectrophotometric determination of nickel, iron and chromium in steel alloys  
P. B. Martelli, B. F. Reis, E. A. M. Kronka, H. Bergamin F., M. Korn, E. A. G. Zagatto, J. L. F. C. Lima, A. N. Araujo, *Anal. Chim. Acta*, **308**, 397 (1995).
3260. Flow-injection stopped-flow spectrofluorometric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction  
H. Huang, R. Cai, Y. Du, Y. Zeng, *Anal. Chim. Acta*, **309**, 271 (1995).
3261. A stopped-flow/continuous-flow method for kinetic determinations  
Y.-S. Hsieh, S. R. Crouch, *Anal. Chim. Acta*, **309**, 277 (1995).
3262. Simultaneous determination of arsenic, selenium, and antimony in environmental samples by hydride generation for inductively coupled plasma atomic emission spectrometry  
K. A. Anderson, B. Isaacs, *J. AOAC Int.*, **78**, 1055 (1995).

- 3263.A chemiluminescence-flow injection analysis of serum 3-hydroxybutyrate using a bioreactor consisting of 3-hydroxybutyrate dehydrogenase and NADH oxidase  
M. Tabata, M. Totani, *Anal. Biochem.*, **229**, 133 (1995).
- 3264.Direct determination of free sulfur dioxide in wine and dried apple samples by using a gas generating and purging device coupled to a continuous flow (injection) system  
Z.-L. Zhi, A. Rios, M. Valcarcel, *Analyst*, **120**, 2013 (1995).
- 3265.Application of direct online coupling of HPLC and SFC with  $^1\text{H}$  NMR spectroscopy for the investigation of monomeric acrylates  
K. Albert, U. Braumann, R. Streck, M. Spraul, R. Ecker, *Fresenius' J. Anal. Chem.*, **352**, 521 (1995).
- 3266.Evaluation of flow injection methods for ammonium determination in wastewater samples  
A. Cerdá, M. T. Oms, R. Forteza, V. Cerdá, *Anal. Chim. Acta*, **311**, 165 (1995).
- 3267.Flow injection detection of tetracyclines by electrocatalytic oxidation at a nickel-modified glassy carbon electrode  
W. Oungpipat, P. Southwell-Keely, P. W. Alexander, *Analyst*, **120**, 1559 (1995).
- 3268.Flow injection FT-IR determination of dimenhydrinate in pharmaceuticals  
Z. Bouhsain, B. A. Hasan, S. Garrigues, M. de la Guardia, *Quim. Anal. (Barcelona)*, **14**, 96 (1995).
- 3269.Flow injection-renewable surface techniques  
J. Ruzicka, *Anal. Chim. Acta*, **308**, 14 (1995).
- 3270.Evidence of axial diffusion accompanied by axial dispersion with zone circulating flow-injection analysis data  
Y. Narusawa, Y. Miyamae, *Anal. Chim. Acta*, **309**, 227 (1995).
- 3271.Development and optimization of a multichannel FIA-cell allowing the simultaneous determination with a multiwavelength photometric device based on light emitting diodes  
H. P. Beck, C. Wiegand, *Fresenius' J. Anal. Chem.*, **351**, 701 (1995).
- 3272.Evaluation of acoustic emission as a means for carbonate determination  
M. J. Little, P. D. Wentzell, *Anal. Chim. Acta*, **309**, 283 (1995).
- 3273.Oscillating flow injection stripping potentiometry  
S. D. Kolev, C. W. K. Chow, D. E. Davey, D. E. Mulcahy, *Anal. Chim. Acta*, **309**, 293 (1995).
- 3274.Flow injection preconcentration using differential flow velocities in two-phase segmented flow  
C. A. Lucy, S. Varkey, *Anal. Chem.*, **67**, 3036 (1995).
- 3275.Flow-injection method for the simultaneous determination of D-glucose and 3-hydroxybutyrate with co-immobilized enzyme reactors and a chemiluminometer  
N. Kiba, H. Koemado, M. Furusawa, *Anal. Sci.*, **11**, 605 (1995).
- 3276.Immunoassay of pesticides: an update  
B. M. Kaufman, M. Clower, Jr., *J. AOAC Int.*, **78**, 1079 (1995).

