

## FIA Bibliography(25)

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

### 3328. FIA Bibliography(24)

A. Tanaka, *J.Flow Injection Anal.*, **12**, 255(1995).

3329. Micellar-catalysed reactions for flow injection systems. Determination of pyridoxal-5-phosphate  
A. Alonso, M. J. Almendral, F. Merino, S. P. Palmero, *Analyst*, **120**, 2401(1995).

3330. Biamperometric titration and flow injection determination of cyclamate in low-calorie products  
O. Fatibello-Filho, M. D. Capelato, S. A. Calafatti, *Analyst*, **120**, 2407(1995).

3331. Automatic determination of optimum dilution levels for laser-enhanced ionization detection of  
matrix-interfered sample by flow injection  
S. C. Wang, K. C. Lin, *Analyst*, **120**, 2593(1995).

3332. Flow injection spectrophotometric determination of silicate based on the formation of the ion associate  
between molybdate and malachite green  
J. Saurina, S. H. Cassou, *Analyst*, **120**, 2601(1995).

3333. Adsorption-concentration of ion associate formed between molybdate and malachite green on a  
miniature filter: Its application to trace and ultratrace determination of silicate  
J. P. Susanto, M. Oshima, S. Motomizu, *Analyst*, **120**, 2605(1995).

3334. Determination of inorganic phosphate by flow injection with fluorescence quenching  
E. Diacu, P. C. Ioannou, C. K. Polydorou, C. E. Efstatou, *Analyst*, **120**, 2613(1995).

3335. On-line preconcentration of nickel by carbonyl vaporization with flow injection and continuous flow  
systems in combination with sensitive determination by electrothermal atomic absorption spectrometry  
D. Erber, K. Cammann, *Analyst*, **120**, 2699(1995).

3336. Flow-through spectrofluorimetric sensor for the determination of glycerol in wine  
P. Canizares, M. D. L. de Castro, *Analyst*, **120**, 2837(1995).

3337. Flow injection amperometric determination of trace amounts of ammonium using a gas-diffusion cell  
as the sample loop  
R. Liu, B. Sun, I. Johns, *Analyst*, **120**, 2845(1995).

3338. Microscale flow injection and microbore high-performance liquid chromatography coupled with  
inductively coupled plasma mass spectrometry via a high-efficiency nebulizer  
S. A. Pergantis, E. M. Heithmar, T. A. Hinners, *Anal. Chem.*, **67**, 4530(1995).

3339. Simultaneous determination of nitrate and nitrite in biological samples by multichannel flow injection analysis  
P. F. Pratt, K. Nithipatikom, W. B. Campbell, *Anal. Biochem.*, **231**, 383(1995).
3340. Flow-injection method for the simultaneous determination of D-glucose and 3-hydroxybutyrate with co-immobilized enzyme reactors and a chemiluminometer  
N. Kiba, H. Koemado, M. Furusawa, *Anal. Sci.*, **11**, 605(1995).
3341. Enzymatic determination of gallotannin in green-tea infusions by a photometric flow-injection analytical method  
R. L. C. Chen, K. Matsumoto, *Anal. Sci.*, **11**, 777(1995).
3342. On-line pretreatment with cobalt(III) ions for a flow injection-spectrophotometric determination of organic phosphorus  
H. Tanaka, T. Fukuoka, K. Okamoto, *Anal. Sci.*, **11**, 787(1995).
3343. Kinetic behavior of ligand-displacement reaction of iron(II) and iron(III)-EGTA complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol by flow injection analysis and its application  
B. N. Wang, G. N. Tang, L. Y. Deng, *Anal. Sci.*, **11**, 857(1995).
3344. Microbial sensor for estimating organic acids in wine  
H. Ukeda, N. Yamamoto, M. Sawamura, K. Kusunobe, *Anal. Sci.*, **11**, 941(1995).
3345. Determination of the free fatty acid content in fats and oils by flow injection analysis with electrochemical detection  
K. Takamura, T. Fuse, F. Kusu, *Anal. Sci.*, **11**, 979(1995).
3346. Determination of uranium in tin tailings using 4-(2-pyridylazo)resorcinol by flow-injection analysis  
K. Grudpan, P. Sooksamiti, S. Laiwraungrath, *Anal. Chim. Acta*, **314**, 51(1995).
3347. Solid phase preconcentration-fourier transform infrared spectrometric determination of carbaryl and 1-naphthol  
Y. Daghbouche, S. Garrigues, M. D. Guardia, *Anal. Chim. Acta*, **314**, 203(1995).
3348. Effect of solvent properties on the dispersion coefficient in an on-line microwave flow-injection system  
X. Chen, Y. Xu, Z. Hu, *Anal. Chim. Acta*, **314**, 213(1995).
3349. Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion  
L. Woo, W. Maher, *Anal. Chim. Acta*, **315**, 123(1995).
3350. Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system  
Y. Okawa, H. Kobayashi, T. Ohno, *Anal. Chim. Acta*, **315**, 137(1995).
3351. Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine  
E. Ballesteros, M. Gallego, M. Valcarcel, F. Grases, *Anal. Chim. Acta*, **315**, 145(1995).
3352. Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III . Application for monitoring of recombinant animal cell cultivations  
H. Jurgens, R. Akhnoukh, G. Kretzmer, K. Schugerl, *Anal. Chim. Acta*, **315**, 153(1995).

