

FIA Bibliography(23)

Akira TANAKA, Kumamoto University

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.

2974. FIA Bibliography (22)

K. Oguma, *J. Flow Injection Anal.*, **12**, 199 (1994).

2975. Flow analysis in the nineties

W. E. van der Linden, "Reviews on Analytical Chemistry-Euroanalysis VIII," ed. by D. Littlejohn, D. T. Burns, The Royal Society of Chemistry, Cambridge, U.K. (1994), pp.228-235.

2976. Flow injection analysis with ion-selective electrodes: recent developments and applications

L. K. Shpigun, "Reviews on Analytical Chemistry-Euroanalysis VIII," ed. by D. Littlejohn, D. T. Burns, The Royal Society of Chemistry, Cambridge, U.K. (1994), pp.246-272.

2977. Online preconcentration and flow analysis-Fourier transform infrared determination of carbaryl

S. Garrigues, M. T. Vidal, M. Gallignani, M. de la Guardia, *Analyst*, **119**, 659 (1994).

2978. Flow injection system for determination of singlet oxygen quenching efficiencies utilizing online dioxetane chemiluminescence detection

H. A. G. Niederlaender, M. M. de Jong, C. Gooijer, N. H. Velthorst, *Anal. Chim. Acta*, **290**, 201 (1994).

2979. Flow-injection analysis with Fourier transform infrared detection for clinical and process analysis

E. Rosenberg, R. Kellner, *Fresenius' J. Anal. Chem.*, **348**, 530 (1994).

2980. Computer aided simulation of dispersion theory based on experimental data by zone circulating flow-injection analysis

Y. Narusawa, Y. Miyamae, *J. Chem. Software*, **2**, 1 (1994).

2981. Simultaneous flow analysis Fourier transform infrared determination of benzene, toluene, and methyl t-butyl ether in petrol

M. Gallignani, S. Garrigues, M. de la Guardia, *Analyst*, **119**, 653 (1994).

2982. Solvent extraction-flow injection without phase separation through the use of the differential flow velocities within the segmented flow

C. A. Lucy, K. K.-C. Yeung, *Anal. Chem.*, **66**, 2220 (1994).

2983. Zone circulating flow-injection analysis: theory
Y. Li, Y. Narusawa, *Anal. Chim. Acta*, **289**, 355 (1994).
2984. A polarographic detector for flow injection analysis
A. Yamada, Y. Kataoka, Y. Ono, K. Hodouchi, Y. Kato,
Nagaoka Gijutsu Kagaku Daigaku Kenkyu Hokoku, **15**, 21 (1993).
2985. Indirect photometric determination of potassium ions with a bulky anion and a crown ether using a flow-injection technique
S. Motomizu, M. Kobayashi, *Anal. Sci.*, **10**, 187 (1994).
2986. Automatic study of selectivity by the flow-rate gradient technique
B. Lendl, A. Rios, M. Valcarcel, M. Grasserbauer,
Anal. Chim. Acta, **289**, 187 (1994).
2987. Novel technique to reduce electrical interference inherent in laser-enhanced ionization detection by using flow injection analysis
S.-C. Wang, K.-C. Lin, *Anal. Chem.*, **66**, 2180 (1994).
2988. Chemical derivatization for electrospray ionization mass spectrometry.
2. Aromatic and highly conjugated molecules
G. J. Van Berkel, K. G. Asano, *Anal. Chem.*, **66**, 2096 (1994).
2989. Dual-wavelength photometry with light emitting diodes. Compensation of refractive index and turbidity effects in flow-injection analysis
H. Liu, P. K. Dasgupta, *Anal. Chim. Acta*, **289**, 347 (1994).
2990. Measurement of carbonyl compounds as the 2,4-dinitrophenylhydrazonate anion. Reaction mechanism and an automated measurement system
P. K. Dasgupta, G. Zhang, S. Schulze, J. N. Marx,
Anal. Chem., **66**, 1965 (1994).
2991. Analysis of biological constituents using HPLC-API/TSQMS with electrospray and atmospheric pressure ionization interfaces
K. Seta, M. Kanai, M. Hail, I. Mylchreest, H. Nakayama, T. Isobe,
T. Okuyama, *Kuromatogurafi*, **14**, 136 (1993).
2992. Development of micro-enzyme electrode for detection of acetylcholine and choline
M. Goto, K. Morikage, Y. Esaka, B. Uno, K. Kano,
Bunseki Kagaku, **43**, 403 (1994).
2993. Enzymic assay of oxalate in urine by flow injection analysis using immobilized oxalate oxidase and chemiluminescence detection
E. H. Hansen, S. K. Winther, M. Gundstrup, *Anal. Lett.*, **27**, 1239 (1994).
2994. Structural analysis of proteins using HPLC-ESI/TSQMS with conventional HPLC columns and new electrospray interface
K. Matsuoka, T. Izumi, H. Nakayama, S. Yamaki, T. Isobe, T. Okuyama,
M. Kanai, K. Seta, K. Mock, I. Jardine, *Kuromatogurafi*, **14**, 140 (1993).

