

FIA Bibliography(32)

Norio TESHIMA, Aichi Institute of Technology
Tadao SAKAI, Aichi Institute of Technology

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.

5294. FIA Bibliography(31)
N. Teshima, T. Sakai
J. Flow Injection Anal., **16**, 91 (1999).
5295. Applications of atomic spectrometry to regulatory compliance monitoring
S. W. Jenniss, S. A. Katz, R. W. Lynch
ACH - Models Chem., **136**, 55 (1999).
5296. Optical chemical sensors and biosensors
Z. Zhang, M. Feng
Adv. Biosens., **4**, 95 (1999).
5297. Application of biosensors for diagnostic analysis and bioprocess monitoring
G. X. Li, J. G. Liu
Adv. Biosens., **4**, 215 (1999).
5298. Recent progress in agricultural, food and environmental applications of thermal lens spectrometry
M. Franko
AIP Conf. Proc., **463**, 629 (1999).
5299. Determination of ammonia, glucose, phosphate, lactate, glutamine, and glutamate using a laboratory bioprocess solution analyzer
K. Bogren, S. Stieg
Am. Biotechnol. Lab., **17**, 108, (1999).
5300. Flow injection potentiometric determination of Fe(III) using a fluoride-selective electrode as detector
M. Bralic, N. Radic
Analusis, **27**, 57 (1999).
5301. Determination of mercury in estuarine sediments by flow injection-cold vapour atomic absorption spectrometry after microwave extraction
M. L. Martinez-Garcia, S. Carlosena, P. Lopez-Mahia, S. Muniategui, D. Prada
Analusis, **27**, 61, (1999).
5302. A FIA procedure for enzymatic determination of high glucose concentrations. Application to parenteral solutions analysis
E. Barrado, M. H. Vela, R. A. S. Lapa, J. L. F. C. Lima
Analusis, **27**, 170 (1999).
5303. The use of emulsions for the determination of methylmercury and inorganic mercury in fish-eggs oil by cold vapor generation in a flow injection system with atomic absorption spectrometric detection
J. L. Burguera, M. Burguera, C. Rondon, P. Carrero, Y. Petit de Pena, I. A. Quintana, J. L. Salager, R. Anton de Salager
Analyst, **124**, 593 (1999).
5304. Self-gelatinizable graft copolymer of poly(vinyl alcohol) with 4-vinylpyridine as an immobilization matrix for the construction of a tyrosinase-based amperometric biosensor
J. Zhang, B. Li, G. Xu, G. Cheng, S. Dong
Analyst, **124**, 699 (1999).
5305. A comparison of chemometric methods for the flow injection simultaneous spectrophotometric determination of aniline and cyclohexylamine
J. Saurina, S. Hernandez-Cassou
Analyst, **124**, 745 (1999).
5306. Flow-injection chemiluminescence determination of isoniazid using on-line electrogenerated BrO^- as an oxidant
X. Zheng, Z. Zhang
Analyst, **124**, 763 (1999).
5307. Flow injection Fourier transform infrared determination of nicotine in tobacco
J. M. Garrigues, A. Perez-Ponce, S. Garrigues, M. de la Guardia
Analyst, **124**, 783 (1999).
5308. Determination of aluminum in beverages by automated non-segmented continuous flow analysis with fluorescent detection of the lumogallion complex
R. L. Hoch
Analyst, **124**, 793 (1999).
5309. Selectivity enhancement in spectrophotometry: on-line interference suppression using polyurethane foam minicolumn for aluminum determination with Methyl Thymol Blue
R. J. Cassella, R. E. Santelli, A. G. Branco, R. J. Cassella, V. A. Lemos, S. L. C. Ferreira, M. S. de Carvalho
Analyst, **124**, 805 (1999).
5310. Optimized procedure for the determination of antimony in lipid-rich environmental matrices by flow injection hydride generation atomic absorption spectrometry
M. Krachler, M. Burow, H. Emmons

- Analyst*, **124**, 923 (1999).
5311. Evaluation of the 'antioxidant power' of olive oils based on a FIA system with amperometric detection
S. Mannino, S. Buratti, M. S. Cosio, N. Pellegrini
Analyst, **124**, 1115 (1999).
5312. Determination of formaldehyde in liquid, solid and semisolid pharmaceuticals and cosmetics by flow injection-pervaporation
L. Gamiz-Gracia, M. D. Luque de Castro
Analyst, **124**, 1119 (1999).
5313. Determination of bismuth in aluminum and in steels by electrothermal atomic absorption spectrometry after on-line separation using a minicolumn of activated carbon
J. B. Borba da Silva, A. J. Curtius, M. B. Oss Giacomelli
Analyst, **124**, 1249 (1999).
5314. Total cyanide determination by a segmented flow injection-on-line UV digestion-amperometric method
L. Solujic, E. B. Milosavljevic, M. R. Straka
Analyst, **124**, 1255 (1999).
5315. Flow injection determination of chemical oxygen demand in leaching liquid
B. Vallejo-Pecharroman, A. Izquierdo-Reina, M. D. Luque de Castro
Analyst, **124**, 1261 (1999).
5316. A robust multisyringe system for process flow analysis. Part I. On-line dilution and single point titration of protolytes
F. Albertus, B. Horstkotte, A. Cladera, V. Cerdá
Analyst, **124**, 1373 (1999).
5317. Flow injection determination of lactate based on a photochemical reaction using photometric and chemiluminescence detection
T. Perez-Ruiz, C. Martinez-Lozano, V. Tomas, J. Martin
Analyst, **124**, 1517 (1999).
5318. Enzyme-Based Flow Injection Analysis System for Glutamine and Glutamate in Mammalian Cell Culture Media
C. Mayer, A. Frauer, T. Schalkhammer, F. Pittner
Anal. Biochem., **268**, 110 (1999).
5319. Flow Injection Microscopy for the Study of Intracellular Calcium Mobilization by Muscarinic Agonists
W. L. Connors, J. Ruzicka
Anal. Biochem., **268**, 377 (1999).
5320. Flow Injection Analysis of Binding Reaction between Fluorescent Lectin and Cells
Y. Oda, M. Kinoshita, K. Nakayama, S. Ikeda, K. Kakehi
Anal. Biochem., **269**, 230 (1999).
5321. Process Analytical Chemistry
J. Workman, Jr., D. J. Veltkamp, S. Doherty, B. B. Anderson, K. E. Creasy, M. Koch, J. F. Tatera, A. L. Robinson, L. Bond, L. W. Burgess, G. N. Bokerman, A. H. Ullman, G. P. Darsey, F. Mozayeni, J. A. Bamberger, M. S. Greenwood
Anal. Chem., **71**, 121R (1999).
5322. From flow injection to bead injection
J. Ruzicka, L. Scampavia
Anal. Chem., **71**, 257A (1999).
5323. A flow injection renewable surface technique for cell-based drug discovery functional assays
P. S. Hodder, J. Ruzicka
Anal. Chem., **71**, 1160 (1999).
5324. Determination of Oxidative Stability of Oils and Fats
K. Tian, P. K. Dasgupta
Anal. Chem., **71**, 1692 (1999).
5325. Sol-Gel Thin-Film Immobilized Soybean Peroxidase Biosensor for the Amperometric Determination of Hydrogen Peroxide in Acid Medium
B. Wang, B. Li, Z. Wang, G. Xu, Q. Wang, S. Dong
Anal. Chem., **71**, 1935 (1999).
5326. Determination of subnanomolar levels of hydrogen peroxide in seawater by reagent-injection chemiluminescence detection
J. Yuan, A. M. Shiller
Anal. Chem., **71**, 1975 (1999).
5327. Automated Measurement of Lipid Hydroperoxides in Oil and Fat Samples by Flow Injection Photometry
K. Tian, P. K. Dasgupta
Anal. Chem., **71**, 2053 (1999).
5328. Hydrodynamics and Mass Transfer of the Coaxial Jet Mixer in Flow Injection Analysis
V. P. Andreev, S. B. Koleshko, D. A. Holman, L. D. Scampavia, G. D. Christian
Anal. Chem., **71**, 2199 (1999).
5329. Continuous-Flow and Flow Injection pH Gradients for Spectrophotometric Determinations of Mixtures of Nucleic Acid Components
J. Saurina, S. Hernandez-Cassou, R. Tauler, A. Izquierdo-Ridorsa
Anal. Chem., **71**, 2215 (1999).
5330. An electrochemiluminescence flow-through cell and its applications to sensitive immunoassay using N-(aminobutyl)-N-ethylsoluminol
K. Arai, K. Takahashi, F. Kusu

- Anal. Chem.*, 71, 2237 (1999).
5331. Packed Column Supercritical Fluid Chromatography/Mass Spectrometry for High-Throughput Analysis
M. C. Ventura, W. P. Farrell, C. M. Aurigemma, M. J. Greig
Anal. Chem., 71, 2410 (1999).
5332. Automated Flow Injection Gradient Technique for Binding Studies of Micromolecules to Proteins Using Potentiometric Sensors: Application to Bovine Serum Albumin with Anilinonaphthalenesulfonate Probe and Drugs
M. E. Georgiou, C. A. Georgiou, M. A. Koupparis
Anal. Chem., 71, 2541 (1999).
5333. Determination of Boron by Flow Injection Analysis Using a Conductivity Detector
S. D. Kumar, B. Maiti, P. K. Mathur
Anal. Chem., 71, 2551 (1999).
5334. Small-volume Raman spectroscopy with a liquid core waveguide
M. Holtz, P. K. Dasgupta, G. Zhang
Anal. Chem., 71, 2934 (1999).
5335. Evaluation of Crown Ether Complexation for Elemental Electrospray Mass Spectrometry
W. Z. Shou, R. F. Browner
Anal. Chem., 71, 3365 (1999).
5336. Determination of Trace Levels of Anionic Surfactants in River Water and Wastewater by a Flow Injection Analysis System with On-Line Preconcentration and Potentiometric Detection
S. Martinez-Barrachina, J. Alonso, L. Matia, R. Prats, M. del Valle
Anal. Chem., 71, 3684 (1999).
5337. A photovoltaic detection system for flow injection and liquid chromatography
V. L. McGuffin, J. W. Judge
Anal. Chem., 71, 3839 (1999).
5338. Flow Detection of Nucleic Acids at a Conducting Polymer-Modified Electrode
J. Wang, M. Jiang, B. Mukherjee
Anal. Chem., 71, 4095 (1999).
5339. Application of a Macrocycle Immobilized Silica Gel Sorbent to Flow Injection On-Line Microcolumn Preconcentration and Separation Coupled with Flame Atomic Absorption Spectrometry for Interference-Free Determination of Trace Lead in Biological and Environmental Samples
Xiu-Ping Yan, M. Sperling, B. Welz
Anal. Chem., 71, 4216 (1999).
5340. Packed Column Supercritical Fluid Chromatography/Mass Spectrometry for High-Throughput Analysis. Part 2
M. C. Ventura, W.P. Farrell, C. M. Aurigemma, M. J. Greig
Anal. Chem., 71, 4223 (1999).
5341. On-Line Coupling of Flow Injection Microcolumn Separation and Preconcentration to Electrothermal Atomic Absorption Spectrometry for Determination of (Ultra)trace Selenite and Selenate in Water
Xiu-Ping Yan, M. Sperling, B. Welz
Anal. Chem., 71, 4353 (1999).
5342. Enhancement of Extraction Efficiency and Reduction of Boundary Layer Effects in Pulse Introduction Membrane Extraction
X. Guo, S. Mitra
Anal. Chem., 71, 4407 (1999).
5343. Voltammetric and Amperometric Investigations of Azide Oxidation at the Basal Plane of Highly Oriented Pyrolytic Graphite
J. Xu, G. M. Swain
Anal. Chem., 71, 4603 (1999).
5344. A Technique for the Determination of Trimethylamine-N-oxide in Natural Waters and Biological Media
A. D. Hatton, S. W. Gibb
Anal. Chem., 71, 4886 (1999).
5345. Influence of Mixed Diffusional, Migrational, and Convective Mass Transport on the Response of a Wall-Tube Microelectrode in a Flow Injection System
F. Bjoerefors, J. Gadomska, Miko-laj Donten, L. Nyholm, Z. Stojek
Anal. Chem., 71, 4926 (1999).
5346. A signal amplification scheme for ultrasensitive amperometric detection in flowing streams
P. T. Radford, M. French, S. E. Creager
Anal. Chem., 71, 5101 (1999).
5347. Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners
O. Fatibello-Filho, L. H. Marcolino-Junior, A. V. Pereira
Anal. Chim. Acta, 384, 167 (1999).
5348. Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination
J. C. Vidal, S. Mendez, J. R. Castillo
Anal. Chim. Acta, 385, 203 (1999).
5349. In situ preparation of a cholesterol

- biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system
Determination of total cholesterol in serum
J. C. Vidal, E. Garcia, J. R. Castillo
Anal. Chim. Acta, **385**, 213 (1999).
5350. Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis
Frank-Michael Matysik, F. Bjorefors, L. Nyholm
Anal. Chim. Acta, **385**, 409 (1999).
5351. Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection
J. F. C. C. Lima, C. Delerue-Matos, M. Carmo Vaz
Anal. Chim. Acta, **385**, 437 (1999).
5352. Estimation of lactate in meat extracts by screen-printed sensors
A. L. Hart, C. Matthews, W. A. Collier
Anal. Chim. Acta, **386**, 7 (1999).
5353. Flow-injection analysis-electrochemical detection for the determination of drug-protein interactions with microdialysis sampling
G. Shi, F. Xu, H. Zhou, L. Mao, L. Jin
Anal. Chim. Acta, **386**, 123 (1999).
5354. Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2-naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques
L. d'C. Coo, M. Sadek, R. T. C. Brownlee, T. J. Cardwell, R. W. Cattrall, S. D. Kolev
Anal. Chim. Acta, **386**, 137 (1999).
5355. Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase
T. Ghous, A. Townshend
Anal. Chim. Acta, **387**, 47 (1999).
5356. Determination of sulfur dioxide in wines by gas-diffusion flow injection analysis utilizing modified electrodes with electrostatically assembled films of tetraruthenated porphyrin
C. M. N. Azevedo, K. Araki, H. E. Toma, L. Angnes
Anal. Chim. Acta, **387**, 175 (1999).
5357. Two chemical approaches for the production of stable solutions of tris(2,2'-bipyridyl)ruthenium(III) for analytical chemiluminescence
R. D. Gerardi, N. W. Barnett, P. Jones
Anal. Chim. Acta, **388**, 1 (1999).
5358. Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations
A. Walcarus
Anal. Chim. Acta, **388**, 79 (1999).
5359. Electrocatalytic reduction of nitrite at a glassy carbon electrode surface modified with palladium(II)-substituted Keggin type heteropolytungstate
W. Sun, S. Zhang, H. Liu, L. Jin, J. Kong
Anal. Chim. Acta, **388**, 103 (1999).
5360. The application of the wavelet power spectrum to detect and estimate 1/f noise in the presence of analytical signals
C. R. Mittermayr, B. Lendl, E. Rosenberg, M. Grasserbauer
Anal. Chim. Acta, **388**, 303 (1999).
5361. Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase
A. M. Almuaiad, A. Townshend
Anal. Chim. Acta, **388**, 339 (1999).
5362. Chemiluminescence of β -lactam antibiotics based on the luminol reaction
H. Kubo, M. Saitoh, S. Murase, T. Inomata, Y. Yoshimura, H. Nakazawa
Anal. Chim. Acta, **389**, 89 (1999).
5363. Rapid and selective determination of peroxyacetic acid in disinfectants using flow injection analysis
D. Harms, U. Karst
Anal. Chim. Acta, **389**, 233 (1999).
5364. Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value
P. G. Nouros, C. A. Georgiou, M.G. Polissiou
Anal. Chim. Acta, **389**, 239 (1999).
5365. A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples
A. G. Coedo, I. Padilla, T. Dorado, F. J. Alguacil
Anal. Chim. Acta, **389**, 247 (1999).
5366. On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions
L. Arce, P. Kuban, A. Rios, M. Valcarcel, B. Karlberg
Anal. Chim. Acta, **390**, 39 (1999).
5367. On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation
H. Sulistyarti, T. J. Cardwell, M. D. Luque de

- Castro, S. D. Kolev
Anal. Chim. Acta, **390**, 133 (1999).
5368. Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics
 S. Buck, K. Stein, G. Schwedt
Anal. Chim. Acta, **390**, 141 (1999).
5369. The automatic visualization of carry-over in high-throughput flow injection analysis mass spectrometry
 R. Richmond, E. Gorlach
Anal. Chim. Acta, **390**, 175 (1999).
5370. Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton *Heterosigma carterae*
 R. Asai, R. Matsukawa, K. Ikebukuro, I. Karube
Anal. Chim. Acta, **390**, 237 (1999).
5371. Novel type of flow injection immunoassay for the determination of phenytoin in serum
 A. Bereczki, V. Horvath
Anal. Chim. Acta, **391**, 9 (1999).
5372. Evaluation of an immobilized macrocyclic material for on-line column preconcentration and separation of cadmium, copper and lead for electrothermal atomic absorption spectrometry
 E. Hosten, B. Welz
Anal. Chim. Acta, **392**, 55 (1999).
5373. Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes
 P. E. Michel, G. C. Fiaccabruno, N. F. de Rooij, M. Koudelka-Hep
Anal. Chim. Acta, **392**, 95 (1999).
5374. A creatinine deiminase modified polyaniline electrode for creatinine analysis
 Ying-Tai Shih, Hsuan-Jung Huang
Anal. Chim. Acta, **392**, 143 (1999).
5375. Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection
 A. Coly, Jean-Jacques. Aaron
Anal. Chim. Acta, **392**, 255 (1999).
5376. Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with p-aminophenol.
 B. F. Reis, A. Morales-Rubio, M. de la Guardia
Anal. Chim. Acta, **392**, 265 (1999).
5377. Simultaneous monitoring of aspirin, phenacetin and caffeine in compound aspirin tablets using a sequential injection drug-dissolution testing system with partial least squares calibration
 Xue-Zhu Liu, Shu-Sheng Liu, Jin-Feng Wu, Zhao-Lun Fang
Anal. Chim. Acta, **392**, 273 (1999).
5378. 1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry
 A. Ali, X. Yin, H. Shen, Y. Ye, X. Gu
Anal. Chim. Acta, **392**, 283 (1999).
5379. Combination of flow injection with capillary electrophoresis. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma
 Heng-Wu Chen, Zhao-Lun Fang
Anal. Chim. Acta, **394**, 13 (1999).
5380. Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses
 R. Richmond, E. Gorlach
Anal. Chim. Acta, **394**, 33 (1999).
5381. A very simple resolution of the mixture paracetamol and salicylamide by flow injection-solid phase spectrophotometry
 A. Ruiz Medina, M. L. Fernandez de Cordova, A. M. Diaz
Anal. Chim. Acta, **394**, 149 (1999).
5382. Direct flow injection chemiluminescence determination of salicylamide
 Y. Fuster Mestre, L. Lahuerta Zamora, J. Martinez Calatayud
Anal. Chim. Acta, **394**, 159 (1999).
5383. Simultaneous determination of hypoxanthine, inosine and inosine 5'-monophosphate with serially connected three enzyme reactors
 In-Seon Park, N. Kim
Anal. Chim. Acta, **394**, 201 (1999).
5384. Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water
 B. S. V. de la Riva, J. M. Costa-Fernandez, R. Pereiro, A. Sanz-Medel
Anal. Chim. Acta, **395**, 1 (1999).
5385. A poly(vinyl chloride) graphite composite electrode for flow-injection amperometric determination of antioxidants
 M. Luque, A. Rios, M. Valcarcel
Anal. Chim. Acta, **395**, 217 (1999).
5386. An integrated microdistillation flow injection system for nitrite measurement
 R. Lane, C. W. K. Chow, D. E. Davey, D. E. Mulcahy, S. McLeod
Anal. Chim. Acta, **395**, 225 (1999).

