

FIA Bibliography(18)

Yoshinobu Baba*

Kobe Women's College of Pharmacy

FIA-related papers and FIA monographs appeared since 1984 have been compiled in this FIA bibliography section. About 2,260 papers and eight monographs were listed in the previous section (refs. 226-228, 342, 501, 598, 771, 953, 1100, 1248, 1445, 1594, 1786, 1924, 2055, 2158, and 2265). All papers in this section are numbered in series and shown with the titles in English. The readers are requested to send me the reprints of their FIA-related papers that have not yet been listed in this section.

*Kobe Women's College of Pharmacy, Kitamachi, Motoyama, Higashinadaku, Kobe 658, JAPAN

2265. FIA Bibliography(17)
Y. Baba, *J. Flow Injection Anal.*, **9**, 97(1992).
2266. Selective determination of gases by two-stage membrane-differentiated flow injection analysis. Determination of trace hydrogen cyanide in the presence of large concentration of hydrogen sulfide
V. Kuban and P.K. Dasgupta, *Anal. Chem.*, **64**, 1106(1992).
2267. Quantitation of acridinium esters using electrogenerated chemiluminescence and flow injection
J.S. Littig and T.A. Nieman, *Anal. Chem.*, **64**, 1140(1992).
2268. Nonlinear calibration of ion-selective electrode arrays for flow injection analysis
R.J. Forster and D. Diamond, *Anal. Chem.*, **64**, 1721(1992).
2269. The second coming of flow-injection analysis
J. Ruzicka, *Anal. Chim. Acta.*, **261**, 3(1992).
2270. Exploiting stopped-flow injection methods for quantitative chemical assays
G.D. Christian and J. Ruzicka, *Anal. Chim. Acta.*, **261**, 11(1992).
2271. Pyrolysis-flow-injection analysis-spectrophotometric determination of amino acids in aqueous solutions
J.L. Burguera, M. Burguera, M.De la Guardia, and A. Salvador, *Anal. Chim. Acta.*, **261**, 23(1992).
2272. Detection by magnetic susceptibility for flow analysis procedures
J.F. Tyson, R.M. LaRue, and S. Bogdanski, *Anal. Chim. Acta.*, **261**, 29(1992).
2273. Flow analysis of UV-irradiated chemicals by chemiluminescence and electron spin resonance spectroscopy
S. Suzuki, H. Nakazawa, M. Fujita, S.-y. Ono, M. Suzuki, S. Takitani, M. Sonoda, and Y. Sakagishi, *Anal. Chim. Acta.*, **261**, 39(1992).

2274. Flow-injection amperometric system for enzyme immunoassay
D.M. Ivnickii, R.A. Sitdikov, and V.E. Kurochkin, *Anal. Chim. Acta.*, **261**, 45(1992).
2275. Flow-injection Fourier transform infrared spectrometric analysis
M.De la Guardia, S. Garrigues, M. Gallignani, J.L. Burguera, and M. Burguera, *Anal. Chim. Acta.*, **261**, 53(1992).
2276. Multi-site detection in flow analysis. Part 1 Relocation of spectrophotometric detector
E.A.G. Zagatto, H. Bergamin F, S.M.B. Brienza, M.A.Z. Arruda, A.R.A. Nogueira, and J.L.F.C. Lima, *Anal. Chim. Acta.*, **261**, 59(1992).
2277. High-sensitivity flow method for the determination of proteins with micro-flow plunger pumps
T. Korenaga, X. Zhou, M. Izawa, T. Takahashi, T. Moriwake, and S. Shinoda, *Anal. Chim. Acta.*, **261**, 67(1992).
2278. Flow-injection atomic spectrometry: a new analytical technique
J.F. Tyson, S.R. Bysouth, E.A. Grzeszczyk, and E. Debrah, *Anal. Chim. Acta.*, **261**, 75(1992).
2279. Direct determination of copper in serum by flow-injection analysis
H. Wada, X.J. Zhou, T. Ishizuki, H. Yamada, and G. Nakagawa, *Anal. Chim. Acta.*, **261**, 87(1992).
2280. On-line microwave sample pretreatment for the determination of mercury in water and urine by flow-injection cold-vapour atomic absorption spectrometry
B. Welz, D.L. Tsalev, and M. Sperling, *Anal. Chim. Acta.*, **261**, 91(1992).
2281. Flow-injection atomic spectrometric determination of inorganic arsenic(III) and arsenic(V) species by use of an aluminium-column arsine generator and cold-trapping arsine collection
M. Burguera, J.L. Burguera, M.R. Brunetto, M. De la Guardia, and A. Salvador, *Anal. Chim. Acta.*, **261**, 105(1992).
2282. Improvement of detection limits for flow-injection flame atomic absorption spectrometry by dedicated signal processing
M. Sperling, P. Koscielniak, and B. Welz, *Anal. Chim. Acta.*, **261**, 115(1992).
2283. Exploiting kinetic-based flow-injection methods for quantitative chemical assays
E.H. Hansen, *Anal. Chim. Acta.*, **261**, 125(1992).
2284. Sequential determination of glucose, fructose and sucrose by flow-injection analysis with immobilized enzyme reactors and spectrophotometric detection
C. Garcia De Maria and A. Townshend, *Anal. Chim. Acta.*, **261**, 137(1992).
2285. Flow-injection analysis of micromolar concentrations of glucose and lactate