3277. Potentiometric determination of chloride ion in milk and dairy products by FIA titration  
S. Alegret, J. Alonso, J. Bartroli, J. Garcia-Raurich, E. Martinez-Fabregas, J. Sanchez-Rodriquez, *Quim. Anal. (Barcelona)*, **14**, 121 (1995).
3278. Validation of an enzymic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters  
J. L. Marty, N. Mionetto, S. Lacorte, D. Barcelo, *Anal. Chim. Acta*, **311**, 265 (1995).
3279. Sensitive determination of manganese using flow injection and chemiluminescent detection  
A. R. Bowie, P. R. Fielden, R. D. Lowe, R. D. Snook, *Analyst*, **120**, 2119 (1995).
3280. Continuous flow and flow injection potentiometry of complex-bonded metal ions by the standard additions method  
I. Rizov, L. Ilcheva, *Analyst*, **120**, 1651 (1995).
3281. Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants  
S. M. B. Brienza, R. P. Sartini, J. A. Gomes Neto, E. A. G. Zagatto, *Anal. Chim. Acta*, **308**, 269 (1995).
3282. Online use of NMR detection in separation chemistry  
K. Albert, *J. Chromatogr., A*, **703**, 123 (1995).
3283. A computer-controlled variable-volume injector for flow injection analysis  
H.-L. Wu, Y. Hayashibe, Y. Sayama, M. Shibukawa, K. Oguma, *Anal. Sci.*, **11**, 401 (1995).
3284. Flow injection near-infrared determination of ethanol in chloroform  
E. Lopez-Anreus, S. Garrigues, M. de la Guardia, *Fresenius' J. Anal. Chem.*, **351**, 724 (1995).
3285. Determination of L-ascorbic acid by a flow injection analysis with copper(II)-mediated electrochemical detection  
A. Sano, T. Kuwayama, M. Furukawa, S. Takitani, H. Nakamura, *Anal. Sci.*, **11**, 405 (1995).
3286. On-line preconcentration and determination of mercury in biological samples by flow injection vapor generation inductively coupled plasma atomic emission spectrometry  
P. Canada Rudner, J. M. Cano Pavon, A. Garcia de Torres, F. Sanchez Rojas, *Fresenius' J. Anal. Chem.*, **352**, 615 (1995).
3287. Determination of ninhydrin positive substances in sea-water and hemolymph  
S. Sadok, R. Uglow, S. J. Haswell, *Analyst*, **120**, 2097 (1995).
3288. Flow injection spectrofluorimetric method for the determination of magnesium in blood serum  
L. N. Zachilas, P. C. Ioannou, C. Polydorou, C. E. Efstathiou, *Analyst*, **120**, 2115 (1995).