5387. Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine
J. Saurina, S. Hernandez-Cassou
Anal. Chim. Acta, **396**, 151 (1999).
5388. Polycrystalline diamond electrodes: basic properties and applications as amperometric detectors in flow injection analysis and liquid chromatography
M. C. Granger, J. Xu, J. W. Strojek, G. M. Swain
Anal. Chim. Acta, **397**, 145 (1999).
5389. Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry
M. Azubel, F. M. Fernandez, M. B. Tudino, O. E. Troccoli
Anal. Chim. Acta, **398**, 93 (1999).
5390. Flow injection immunoaffinity analysis (FIIAA) - A screening technology for atrazine and diuron in water samples
P. M. Kramer, A. Franke, C. Standfuss-Gabisch
Anal. Chim. Acta, **399**, 89 (1999).
5391. Laboratory adaptation of the methylene blue method to flow injection analysis: towards in situ sulfide analysis in hydrothermal seawater
Pierre-Marie Sarradin, N. L. Bris, Jean-Claude Caprais, D. Birot
Anal. Commun., **36**, 157 (1999).
5392. Sol-gel horseradish peroxidase biosensor for the chemiluminescent flow determination of hydrogen peroxide
J. Li, Ke-Min Wang, Xiao-hai Yang, D. Xiao
Anal. Commun., **36**, 195 (1999).
5393. Electrochemical control of solid phase micro-extraction using unique conducting polymer coated fibers
T. P. Gbatu, O. Ceylan, K. L. Sutton, J. F. Robinson, J. A. Caruso, H. B. Mark Jr
Anal. Commun., **36**, 203 (1999).
5394. A new sandwich-type assay of estrogen using piezoelectric biosensor immobilized with estrogen response element
M. Zhihong, L. Xiaohui, F. Weiling
Anal. Commun., **36**, 281 (1999).
5395. Investigation of problems associated with the determination of iodine in glacial acetic acid samples using flow injection analysis-inductively coupled plasma-mass spectrometry
K. L. Ackley, J. A. Day, K. L. Sutton, J. A. Caruso
Anal. Commun., **36**, 295 (1999).
5396. Application of an ion pair reagent to biosensors
Yu-Qing Zhang, Ren-Ao Gu, Wei-De Shen, Xiao-Jian Zheng
Anal. Lett., **32**, 251 (1999).
5397. Enzymic flow-injection analysis of metabolites using new type of oxygen sensor membranes and phosphorescence phase measurements
A. N. Ovchinnikov, V. I. Ogurtsov, W. Trettnak, D. B. Papkovsky
Anal. Lett., **32**, 701 (1999).
5398. The determination of Mn(II) in water by reversed flow injection spectrophotometry
H. Chen, D. Wei, T. An, Y. Fang
Anal. Lett., **32**, 787 (1999).
5399. Study of the catalytic effect of copper(II)-protein complexes on luminol-H₂O₂ chemiluminescence reaction and its analytical application
Z. Li, K. Li, S. Tong
Anal. Lett., **32**, 901 (1999).
5400. Cerium(IV)-based chemiluminescence analysis of analgin
Y. Huang, C. Zhang, X. Zhang, Z. Zhang
Anal. Lett., **32**, 933 (1999).
5401. A rapid method for mercury determination in urine of workers exposed to mercury vapor
O. Zenebon, A. M. Sakuma, F. D. De Maio, I. A. Okada, J. Lichtig
Anal. Lett., **32**, 1339 (1999).
5402. An integrated microdistillation flow injection system for ammonia measurement
R. Lane, C. W. K. Chow, D. E. Davey, D. E. Mulcahy, S. McLeod
Anal. Lett., **32**, 1847 (1999).
5403. Comparison between three amperometric sensors for phenol determination in olive oil samples
V. C. Dal'Orto, C. Danilowicz, I. Rezzano, M. Del Carlo, M. Mascini
Anal. Lett., **32**, 1981 (1999).
5404. Study of the simultaneous determination of trace arsenic and mercury by flow injection/hydride generation/ICP-AES
Y. Xin, L. Zhenhuan, J. Zucheng, C. Jianguo, W. Songqin
Anal. Lett., **32**, 2105 (1999).
5405. Flow injection catalytic determination of vanadium using the indicator reaction between Victoria Blue B and bromate and a citric acid activator
Zhi-Qi Zhang, Xiu-Ping Liu, Han-Ying

- Zhan
Anal. Lett., **32**, 2115 (1999).
5406. A microbial biosensor using *Pseudomonas putida* cells immobilised in an expanded bed reactor for the online monitoring of phenolic compounds
 R.Nandakumar, B. Mattiasson
Anal. Lett. **32**, 2379 (1999).
5407. Optimization of a flow injection system with a piezoelectric quartz crystal detector for the determination of inorganic mercury
 M. T. S. R. Gomes, E. V. Morgado, J. A. B. P. Oliveira
Anal. Lett. **32**, 2715 (1999).
5408. Flow-injection catalytic spectrophotometric determination of trace amounts of nitrite
 H. Chen, Yan-Jun Fang, Tai-Cheng An, Xing-Long Jin
Anal. Lett. **32**, 2887 (1999).
5409. Flow-injection assay of superoxide dismutase based on the reduction of highly water-soluble tetrazolium
 H. Ukeda, A. K. Sarker, D. Kawana, M. Sawamura
Anal. Sci., **15**, 353 (1999).
5410. Glassy carbon electrodes modified with different electropolymerized resol prepolymer mixtures for phenol and derivatives quantification
 C. D. Garcia, P. I. Ortiz
Anal. Sci., **15**, 461 (1999).
5411. Nickel-chromium electrode as a detector in flow-injection amperometry: determination of glycerol
 I. L. De Mattos, D. Melo, E. A. G. Zagatto
Anal. Sci., **15**, 537 (1999).
5412. Integration of flow injection analysis and zeptomole-level detection of the Fe(II)- α -phenanthroline complex
 K. Sato, M. Tokeshi, T. Kitamori, T. Sawada
Anal. Sci., **15**, 641 (1999).
5413. Monosegmented flow titration for the spectrophotometric determination of total acidity in vinegar
 R. S. Honorato, M. C. U. Araujo, G. Veras, E. A. G. Zagatto, R. A. S. Lapa, J. L. F. C. Lima
Anal. Sci., **15**, 665 (1999).
5414. Rapid determination of oil in water using flow injection analysis and IR detection
 K. Hayakawa, Y. Yoneda, Y. Okamoto, T. Kumamaru, M. Ikeda
Anal. Sci., **15**, 803 (1999).
5415. Flow-injection determination of complexing capacity corresponding to EDTA and diphosphate type ligands for some metal ions
 N. Teshima, H. Yasoda, M. Kurihara, T. Kawashima
Anal. Sci., **15**, 807 (1999).
5416. Flow-injection determination of copper(II) based on its catalytic effect on the oxidative coupling of 3-methyl-2-benzothiazolinone hydrazone with N-ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxyaniline in a micellar medium
 T. Kawashima, H. Itabashi, N. Teshima, M. Kurihara, S. Nakano
Anal. Sci., **15**, 835 (1999).
5417. In-line concentration on chitosan and the use of 2,2'-dipyridyl-2-pyridylhydrazone for the flow-injection spectrophotometric determination of lead
 A. G. Lista, B. S. F. Band
Anal. Sci., **15**, 847 (1999).
5418. Chemiluminescence flow biosensor system for cholesterol with immobilized reagents
 Y. Huang, C. Zhang, Z. Zhang
Anal. Sci., **15**, 867 (1999).
5419. Flow-injection spectrophotometric determination of mercury(II) in water by the catalytic decomposition of ferrocyanide
 Yong-Lai Feng, H. Narasaki, Li-Ching Tian, Sao-Ming Wu, Hong-Yuan Chen
Anal. Sci., **15**, 915 (1999).
5420. Flow injection analysis of nitrite based on spectrophotometric measurements of iodine formed by oxidation of iodide with nitrite
 Y. Miura, K. Kusakari
Anal. Sci., **15**, 923 (1999).
5421. Sensitive and simple determination of diclofenac sodium by use of a continuous flow-injection procedure with solid-phase spectroscopic detection
 P. Ortega-Barrales, A. Ruiz-Medina, M. L. Fernandez-De Cordova, A. Molina-Diaz
Anal. Sci., **15**, 985 (1999).
5422. FIA-atomic spectrometry: a synergic combination for chemical analysis
 J. F. Tyson
Anal. Spectrosc. Libr., **9**, 3 (1999).
5423. Basic instrumentation for FIA-atomic spectrometric detection
 R. Pereiro
Anal. Spectrosc. Libr., **9**, 34 (1999).
5424. FIA techniques and strategies expand the potential of atomic spectrometry
 J. F. Tyson
Anal. Spectrosc. Libr., **9**, 64 (1999).
5425. FIA strategies for calibration and standardization in atomic spectrometry
 M. De la Guardia

- Anal. Spectrosc. Libr.*, **9**, 98 (1999).
5426. Flow injection systems for on-line sample dissolution/decomposition
J. L. Burguera, M. Burguera
Anal. Spectrosc. Libr., **9**, 135 (1999).
5427. Flow injection on-line solid-liquid separation and preconcentration atomic spectrometry
Zhao-Lun Fang, Guan-Hong Tao
Anal. Spectrosc. Libr., **9**, 168 (1999).
5428. Flow-injection on-line liquid-liquid separation and preconcentration atomic spectrometry
M. Valcarcel, M. Gallego
Anal. Spectrosc. Libr., **9**, 203 (1999).
5429. Applications in environmental analysis
A. Morales-Rubio, M. De la Guardia
Anal. Spectrosc. Libr., **9**, 309 (1999).
5430. Microcolumn field sampling and flow injection analysis: a strategy for enhanced trace analysis and element speciation
R. Ma, G. Woods, C. W. McLeod
Anal. Spectrosc. Libr., **9**, 439 (1999).
5431. Automated analytical methods for quality control in the sugar-alcohol industry
I. L. Mattos, E. A. G. Zagatto, A. O. Jacintho, D. Melo
An. Assoc. Bras. Quim., **48**, 21 (1999).
5432. Ammonia measurements in mammalian cell culture media with a diffuse reflectance-based fiberoptic ammonia sensor
S. K. Spear, M. Rhiel, D. W. Murhammer, M. A. Arnold
Appl. Biochem. Biotechnol., **75**, 175 (1999).
5433. Improved biosensor for glucose based on glucose oxidase-immobilized silk fibroin membrane
Yu-Qing Zhang, J. Zhu, Ren-Ao Gu
Appl. Biochem. Biotechnol., **75**, 215 (1999).
5434. Determination of mercury in coal using FI-CVAAS and FI-CV-ICP-MS
M. Bettinelli, S. Spezia, S. Roberti
At. Spectrosc., **20**, 13 (1999).
5435. Tin determination in seawater by flow injection hydride generation atomic absorption spectroscopy
P. Bermejo-Barrera, M. Ferron-Novais, G. Gonzalez-Campos, A. Bermejo-Barrera
At. Spectrosc., **20**, 120 (1999).
5436. Determination of As and Se in seawater by flow injection vapor generation ETV-ICP-MS
J. W. Lam, R. E. Sturgeon
At. Spectrosc., **20**, 79 (1999).
5437. Determination of platinum in rat dorsal root ganglion using ICP-MS
H. Ding, M. M. Goldberg, J. H. Raymer, J. Holmes, J. Stanko, S. G. Chaney
Biol. Trace Elem. Res., **67**, 1 (1999).
5438. Computer-aided fluorimetric flow injection analysis for dissolution testing of pharmaceuticals
P. Solich, C. K. Polydorou, M. A. Koupparis, C. A. Efstatiou
Biomed. Chromatogr., **13**, 113 (1999).
5439. Comparative fluorimetric determination of urinary neopterin by flow injection analysis and HPLC
P. Solich, D. Solichova, B. Melichar, E. Pencikova, I. Svobodova, Z. Zadak
Biomed. Chromatogr., **13**, 115 (1999).
5440. Flow-based immunoassay for pesticide analysis, using fluorimetric detection
M. A. Lopez, E. Dominguez, F. Ortega
Biomed. Chromatogr., **13**, 121 (1999).
5441. Fluorimetric flow-injection method for anionic surfactants based on protein-surfactant interactions
D. L. R. Ruiz, A. L. C. Torres, E. A. Garcia, M. E. D. Garcia
Biomed. Chromatogr., **13**, 129 (1999).
5442. Optimization of intrinsic naproxen fluorescence by off-line and flow injection analysis
W. R. G. Baeyens, M. Vanparnis, G. Van der Weken
Biomed. Chromatogr., **13**, 145 (1999).
5443. Chemiluminometric flow injection analysis procedures for the enzymatic determination of L-alanine, α -ketoglutarate and L-glutamate
D. Janasek, U. Spohn
Biosens. Bioelectron., **14**, 123 (1999).
5444. Quartz crystal microbalance (QCM) as a device for the screening of phage libraries
A. Hengerer, J. Decker, E. Prohaska, S. Hauck, C. Kosslinger, H. Wolf
Biosens. Bioelectron., **14**, 139 (1999).
5445. Characterization of a thermophilic L-glutamate dehydrogenase biosensor for amperometric determination of L-glutamate by flow injection analysis
N. Pasco, C. Jeffries, Q. Davies, A. J. Downard, A. D. Roddick-Lanzilotta, L. Gorton
Biosens. Bioelectron., **14**, 171 (1999).
5446. Graphite-teflon composite bienzyme electrodes for the determination of L-lactate: application to food samples
B. Serra, A. J. Reviejo, C. Parrado, J. M. Pingarron
Biosens. Bioelectron., **14**, 505 (1999).