- in fermentation media
S. Benthin, J. Nielsen, and J. Villadsen, *Anal. Chim. Acta.*, **261**, 145(1992).
2286. Determination of L-glutamate by amperometric flow-injection analysis using immobilized glutamate oxidase: manifold for simultaneous detection of component signal and blank signal
K. Matsumoto, K. Sakoda, and Y. Osajima, *Anal. Chim. Acta.*, **261**, 155(1992).
2287. Amperometric flow-injection method for determination of biogenic diamines and hypoxanthine by combined use of immobilized enzyme reactors and a peroxidase electrode
T. Yao, M. Satomura, and T. Wasa, *Anal. Chim. Acta.*, **261**, 161(1992).
2288. Flow-injection analysis of trace elements by use of catalytic reactions
T. Kawashima and S. Nakano, *Anal. Chim. Acta.*, **261**, 167(1992).
2289. Flow-injection determination of subnanogram amounts of manganese by catalysis of the oxidative coupling of N, N-di-methyl-p-phenylenediamine with m-phenylenediamine
S. Nakano, M. Nozawa, M. Yanagawa, and T. Kawashima, *Anal. Chim. Acta.*, **261**, 183(1992).
2290. Air-segmented continuous-flow analysis for vanadium based on a catalytic reaction with Bindschedler's green leuco base
M. Sugiyama and T. Hori, *Anal. Chim. Acta.*, **261**, 189(1992).
2291. Simultaneous spectrophotometric determination of iron and copper in serum with 2-(5-bromo-2-pyridylazo)-5-(N-propyl-N-sulphopropylamino)aniline by flow-injection analysis
S. W. Kang, T. Sakai, N. Ohno, and K. Ida, *Anal. Chim. Acta.*, **261**, 197(1992).
2292. Flow-injection spectrophotometric determination of trace cobalt with 2-(5-bromo-2-pyridylazo)-5-(N-propyl-N-sulphopropylamino)aniline: use of the rate-enhancing effect of copper(II) on the complex formation reaction of cobalt
T. Yamane and K. Koshino, *Anal. Chim. Acta.*, **261**, 205(1992).
2293. Indirect spectrophotometric determination of complexing agents by flow-injection analysis based on redox reaction of copper(II) with iron(II)
H. Itabashi, K. Umetsu, N. Teshima, K. Satoh, and T. Kawashima, *Anal. Chim. Acta.*, **261**, 213(1992).
2294. Sandwich techniques in flow-injection analysis. Part 3. Simultaneous determination of Cr(VI) in two concentration ranges
J. Alonso-Chamarro, J. Bartroli, and R. Barber, *Anal. Chim. Acta.*, **261**, 219(1992).
2295. Indirect spectrophotometric determination of potassium ion in water based on the precipitation with tetraphenylborate ion and a crown ether