2995. Determination of vitamin D₃ and D₂ in multi-vitamin tablets by high-performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry
T. Adachi, M. Nishio, N. Yunoki, Y. Ito, H. Hayashi,
Anal. Sci., **10**, 457 (1994).
2996. Determination of zinc in serum, blood, and ultrafiltrate fluid from patients on hemofiltration by graphite furnace/atomic absorption spectroscopy or flow injection analysis/atomic absorption spectroscopy
O. Jimenez de Blas, R. Seisedos Rodriguez, J. Hernandez Mendez, J. A. Sanchez Tomero, B. de Leon Gomez, S. Vincente Gonzalez,
J. AOAC Int., **77**, 722 (1994).
2997. Flow injection analysis of fluoride ion in seawater by using Alfosone
H. Nishioka, N. Sai, T. Kumagai, T. Nagahiro, K. Uesugi,
Nippon Kaisui Gakkaishi, **48**, 10 (1994).
2998. Determination of total phosphorus in waters and wastewaters by online microwave-induced digestion and flow-injection analysis
R. L. Benson, I. D. McKelvie, B. T. Hart, I. C. Hamilton,
Anal. Chim. Acta, **291**, 233 (1994).
2999. Determination of formaldehyde in reagents and beverages using flow injection
H. Tsuchiya, S. Ohtani, K. Yamada, M. Akagiri, N. Takagi, M. Sato,
Analyst, **119**, 1413 (1994).
3000. Rapid fluorescence flow injection immunoassay using a novel perfusion chromatographic material
D. A. Palmer, M. Evans, J. N. Miller, M. T. French,
Analyst, **119**, 943 (1994).
3001. Rapid and sensitive determination of nitrite in foods and biological materials by flow injection or high-performance liquid chromatography with chemiluminescence detection
N. P. Sen, P. A. Baddoo, S. W. Seaman, *J. Chromatogr., A*, **673**, 77 (1994).
3002. Photochemical spectrophotometric determination of riboflavin and riboflavin 5'-phosphate by manual and flow injection methods
T. Perez-Ruiz, C. Martinez-Lozano, V. Tomas, O. Val,
Analyst, **119**, 1199 (1994).
3003. Determination of aluminum in water by flow injection with fluorimetric detection by using salicylaldehyde carbohydrazone as reagent in a micellar medium
F. Sanchez Rojas, E. Cristofol Alcaraz, J. M. Cano Pavon,
Analyst, **119**, 1221 (1994).

3004. Carrier precipitation and flotation of traces of phosphate in highly concentrated sodium chloride solutions
T. Tanaka, S. Kayukawa, A. Mizuike, *Anal. Sci.*, **10**, 389 (1994).
3005. Flow-injection iodometric determination of oxidants
I. A. Gur'ev, L. F. Zyuzina, O. P. Lazareva, *Zh. Anal. Khim.*, **49**, 579 (1994).
3006. Flow injection determination of glycerol based on oxygen consumption using glycerol dehydrogenase and NADH oxidase
H. Ukeda, Y. Fujita, M. Sawamura, H. Kusunose, *Anal. Sci.*, **10**, 445 (1994).
3007. Determination of isoprenaline with lucigenin chemiluminescence using flow injection analysis
A. A. Al-Warthan, S. A. Al-Tamrah, A. A. Al-Akel, *Anal. Sci.*, **10**, 449 (1994).
3008. Determination of lead by flow-injection inductively coupled plasma mass spectrometry comparing several calibration techniques
J. Goossens, L. Moens, R. Dams, *Anal. Chim. Acta*, **293**, 171 (1994).
3009. Determination of total and free sulfite in unstabilized beer by flow injection analysis
A. Bendtsen, S. S. Joergensen, *J. AOAC Int.*, **77**, 948 (1994).
3010. Intelligent automated systems of absorption spectrophotometry for harmful substances
Y. M. Hsueh, T. Kuroishi, C. Maekoya, H. Yamamoto, *Hitachi Hyoron*, **76**, 299 (1994).
3011. Determination of zinc in seawater using flow injection analysis with fluorometric detection
J. L. Nowicki, K. S. Johnson, K. H. Coale, V. A. Elrod, S. H. Lieberman, *Anal. Chem.*, **66**, 2732 (1994).
3012. Development of a flow injection method based on bromometry and iodometry for pharmaceutical analysis
M. Goto, K. Akabori, S. Maeda, *Bunseki Kagaku*, **43**, 505 (1994).
3013. Applications of flow injection method to silicate analysis
K. Oguma, *Dojin News*, **69**, 3 (1994).
3014. Flow-injection extraction without phase separation based on dual-wavelength spectrophotometry
H. Liu, P. K. Dasgupta, *Anal. Chim. Acta*, **288**, 237 (1994).
3015. Flow injection analysis: a complementary or alternative concept to biosensors
E. H. Hansen, *Talanta*, **41**, 939 (1994).