5447. Modern analytical methods of detection and determination of contaminants and other harmful substances in food
 L. Czerwiecki
Bromatol. Chem. Toksykol., **32**, 1 (1999).
5448. Development of food analytical systems based on the use of immobilized biocatalysts
 H. Ukeda
Bunseki Kagaku, **48**, 183 (1999).
5449. Determination of hydrogen peroxide by flow injection-chemiluminescence using a novel flow-cell reactor in a chemiluminescence detector
 H. Kawamoto, O. Nozaki
Bunseki Kagaku, **48**, 471 (1999).
5450. On-site analysis for nitrogen oxides using a newly developed portable flow injection analyzer
 K. Higuchi, A. Inoue, H. Tamanouchi, T. Hattori, S. Motomizu
Bunseki Kagaku, **48**, 477 (1999).
5451. Determination of copper and nickel ion in copper electrolyte by a flow-injection spectrophotometric method
 Y. Hayashibe, H. Sakurai, M. Katou, M. Takeya
Bunseki Kagaku, **48**, 509 (1999).
5452. Flow injection determination of cationic polyelectrolytes using a tetraphenylborate-selective electrode detector
 T. Masadome, Y. Asano
Bunseki Kagaku, **48**, 515 (1999).
5453. Determination of zinc(II) using the micellar enhanced chemiluminescence of 1,10-phenanthroline
 K. Watanabe, H. Miyamoto, M. Itagaki
Bunseki Kagaku, **48**, 705 (1999).
5454. Partial leaching as an aid to slurry nebulization for the analysis of soils by ICP-MS with flow injection and mixed-gas plasmas
 A. T. Persaud, D. Beauchemin, H. E. Jamieson, R. J. C. McLean
Can. J. Chem., **77**, 409 (1999).
5455. Membrane-based electrodes for flow-injection determination of noble metal ions
 Y. A. Zolotov, L. K. Shpigun, N. E. Kopytova, P. M. Kamilova
Chem. Anal., **44**, 623 (1999).
5456. Simple flow system for calibration by the standard addition method
 P. Koscielniak, M. Herman
Chem. Anal., **44**, 773 (1999).
5457. Successive flow-injection determination of iron(III) and copper(II) by means of the effect of activators
 T. Watanabe, N. Teshima, M. Kurihara, S. Nakano, T. Kawashima
Chem. Lett., **1999**, 521.
5458. Sequential injection analysis
 H. Pasekova, M. Polasek, P. Solich
Chem. Listy, **93**, 354 (1999).
5459. Computer-assisted qualimetric optimization of analytical methods
 E. Vereda-Alonso, J. A. Perez-Hidalgo, A. Rios, M. Valcarcel
Chemom. Intell. Lab. Syst., **48**, 81 (1999).
5460. Evaluation of plant nitrate extraction techniques and effect on commonly used analytical methods of detection
 K. A. Anderson, T. E. Case
Commun. Soil Sci. Plant Anal., **30**, 1479 (1999).
5461. Automatic spectrophotometric determination of copper in plant material, soil, and fertilizer mixtures by a kinetic method
 A. A. Rodella, N. Baccan
Commun. Soil Sci. Plant Anal., **30**, 1641 (1999).
5462. Nonconventional samplers in capillary electrophoresis
 R. Kuldvee, M. Kaljurand
Crit. Rev. Anal. Chem., **29**, 29 (1999).
5463. Flow injection analysis will be 25 years old
 E. H. Hansen
Dan. Kemi., **80**, 14 (1999).
5464. Combination of flow injection and electrothermal atomic absorption spectrometry
 E. H. Hansen, S. Nielsen
Dan. Kemi., **80**, 17 (1999).
5465. Visualization of analytical chemistry
 J. E. T. Andersen, J. D. Zhang, Q. Chi, A. G. Hansen, J. U. Nielsen, J. Ulstrup, A. Boisen, H. Jesenius
Dan. Kemi., **80**, 22 (1999).
5466. Selective Reduction Method for Separate Determination of Inorganic and Total Mercury in Mussel Tissue by Flow-Injection Cold Vapor Technique
 S. Rio-Segade, C. Bendicho
Ecotoxicol. Environ. Saf., **42**, 245 (1999).
5467. Graphite-ethylene-propylene/diene terpolymer composite electrodes. A new electrode material for electrochemical detection
 L. Alonso, C. Parrado, M. Pedrero, L. Agui, J. M. Pingarron
Electroanalysis, **11**, 161 (1999).
5468. Ultrasmall enzyme electrodes with response

- time less than 100 milliseconds
J. B. Meyerhoff, M. A. Ewing, A. G. Ewing
Electroanalysis, **11**, 308 (1999).
5469. Amperometric detection of nonelectroactive cations in electrolyte-free flow systems at zeolite modified electrodes
A. Walcarius, P. Mariaulle, C. Louis, L. Lamberts
Electroanalysis, **11**, 393 (1999).
5470. Anodic response of cystine at preanodized Au and Au-Ag electrodes in perchloric acid media
M. E. Johll, D. C. Johnson
Electroanalysis, **11**, 534 (1999).
5471. Determination of iodate in salt samples with amperometric detection at a molybdenum oxide modified electrode
L. Kosminsky, M. Bertotti
Electroanalysis, **11**, 623 (1999).
5472. Remote monitoring and control of electrochemical experiments via the Internet using "intelligent agent" software
O. Frederik, J. R. Danaraj, B. Fleet, H. Gunasingham, S. Jaenicke, V. E. Hodgkinson
Electroanalysis, **11**, 1027 (1999).
5473. Characterization of Immobilized Poly-L-aspartate as a Metal Chelator
E. Gutierrez, T. C. Miller, J. R. Gonzalez-Redondo, J. A. Holcombe
Environ. Sci. Technol., **33**, 1664 (1999).
5474. Fed-batch production of a soluble β -1,4-galactosyltransferase with *Saccharomyces cerevisiae*
J. Zigova, M. Mahle, H. Paschold, M. Malissard, E.G. Berger, D. Weuster-Botz
Enzyme Microb. Technol., **25**, 201 (1999).
5475. Determination of gold in geological samples by inductively coupled plasma atomic emission spectrometry with flow-injection on-line preconcentration
S. Cao, H. Chen, J. Liu; X. Zeng
Fenxi Ceshi Xuebao, **18**, 17 (1999).
5476. Quenching effect of Yb(III) on chemiluminescence system of luminol- H_2O_2 -Cr(III)
Z. Zhu
Fenxi Ceshi Xuebao, **18**, 75 (1999).
5477. Determination of promethazine hydrochloride by flow injection analysis with chemiluminescence detection
Y. Xue, Y. He, M. Feng, J. Lu
Fenxi Huaxue, **27**, 427 (1999).
5478. Determination of uric acid by chemiluminescence-flow injection analysis
Y. Wu, L. Li, Z. Geng, Q. Liu
Fenxi Huaxue, **27**, 543 (1999).
5479. Enzyme column reactor of immobilized L-glutamic decarboxylase for determination of L-glutamic acid
G. Wu, D. Ling, C. Wang, F. Wang, G. Song
Fenxi Huaxue, **27**, 759 (1999).
5480. Determination of arsenic species by using hydride generation atomic absorption spectrometry combined with target factor analysis
X. Yin, G. Xu, X. Gu, W. Yang, A. Akbar
Fenxi Huaxue, **27**, 798 (1999).
5481. Applications on on-line separation and preconcentration techniques in atomic absorption spectrometry
S. Xu, Z. Fang
Fenxi Huaxue, **27**, 845 (1999).
5482. Determination of sulfur trioxide in extracted phosphoric acid by flow injection-enthalpimetry
Q. Zhang, M. Wu
Fenxi Huaxue, **27**, 1211 (1999).
5483. Determination of rutin by flow injection with chemiluminescence detection
C. He, H. Cui, H. Zhao, G. Zhao
Fenxi Shiyanshi, **18**, 9 (1999).
5484. Chemiluminescence reaction of imipramine-glyoxal-potassium permanganate system
Yuan-Ying Xue, Yun-Hua He, Jiu-Ru Lu
Fenxi Shiyanshi, **18**, 49 (1999).
5485. Study on the chemiluminescence reaction of luminol-KIO₄-ascorbic acid system and its application
Yuan-yuan Wu, Li-qing Li, Qian-guang Liu
Fenxi Shiyanshi, **18**, 58 (1999).
5486. Flow injection chemiluminescence determination of amidopyrine in the Antonding injection
Yun-Hua He, Jian-Xiu Du, Man-Liang Feng, Jiu-Ru Lu
Fenxi Shiyanshi, **18**, 60 (1999).
5487. Photometric analysis
Wan-long Yang, Yi-jun Li, Xi-wen He
Fenxi Shiyanshi, **18**, 89 (1999).
5488. Sequential fluorescent determination of copper(II) and cobalt(II) in food samples by flow injection analysis
C. Qiu-Ea, Z. Yunkuna, C. Xingguo, H. Zhide, X. Qiheng
Food Chem., **65**, 405 (1999).
5489. Capillary enzyme immunoassay with electrochemical detection for determining indole-3-acetic acid in tomato embryos
H. Gao, T. Jiang, W. R. Heineman, H. B. Halsall, J. L. Caruso