- using flow injection
S. Motomizu, K. Yoshida, and K. Toei, *Anal. Chim. Acta.*, **261**, 225(1992).
2296. Determination of free and combined residual chlorine by flow-injection spectrophotometry
K.K. Verma, A. Jain, and A. Townshend, *Anal. Chim. Acta.*, **261**, 233(1992).
2297. Flow-injection spectrophotometric determination of sulphate ion with a barium chloranilate-cellulose reaction column
K. Ueno, F. Sagara, K. Higashi, K. Yakata, I. Yoshida, and D. Ishii, *Anal. Chim. Acta.*, **261**, 241(1992).
2298. Flow-injection determination of cyanide by detecting an intermediate of the pyridine-barbituric acid chromogenic reaction
H. Ma and J. Liu, *Anal. Chim. Acta.*, **261**, 247(1992).
2299. Spectrophotometric determination of phenolic compounds by flow-injection analysis
W. Frenzel, J. Oleksy-Frenzel, and J. Moller, *Anal. Chim. Acta.*, **261**, 253(1992).
2300. Flow-injection spectrophotometric determination of acetaminophen in drug formulations
K.K. Verma, A. Jain, and K.K. Stewart, *Anal. Chim. Acta.*, **261**, 261(1992).
2301. Flow-through sensing device based on derivative synchronous fluorescence measurements for the multi-determination of B₆ vitamers
D. Chen, M.D. Luque de Castro, and M. Valcarcel, *Anal. Chim. Acta.*, **261**, 269(1992).
2302. Flow-injection fluorimetric determination of traces of calcium in brine
H. Wada, H. Atsumi, and G. Nakagawa, *Anal. Chim. Acta.*, **261**, 275(1992).
2303. Spectrofluorimetric determination of cyanide and thiocyanate based on a modified Konig reaction in a flow-injection system
A. Tanaka, K. Deguchi, and T. Deguchi, *Anal. Chim. Acta.*, **261**, 281(1992).
2304. Sensitive flow-injection technique for the determination of dissolved organic carbon in natural and waste waters
R.T. Edwards, I.D. McKelvie, P.C. Ferrett, B.T. Hart, J.B. Bapat, and K. Koshy, *Anal. Chim. Acta.*, **261**, 287(1992).
2305. Chemical oxygen demand determination in well and river waters by flow-injection analysis using a microwave oven during the oxidation step
M.L. Balconi, M. Borgarello, R. Ferraroli, and F. Realini, *Anal. Chim. Acta.*, **261**, 295(1992).

2306. Determination of chemical oxygen demand in aqueous environmental samples by segmented flow-injection analysis
L.-C. Tian and S.-M. Wu, *Anal. Chim. Acta.*, **261**, 301(1992).
2307. Experience with flow-injection analysis in marine chemical research
L.K. Shpigun, I.Y. Kolotyrkina, and Y.A. Zolotov, *Anal. Chim. Acta.*, **261**, 307(1992).
2308. Determination of trace rhenium in sea water by inductively coupled plasma mass spectrometry with on-line preconcentration
M.B. Shabani and A. Masuda, *Anal. Chim. Acta.*, **261**, 315(1992).
2309. In-flow speciation of copper, zinc, lead and cadmium in fresh waters by differential-pulse anodic stripping voltammetry. Part 1 Optimization of filtration and enrichment steps
2310. W. Martinotti, G. Queirazza, F. Realini, and G. Ciceri, *Anal. Chim. Acta.*, **261**, 323(1992).
2311. Continuous-flow method for the determination of total trihalomethane formation potential in waters
T. Aoki and K. Kawakami, *Anal. Chim. Acta.*, **261**, 335(1992).
2312. Flow-injection determination of low levels of ammonium ions in natural waters employing preconcentration with a cation-exchange resin
M. Menezes Santos Filha, B. Freire dos Reis, H. Berganim F, and N. Baccan, *Anal. Chim. Acta.*, **261**, 339(1992).
2313. Fully automated system for the continuous monitoring of ammonium ion in fish farming plant sea water by flow-injection analysis
H. Muraki, K. Higuchi, M. Sasaki, T. Korenaga, and K. Toei, *Anal. Chim. Acta.*, **261**, 345(1992).
2314. Flow-injection assay of enzyme inhibition in fish using immobilized diamine oxidase
J.M. Hungerford and A.A. Arefyev, *Anal. Chim. Acta.*, **261**, 351(1992).
2315. Flow-injection determination of polyphenols using a plant juice carrier
S. Uchiyama and S. Suzuki, *Anal. Chim. Acta.*, **261**, 361(1992).
2316. Direct automatic determination of bitterness in virgin olive oil by use of a flow-injection-solvent extraction system
J.A. Garcia-Mesa, M.D. Luque de Castro, and M. Valcarcel, *Anal. Chim. Acta.*, **261**, 367(1992).
2317. Application of square-wave voltammetry for the determination of ascorbic acid in soft drinks and fruit juices using a flow-injection system
Y.-S. Fung and S.-Y. Mo, *Anal. Chim. Acta.*, **261**, 375(1992).
2318. Response time phenomena of coated open-tubular solid state silver halide selective electrodes and their influence on sample dispersion in flow-injection