3016. Biosensing based on NADH detection coupled to electrogenerated chemiluminescence from ruthenium tris(2,2'-bipyridine)
K. Yokoyama, S. Sasaki, K. Ikebukuro, T. Takeuchi, I. Karube, Y. Tokitsu, Y. Masuda, *Talanta*, **41**, 1035 (1994).
3017. Separation and determination of trace dinitropyrenes by means of off-line reduction-HPLC-chemiluminescence detection. Application to assessing atmospheric environment
M. Maeda, K. Tsukagoshi, M. Murata, M. Takagi, T. Yamashita, *Anal. Sci.*, **10**, 583 (1994).
3018. A flow-injection system for monitoring of total nitrogen and control of eutrophication in an aquatic environment
T. Korenaga, X. Zhou, T. Moriwake, S. Shinoda, *Jpn. J. Toxicol. Environ. Health*, **40**, 122 (1994).
3019. Flow injection analysis of cationic disinfectants in pharmaceuticals using ion associates formed between sulfonephthalein dyes and quinidine
T. Sakai, H. Ohta, N. Ohno, H. Sasaki, *Fresenius' J. Anal. Chem.*, **349**, 475 (1994).
3020. Flow injection dispersion characteristics with inductively coupled plasma atomic emission spectrometry. Part 1. Methodology
Y. Israel, R. M. Barnes, *Analyst*, **119**, 1011 (1994).
3021. Determination and application of ion-selective electrode model parameters using flow injection and simplex optimization
F. J. Saez de Viteri, D. Diamond, *Analyst*, **119**, 749 (1994).
3022. The fountain cell: a new tool for chemiluminescence analysis by flow injection
D. J. Tucker, B. Toivola, C. H. Pollema, J. Huzicka, G. D. Christian, *Analyst*, **119**, 975 (1994).
3023. Catalytic effect of rhodium(III) on the chemiluminescence of luminol in reverse micelles and its analytical application
Imdadullah; T. Fujiwara, T. Kumamaru, *Anal. Chim. Acta*, **292**, 151 (1994).
3024. Flow injection determinations of cobalt(II) and iron(II) based on chemiluminescence induced by the catalytic decomposition of peroxomonosulfate
Y. Makita, T. Suzuki, M. Yamada, T. Hobo, *Nippon Kagaku Kaishi*, **1994**, 701.
3025. Kinetic spectrophotometric method for analyzing mixtures of metal ions by stopped-flow injection analysis using partial least-squares regression
M. Blanco, J. Coello, H. Iturriaga, S. Maspoch, J. Riba, *Anal. Chem.*, **66**, 2905 (1994).

3026. Sulfur - selective detector for liquid chromatography based on sulfur monoxide-ozone chemiluminescence
T. B. Ryerson, A. J. Dunham, R. M. Barkley, R. E. Sievers,
Anal. Chem., **66**, 2841 (1994).
3027. Continuous flow assay of ammonia in plasma using immobilized enzymes
R. Quiles, J. M. Fernandez-Romero, E. Fernandez,
M. D. Luque de Castro, *Anal. Chim. Acta*, **294**, 43 (1994).
3028. Different approaches for glucose biosensing using a room temperature phosphorescence oxygen transducer
M. J. Valencia-Gonzalez, M. E. Diaz-Garcia,
Quim. Anal. (Barcelona), **13**, 90 (1994).
3029. Determination of trimethylamine in fish by flow injection analysis
A. Leon, A. Chica, J. Garcia-Raurich, F. Centrich,
Quim. Anal. (Barcelona), **13**, 78 (1994).
3030. Chemical electron-transfer reactions in electrospray mass spectrometry: effective oxidation potentials of electron-transfer reagents in methylene chloride
G. J. Van Berkel, F. Zhou, *Anal. Chem.*, **66**, 3408 (1994).
3031. Spectrofluorometric detection of zinc and cadmium with 8-(benzenesulfonamido)quinoline immobilized on a polymeric matrix
R. Compano, R. Ferrer, J. Guiteras, M. D. Prat,
Analyst, **119**, 1225 (1994).
3032. Flow injection analysis with high-sensitivity optical rotation detection
C. A. Goss, D. C. Wilson, W. E. Weiser, *Anal. Chem.*, **66**, 3093 (1994).
3033. Flow-injection chemiluminescence determination of the hydrazones of aromatic ketones
T. E. A. Ahmed, A. Townshend, *Anal. Chim. Acta*, **292**, 169 (1994).
3034. Comparison of flow injection/thermospray MS/MS and LC/thermospray MS/MS methods for determination of sulfonamides in meat and blood
G. K. Kristiansen, R. Brock, G. Bojesen, *Anal. Chem.*, **66**, 3253 (1994).
3035. Flow injection techniques for water monitoring
K. N. Andrew, N. J. Blundell, D. Price, P. J. Worsfold,
Anal. Chem., **66**, 916A (1994).
3036. Fluorimetric flow-through sensor for aluminum speciation
P. Canizares, M. D. Luque de Castro, *Anal. Chim. Acta*, **295**, 59 (1994).
3037. The development of continuous flow method through microwave oven for the analysis of metal oxides in water by ICP-AES
Y. D. Kim, G. H. Lee, H. S. Kim, D. S. Kim, K. K. Park,
J. Korean Chem. Soc., **38**, 576 (1994).