- Fresenius' J. Anal. Chem.*, **364**, 170 (1999).
5490. New enzyme sensors for morphine and codeine based on morphine dehydrogenases and laccase
C. G. Bauer, A. Kuhn, N. Gajovic, O. Skorobogatko, Peter-John. Holt, N. C. Bruce, A. Makower, C. R. Lowe, F. W. Scheller
Fresenius' J. Anal. Chem., **364**, 179 (1999).
5491. Flow injection analysis of hydrogen peroxide in disinfectants
D. Harms, R. Than, B. Krebs, U. Karst
Fresenius' J. Anal. Chem., **364**, 184 (1999).
5492. Determination of citric acid in soft drinks using flow injection with potentiometric detection
J. L. F. C. Lima, C. Delerue-Matos, M. C. V. F. Vaz, J. Silva
Fresenius' J. Anal. Chem., **364**, 266 (1999).
5493. Spectrofluorometric determination of hesperidin by manual and flow-injection methods
T. Perez-Ruiz, C. Martinez-Lozano, V. Tomas, J. Fenoll
Fresenius' J. Anal. Chem., **364**, 279 (1999).
5494. Automated continuous monitoring of drug dissolution process using a flow injection online dialysis sampling. Solvent extraction separation spectrophotometric system
Q. Fang, Y.-Q. Sun, Z.-L. Fang
Fresenius' J. Anal. Chem., **364**, 347 (1999).
5495. Determination of total nitrogen in food by flow injection analysis (FIA) with a potentiometric differential detection system
J. L. F. C. Lima, M. C. B. S. M. Montenegro, A. P. M. M. O. Pinto
Fresenius' J. Anal. Chem., **364**, 353 (1999).
5496. Determination of trace impurities in high purity copper using sector-field ICP-MS. Continuous nebulization, flow injection analysis, and laser ablation
S. Pattberg, R. Matschat
Fresenius' J. Anal. Chem., **364**, 410 (1999).
5497. Preparation of an ion-selective electrode by chemical treatment of copper wire for the measurement of copper(II) and iodide by batch and flow-injection potentiometry
D. Dobcnik, M. Kolar, J. Komljenovic, N. Radic
Fresenius' J. Anal. Chem., **365**, 314 (1999).
5498. Indirect atomic absorption spectrometric determination of citric acid by continuous precipitation
M. C. Yebra, R. M. Cespon
Fresenius' J. Anal. Chem., **365**, 370 (1999).
5499. Sequential determination of carbon dioxide and free sulfur dioxide in wine by flow-injection pervaporation with in series potentiometric-photometric detection
E. Mataix, M. D. Luque de Castro
Fresenius' J. Anal. Chem., **365**, 377 (1999).
5500. A novel chemiluminescence flow-through sensor for the determination of analgin
Yu-Ming Huang, C. Zhang, Xin-Rong Zhang, Zhu-Jun Zhang
Fresenius' J. Anal. Chem., **365**, 381 (1999).
5501. Studies on the determination of superoxide anion radical ($O_2^- \cdot$) and superoxide dismutase (SOD) activity by flow-injection spectrophotometry
M. Du, Fang-Zhen Liang, B. Tang, Han-Xi Shen
Gaodeng Xuexiao Huaxue Xuebao, **20**, 369 (1999).
5502. Studies on the on-line anion exchange preconcentration for graphite furnace atomic absorption spectrometry
Xing-Guang Su, Han-Qi Zhang, F. Liang, Qin-Han Jin, Suo-Zhu Bai
Gaodeng Xuexiao Huaxue Xuebao, **20**, 1189 (1999).
5503. Determination of zirconium, niobium, hafnium and tantalum at ng g⁻¹ levels in geological materials by direct nebulization of sample HF solution into FI-ICP-MS
A. Makishima, E. Nakamura, T. Nakano
Geostand. Newslett., **23**, 7 (1999).
5504. Flow Injection-Furnace Coupling or "Is the quartz cuvette extinct?"
A. Meyer, M. Feuerstein, G. Schlemmer
GIT Lab. J., **3**, 44 (1999).
5505. Determination of trace Si in water by stopped-flow injection chemiluminescence
Y. Qin, X. Yang, Y. Yang
Gongye Shuichuli, **19**, 32 (1999).
5506. Study on determination of gallium in traditional Chinese medicines by the flow injection chemiluminescence method
W. Li, J. Gao
Guangdong Weiliang Yuansu Kexue, **6**, 50 (1999).
5507. Stop-flow-spectrophotometry flow injection complexometric titration determination of aluminum
Lun-Jun Bao, Wei-Da Liang
Guangpu Shiyanshi, **16**, 294 (1999).
5508. Determination of trace chromium and nickel in human hair using FAAS with flow injection extraction system
S. Chen, R. Wu, S. Lin
Guangpuxue Yu Guangpu Fenxi, **19**, 78 (1999).
5509. Study of a new spectrometer coupled with

- flow injection and CCD diode array for multi-components simultaneous determination
 J. Yang, Y. Li, Y. Ha, J. Hu
Guangpuxue Yu Guangpu Fenxi, **19**, 212 (1999).
5510. Flow injection analysis of 3,4-dihydroxybenzoic acid with inhibited chemiluminescence detection
 H. Cui, H. Jiang, R. Meng, C. He, H. Zhao
Guangpuxue Yu Guangpu Fenxi, **19**, 377 (1999).
5511. Flow injection analysis for trace phosphorus(V) and arsenic(V) determination
 G. Song
Guangpuxue Yu Guangpu Fenxi, **19**, 466 (1999).
5512. Flow injection on-line preconcentration with anion-exchange resin and flame atomic absorption spectrometric determination of trace cadmium
 X. Mao, H. Chen, J. Jin, Y. Chen, G. Zhu
Hangzhou Daxue Xuebao, Ziran Kexueban, **26**, 59 (1999).
5513. Investigation and evaluation on the flow injection-derivative-atomic absorption spectrometry
 Han-Wen Sun, Xiao Luo, De-Qiang Zhang
Hebei Daxue Xuebao, Ziran Kexueban, **19**, 132 (1999).
5514. Study on determination of nicotine in tobacco by flow injection potentiometry
 J. Yang, G. Shao, Z. Duan, M. Sun
Huaxue Shijie, **40**, 43 (1999).
5515. Application of FIA-ICP-AES in bio-sample analysis
 L. Shao
Huaxue Shijie, **40**, 288 (1999).
5516. Application of orthogonal test in flow injection-hydride-graphite atomic absorption analysis
 Y. Wang, S. Liang, L. Kuang
Huaxue Yanjiu Yu Yingyong, **11**, 431 (1999).
5517. A novel immobilized enzyme flow-injection system for urea with a bulk acoustic wave impedance sensor as detector
 X. Su, H. Tan, L. Bao, W. Wei, S. Yao
Instrum. Sci. Technol., **27**, 31 (1999).
5518. Influence of single bead string reactors on zone penetration and the isodispersion point in sequential injection analysis
 J. F. van Staden, T. McCormack
Instrum. Sci. Technol., **27**, 167 (1999).
5519. Zr(IV)-SPADNS flow analysis procedure for determination of fluoride in surface and groundwater
 R. M. Patel, K. S. Patel, M. L. Naik
Int. J. Environ. Stud., **56**, 745 (1999).
5520. Cyclodextrin-Based Optosensor for the Determination of Warfarin in Waters
 R. Badia, M. E. Diaz-Garcia
J. Agric. Food Chem., **47**, 4256 (1999).
5521. Determination of high molecular weight β -glucan in wort and malt by post-column calcofluor flow-injection analysis
 H. Maeba, D. Allsopp, T. Asakura, B. Fung, N. Hatakeyama, R. W. Joy, C. Kikuchi, K. Kitai, A. Kogin, G. Laycock, T. Morikawa, B. Nurdlund, K. Oshita, S. M. Sole, M. Tanaka
J. Am. Soc. Brew. Chem., **57**, 115 (1999).
5522. Automated high resolution mass spectrometry for the synthetic chemist
 G. Perkins, F. Pullen, C. Thompson
J. Am. Soc. Mass Spectrom., **10**, 546 (1999).
5523. Pre-concentration system for bismuth determination in urine using FI-ICP-AES with ultrasonic nebulization
 S. Moyano, J. A. Gasquez, R. Olsina, E. Marchevsky, L. D. Martinez
J. Anal. At. Spectrom., **14**, 259 (1999).
5524. Determination of arsenic in organic solvents and wines using microscale flow injection inductively coupled plasma mass spectrometry
 S. Wangkarn, S. A. Pergantis
J. Anal. At. Spectrom., **14**, 657 (1999).
5525. Effectiveness of fullerene as a sorbent for the determination of trace amounts of cobalt in wheat flour by electrothermal atomic absorption spectrometry
 M. M. Gonzalez, M. Gallego, M. Valcarcel
J. Anal. At. Spectrom., **14**, 711 (1999).
5526. Determination of long-lived radionuclides by inductively coupled plasma quadrupole mass spectrometry using different nebulizers
 J. S. Becker, R. S. Soman, K. L. Sutton, J. A. Caruso, Hans-Joachim Dietze
J. Anal. At. Spectrom., **14**, 933 (1999).
5527. Flow injection on-line sorption preconcentration of trace amounts of copper and manganese in a knotted reactor precoated with 1-phenyl-3-methyl-4-benzoylpyrazol-5-one coupled with electrothermal atomic absorption spectrometry
 K. Benkhedda, E. Ivanova, F. Adams
J. Anal. At. Spectrom., **14**, 957 (1999).
5528. Plasma-source sector mass spectrometry with array detection

- D. A. Solyom, T. W. Burgoyne, G. M. Hieftje
J. Anal. At. Spectrom., **14**, 1101 (1999).
5529. Determination of thallium in sea-water by flow injection hydride generation isotope dilution inductively coupled plasma mass spectrometry
 Ming-Tsai. Wei, Shiu-Jen. Jiang
J. Anal. At. Spectrom., **14**, 1177 (1999).
5530. Comparison of silica-immobilized poly(L-cysteine) and 8-hydroxyquinoline for trace metal extraction and recovery
 M. Howard, H. A. Jurbergs, J. A. Holcombe
J. Anal. At. Spectrom., **14**, 1209 (1999).
5531. Determination of lead in tap water by ICP-AES with flow-injection on-line adsorption preconcentration using a knotted reactor and ultrasonic nebulization
 J. A. Salonia, J. A. Wuilloud, J. A. Gasquez, R. A. Olsina, L. D. Martinez
J. Anal. At. Spectrom., **14**, 1239 (1999).
5532. Application of double-focusing sector field ICP mass spectrometry with shielded torch using different nebulizers for ultratrace and precise isotope analysis of long-lived radionuclides
 J. S. Becker, Hans-Joachim Dietze
J. Anal. At. Spectrom., **14**, 1493 (1999).
5533. Simultaneous multi-element determination of hydride-forming elements by "in-atomizer trapping" electrothermal atomic absorption spectrometry on an iridium-coated graphite tube
 J. Murphy, G. Schlemmer, I. L. Shuttler, P. Jones, S. J. Hill
J. Anal. At. Spectrom., **14**, 1593 (1999).
5534. Extraction-chromatographic preconcentration with the chromatomembrane separation of the extract from the aqueous phase in flow analysis: determination of petroleum products in natural water
 A. L. Moskvin, L. N. Moskvin, A. V. Mozzhukhin, V. V. Fomin
J. Anal. Chem., **54**, 324 (1999).
5535. Determination of alkali metal ions by flow-injection amperometry at the interface of two immiscible electrolyte solutions in the presence of dicyclohexyl-18-crown-6
 A. A. Dunaeva, S. Wilke, N. V. Kolycheva, O. M. Petrukhin, H. Muller
J. Anal. Chem., **54**, 438 (1999).
5536. Catalytic spectrophotometric determination of cerium by ion exchange separation coupled to a flow injection system
 A. A. Ensafi, M. Zomorrodian
J. Anal. Chem., **54**, 442 (1999).
5537. Catalytic current of BrO_3^- and its use for the determination of chromium traces
 I. M. Fitsev, V. F. Toropova, E. V. Romadanskaya, L. A. Anisimova
J. Anal. Chem., **54**, 446 (1999).
5538. Electroinjection analysis: from a new method for sample mixing in flow-injection analysis to a novel analytical method
 V. P. Andreev
J. Anal. Chem., **54**, 681 (1999).
5539. Spectrophotometric flow injection determination of thiocyanate
 A. A. Ensafi, A. R. Fakhri
J. Anal. Chem., **54**, 949 (1999).
5540. Arsenic determination in certifiable color additives by dry ashing followed by hydride generation atomic absorption spectrometry
 N. M. Hepp
J. AOAC Int., **82**, 327 (1999).
5541. Optimization of an automated FI-FT-IR procedure for the determination of o-xylene, toluene and ethyl benzene in n-hexane
 I. Wells, P. J. Worsfold
J. Autom. Methods Manage. Chem., **21**, 113 (1999).
5542. Flow-injection sandwich ELISA for bioprocess monitoring
 J. I. Rhee, J. Hagedorn, T. Scheper, K. Schuggerl
J. Autom. Methods Manage. Chem., **21**, 121 (1999).
5543. High performance flow injection analysis of recombinant Protein G
 J. Hagedorn, C. Kasper, R. Freitag, T. Tennikova
J. Biotechnol., **69**, 1 (1999).
5544. Development of a highly sensitive chemiluminescence flow-injection analysis sensor for phosphate-ion detection using maltose phosphorylase
 H. Nakamura, M. Hasegawa, Y. Nomura, Y. Arikawa, R. Matsukawa, K. Ikebukuro, I. Karube
J. Biotechnol., **75**, 127 (1999).
5545. Determination of gaseous analytes in flow systems. A review
 C. Pasquini, M. C. H. D. Silva
J. Braz. Chem. Soc., **10**, 85 (1999).
5546. Studies of an alkaline activated glassy carbon electrode on the determination of purines and DNA
 Tzyh-Chyang Tang, Hsuan-Jung Huang
J. Chin. Chem. Soc., **46**, 233 (1999).
5547. Liquid chromatography with electrocatalytic detection of oxalic acid by a palladium-