- analysis
J.F.V. Staden, *Anal. Chim. Acta.*, **261**, 381(1992).
2319. Simultaneous determination of nitrite and nitrate in water using flow-injection biamperometry
M. Trojanowicz, W. Matuszewski, B. Szostek, and J. Michalowski, *Anal. Chim. Acta.*, **261**, 391(1992).
2320. Potentiometric flow analysis device using membrane-coated carbon rod ion-selective electrode detectors
E. Wang and S. Kamata, *Anal. Chim. Acta.*, **261**, 399(1992).
2321. Sensitivity enhancement by potentiometric flow-injection analysis based on redox reaction with an iron(III)-iron(II) buffer
N. Ishibashi, T. Imato, S. Yamasaki, and H. Ohura, *Anal. Chim. Acta.*, **261**, 405(1992).
2322. Continuous-flow determination of phosphate using a lead ion-selective electrode
H. Hara and S. Kusu, *Anal. Chim. Acta.*, **261**, 411(1992).
2323. Nitration-selective electrode as reference electrode for flow-injection analysis
J. Alonso-Chamarro, J. Bartroli and C. Jimenez, *Anal. Chim. Acta.*, **261**, 419(1992).
2324. Coupling of continuous separation techniques with unsegmented flow systems. Review
M.D. Luque de Castro and M. Valcarcel, *Anal. Chim. Acta.*, **261**, 425(1992).
2325. Effect of sample viscosity on the behavior of thin-channel flow-through dialyzers in flow-injection analysis
L. Risinger and G. Johansson, *Anal. Chim. Acta.*, **261**, 435(1992).
2326. Flow-injection analysis in the evaluation of supported liquid membranes
D.E. Barnes and J.F. Van Staden, *Anal. Chim. Acta.*, **261**, 441(1992).
2327. Simultaneous flow-injection analysis for two components with on-line dialysis and gas diffusion in series. Determination of chloride and ammonia nitrogen in industrial effluent water
J.F. Van Staden, *Anal. Chim. Acta.*, **261**, 453(1992).
2328. Porous membrane permeation of halogens and its application to the determination of halide ions and residual chlorine by flow-injection analysis
S. Motomizu and T. Yoden, *Anal. Chim. Acta.*, **261**, 461(1992).
2329. Flow-injection method for the determination of anionic surfactants after liquid-liquid extraction using on-tube visible absorption and fluorescence detection
S. Motomizu and M. Kobayashi, *Anal. Chim. Acta.*, **261**, 471(1992).

2330. Time-based and volume-based sampling for flow-injection on-line solvent extraction graphite furnace atomic absorption spectrometry
B. Welz, X. Yin, and M. Sperling, *Anal. Chim. Acta.*, **261**, 477(1992).
2331. Automatic titrations in unsegmented flow systems based on variable flow-rate patterns. Part 1. Principles and applications to acid-base titrations
J. Marcos, A. Rios, and M. Valcarcel, *Anal. Chim. Acta.*, **261**, 489(1992).
2332. Automatic titrations in unsegmented flow systems based on variable flow-rate patterns. Part 2. Complexometric and redox titrations
J. Marcos, A. Rios, and M. Valcarcel, *Anal. Chim. Acta.*, **261**, 495(1992).
2333. Development of a micro flow spectrophotometric titration method
F. Sagara, T. Kobayashi, T. Tajima, H. Ijyuin, I. Yoshida, D. Ishii, and K. Ueno, *Anal. Chim. Acta.*, **261**, 505(1992).
2334. Real-time digital filters for signal processing in flow-injection analysis. Part 1 General considerations and simulation study
B. Szostek and M. Trojanowicz, *Anal. Chim. Acta.*, **261**, 509(1992).
2335. Real-time digital filters for signal processing in flow-injection analysis. Part 2. Practical applications
M. Trojanowicz and B. Szostek, *Anal. Chim. Acta.*, **261**, 521(1992).
2336. Experimental fluctuations of flow-injection signals
M. F. Gine, R.L. Tuon, F.J. Krug and M.A.Z. Arruda, *Anal. Chim. Acta.*, **261**, 533(1992).
2337. Aspects of sample dispersion for optimizing flow-injection analysis systems
T. Korenaga, *Anal. Chim. Acta.*, **261**, 539(1992).
2338. Simple model of flow-injection sample transport for prediction of peak heights
S.R. Bysouth and J.F. Tyson, *Anal. Chim. Acta.*, **261**, 549(1992).
2339. The first decade of flow-injection analysis in China. Review
Z. Fang, L. Sun, and S. Xu, *Anal. Chim. Acta.*, **261**, 557(1992).
2340. Sensitive flow-injection-spectrofluorimetric method to determine aluminium(III) in water
F. Carrillo, C. Perez, and C. Camara, *Anal. Chim. Acta.*, **262**, 91(1992).
2341. Application of three chromogenic reagents to the determination of palladium using a laboratory-made optical fibre detector for flow-injection analysis
Y. Xu, X. Chen, M. Liu, and Z. Hu, *Anal. Chim. Acta.*, **262**, 97(1992).
2342. Total and individual determination of creatine kinase isoenzyme activities by flow injection and liquid chromatography