3038. Continuous - flow system for the accurate determination of low concentrations of ammonium ions using a gas-permeable poly(tetrafluoroethylene) tube decontaminator and an ammonia gas-sensing membrane electrode
H. Hara, S. Matsumoto, *Analyst*, **119**, 1839 (1994).
3039. Simultaneous determination of microamounts of magnesium and calcium in salts with FIA system utilizing online cation-exchange separation and spectrophotometric detection
T. Yamane, T. Morimoto, M. Yamasaka, E. Goto,
Nippon Kaisui Gakkaishi, **48**, 165 (1994).
3040. Flow injection titration - linear or logarithmic
R. Chen, J. Ruzicka, G. D. Christian, *Talanta*, **41**, 949 (1994).
3041. Anodic stripping voltammetry with a Triton X-100 modified mercury film electrode using flow injection
R. R. Dalangin, H. Gunasingham, *Analyst*, **119**, 1603 (1994).
3042. Flow injection amperometric determination of thiocyanate and selenocyanate at a cobalt phthalocyanine modified carbon paste electrode
E. G. Cookeas, C. E. Efstathiou, *Analyst*, **119**, 1607 (1994).
3043. Flow injection assay for the neurotoxin β -ODAP using an immobilized glutamate oxidase reactor with prereactors to eliminate glutamate interferences
G. Moges, G. Johansson, *Anal. Chem.*, **66**, 3834 (1994).
3044. Effect of arsenious and arsenic acids on the chemiluminescence of luminol in the absence of hydrogen peroxide and Its analytical application
H. Sakai, T. Fujiwara, T. Kumamaru,
Bull. Chem. Soc. Jpn., **67**, 2317 (1994).
3045. Reactivation of an immobilized enzyme reactor for the determination of acetylcholinesterase inhibitors. Flow injection determination of paraoxon
C. Garcia de Maria, T. Manzano Munoz, A. Townshend,
Anal. Chim. Acta, **295**, 287 (1994).
3046. Rapid determination of total biomass from a yeast fermentation using sequential injection
P. J. Baxter, G. D. Christian, J. Ruzicka, *Analyst*, **119**, 1807 (1994).
3047. Determination of sulfate ion in rainwater by flow injection analysis
M. Aono, *Gakujutsu Hokoku - Meijo Daigaku Nogakubu*, **30**, 27 (1994).
3048. Immobilized cyanobacteria for online trace metal enrichment by flow injection atomic absorption spectrometry
A. Maquieira, H. A. M. Elmahadi, R. Puchades,
Anal. Chem., **66**, 3632 (1994).

3049. Continuous-flow chemiluminescence detection comprising a rotating reactor
Z.-H. Lan, H. A. Mottola, *Anal. Chim. Acta*, **293**, 139 (1994).
3050. Peroxidase-modified carbon fiber microelectrodes in flow-through detection of hydrogen peroxide and organic peroxides
E. Csoeregi, L. Gorton, G. Marko-Varga, A. J. Tuedoes, W. T. Kok, *Anal. Chem.*, **66**, 3604 (1994).
3051. Response surfaces for the determination of arsenic(III) by hydride generation atomic absorption spectrometry and flow injection
P. D. Wentzell, N. G. Sundin, C. Hogeboom, *Analyst*, **119**, 1403 (1994).
3052. A new automatic micro-titration method
A. Tan, W. Ma, Y. Xu, A. Mao, J. Huang, J. Xu, X. Zhao, *Fenxi Huaxue*, **22**, 482 (1994).
3053. Application of flow-injection hydride generation-graphite furnace atomic absorption spectrometry. III. Determination of trace germanium
Y. Ma, Y. Han, R. Ariguli, *Fenxi Huaxue*, **22**, 586 (1994).
3054. Trace metal atomic absorption spectrometric analysis utilizing sorbent extraction on polymeric-based supports and renewable reagents
H. L. Lancaster, G. D. Marshall, E. R. Gonzalo, J. Ruzicka, G. D. Christian, *Analyst*, **119**, 1459 (1994).
3055. Determination of trace amounts of cobalt by flow injection with spectrophotometric detection
K. Pyrzynska, Z. Janiszewska, J. Szpunar-Lobinska, M. Trojanowicz, *Analyst*, **119**, 1553 (1994).
3056. Chemiluminescent flow sensor for the determination of Paraoxon and Aldicarb pesticides
A. Roda, P. Rauch, E. Ferri, S. Girotti, S. Ghini, G. Carrea, R. Bovara, *Anal. Chim. Acta*, **294**, 35 (1994).
3057. Organic-phase enzyme biosensor for moisture determination in food products
S. Mannino, M. S. Cosio, J. Wang, *Analyst*, **119**, 2001 (1994).
3058. Flow injection spectrophotometric determination of aspartame in dietary products
J. de Araujo Nobrega, O. Fatibello-Filho, I. da Cruz Vieira, *Analyst*, **119**, 2101 (1994).
3059. Reaction of β -dicarbonyl derivatives with hexamine. II. The structure of 1,4-dihydropyridine from reaction of benzoylacetone with hexamine and hydrogen bonding of the enamine
M. Nomura, Nakata, Y. Toyoshima, N. Abe, *Akita Daigaku Kyoikugakubu Kenkyu Kiyu, Shizen Kagaku*, **46**, 25 (1994).