3353. Sequential injection analysis of nitrites and nitrates  
M. T. Oms, A. Cerdá, V. Cerdá, *Anal. Chim. Acta*, **315**, 321(1995).
3354. On-line ion-exchange separation and determination of niobium, tantalum, tungsten, zirconium and hafnium in high-purity iron by flow injection inductively coupled plasma mass spectrometry  
A. G. Coedo, T. D. Lopez, F. Alguacil, *Anal. Chim. Acta*, **315**, 331(1995).
3355. Self-configuration of sequential injection analytical systems  
A. Rius, M. P. Callao, F. X. Rius, *Anal. Chim. Acta*, **316**, 27(1995).
3356. An on-line flow-injection analysis system for the determination of acetate  
M. Tservistas, B. Weigel, K. Schugerl, *Anal. Chim. Acta*, **316**, 117(1995).
3357. Flow-injection chemiluminescence determination of ultra low concentrations of nitrite in water  
P. Mikuska, Z. Vecera, Z. Zdrahal, *Anal. Chim. Acta*, **316**, 261(1995).
3358. Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters  
I. D. McKelvie, B. T. Hart, T. J. Cardwell, R. W. Cattrall, *Anal. Chim. Acta*, **316**, 277(1995).
3359. Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography  
S. W. Gibb, R. F. C. Mantoura, P. S. Liss, *Anal. Chim. Acta*, **316**, 291(1995).
3360. Hollow fiber cartridges for removal of particulate matter from natural waters prior to matrix isolation and trace metal enrichment using an 8-quinolinol chelating ion exchanger in a flow system  
N. K. Djane, F. Malcus, E. Martins, G. Sawula, G. Johansson, *Anal. Chim. Acta*, **316**, 305(1995).
3361. Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials  
D. Yuan, I. L. Shuttler, *Anal. Chim. Acta*, **316**, 313(1995).
3362. Development of a chemiluminescence detector with photodiode detection for flow-injection analysis and its application to L-lactate analysis  
A. Hemmi, K. Yagiuda, N. Funazaki, S. Ito, Y. Asano, T. Imato, K. Hayashi, I. Karube, *Anal. Chim. Acta*, **316**, 323(1995).
3363. Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption  
X. Liu, Z. Fang, *Anal. Chim. Acta*, **316**, 329(1995).
3364. Application of ion-exchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock  
S. Matsuoka, K. Yoshimura, A. Tateda, *Anal. Chim. Acta*, **317**, 207(1995).
3365. Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry  
R. Ma, F. Adams, *Anal. Chim. Acta*, **317**, 215(1995).