- M.D. Luque de Castro and J.M. Fernandez-Romero, *Anal. Chim. Acta.*, **263**, 43(1992).
2343. Determination of penicillin-V in standard solution and in fermentation broth by flow-injection analysis using fast-responding enzyme glass electrodes in different detection cells
H. Meier and C. Tram-Minh, *Anal. Chim. Acta.*, **264**, 13(1992).
2344. Automatic calibration and dilution in unsegmented flow systems
M.Agudo, A. Rios, and M. Valcarcel, *Anal. Chim. Acta.*, **264**, 265(1992).
2345. Automation of enzymatic hydrolysis by use of continuous flow methods involving immobilized biocatalysts
J.M. Fernandez-Romero, M.D. Luque de Castro, and M. Valcarcel, *Anal. Chim. Acta.*, **264**, 275(1992).
2346. Cerium(V) arsenite as a solid-phase reactor for use in flow-injection analysis. Spectrophotometric determination of promethazine
J. M. Calatayud and V.G. Mateo, *Anal. Chim. Acta.*, **264**, 283(1992).
2347. Flow-injection determination of thorium and uranium after on-line ion-exchange preconcentration on Dowex 50-X8
J.L.P. Pavon, C.G. Pinto, E.R. Garcia and B.M. Cordero, *Anal. Chim. Acta.*, **264**, 291(1992).
2348. Trace gold determination in cyanide process solutions-preconcentration using supported liquid membranes in a flow-injection manifold
M.J.C. Taylor, D.E. Barnes, and G.D. Marshall, *Anal. Chim. Acta.*, **265**, 71(1992).
2349. Entrapment of reagents in polymeric materials. Indirect atomic absorption spectrometric determination of isoniazid by oxidation with manganese dioxide incorporated in polyester resin beads in a flow-injection system
L. L. Zamora, J.V.G. Mateo, and J.M. Calatayud, *Anal. Chim. Acta.*, **265**, 81(1992).
2350. Kinetic-spectrofluorimetric determination of nitrite and nitrate at the nanograms per millilitre level by manual and flow-injection methods
T. Perez-Ruiz, C. Martinez-Lozano, and V. Tomas, *Anal. Chim. Acta.*, **265**, 103(1992).
2351. Flow-injection spectrophotometric determination of propoxur with p-aminophenol
K.D. Khalaf, J. Sancenon, and M. De la Guardia, *Anal. Chim. Acta.*, **266**, 119(1992).
2352. Dispersion phenomena in flow-injection systems. Review
R.D. Hull, R.E. Malick, and J.G. Dorsey, *Anal. Chim. Acta.*, **267**, 1(1992).
2353. Flow-injection analysis in the capillary format using electroosmotic