3060. Spectrophotometric determination and FIA of aqueous ozone based on the ozone decoloration reaction of 2-(5-bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)aniline-iron(II) complex
Y. Onari, *Bunseki Kagaku*, **43**, 635 (1994).
3061. Fluorometric determination of Al in seawater by flow injection analysis with in-line preconcentration
J. A. Resing, C. I. Measures, *Anal. Chem.*, **66**, 4105 (1994).
3062. Flow injection dispersion characteristics with inductively coupled plasma atomic emission spectrometry. 2. Influence of flow modes and manifold configuration
Y. Israel, R. M. Barnes, *Anal. Chem.*, **66**, 3937 (1994).
3063. Particle beam aqueous sample introduction for hollow cathode atomic emission spectroscopy
J. You, J. C. Fanning, R. K. Marcus, *Anal. Chem.*, **66**, 3916 (1994).
3064. Determination of trace amounts of phosphorus in copper after preconcentration by carrier precipitation and flotation
T. Tanaka, S. Kayukawa, A. Mizuike, *Anal. Sci.*, **10**, 669 (1994).
3065. Flow-through photometric sensor for determination of sulfonamides
M. T. Tena, M. D. Luque de Castro, M. Valcarcel, *Analyst*, **119**, 1625 (1994).
3066. Electrocatalytic oxidation and flow injection determination of reduced nicotinamide coenzyme at a glassy carbon electrode modified by a polymer thin film
Q. Chi, S. Dong, *Analyst*, **119**, 1063 (1994).
3067. Biosensors for enantioselective analysis
T. Kullick, R. Ulber, H. H. Meyer, T. Scheper, K. Schuegerl, *Anal. Chim. Acta*, **293**, 271 (1994).
3068. Flow injection sequential determination of chloride by potentiometry and sodium by flame emission spectrometry in instant soups
I. M. P. L. V. O. Ferreira, J. L. F. C. Lima, A. O. S. S. Rangel, *Anal. Sci.*, **10**, 801 (1994).
3069. Generalized Fourier smoothing of flow injection analysis data
O. Lee, A. P. Wade, G. A. Dumont, *Anal. Chem.*, **66**, 4507 (1994).
3070. Solid-state microprocessor-controlled detector for doublet peak measurements in flow-injection analysis
M. K. Carroll, M. Conboy, A. Murfin, J. F. Tyson, *Anal. Chim. Acta*, **295**, 143 (1994).

3071. Flow - injection spectrophotometric determination of cadmium with quinolyazo compound after online separation using a silica gel column
T. Ishizuki, K. Matsumoto, A. Yuchi, T. Ozawa, H. Yamada, H. Wada,
Talanta, **41**, 799 (1994).
3072. Flow spectrophotometric method for determination of hydrogen peroxide using a cation exchanger for preconcentration
A. M. Almuaibed, A. Townshend, *Anal. Chim. Acta*, **295**, 159 (1994).
3073. Characterization of inductively coupled plasma mass spectrometry with segmented-flow injection
J. M. Craig, D. Beauchemin, *Analyst*, **119**, 1677 (1994).
3074. Determination of trace amounts of urea by using flow injection with chemiluminescence detection
X. Hu, N. Takenaka, M. Kitano, H. Bandow, Y. Maeda, M. Hattori,
Analyst, **119**, 1829 (1994).
3075. Determination of ammonia, ethanol and acetic acid in solution using membrane introduction mass spectrometry
B. K. Teeter, L. E. Dejarne, T. K. Choudhury, R. G. Cooks, R. E. Kaiser,
Talanta, **41**, 1237 (1994).
3076. Amperometric flow-injection determination of glucose, urate and cholesterol in blood serum by using some immobilized enzyme reactors and a poly(1,2-diaminobenzene)-coated platinum electrode
T. Yao, M. Satomura, T. Nakahara, *Anal. Chim. Acta*, **296**, 271 (1994).
3077. Determination of urinary albumin using high-performance immunoaffinity chromatography and flow injection analysis
P. F. Ruhn, J. D. Taylor, D. S. Hage, *Anal. Chem.*, **66**, 4265 (1994).
3078. Direct determination of zinc in human serum by flow-injection spectrophotometric analysis
Y. Hayashibe, M. Takeya, Y. Sayama, *Anal. Sci.*, **10**, 795 (1994).
3079. Electrocatalysis of NADH oxidation with electropolymerized films of 3,4-dihydroxybenzaldehyde
F. Pariente, E. Lorenzo, H. D. Abruna, *Anal. Chem.*, **66**, 4337 (1994).
3080. A study on the measurement of dissociation constant of organic acid with FIA
J.-S. Rhee, H.-M. Park, H.-J. Kim, K.-B. Lee, P. K. Dasgupta,
Anal. Sci. Technol., **7**, 173 (1994).
3081. Discovering flow injection: journey from sample to a live cell and from solution to suspension
J. Ruzicka, *Analyst*, **119**, 1925 (1994).

3082. Acid-base flow titration based on the use of an automatic buret
J. Bartroli, L. Alerm, J. Garcia-Raurich, J. Masip,
Quim. Anal. (Barcelona), **13**, 31 (1994).
3083. Flow injection potentiometric and voltammetric stripping analysis using
a dialysis membrane covered mercury film electrode
J. Aldstadt, D. F. King, H. D. Dewald, *Analyst*, **119**, 1813 (1994).
3084. Approach for the simultaneous flow injection determination of L-tyrosine
and L-lysine based on enzyme reactors
K. Matsumoto, L.-Y. Gao, Y. Osajima,
J. Fac. Agric., Kyushu Univ., **38**, 207 (1994).
3085. Immobilization of glutamate dehydrogenase on glass derivatives. A method
for the assay of glutamates in real samples with simplex optimized
automated FIA-system
C. D. Stalikas, M. I. Karayannis, S. Tzouwara-Karayanni,
Talanta, **41**, 1561 (1994).
3086. Photokinetic determination of riboflavin and riboflavin 5'-phosphate using
flow injection analysis and chemiluminescence detection
T. Perez-Ruiz, C. Martinez-Lozano, A. Sanz, V. Tomas,
Analyst, **119**, 1825 (1994).
3087. Voltammetric determination of small amounts of chromium by continuous
flow analysis
G. K. Budnikov, I. M. Fitsev, A. R. Garifzyanov, V. F. Toropova,
Zh. Anal. Khim., **49**, 886 (1994).
3088. Application of a steady-state flow analysis to a long-period reaction in a
continuous-flow system
C.-L. Zhang, Y. Narusawa, *Bull. Chem. Soc. Jpn.*, **67**, 2994 (1994).
3089. Pulsed amperometric detection of thaumatin using antibody-containing
poly(pyrrole) electrodes
O. A. Sadik, M. J. John, G. G. Wallace, D. Barnett, C. Clarke, D. G. Laing,
Analyst, **119**, 1997 (1994).
3090. Gas diffusion and micellar catalysis in the flow injection determination of
sulfite
P. Garcia M. Alma J. L. Perez Pavon, B. Moreno Cordero,
Analyst, **119**, 2447 (1994).
3091. Kinetic determination of fructose in the presence of glucose by
ion-selective electrode-flow injection analysis
Y. He, C. Pan, S. Xing, *Fenxi Huaxue*, **22**, 67 (1994).