- 3289.Use of a model gut system to study the effects of dietary fiber and multivitamins on the speciation of copper, zinc and iron  
M. S. Dundar, S. J. Haswell, *Analyst*, **120**, 2085 (1995).
- 3290.Use of focused microwaves for expeditive shortening of sample pre-treatment: digestion and reduction procedures prior to selenium speciation as selenium(IV) or selenium(VI)  
D. W. Bryce, A. Izquierdo, M. D. Luque de Castro, *Analyst*, **120**, 2171 (1995).
- 3291.Fermentation monitoring using a glucose biosensor based on an electrocatalytically bulk-modified epoxy-graphite biocomposite integrated in a flow system  
F. Cespedes, F. Valero, E. Martinez-Fabregas, J. Bartroli, S. Alegret, *Analyst*, **120**, 2255 (1995).
- 3292.Detection of mixtures of organic pollutants in water by polymer film receptors in fiber-optical sensors based on reflectometric interference spectrometry  
H. M. Yan, G. Kraus, G. Gauglitz, *Anal. Chim. Acta*, **312**, 1 (1995).
- 3293.Solid-phase spectrophotometry  
G. D. Brykina, D. Y. Marchenko, O. A. Shpigun, *J. Anal. Chem.*, **50**, 440 (1995).
- 3294.Development of an optical flow-through biosensor for the determination of sulfite in environmental samples  
M. D. Luque de Castro, J. M. Fernandez-Romero, *Anal. Chim. Acta*, **311**, 281 (1995).
- 3295.Flow-injection spectrophotometric determination of trace iron in various salts. Elimination of blank peak effect and use of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino)phenol as chromogenic agent  
T. Yamane, H. Yamada, *Anal. Chim. Acta*, **308**, 433 (1995).
- 3296.Development of an automated flow injection chemiluminescence immunoassay for human immunoglobulin G  
A. Hacker, M. Hinterleitner, C. Shellum, G. Guebitz, *Fresenius' J. Anal. Chem.*, **352**, 793 (1995).
- 3297.Response of equatorial Pacific phytoplankton to subnanomolar Fe enrichment  
S. Takeda, H. Obata, *Mar. Chem.*, **50**, 219 (1995).
- 3298.Membrane separation in flow injection systems. Part 1. Dialysis  
J. F. van Staden, *Fresenius' J. Anal. Chem.*, **352**, 271 (1995).
- 3299.Flow injection renewable fiber optic sensor system. Principle and validation on spectrophotometry of chromium(VI)  
O. Egorov, J. Ruzicka, *Analyst*, **120**, 1959 (1995).
- 3300.Determination of beryllium in aluminum metals with 2-hydroxy-1-naphthaldehyde and methylamine by flow injection fluorometry  
K. Watanabe, T. Ikai, M. Itagaki, *Bunseki Kagaku*, **44**, 633 (1995).
- 3301.Injection and extraction method using hollow fiber silicone rubber membranes on chromatography  
M. Matsui, K. Ogasawara, T. Masuoka, *Kankyo Kagaku*, **5**, 73 (1995).
- 3302.The determination of ifosfamide in human blood serum using LC/MS  
C. Siethoff, W. Nigge, M. Linscheid, *Fresenius' J. Anal. Chem.*, **352**, 801 (1995).

- 3303.Characterization of the metabolites of the peptidomimetic human immunodeficiency virus type 1 protease inhibitor SK&F 107461 in rats using liquid chromatography/mass spectrometry  
W. Potts, R. Van Horn, K. Anderson, T. Blake, E. Garver, G. Joseph, G. Dreyer, A. Shu, R. Heys, K.-L. Fong, *Drug Metab. Dispos.*, **23**, 799 (1995).
- 3304.Determination of branched-chain L-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/NADH oxidase and chemiluminescence detection  
N. Kiba, A. Kato, M. Furusawa, *Anal. Chim. Acta*, **311**, 71 (1995).
- 3305.Assessment of quality of flow injection methods used in food analysis. A review  
J. M. Lopez-Fernandez, A. Rios, M. Valcarcel, *Analyst*, **120**, 2393 (1995).
- 3306.Polar organic compounds in the River Elbe - Development of optimized concentration methods using substance-specific detection techniques  
H. F. Schroeder, *Fresenius' J. Anal. Chem.*, **353**, 93 (1995).
- 3307.Ion-sensitive field-effect transistors and their application  
J. Zheng, Y. Li, H. Gao, *Fenxi Huaxue*, **23**, 842 (1995).
- 3308.Effect of chemical diffusivity on the peak shapes in flow injection analysis with sample or reagent injection  
J. Li, G. Liu, H. Ma, T. Korenaga, *Anal. Chim. Acta*, **310**, 329 (1995).
- 3309.Design of a manifold for online solid phase extraction and study of its analytical performance  
S. Lin, Q. Zheng, H. Zhu, G. Yin, *Fenxi Huaxue*, **23**, 835 (1995).
- 3310.Simple and rapid determination of micro amounts of nitrogen in steel by FIA method using gas diffusion separation and spectrophotometric detection techniques  
M. Komoda, A. Ono, S. Kaneko, T. Yamane, *Bunseki Kagaku*, **44**, 725 (1995).
- 3311.Determination of small amounts of chromium by flow-injection analysis with voltammetric detection by the catalytic current of NO<sub>2</sub> ions  
I. M. Fitsev, G. K. Budnikov, M. Y. Tyuleneva, V. F. Toropova, *J. Anal. Chem.*, **50**, 689 (1995).
- 3312.Spectrophotometric determination of total phenolics by solvent extraction and sorbent extraction optosensing using flow injection methodology  
W. Frenzel, S. Krekler, *Anal. Chim. Acta*, **310**, 437 (1995).
- 3313.Highly selective and sensitive detection of NADP coenzymes using co-immobilized glucose-6-phosphate dehydrogenase/diaphorase reactors as online amplifiers based on substrate recycling in a chemiluminometric flow-injection system  
T. Yao, H. Ogawa, T. Nakahara, *Talanta*, **42**, 1297 (1995).
- 3314.Continuous-flow MALDI mass spectrometry using an ion trap/reflectron time-of-flight detector  
L. He, L. Li, D. M. Lubman, *Anal. Chem.*, **67**, 4127 (1995).
- 3315.Electrocatalytic oxidation of ascorbic acid at [osmium(2,2'-bipyridyl)<sub>2</sub>-(poly-4-vinylpyridine)<sub>10</sub>Cl]Cl modified electrodes; implications for the development of biosensors based on osmium-containing redox relays  
A. P. Doherty, M. A. Stanley, J. S. Vos, *Analyst*, **120**, 2371 (1995).