3366. Characterization and application of an on-line flow injection analysis/wall-jet electrode system for glucose monitoring during fermentation  
Y. L. Huang, T. J. Foellmer, K. C. Ang, S. B. Khoo, M. G. S. Yap, *Anal. Chim. Acta*, **317**, 223(1995).
3367. Chemiluminescent determination of tryptophan in a flow injection system  
A. A. Aiwarthan, *Anal. Chim. Acta*, **317**, 233(1995).
3368. Sequential analyte removal in flow analysis : determination of nitrogen, phosphorus and potassium in fertilizers  
P. B. Martelli, J. A. G. Neto, E. A. G. Zagatto, S. M. B. Brienza, M. C. B. S. M. Montenegro, J. L. F. C. Lima, *Anal. Chim. Acta*, **317**, 239(1995).
3369. On-line and off-line monitoring of the production of alkaline serine protease by *Bacillus licheniformis*  
A. B. V. Putten, F. Spitzerberger, G. Kretzmer, B. Hitzmann, K. Schugert, *Anal. Chim. Acta*, **317**, 247(1995).
3370. On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine  
P. Canizares, M. D. L. de Castro, *Anal. Chim. Acta*, **317**, 335(1995).
3371. Catalytic oxidation of NADH at a methylene-green chemically modified electrode and FIA applications  
H. Y. Chen, A. M. Yu, J. L. Han, Y. Z. Mi, *Anal. Lett.*, **28**, 1579(1995).
3372. Potentiometric biosensing of penicillins using a flow-through reactor with penicillinase or penicillin amidase immobilized by gamma-irradiation  
C. Macca, L. Solda, G. Palma, *Anal. Lett.*, **28**, 1735(1995).
3373. Amperometric determination of bilirubin with flow injection analysis system  
Z. U. Bae, H. L. Lee, T. M. Park, M. L. Seo, *Anal. Lett.*, **28**, 1775(1995).
3374. Direct spectrophotometric determination of platinum by microwave-oven induced flow-injection analysis  
G. Li, Y. Xu, X. Chen, Z. Hu, *Anal. Lett.*, **28**, 2227(1995).
3375. A microdialysis probe coupled with a miniaturized thermal glucose sensor for in vivo monitoring  
A. Amine, K. Digua, B. Xie, B. Danielsson, *Anal. Lett.*, **28**, 2275(1995).
3376. Carbon dioxide supercritical fluid extraction with on-line fluorescence detection  
D. C. Dunham, M. S. Desmarais, T. Breid, J. W. Hills, *Anal. Lett.*, **28**, 2561(1995).
3377. Enzyme electrode for amplification of NAD<sup>+</sup>/NADH using glycerol dehydrogenase and diaphorase with amperometric detection  
X. Tang, G. Johansson, *Anal. Lett.*, **28**, 2595(1995).
3378. Isomeric transformation of 4-aminobiphenyl by UV radiation and its influence on the determination by flow injection analysis with amperometric and spectrophotometric detection  
M. H. Blanco, M. C. Quintana, P. Hernandez, J. Vicente, L. Hernandez, *Anal. Lett.*, **28**, 2683(1995).
3379. Determination of lipase and cholinesterase activities in serum by FIA with electrochemical detection  
T. Fuse, F. Kusu, K. Takamura, *Bunseki Kagaku*, **44**, 771(1995).