3092. Evaluation of partition measurements in liquid-liquid segmented flow
L.-G. Danielsson, Y.-H. Zhang, *Talanta*, **41**, 1377 (1994).
3093. Evaluation of the precision of the flow injection doublet peak method
R. T. Echols, J. F. Tyson, *Analyst*, **119**, 2087 (1994).
3094. Radial dispersion by computer-aided simulation with data from zone circulating flow-injection analysis
Y. Narusawa, Y. Miyamae, *Anal. Chim. Acta*, **296**, 129 (1994).
3095. Electrochemiluminescent analysis: advances, problems, and prospects
N. N. Rozhitskii, E. M. Belash, A. I. Bykh,
Zh. Anal. Khim., **49**, 920 (1994).
3096. High-performance liquid chromatography-mass spectrometry (pneumatically assisted electrospray) of hydroxy polycyclic aromatic hydrocarbons
M. T. Galceran, E. Moyano, *J. Chromatogr., A*, **683**, 9 (1994).
3097. Amperometric detection of peroxides with poly(anilinomethylferrocene)-modified enzyme electrodes
A. Mulchandani, C.-L. Wang, H. H. Weetall,
Anal. Chem., **67**, 94 (1995).
3098. Electrochemical detection of trace hydrogen sulfide in gaseous samples by porous silver electrodes supported on ion-exchange membranes (solid polymer electrolytes)
G. Schiavon, G. Zotti, R. Toniolo, G. Bontempelli,
Anal. Chem., **67**, 318 (1995).
3099. Flow injection chemiluminometric determination of folic acid in pharmaceutical formulations
A. A. Al-Warthan, *Anal. Sci.*, **10**, 919 (1994).
3100. Sequential injection analysis for electrochemical measurements and process analysis
G. D. Christian, *Analyst*, **119**, 2309 (1994).
3101. On the mathematical model of flow injection analysis-II. The second order chemical reaction in a straight tube
V. P. Andreev, T. V. Kondratieva, *Talanta*, **41**, 1755 (1994).
3102. Fiber optic-based detection of the entire sample plug as a straightforward approach to kinetic measurements in flow-injection systems
J. A. Garcia-Mesa, M. D. Luque de Castro, M. Valcarcel,
Anal. Chim. Acta, **297**, 313 (1994).
3103. Evaluation of membrane mimetic agents to enhance the chemiluminescence of the luminol/hydrogen peroxide system
M. E. Diaz Garcia, M. A. M. Sanchez, A. Sanz-Medel,
Quim. Anal. (Barcelona), **12**, 146 (1993).

3104. Aqueous nitrite ion determination by selective reduction and gas phase nitric oxide chemiluminescence
A. J. Dunham, R. M. Barkley, R. E. Sievers, *Anal. Chem.*, **67**, 220 (1995).
3105. Testing of the flow injection technique with the sequential ICP-spectrometer 3510-ICP
S. Gergely, M. Cakrt, *Zh. Anal. Khim.*, **49**, 1073 (1994).
3106. Flow injection gradient technique in spectrophotometric determination of formation constants of micromolecule-cyclodextrin complexes
M. E. Georgiou, C. A. Georgiou, M. A. Koupparis, *Anal. Chem.*, **67**, 114 (1995).
3107. Speciation and determination of arsenic and its metabolites in urine by atomic absorption spectroscopy with hydride generation and other coupled techniques
O. J. de Blas, S. V. Gonzalez, R. M. Garrido, A. M. Pascual, M. A. S. Martin, *Quim. Anal. (Barcelona)*, **13**, 138 (1994).
3108. Use of Protein A as an immunological reagent and its application using flow injection. A review
D. A. Palmer, M. T. French, J. N. Miller, *Analyst*, **119**, 2769 (1994).
3109. Selenium speciation - a flow injection approach employing online microwave reduction followed by hydride generation-quartz furnace atomic absorption spectrometry
L. Pitts, P. J. Worsfold, S. J. Hill, *Analyst*, **119**, 2785 (1994).
3110. Screening of cattle urine samples for the presence of beta-agonists with a functional test: some preliminary results
R. Schilt, H. Hooijerink, F. A. Huf, O. P. Zuiderveld, A. Bast, *Analyst*, **119**, 2667 (1994).
3111. Environmental monitoring-a flow-injection approach
P. J. Worsfold, *J. Autom. Chem.*, **16**, 153 (1994).
3112. Determination of rate constants by a double-line flow injection method incorporating a well-stirred tank reactor
R. T. Echols, J. F. Tyson, *Talanta*, **41**, 1775 (1994).
3113. Conductive epoxy-based ion-selective electrodes. A review
A. A. S. C. Machado, *Analyst*, **119**, 2263 (1994).
3114. Anion-selective electrodes based on a gold(III)-triisobutylphosphine sulfide complex
A. Florido, L. G. Bachas, M. Valiente, I. Villaescusa, *Analyst*, **119**, 2421 (1994).