- pumping
S. Liu and P.K. Dasgupta, *Anal. Chim. Acta.*, **268**, 1(1992).
2354. Mathematical modelling of a flow-injection system with a membrane separation module
S.D. Kolev and W.E. Van der Linden, *Anal. Chim. Acta.*, **268**, 7(1992).
2355. Spectrophotometric measurement of pH gradients in continuous-flow systems
S.S. Vives, M.J.M. Hernandez, J.L.M. Herrera, and G.R. Ramos, *Anal. Chim. Acta.*, **268**, 29(1992).
2356. In-stream masking of aluminium in the determination of fluoride by flow-injection potentiometry
D.E. Davey, D.E. Mulcahy, T.J. Muggleton, and G.R. O'Connell, *Anal. Lett.*, **25**, 607(1992).
2357. Horseradish-root tissue tubular reactor for flow injection detection of hydrogen peroxide
J. Wang and N. Naser, *Anal. Lett.*, **25**, 999(1992).
2358. Photochemical derivatization and fluorimetric determination of promethazine in a FIA assembly
A.M. Romero, C.G. Benito, and J.M. Calatayud, *Anal. Lett.*, **25**, 1289(1289).
2359. Flow-injection determination of traces of sulfide by the brilliant green-sulfide reaction with spectrophotometric detection
A.A. Ensafi, *Anal. Lett.*, **25**, 1525(1992).
2360. Flow injection analysis of human serum albumin using a stabilized, immobilized cibacron blue support
D. Narinesingh, A. Pope, and T.T. Ngo, *Anal. Lett.*, **25**, 1721(1992).
2361. Spectrophotometric determination of protein with chromazurol B-beryllium(II) complex by manual and flow-injection methods
Y. Fujita, I. Mori, and M. Toyoda, *Anal. Sci.*, **8**, 313(1992).
2362. Determination of Aliphatic primary amines by flow injection fluorometry using beryllium-schiff base complexes
I. Aoki, A. Takahashi, and K. Watanabe, *Anal. Sci.*, **8**, 323(1992).
2363. Flow injection analysis of ammonia and sulfur dioxide with piezoelectric detection
T. Krawczynski vel Krawczyk and M. Trojanowicz, *Anal. Sci.*, **8**, 329(1992).
2364. Flow-injection determination of the total water hardness by using a copper(II) ion-selective electrode and a copper(II) ion buffer
T. Imato, K. Ishii, and N. Ishibashi, *Anal. Sci.*, **8**, 631(1992).
2365. Analysis of trimethylgallium etherate by flow injection inductively coupled plasma mass spectrometry

- J.H.D. Hartley, L. Ebdon, and S.J. Hill, *Anal. Proc.*, **29**, 94(1992).
2366. Quantification and enantiomeric purity of pharmaceuticals in dosage forms using flow injection analysis with dual absorbance and polarimetric detection
G. Liu, D.M. Goodall, J.S. Loran, *Anal. Proc.*, **29**, 255(1992).
2367. Spectrophotometric determination of lanthanides with 4-(2-pyridylazo)resorcinol by flow injection analysis
A. Chartier, C.G. Fox, and J. Georges, *Analisis*, **20**, 269(1992).
2368. Side-view type of waveguide flow cells for fluorometry as a detector for flow injection analysis for lead
K. Fujiwara, S. Ito, Ri E Kojyo, H. Tsubota, and R.L. Carter, *Appl. Spectrosc.*, **46**, 1032(1992).
2369. Conductimetric and spectrophotometric determination of the volatile acidity of wines by flow injection
F.G. Barros and M. Tubino, *The Analyst*, **117**, 917(1992).
2370. Determination of mercury(II) by its inhibitory effect on the enzymic reaction of ethanol oxidation using flow injection
M.J.A. Parra, A.A. Mateos, C.G. de Maria, and L.G. Rozas, *The Analyst*, **117**, 921(1992).
2371. Determination of N-acetylcysteine in pharmaceutical samples by flow injection
C. S-Pedreno, M.I. Albero, M.S. Garcia, and V. Rodenas, *The Analyst*, **117**, 925(1992).
2372. Flow injection spectrophotometric determination of calcium, phosphate and chloride ions in milk
M.A. Herrero, J. Atienza, A. Maquieira, and R. Puchades, *The Analyst*, **117**, 1019(1992).
2373. Spectrofluorimetric flow injection method for the individual and successive determination of L-cysteine and L-cystine in pharmaceutical and urine samples
T. P-Ruiz, C. M-Lozano, V. Tomas, J. Carpena, *The Analyst*, **117**, 1025(1992).
2374. Selective spectrophotometric determination of trace amounts of chromium(VI) using a flow injection system with a microcolumn of zirconium(IV) oxide modified silica gel
C.R.M. Peixoto, Y. Gushikem, and N. Baccan, *The Analyst*, **117**, 1029(1992).
2375. Reverse flow injection or reagent injection? Normal flow injection, reverse flow injection and single-boundary measurements
A.G. Fogg and A.E. Davies, *The Analyst*, **117**, 1055(1992).
2376. Spectrophotometric determination of titanium(IV) using chromotropic acid and a flow injection manifold
R. Purohit and S. Devi, *The Analyst*, **117**, 1175(1992).