- based glassy carbon electrode
I. G. Casella, C. G. Zambonin, F. Prete
J. Chromatogr., A, **833**, 75 (1999).
5548. Online solid-phase extraction liquid chromatography-continuous flow frit fast atom bombardment mass spectrometric and tandem mass spectrometric determination of hydrolysis products of nerve agents alkyl methylphosphonic acids by p-bromophenacyl derivatization
M. Katagi, M. Tatsuno, M. Nishikawa, H. Tsuchihashi
J. Chromatogr., A, **833**, 169 (1999).
5549. Nickel content dependence of electrochemical behavior of carbohydrates on a titanium-nickel alloy electrode and its application to a liquid chromatography detector
M. Morita, O. Niwa, S. Tou, N. Watanabe
J. Chromatogr., A, **837**, 17 (1999).
5550. Development of an on-line coupling of liquid-liquid extraction, ormal-phase liquid chromatography and high-resolution gas chromatography producing an analytical marker for the prediction of mutagenicity and carcinogenicity of bitumen and bitumen fumes
J. Blomberg, P. C. De Groot, H. C. A. Brandt, J. J. B. Van der Does, P. J. Schoenmakers
J. Chromatogr. A, **849**, 483, (1999).
5551. Analysis of wastewater for anionic and cationic nutrients by ion chromatography in a single run with sequential flow injection analysis
S. V. Karmarkar
J. Chromatogr., A, **850**, 303 (1999).
5552. Characterization of nonyl phenol ethoxylates in sewage treatment plants by combined precursor ion scanning and multiple reaction monitoring
J. B. Plomley, P. W. Crozier, V. Y. Taguchi
J. Chromatogr. A, **854**, 245 (1999).
5553. Ruthenium purple-containing zeolite modified electrodes and their application for the detection of glucose
C. F. Chen, C. M. Wang
J. Electroanal. Chem., **466**, 82 (1999).
5554. Rotating disk electrode amperometric detection for a bead-based immunoassay
C. A. Wijayawardhana, S. Purushothama, M. A. Cousino, H. B. Halsall, W. R. Heineman
J. Electroanal. Chem., **468**, 2 (1999).
5555. A review of a new voltammetric method for determining acids
K. Takamura, T. Fuse, K. Arai, F. Kusu
J. Electroanal. Chem., **468**, 53 (1999).
5556. Nickel(II) tetraaza macrocycle modified electrodes for the electrocatalytic determination of l-ascorbic acid by the flow injection method
Zun-Ung. Bae, Jeong-Hyun. Park, Sang-Hak. Lee, Hye-Young. Chang
J. Electroanal. Chem., **468**, 85 (1999).
5557. Electrocatalytic reduction of nitrite at a carbon fiber microelectrode chemically modified by palladium(II)-substituted Dawson type heptadecatungstodiphosphate
W. Sun, S. Zhang, X. Lin, L. Jin, S. Jin, J. Deng, J. Kong
J. Electroanal. Chem., **469**, 63 (1999).
5558. Validation of a diffusive sampler for NO₂
A. Hagenbjork-Gustafsson, R. Lindahl, Jan-Olof. Levin, D. Karlsson
J. Environ. Monit., **1**, 349 (1999).
5559. Biomonitoring of antimony in environmental matrices from terrestrial and limnic ecosystems
M. Krachler, M. Burow, H. Emaons
J. Environ. Monit., **1**, 477 (1999).
5560. Electrochemical detection in micro flow system
M. Goto
J. Flow Injection Anal., **16**, 9 (1999).
5561. Speciation of metal ions by flow injection analysis
H. Itabashi, Y. Takazawa, H. Kawamoto
J. Flow Injection Anal., **16**, 25 (1999).
5562. Flow injection determination of Se(IV) and Se(VI) in freshwaters using preconcentration on quaternary amine anion exchange resin, hydride generation and ICP-AES detection
R. A. Nickson, S. J. Hill, P. J. Worsfold
J. Flow Injection Anal., **16**, 45 (1999).
5563. Effects of the ethanol concentrations of the sample and carrier on sample dispersion in flow injection analysis. II
S. J. Liu, M. Tubino
J. Flow Injection Anal., **16**, 55 (1999).
5564. The effect of substance diffusion on the sensitivity and peak shape of different injection modes in a single-channel flow injection manifold
Y. Li, H. Ma
J. Flow Injection Anal., **16**, 69 (1999).
5565. On-site chemical analysis for nitrogen, phosphorus and sulfur compounds in the environment and sensitive determination by microflow injection method
L. Ma, T. Tsuboi, T. Hattori, M. Oshima, T. Takayanagi, S. Motomizu
J. Flow Injection Anal., **16**, 79 (1999).
5566. Potentiometric determination of L-malate

- using ion-selective electrode in flow injection analysis system
In-Sook Kwun, Hye-Sung Lee, M. Kim
J. Food Sci. Nutr., **4**, 79 (1999).
5567. Determination of total residual chlorine by flow injection analysis
Yong-Wook Choi
J. Korean Chem. Soc., **43**, 430 (1999).
5568. Quantitative measurement of different ceramide species from crude cellular extracts by electrospray ionization tandem mass spectrometry (ESI-MS/MS)
G. Liebisch, W. Drobniak, M. Reil, B. Trumbach, R. Arnecke, B. Olgemoller, A. Roscher, G. Schmitz
J. Lipid Res., **40**, 1539 (1999).
5569. Elucidation of the triglycerides in fish oil by packed-column supercritical fluid chromatography fractionation followed by capillary electrochromatography and electrospray mass spectrometry
A. Dermaux, A. Medvedovici, M. Ksir, E. Van Hove, M. Talbi, P. Sandra
J. Microcolumn Sep., **11**, 451 (1999).
5570. Characterization method for a new diffusion mixer applicable in micro flow injection analysis systems
T. T. Veenstra, T. S. J. Lammerink, M. C. Elwenspoek, A. Van den Berg.
J. Micromech. Microeng., **9**, 199 (1999).
5571. Enzymically modified ion-selective electrodes for flow injection analysis
R. Koncki, I. Walcerz, E. Leszczynska
J. Pharm. Biomed. Anal., **19**, 633 (1999).
5572. Flow injection analysis of mercury(II) in pharmaceuticals based on enzyme inhibition and biosensor detection
P. Bertocchi, E. Ciranni, D. Compagnone, V. Magearu, G. Palleschi, S. Pirvutoiu, L. Valvo
J. Pharm. Biomed. Anal., **20**, 263 (1999).
5573. Flow-injection fluorimetric determination of 1,4-benzodiazepines in pharmaceutical formulations after acid hydrolysis
J. Dolejsova, P. Solich, Ch. K. Polydorou, M. A. Koupparis, C. E. Efstathiou
J. Pharm. Biomed. Anal., **20**, 357 (1999).
5574. A comparison of inductively coupled plasma mass spectrometry with electrothermal atomic absorption spectrophotometry for the determination of trace elements in blood and urine from non occupational exposed populations
M. A. White
J. Trace Elem. Med. Biol., **13**, 93 (1999).
5575. Online monitoring system of lactic acid fermentation using integrated enzyme sensors
M. Suzuki, T. Kumagai, Y. Nakashima
Kagaku Kogaku Ronbunshu, **25**, 177 (1999).
5576. Analysis and treatment of cyanide compounds. 3. Analysis
M. Nonomura
Kogyo Yosui, **490**, 39 (1999).
5577. Automation of copper, nickel, and chloride analysis in process solution of copper electrolysis
Y. Hayashibe, H. Sakurai, M. Kata, N. Suzuki
Kozan, **52**, 34 (1999).
5578. Automated determination of orthophosphate using flow injection analyzer. Substitution from segmental-flow analysis
T. Morita
Kyorin Igakkai Zasshi, **30**, 215 (1999).
5579. Flow-injection immunoanalysis, a versatile and powerful tool for the automatic determination of environmental pollutants
Z. Zhi
Lab. Rob. Autom., **11**, 83 (1999).
5580. Chemiluminescence and bioluminescence monitoring. A flow - injection approach
A. Nabi, M. Yaqoob, M. Anwar
Lab. Rob. Autom., **11**, 91 (1999).
5581. Simultaneous determination of fluoride and phenolics in water using flow-injection analysis
J. R. Farrell, P. J. Iles, T. J. Sands
Lab. Rob. Autom., **11**, 105 (1999).
5582. Design of a very versatile software program for automating analytical methods
E. Becerra, A. Cladera, V. Cerdá
Lab. Rob. Autom., **11**, 131 (1999).
5583. Determination of chromium(VI) by flow-injection spectrophotometry coupled with on-line microcolumn preconcentration
W. Ma, R. Cai, D. Chen
Lab. Rob. Autom., **11**, 141 (1999).
5584. An on-line determination of chlorine dioxide using chlorophenol red by gas diffusion flow-injection analysis
H. Chen, Y. Fang, Y. Li, T. An
Lab. Rob. Autom., **11**, 157 (1999).
5585. Flow-injection potentiometric determination of iron (III) in vitamin formulations using a tubular ion-selective electrode in oxalic medium
M. F. S. Teixeira, O. Fatibello-Filho, C. Aniceto, C. O. C. Neto
Lab. Rob. Autom., **11**, 163 (1999).
5586. Use of FIA systems for on-line dilution in multielement determination by ICP-MS