3115. Flow injection reagent introduction by supported liquid and Nafion membranes: determination of phosphate
S. J. Chalk, J. F. Tyson, *Talanta*, **41**, 1797 (1994).
3116. Status of process flow-injection analysis and current trends
E. D. Yalvac, R. A. Bredeweg, *Process Control Qual.*, **6**, 91 (1994).
3117. Studies on the inhibition of immobilized alkaline phosphatase by metal ions and EDTA in a flow-injection system
J. Marcos, A. Townshend, *Anal. Chim. Acta*, **299**, 129 (1994).
3118. Thermo-optical flow-injection determination of hydrogen peroxide based on an enzymic reaction heat-induced optical beam deflection
X.-Z. Wu, H. Shindoh, T. Hobo, *Anal. Chim. Acta*, **299**, 333 (1995).
3119. Sensitive determination of humic acid in natural water by chemiluminescence-flow injection method
X. Hu, M. Kitano, N. Takenaka, H. Bandow, Y. Maeda, D. Zhang, *Bunseki Kagaku*, **43**, 1077 (1994).
3120. Chemiluminescence reaction of lucigenin and inorganic reductants. II. Chemiluminescent reaction of molybdenum(III)-lucigenin
L. Jiuru, Z. Zhijia, *Fenxi Huaxue*, **22**, 909 (1994).
3121. Online preconcentration of inorganic mercury and methylmercury in sea-water by sorbent-extraction and total mercury determination by cold vapor atomic absorption spectrometry
M. Fernandez Garcia, R. Pereiro Garcia, N. Bordel Garcia, A. Sanz-Medel, *Talanta*, **41**, 1833 (1994).
3122. Automated determination of antibody oxidation using flow injection analysis
C. A. C. Wolfe, D. S. Hage, *Anal. Biochem.*, **219**, 26 (1994).
3123. Micromachined enzyme reactor for FIA system
Y. Murakami, M. Suda, K. Yokoyama, T. Takeuchi, E. Tamiya, I. Karube, *Microchem. J.*, **49**, 319 (1994).
3124. Flow injection amperometric detection of hydrazine by electrocatalytic oxidation at a perfluorosulfonated ionomer/ruthenium oxide pyrochlore chemically modified electrode
J.-M. Zen, J.-S. Tang, *Anal. Chem.*, **67**, 208 (1995).
3125. Determination of trace arsenic in copper alloy by online flow injection-hydride generation inductively coupled plasma-atomic emission spectrometry
W. Huanan, Y. Chen, *Fenxi Huaxue*, **22**, 816 (1994).
3126. Detection of aromatic compounds based on DNA intercalation using an evanescent wave biosensor
P. C. Pandey, H. H. Weetall, *Anal. Chem.*, **67**, 787 (1995).

3127. Multistep determination of enzyme activity by flow injection and sequential injection analysis. Assay of amyloglucosidase
E. H. Hansen, B. Willumsen, S. K. Winther, H. Drabol,
Talanta, **41**, 1881 (1994).
3128. Characterization of inhibitors of acetylcholinesterase by an automated amperometric flow-injection system
A. Guenther, U. Bilitewski, *Anal. Chim. Acta*, **300**, 117 (1995).
3129. Bilayer lipid membranes for flow injection monitoring of acetylcholine, urea, and penicillin
D. P. Nikolelis, C. G. Siontorou, *Anal. Chem.*, **67**, 936 (1995).
3130. Spectrophotometric determination of copper(II) and cyanide ions in wastewater by flow injection analysis
P. Wang, D. Jia, Y. Wang, *Fenxi Huaxue*, **23**, 36 (1995).
3131. Synergistic effect of a binary mixture in kinetic system and its applications
J. Wang, W. Ruan, R. He, *Fenxi Huaxue*, **23**, 79 (1995).
3132. Flow-injection spectrophotometric determination of silver in pharmaceutical preparations using Rhodamine B
P. K. A. Goncalves, S. R. Erthal, *Quim. Anal. (Barcelona)*, **13**, 131 (1994).
3133. Continuous-flow analysis. Determination of copper in process solutions
T. V. Rodionova, M. K. Beklemishev, E. V. Kletskina, L. V. Dracheva, Y. A. Zolotov, *Zh. Anal. Khim.*, **49**, 813 (1994).
3134. Determination of soluble sulfate in soils by use of a filtration probe coupled with a flow injection system
Z.-L. Zhi, A. Ros, M. Valcarcel, *Quim. Anal. (Barcelona)*, **13**, 121 (1994).
3135. Fast-scan cyclic voltammetry of 5-hydroxytryptamine
B. P. Jackson, S. M. Dietz, R. M. Wightman, *Anal. Chem.*, **67**, 1115 (1995).
3136. Development of an integrated thermal biosensor for the simultaneous determination of multiple analytes
B. Xie, M. Mecklenburg, B. Danielsson, O. Oehman, P. Norlin, F. Winquist, *Analyst*, **120**, 155 (1995).
3137. Antigenic relationship between the house dust mite *Dermatophagoides farinae* and the predacious mite *Phytoseiulus persimilis*
R. Homma, T. Ando, A. Miyahara, H. Kimura, G. Ito, N. Uesato, Y. Ino, M. Iwaki, *Arerugi*, **43**, 1351 (1994).
3138. Determination of amino acids and proteins by dual-electrode detection in a flow system
Y.-S. Fung, S.-Y. Mo, *Anal. Chem.*, **67**, 1121 (1995).