2377. Simplex-optimized and flow injection spectrophotometric assay of tetracycline antibiotics in drug formulations
S.M. Sultan, F.-E.O. Suliman, S.O. Duffuaa, and I.I. A-Abdoun, *The Analyst*, **117**, 1179(1992).
2378. Spectrophotometric determination of biacetyl of biacetyl in distillates of wine by flow injection
G. del Campo and M.C. Lajo, *The Analyst*, **117**, 1343(1992).
2379. Spectrophotometric flow injection determination of titanium in rocks
R.E. Santelli and R. de C. dos S. Araujo, *The Analyst*, **117**, 1519(1992).
2380. Flow injection spectrophotometric determination of the antibiotic ciprofloxacin in drug formulations
S.M. Sultan and F.-E.O. Suliman, *The Analyst*, **117**, 1523(1992).
2381. A fluorescence-based fiber optic biosensor for the flow injection analysis of penicillin
X, Xie, A.A. Suleiman, and G.G. Guilbault, *Biotechnol. Bioeng.*, **39**, 1147(1992).
2382. Simultaneous on line monitoring of intracellular .beta.-galactosidase activity and biomass using flow injection analysis in Escherichia coil batch fermentations
F. Valero, F.J. Lafuente, C. Sola, A. Benito, M. Vidal, J. Cairo, and A. Villaverde, *Biotechnol. Tech.*, **6**, 213(1992).
2383. Determination of fluoride ion by flow injection analysis based on the formation of a fluorescent aluminum-Schiff base complex
I. Aoki, M. Tuyuki, and K. Watanabe, *Bull. Chem. Soc. Jpn.*, **65**, 911(1992).
2384. Determination of acrinol in pharmaceutical preparation by FIA
Y. Akada and E. Kawakami, *Bunseki Kagaku*, **41**, 285(1992).
2385. Development of organic solvent carrier system for flow injection/Chemiluminescence analysis and its application
M. Ishii and K. Ito, *Bunseki Kagaku*, **41**, 433(1992).
2386. Application of FIA to water quality measurement and on-line monitoring in thermal power plants
Y.Li and Y. Narusawa, *Bunseki Kagaku*, **41**, 463(1992).
2387. Trends in the development and application of flow injection analysis (FIA) in pharmaceutical analysis
R. Karlicek, and P. Solich, *Cesk. Farm.*, **41**, 62(1992).
2388. A reticulated vitreous carbon spectroelectrochemical detector for flow injection analysis and liquid chromatography
J.W. Sorrels, and H.D. Dewald, *Electroanalysis*, **4**, 487(1992).
2389. Cross correlation with digital techniques in flow injection analysis and high performance liquid chromatography
D.J. Curran, and R.E. McKean, *Electroanalysis*, **4**, 495(1992).