- J. A. G. Neto, J. B. B. Silva, I. G. Souza, A. J. Curtius
Lab. Rob. Autom., **11**, 240 (1999).
- 5587.** FIA photometric determination of NO_3^- and NO_2^- in blood serum
 H. Ma, R. Liu, J. Li, W. Xiao
Lihua Jianyan, Huaxue Fence, **35**, 72 (1999).
- 5588.** Study on FIA-chemiluminescence determination of citric acid
 W. Li, Z. Zhang
Lihua Jianyan, Huaxue Fence, **35**, 81 (1999).
- 5589.** Automatic FIA-photometric determination of micro copper in water
 Q. Liao, H. Xu, D. Ge, J. Xu
Lihua Jianyan, Huaxue Fence, **35**, 115 (1999).
- 5590.** r-FIA-chemiluminescence determination of trace cobalt(II) in natural water
 G. Li, L. Li, C. Kuang, J. Wang
Lihua Jianyan, Huaxue Fence, **35**, 149 (1999).
- 5591.** FIA-FAAS determination of iron, nickel and copper in caustic soda
 Y. Zhang
Lihua Jianyan, Huaxue Fence, **35**, 174 (1999).
- 5592.** Simultaneous determination of micro iron(III) and titanium(IV) in electrocasting solution
 Y. Chen, H. Ji
Lihua Jianyan, Huaxue Fence, **35**, 262 (1999).
- 5593.** Characteristics of immobilized L-glutamic decarboxylase on CM-CADB resin
 G. Wu, D. Ling, C. Wang, F. Wang, G. Song
Lizi Jiaohuan Yu Xifu, **15**, 71 (1999).
- 5594.** Determination of Cr(III) and Cr(VI) in tobacco by one-line preconcentration flame atomic absorption spectrometry
 A. Gaspar, C. Sogor, J. Posta
Magy. Kem. Foly., **105**, 22 (1999).
- 5595.** Application of Combined Flow Injection-Electrochemical Quartz Crystal Microgravimetry to Online Electrodeposition and Compositional Analysis of CdSe Thin Films
 N. Myung, J. H. Jun, H. B. Ku, H. Chung, K. Rajeshwar
Microchem. J., **62**, 15 (1999).
- 5596.** Comparison of the Binding Constant of Decanesulfonate with beta.-Cyclodextrin as Determined by Liquid Chromatography with a Water Mobile Phase and Flow Injection Analysis Coupled with Dynamic Surface Tension Detection
 T. E. Young, K. E. Miller, R. E. Synovec
Microchem. J., **62**, 70 (1999).
- 5597.** Determination of Ultratrace Selenium and Arsenic at Parts-per-Trillion Levels in Environmental and Biological Samples by Atomic Fluorescence Spectrometry with Flow Injection Hydride Generation Technique
 L. Wei, P. Gupta, R. Hernandez, F. Farhat
Microchem. J., **62**, 83 (1999).
- 5598.** Flow Injection Hydride Generation Atomic Absorption Spectrometry for Determination of Arsenic in Water and Biological Samples from Arsenic-Affected Districts of West Bengal, India, and Bangladesh
 G. Samanta, T. R. Chowdhury, B. K. Mandal, B. K. Biswas, U. K. Chowdhury, G. K. Basu, C. R. Chanda, D. Lodh, D. Chakraborti
Microchem. J., **62**, 174 (1999).
- 5599.** Ion-Pairing Flow Injection Analysis of Phenobarbiturate with Piezoelectric Detection
 Z. Mo, X. Long, Y. Xu, X. Zhou
Microchem. J., **62**, 251 (1999).
- 5600.** Chemiluminescent Determination of Glucose with a Modified Carbon Paste Electrode
 G. Xu, J. Zhang, S. Dong
Microchem. J., **62**, 259 (1999).
- 5601.** Flow Injection Semi-online Sorbent Extraction Preconcentration for Graphite Furnace Atomic Absorption Spectrometry
 Q. Jin, X. Su, F. Liang, H. Zhang.
Microchem. J., **62**, 316 (1999).
- 5602.** Online Trace Enrichment and Determination of Cobalt Ion as an Anionic Complex by Flow Injection Atomic Absorption Spectrometry
 S. Dadfarnia, M. H. Jafarzadeh
Microchem. J., **63**, 226 (1999).
- 5603.** Electroanalytical behavior of a nanoarray self-assembled thiocholesterol gold electrode
 Z. Yang, Jean-Michel Kauffmann, M.-I. A. Valenzuela, S. Ozkan
Mikrochim. Acta, **131**, 85 (1999).
- 5604.** Direct determination of trace elements in sea water by ICP-MS
 Y. Kikawada
Nippon Kaisui Gakkaishi, **53**, 115 (1999).
- 5605.** Flow injection analysis of γ -aminobutyric acid in GABA-enriched tea
 H. Horie, Y. Sawai, K. Kohata
Nippon Shokuhin Kagaku Kogaku Kaishi, **46**, 494 (1999).

5606. Reevaluation of the Griess Method for Determining NO/NO₂ in Aqueous and Protein-Containing Samples
K. Schulz, S. Kerber, M. Kelm
Nitric Oxide, **3**, 225 (1999).
5607. Determination of fluoride in toothpaste, effluent streams and natural and borehole water using a flow injection system with a fluoride-selective membrane electrode
Raluca-Ioana Stefan, J. F. van Staden, H. Y. Aboul-Enein
Pharm. Acta Helv., **73**, 307 (1999).
5608. Analytical options for control of acids and bases in hydrometallurgical processes
F. Albertus, I. Cortes, Lars-Goran Danielsson, F. Ingman
Process Control Qual., **11**, 289 (1999).
5609. A fiber optic laser induced fluorescence excitation emission detector applied to flow injection analysis
S. J. Hart, G. J. Hall, J. E. Kenny
Proc. SPIE-Int. Soc. Opt. Eng., **3534**, 601 (1999).
5610. Determination of the antioxidant octylgallate in food using a polypyrrole electrode modified with nickel phthalocyanine complex. First measurements in a FIA system
A. Guadarrama, C. De la Fuente, J. A. Acuna, M. D. Vazquez, M. L. Tascon, P. S. Batanero
Quim. Anal., **18**, 209 (1999).
5611. Electrodissolution of brass alloys employing flow systems for determination of copper, zinc and lead by ICP-AES
A. P. G. Gervasio, G. C. de Luca, A. A. Menegario, H. B. Filho, B. F. dos Reis, I. G. de Souza
Quim. Nova, **22**, 669 (1999).
5612. Determination of lanthanum in Luminol-H₂O₂-Cr(III) system byflow injection chemiluminescence
Z. Zhu, Q. Zhou
Rare Met., **18**, 225 (1999).
5613. Analysis system and method for determination of hypochlorite in water with detection by chemiluminescence
M. C. Cheregi, J. V. Garcia Mateo, J. Martinez Calatayud, A. F. Danet
Rev. Chim., **50**, 325 (1999).
5614. Surgical center air contamination by volatile organic compounds and carbon dioxide
F. V. Almeida, R. M. Alberici, F. S. Braga, W. F. Jardim
Rev. Bras. Anestesiol., **49**, 190 (1999).
5615. Whole blood selenium content in pregnant women
E. Ferrer, A. Alegria, R. Barbera, R. Farre, M. J. Lagarda, J. Monteon
Sci. Total Environ., **227**, 139 (1999).
5616. Selenium contents of human milk and infant formulas in Spain
M. A. Torres, J. Verdo, A. Alegria, R. Barbera, R. Farre, M. J. Lagarda
Sci. Total Environ., **228**, 185 (1999).
5617. Determination of S-perindopril using a flow injection system with an amperometric biosensor
Raluca-Ioana Stefan, J. F. Van Staden, H. Y. Aboul-Enein
Sens. Actuators, B, **B54**, 261 (1999).
5618. Flow injection indirect amperometric detection of ammonium ions using a clinoptilolite-modified electrode
A. Walcarius, V. Vromman, J. Bessiere
Sens. Actuators, B, **B56**, 136 (1999).
5619. Chemiluminescence reaction of isoniazid-luminol-sodium hypochlorites
L. Zhang, F. Nie, M. Feng, J. Lu
Shaanxi Shifan Daxue Xuebao, Ziran Kexueban, **27**, 79 (1999).
5620. Food analysis based on biosensor/flow injection analysis
H. Ukeda
Shokuhin Kogyo, **42**, 45 (1999).
5621. Online monitoring of calcium in natural, borehole, and boiler feed water with a flow injection system using a calcium-selective membrane electrode as a sensor
J. F. Van Staden, R. I. Stefan
S. Afr. J. Chem., **52**, 24 (1999).
5622. Simultaneous determination of certain selected trace elements with an on-line preconcentrating flow injection ICP-OES system
H. Du Plessis, C. J. Rademeyer, J. F. V. Staden
S. Afr. J. Chem., **52**, 27 (1999).
5623. Simultaneous spectrophotometric determination of nitrate and nitrite in foodstuffs and water by flow injection analysis
J. F. Van Staden, M. Makhafola
S. Afr. J. Chem., **52**, 49 (1999).
5624. Determination of trace elements in pharmaceutical substances by graphite furnace atomic absorption spectrometry and total reflection X-ray fluorescence after flow injection ion-exchange preconcentration
A. Kelko-Levai, I. Varga, K. Zih-Perenyi, A. Lasztity
Spectrochim. Acta, Part B, **54B**, 827 (1999).