3139. Simultaneous spectrofluorimetric determination of glycerol and ethanol in wine by flow injection using immobilized enzymes
I. L. Mattos, J. M. Fernandez-Romero, M. D. Luque De Castro, M. Valcarcel, *Analyst*, **120**, 179 (1995).
3140. Simultaneous determination of sulfite and phosphate in wine by means of immobilized enzyme reactions and amperometric detection in a flow-injection system
T. Yao, M. Satomura, T. Nakahara, *Talanta*, **41**, 2113 (1994).
3141. Comparison of reflux and microwave oven digestion for the determination of arsenic and selenium in sludge reference material using flow injection hydride generation and atomic absorption spectrometry
R. Saraswati, T. W. Vetter, R. L. Watters, Jr., *Analyst*, **120**, 95 (1995).
3142. Evaluation, mechanism and application of solid-phase extraction using a dithiocarbamate resin for the sampling and determination of mercury species in humic-rich natural waters
H. Emteborg, D. C. Baxter, M. Sharp, W. Frech, *Analyst*, **120**, 69 (1995).
3143. Application of flow injection spectrophotometry to the determination of dissolved iron in sea-water
I. Y. Kolotyrykina, L. K. Shpigun, Y. A. Zolotov, A. Malahoff, *Analyst*, **120**, 201 (1995).
3144. A chemiluminescence reaction analyzer for a supercritical fluid
M. Ishii, M. Mutoh, T. Nakamura, *Bunseki Kagaku*, **44**, 91 (1995).
3145. Flow injection analysis - how it all started
E. H. Hansen, *Quim. Anal. (Barcelona)*, **12**, 3 (1993).
3146. 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).
3147. Fiber-optic-based mode-filtered light detection for small-volume chemical analysis
R. E. Synovec, A. W. Sulya, L. W. Burgess, M. D. Foster, C. A. Bruckner, *Anal. Chem.*, **67**, 473 (1995).
3148. Application of the partial least-squares calibration method to the simultaneous kinetic determination of propoxur, carbaryl, ethiofencarb and formetanate
J. M. Garcia, A. I. Jimenez, J. J. Arias, K. D. Khalaf, A. Morales-Rubio, M. de la Guardia, *Analyst*, **120**, 313 (1995).

3149. Chemiluminescence determination of proteases by flow injection using immobilized isoluminol
R. Edwards, A. Townshend, B. Stoddart, *Analyst*, **120**, 117 (1995).
3150. Simultaneous determination of copper and zinc in the hair of children by pH gradient construction in a flow-injection system
R. Liu, D. Liu, A. Sun, G. Liu, *Analyst*, **120**, 569 (1995).
3151. Development of enzyme cartridge flow-injection analysis for industrial process monitoring. Part II. Application for monitoring of microorganism cultivations
H. Juergens, L. Brandes, R. Joppien, M. Siebold, J. Schubert, X. Wu, G. Kretzmer, K. Schuegerl, *Anal. Chim. Acta*, **302**, 289 (1995).
3152. Determination of trace amounts of nickel by chelating ion exchange and online enrichment in flow injection spectrophotometry
R. Purohit, S. Devi, *Analyst*, **120**, 555 (1995).
3153. Rapid determinations of complexing stability constants by gradient flow-injection titration
A. C. Lopes da Conceicao, M. L. S. Simoes Goncalves, M. M. Correia dos Santos, *Anal. Chim. Acta*, **302**, 97 (1995).
3154. Relationship between sample dispersion and the flow-rate of carrier stream in flow injection analysis
N. Wu, D. Zhou, *Fenxi Huaxue*, **23**, 6 (1995).
3155. Ferrocene-conjugated polyaniline-modified enzyme electrodes for determination of peroxides in organic media
C.-L. Wang, A. Mulchandani, *Anal. Chem.*, **67**, 1109 (1995).
3156. Error sources in simultaneous nitrate/nitrite determinations using copperized cadmium as nitrate reducing agent
M. Novic, S. Tezak, B. Pihlar, V. Hudnik, *Fresenius' J. Anal. Chem.*, **350**, 653 (1994).
3157. Determination of phosphorus in aqueous solution via formation of the phosphoantimonylmolybdenum blue complex. Re-examination of optimum conditions for the analysis of phosphate
L. Drummond, W. Maher, *Anal. Chim. Acta*, **302**, 69 (1995).
3158. Determination of chloride ions by reaction with mercury thiocyanate in the absence of iron(III) using a UV-photometric, flow injection method
J. Cirello-Egamino, I. D. Brindle, *Analyst*, **120**, 183 (1995).
3159. 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).