2390. Simultaneous flow injection analysis for L-lactate and L-malate in wine based on the use of enzyme reactors
S. Yoshioka, H. Ukeda, K. Matsumoto, and Y. Osajima, *Electroanalysis*, **4**, 545(1992).
2391. Determination of creatinine in urine by flow injection analysis
G. Li, B. Peng, L. Tian, and Z. Zhi, *Fenxi Ceshi Tongbao*, **11**, 55(1992).
2392. Flow injection analysis spectrophotometric determination of copper in supernatant fluids in the wet zinc metallurgical process
J. Chen, and X. Zhao, *Fenxi Huaxue*, **20**, 618(1992).
2393. Determination of arsenic, antimony and bismuth by flow injection analysis - hydride generation-graphite furnace atomic absorption spectrometry
Z. Wang and Y. Wang, *Fenxi, Huaxue*, **20**, 670(1992).
2394. A versatile injection system for flow injection analysis
M. Sollacaro, A. Dittmar, and R. Later, *J. Autom. Chem.*, **14**, 101(1992).
2395. Flow injection analysis and in-line biosensors for bioprocess control: a comparison
H. Luedi, M.B. Garn, S.D. Haemmerli, A. Manz, and H.M. Widmer, *J. Biotechnol.*, **25**, 75(1992).
2396. New approaches to coupling flow-injection analysis and high-performance liquid chromatography
M.D.L. de Castro and M. Valcarcel, *J. Chromatogr.*, **600**, 183(1992).
2397. Highly sensitive flow-injection analysis using enzyme reactor involving amplification by substrate recycling
T. Yao, *J. Flow Injection Anal.*, **9**, 2(1992).
2398. Determination of mercury in urine and whole blood by flow injection analysis-cold vapor atomic absorption spectrometry
M. Burguera, J.L. Burguera, and M. Galignani, *J. Flow Injection Anal.*, **9**, 13(1992).
2399. Electrochemical and spectroscopic sensor injection: Methodology and application
H.L. Lancaster, I. Lukkari, G.D. Christian, and J. Ruzicka, *J. Flow Injection Anal.*, **9**, 20(1992).
2400. Flow injection analysis with front-surface illumination laser induced fluorescence spectrometry for analytical applications
J.L. Burguera, M. Burguera, L. Hernandez, M. De La Guardia, and A. Salvador, *J. Flow Injection Anal.*, **9**, 39(1992).
2401. Multi-channel wastewater monitoring system for phosphorus based on flow injection analysis
M. Aoyagi, Y. Yasumasa, and T. Himeo, *J. Flow Injection Anal.*, **9**, 47(1992).
2402. Utilization of 2-(5-bromo-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino)-aniline to simple flow injection analysis system

- Determination of serum copper and iron and its application to disease diagnosis
N. Ohno, H. Sakai, K. Nakamura, K. Ida, and T. Sakai, *J. Flow Injection Anal.*, **9**, 58(1992).
2403. Use of the sandwich technique in flow injection systems for extending the range of an analytical method
Application to chloride determination in waters
A.N. Araujo, J.L.F.C. Lima, A.O.S.S. Rangel, and M.T.M. Teixeira, *J. Flow Injection Anal.*, **9**, 69(1992).
2404. Spectrophotometric determination of promethazine by flow injection analysis and oxidation by cerium (IV)
C.J. Martinez, and T. Garcia Sancho, *J. Pharm. Biomed. Anal.*, **10**, 37(1992).
2405. Determination of mitoxantrone by flow injection analysis using an amperometric detector
J.C. Cortina Villar, A. Costa Garcia, and P. Tunon Blanco, *J. Pharm. Biomed. Anal.*, **10**, 263(1992).
2406. Kinetic approach to reaction among bromate, bromide and iron(II) utilized for potentiometric flow injection analysis of trace bromate based on its redox reaction with iron(III)–iron(II) buffer
H. Ohura, T. Imato, S. Yamasaki, and N. Ishibashi, *Nippon Kagaku Kaishi*, 797(1992).
2407. Bromine number determination by coulometric flow–injection titration
R.H. Taylow, C. Winbo, G.D. Christian, and J. Ruzicka, *Talanta*, **39**, 789(1992).
2408. Fluorimetric determination of uranium(VI) in waters by flow–injection analysis after preconcentration on a silica gel microcolumn
J. Havel, M. Vrchlabsky, and Z. Kohn, *Talanta*, **39**, 795(1992).
2409. Flow injection fluorimetric determination of thiamine and copper based on the formation of thiochrome
T. Perez–Ruiz, C. Martinez–Lozano, V. Tomas, and I. Ibarra, *Talanta*, **39**, 907(1992).
2410. Flow–injection analysis of serum urea using o–phthalaldehyde and naphthylethylenediamine
D. Narinesingh, A. Pope, and T.T. Ngo, *Talanta*, **39**, 1233(1992).
2411. Simultaneous determination of Cl, Br, I and F with flow–injection/ion–selective electrode systems
F.M. Najib and S. Othman, *Talanta*, **39**, 1259(1992).
2412. Construction and application of all–solid–state aconitine electrochemical detector in flow injection analysis
W.Z. Liu, and A.L. Zuo, *Yaouxue Xuebao*, **27**, 294(1992).