5625. Electrothermal atomization atomic absorption spectrometry for the determination of lead in urine: results of an interlaboratory study
 P. J. Parsons, W. Slavin
Spectrochim. Acta, Part B, **54B**, 853 (1999).
5626. Microcolumn sorption of antimony(III) chelate for antimony speciation studies
 S. Garbos, M. Rzepecka, E. Bulska, A. Hulanicki
Spectrochim. Acta, Part B, **54B**, 873 (1999).
5627. Determination of total and inorganic mercury in biological and environmental samples with on-line oxidation coupled to flow injection-cold vapor atomic absorption spectrometry
 S. Rio-Segade, C. Bendicho
Spectrochim. Acta, Part B, **54B**, 1129 (1999).
5628. On-line coupling of electrochemical preconcentration in tungsten coil electrothermal atomic absorption spectrometry for determination of lead in natural waters
 F. Barbosa Jr., F. J. Krug, E. C. Lima
Spectrochim. Acta, Part B, **54B**, 1155 (1999).
5629. On line dissolution of ZnS for sulfide determination in stabilized water samples with zinc acetate, using spectrophotometry by methylene blue method
 R. J. Cassella, L. G. De Oliveira, R. E. Santelli
Spectrosc. Lett., **32**, 469 (1999).
5630. Determination of bismuth in biological samples using online flow-injection microwave-assisted mineralization and precipitation/dissolution for electrothermal atomic absorption spectrometry
 J. L. Burguera, M. Burguera, C. Rivas, C. Rondon, P. Carrero, M. Gallignani
Talanta, **48**, 885 (1999).
5631. A low consumption air-segmented sequential injection vapor generation system for the determination of mercury by atomic absorption spectrometry
 H. Ma, Z. Fang, J. Wu, S. Liu
Talanta, **49**, 125 (1999).
5632. A chemometric study of the simultaneous determination of calcium and magnesium in natural waters
 F. B. Gomez, F. B. Reig, P. C. Falco
Talanta, **49**, 155 (1999).
5633. Flow injection dialysis for the determination of anions using ion chromatography
 K. Grudpan, J. Jakmunee, P. Sooksamiti
Talanta, **49**, 215 (1999).
5634. A stopped-flow microdialysis sampling-flow injection system for automated multivessel high resolution drug dissolution testing
 Qun. Fang, Shu-Sheng. Liu, Jin-Feng. Wu, Yu-Qing. Sun, Zhao-Lun. Fang
Talanta, **49**, 403 (1999).
5635. Determination of arsenic in sea water by sorbent extraction with hydride generation atomic absorption spectrometry
 S. Karthikeyan, T. P. Rao, C. S. P. Iyer
Talanta, **49**, 523 (1999).
5636. Flow injection potentiometry for enzymatic assay of cholesterol with a tungsten electrode sensor
 M. Situmorang, P. W. Alexander, D. B. Hibbert
Talanta, **49**, 639 (1999).
5637. Low-level mercury determination with thiamine by fluorescence optosensing
 A. Segura-Carretero, J. M. Costa-Fernandez, R. Pereiro, A. Sanz-Medel
Talanta, **49**, 907 (1999).
5638. SIAmate-a compact and modular sequential injection analysis controller
 N. Kullberg, M. Vilen, P. Sund, M. Talaslahti, R. Sara
Talanta, **49**, 961 (1999).
5639. Automated nucleic acid isolation and purification from soil extracts using renewable affinity microcolumns in a sequential injection system
 D. P. Chandler, B. L. Schuck, F. J. Brockman, C. J. Bruckner-Lea
Talanta, **49**, 969 (1999).
5640. Does the chromatomembrane cell improve the quality of environmental analysis?
 J. Simon, L. N. Moskvin
Talanta, **49**, 985 (1999).
5641. Design of two channel flow cells for simultaneous determination of copper and iron
 T. Sakai, Y. Maeda, N. Ura
Talanta, **49**, 989 (1999).
5642. On-line extraction-spectrophotometric determination of neostigmine in pharmaceuticals using double membrane phase separator and monovalent dyestuff
 T. Sakai, X. Liu, Y. Maeda
Talanta, **49**, 997 (1999).
5643. Simultaneous potentiometric determination of ClO_3^- - ClO_2^- and ClO_3^- - HClO by flow injection analysis using Fe(III)-Fe(II) potential buffer
 H. Ohura, T. Imato, S. Yamasaki

- Talanta*, **49**, 1003 (1999).
5644. Simultaneous flow injection determination of calcium and fluoride in natural and borehole water with conventional ion-selective electrodes in series
J. F. Van Staden, R. I. Stefan
Talanta, **49**, 1017 (1999).
5645. Flow injection spectrophotometric or conductometric determination of ascorbic acid in a vitamin C tablet using permanganate or ammonia
K. Grudpan, K. Kamfoo, J. Jakmunee
Talanta, **49**, 1023 (1999).
5646. Selective flow injection analysis of ultra-trace amounts of Cr(VI), preconcentration of it by solvent extraction, and determination by electrothermal atomic absorption spectrometry (ETAAS)
S. C. Nielsen, S. Sturup, H. Spliid, E. H. Hansen
Talanta, **49**, 1027 (1999).
5647. Chemiluminescence method for the assay of perphenazine in drug formulation using permanganate in sulphuric acid with flow injection technique and a chemometrical optimization approach
S. M. Sultan, A. M. S. Abdennabi, A. M. Almuaibed
Talanta, **49**, 1051 (1999).
5648. Determination of iron(II) and total iron in environmental water samples by flow injection analysis with column preconcentration of chelating resin functionalized with N-hydroxyethylenediamine ligands and chemiluminescence detection
S. Hirata, H. Yoshihara, M. Aihara
Talanta, **49**, 1059 (1999).
5649. Flow-injection spectrophotometry of manganese by catalysis of the periodate oxidation of 2,2'-azinobis(3-ethylbenzothiazoline-6-sulfonic acid)
S. Nakano, K. Tanaka, R. Oki, T. Kawashima
Talanta, **49**, 1077 (1999).
5650. Catalytic flow injection determination of vanadium by oxidation of N-(3-sulfopropyl)-3,3',5,5'-tetramethylbenzidine using bromate
T. Shiobara, N. Teshima, M. Kurihara, S. Nakano, T. Kawashima
Talanta, **49**, 1083 (1999).
5651. Catalytic determination of cobalt at sub-nanogram levels using the oxidative coupling of 3-methyl-2-benzothiazolinone hydrazone with N-ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxyaniline by manual and flow-injection methods
T. Fujimoto, N. Teshima, M. Kurihara, S. Nakano, T. Kawashima
Talanta, **49**, 1091 (1999).
5652. Spectrophotometric determination of Cu(II) with sequential injection analysis
J. F. Van Staden, A. Botha
Talanta, **49**, 1099 (1999).
5653. Flow-injection determination of copper(II) based on its catalysis on the redox reaction of cysteine with iron(III) in the presence of 1,10-phenanthroline
N. Teshima, H. Katsumata, M. Kurihara, T. Sakai, T. Kawashima
Talanta, **50**, 41 (1999).
5654. Extraction-chromatographic preconcentration with chromatomembrane separation of extract from aqueous phase for luminescence determination of oil products and phenols in natural water by flow injection analysis
A. L. Moskvin, L. N. Moskvin, A. V. Moszhuchin, V. V. Fomin
Talanta, **50**, 113 (1999).
5655. A flow system with an electrochemical reduction cell for spectrophotometric determinations of major constituents in Fe/V alloys
A. O. Jacintho, L. F. R. Machado, A. A. Menegario, I. A. Rufini, M. F. Gine
Talanta, **50**, 247 (1999).
5656. Colorimetric determination of copper in aqueous samples using a flow injection system with a pre-concentration poly(ethylenimine) column
A. N. Araujo, R. C. C. Costa, J. Alonso-Chamarro
Talanta, **50**, 337 (1999).
5657. Optical fiber coupled light emitting diode based absorbance detector with a reflective flow cell
S. Jambunathan, P. K. Dasgupta, D. K. Wolcott, G. D. Marshall, D. C. Olson
Talanta, **50**, 481 (1999).
5658. Flow injection determination of bromide ion in a developer using bromide ion-selective electrode detector
T. Masadome, Y. Asano, T. Nakamura
Talanta, **50**, 595 (1999).
5659. Transversely illuminated liquid core waveguide based fluorescence detection. Fluorometric flow injection determination of aqueous ammonium/ammonia
J. Li, P. K. Dasgupta, Z. Genfa
Talanta, **50**, 617 (1999).

5660. Determination of acetylsalicylic acid by FIA-potentiometric system in drugs after on-line hydrolysis
 L. T. Kubota, J. C. B. Fernandes L., Rover G. d. O. Neto
Talanta, **50**, 661 (1999).
5661. Flow-injection determination of trace amounts of dopamine by chemiluminescence detection
 L. Zhang, N. Teshima, T. Hasebe, M. Kurihara, T. Kawashima
Talanta, **50**, 677 (1999).
5662. Flow techniques in water analysis
 V. Cerda, J. M. Estela, R. Forteza, A. Cladera, E. Becerra, P. Altimira, P. Sitjar
Talanta, **50**, 695 (1999).
5663. An automatic flow-injection analysis system for determining phosphate ion in river water using pyruvate oxidase G (from *Aerococcus viridans*)
 H. Nakamura, H. Tanaka, M. Hasegawa, Y. Masuda, Y. Arikawa, Y. Nomura, K. Ikebukuro, I. Karube
Talanta, **50**, 799 (1999).
5664. Development of continuous high-sensitivity exhaust SO₂ analyzer
 F. Hoshino, T. Tanaka, O. Asami
Toyota Chuo Kenkyusho R&D Rebyu, **34**, 9 (1999).
5665. Continuous monitoring in drug dissolution testing using flow injection systems
 Zhao-Lun Fang, Q. Fang, Xue-Zhu Liu, Heng-Wu Chen, Chun-Lei Liu
TrAC, Trends Anal. Chem., **18**, 261 (1999).
5666. Sequential injection analysis: an alternative approach to process analytical chemistry
 N. W. Barnett, C. E. Lenehan, S. W. Lewis
TrAC, Trends Anal. Chem., **18**, 346 (1999).
5667. Post-column photochemical derivatization in high-performance liquid chromatography
 M. Lores, O. Cabaleiro, R. Cela
TrAC, Trends Anal. Chem., **18**, 392 (1999).
5668. Substance-specific detection and pursuit of non-eliminable compounds during biological treatment of waste water from the pharmaceutical industry
 H. Fr. Schroder
5669. Simultaneous online monitoring of ammonium, nitrite, nitrate, and phosphate in the runoff of municipal sewage treatment plants
 H. P. Beck, C. Klein, T. Ertunc
WLB, Wasser, Luft Boden, **43**, 34 (1999).
5670. Determination of trace non-rare earth elements in high purity rare earth oxides by ICP-AES
 H. Ji, Z. Jiang
Wuxi Qinggong Daxue Xuebao, **18**, 74 (1999).
5671. Preliminary studies on flow injection vapor generation atomic absorption spectrometry determination of silver
 S. Xu, M. Liu, Z. Xu, Z. Fang
Yankuang Ceshi, **18**, 15 (1999).
5672. Study on flow-injection chemiluminescence for determination of trace amount Os(IV) and its application
 H. Han, Z. He, Q. Luo, Y. Zeng
Yejin Fenxi, **19**, 1 (1999).
5673. Flow injection analysis sensitized by microemulsion for determination of manganese
 P. Yu, J. Gao, D. Zhang, S. Ba, G. Li
Yejin Fenxi, **19**, 24 (1999).
5674. Flow injection-lucigenin luminescence method for the determination of Mo in steel
 Z. Zhu
Yejin Fenxi, **19**, 42 (1999).
5675. Study on ammonium ion transfer in hollow fiber membrane extraction by on-line flow injection
 F. Zhang, G. Ma, D. Li, Y. Wu, L. Liu
Yingyong Huaxue, **16**, 58 (1999).
5676. Flow injection technique and its application in uranium analysis
 E. Zhang
Youkuangye, **18**, 58 (1999).
5677. Multi-enzyme biosensors with amperometric detection for determination of lactose in milk and dairy products
 N. Adanyi, E. E. Szabo, M. Varadi
Z. Lebensm.-Unters. Forsch. A, **209**, 220 (1999).