- 3316.Liquid chromatography-time-of-flight mass spectrometry with continuous-flow matrix-assisted laser desorption ionization  
D. S. Nagra, L. Li, *J. Chromatogr., A*, **711**, 235 (1995).
- 3317.Numerical simulation of blow molding-viscoelastic flow analysis of parison formation  
S. Tanoue, Y. Kuwano, T. Kajiwara, K. Funatsu, *Polym. Eng. Sci.*, **35**, 1546 (1995).
- 3318.Online flow injection monitoring of ammonia in industrial liquid effluents  
K. N. Andrew, P. J. Worsfold, M. Comber, *Anal. Chim. Acta*, **314**, 33 (1995).
- 3319.Robust regression methods to calibrate a continuous flow analyzer in the colorimetric analysis of inorganic phosphorus in seawater  
M. Mecozzi, *Talanta*, **42**, 1239 (1995).
- 3320.Online flow injection analysis of volatile organic compounds in seawater by membrane introduction mass spectrometry  
N. Kasthurikrishnan, R.G. Cooks, *Talanta*, **42**, 1325 (1995).
- 3321.Quantitative analysis of sulfadiazine using photochemically induced fluorescence detection in bulk solution and in a flow injection system  
J. J. Aaron, M. I. Acedo Valenzuela, M. Sanchez Pena, F. Salinas, M. C. Mahedero, *Anal. Chim. Acta*, **314**, 45 (1995).
- 3322.Spectrophotometric determination of dopamine and methyldopa with metaperiodate by flow injection analysis  
J. J. B. Nevado, J. M. L. Gallego, P. B. Laguna, *Fresenius' J. Anal. Chem.*, **353**, 221 (1995).
- 3323.Development of an "in-source" thermospray-type interface for online capillary liquid chromatography-mass spectrometry  
A. Carrier, L. Varfalvy, M. J. Bertrand, *J. Chromatogr., A*, **705**, 205 (1995).
- 3324.Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid - base equilibria  
J. Saurina, S. Hernandez-Cassou, R. Tauler, *Anal. Chim. Acta*, **312**, 189 (1995).
- 3325.Flow injection system for the scanning tunneling microscope  
J. D. Noll, P. G. Van Patten, M. A. Nicholson, K. Booksh, M. L. Myrick, *Rev. Sci. Instrum.*, **66**, 4150 (1995).
- 3326.Flow-injection determination of chromium(VI) based on redox reactions of chromium(VI) with iron(II) and copper(II) with iron(II) in the presence of diphosphate and neocuproine  
H. Itabashi, N. Teshima, T. Kawashima, *Anal. Sci.*, **11**, 693 (1995).
- 3327.Spectrophotometric simultaneous determination of creatinine and creatine by flow injection with reagent injection  
G. del Campo, A. Irastorza, J. A. Casado, *Fresenius' J. Anal. Chem.*, **352**, 557 (1995).

Erratum: in No.2974, volume number should be listed as follows:

- 2974.FIA Bibliography (22)  
K. Oguma, *J. Flow Injection Anal.*, **11**, 199 (1994).