3380. Determination of copper(II) in serum with  $\alpha$  ,  $\beta$  ,  $\gamma$  ,  $\delta$  – tetrakis– (4– sulfonatophenyl)porphine by FIA with spectrophotometric detection  
H. Adachi, S. Igarashi, T. Yotsuyanagi, *Bunseki Kagaku*, **44**, 797(1995).
3381. Application of tubular liquid– membrane to ethanol– sensing using flow injection technique  
M. Ando, M. Okubo, T. Kato, J. Tokumoto, T. Okura, *Bunseki Kagaku*, **44**, 961(1995).
3382. Rapid determination of silicon in high silicon steel samples by FIA  
M. Suzuki, T. Misumi, T. Mochizuki, Y. Ishibashi, *Bunseki Kagaku*, **44**, 971(1995).
3383. Metal complexing capacity of natural waters based on solvent extraction and reverse FIA  
H. Itabashi, *Bunseki Kagaku*, **44**, 989(1995).
3384. Bilayer lipid membranes as electrochemical detectors for flow injection immunoanalysis  
D. P. Nikolelis, C. G. Siontorou, V. G. Andreou, K. G. Viras, U. J. Krull, *Electroanalysis*, **7**, 1082(1995).
3385. A portable flow injection analyzer for use with ion– selective electrodes  
T. Dimitrakopoulos, P. W. Alexander, D. B. Hibbert, L. Cherkson, J. Morgan, *Electroanalysis*, **7**, 1118(1995).
3386. Automation of flow injection gas diffusion– ion chromatography for the nanomolar determination of methylamines and ammonia in seawater and atmospheric samples  
S. W. Gibb, F. W. Wood, R. Fauzi, C. Mantoura, *J. Autom. Chem.*, **17**, 205(1995).
3387. Flow injection titration using reaction with buffer solution  
T. Imato, *J.Flow Injection Anal.*, **12**, 145(1995).
3388. Multi– channel flow– through biosensor : A practical approach to multi– component biosensing  
R. L. C. Chen, K. Matsumoto, *J.Flow Injection Anal.*, **12**, 167(1995).
3389. The use of large sample volume injection in flow injection analysis and its application  
T. Yamane, *J.Flow Injection Anal.*, **12**, 176(1995).
3390. Application of steady state flow analysis to reaction kinetics – catalytic effect of manganese on the reaction of periodate– malachite green system  
Y. Narusawa, C. L. Zhang, K. Mizusawa, *J.Flow Injection Anal.*, **12**, 185(1995).
3391. Sandwich FIA simultaneous multidetermination of cationic species in waters  
A. N. Araujo, J. L. F. C. Lima, M. Lucia, M. F. S. Saraiva, *J.Flow Injection Anal.*, **12**, 194(1995).
3392. Determination of phosphate using immobilized enzyme reactor – chemiluminescence detector by FIA  
A. Noguchi, T. Aoki, T. Oshima, *J.Flow Injection Anal.*, **12**, 209(1995).
3393. HPLC determination of primary amino acids using electrochemiluminescence of ruthenium complex  
X. Chen, M. Sato, *J.Flow Injection Anal.*, **12**, 216(1995).
3394. A new amperometric detector for flow injection analysis  
L. T. Kubota, B. G. Milagres, E. L. Reis, G. O. Neto, *J.Flow Injection Anal.*, **12**, 223(1995).
3395. Spectrofluorimetric flow– injection determination of cerium in carbon and low alloy steels  
D. T. Burns, C. D. P. Dangolle, M. Harriott, *Mikrochim. Acta*, **119**, 49(1995).
3396. Determination of sucrose by flow injection analysis with fourier transform infrared detection  
B. Lendl, R. Kellner, *Mikrochim. Acta*, **119**, 73(1995).

3397. Mixed sorbents and their use in continuous flow analysis  
N. V. Semenova, E. I. Morosanova, I. V. Pletnev, I. M. Maksimova, Y. A. Zolotov, *Mikrochim. Acta*, **119**, 81(1995).
3398. Evaluation of the analytical performance of flow injection- flame atomic absorption spectrometry  
R. Ma, W. V. Mol, F. Adams, *Mikrochim. Acta*, **119**, 95(1995).
3399. Evaluation of flow- injection in lead hydride generation- atomic absorption spectrometry  
Y. Madrid, D. Chakraborti, C. Camara, *Mikrochim. Acta*, **120**, 63(1995).
3400. Stopped- flow spectrophotometric studies on the complexation of Cu(II)- aminopolycarboxylate with D- penicillamine  
A. Hanaki, K. Taniguchi, K. Tabata, *Nippon Kagaku Kaishi*, **1995**, 904(1995).
3401. Determination of hydrazine derivatives by flow- injection analysis with spectrophotometric detection  
M. I. Evgen'yev, S. Y. Garmonov, I. I. Evgen'yeva, H. C. Budnikov, *Talanta*, **42**, 1465(1995).
3402. Flow/sequential injection determination of gaseous ammonia with a glass diffusion denuder  
Y. Luo, R. A. Othman, G. D. Christian, J. Ruzicka, *Talanta*, **42**, 1545(1995).
3403. On the spectrophotometric flow injection determination of chromium(VI) in natural waters after on- line preconcentration on activated alumina  
M. C. Pannain, R. E. Santelli, *Talanta*, **42**, 1609(1995).
3404. Chemiluminometric flow- injection method for determination of free L- malate in wine with co- immobilized malate dehydrogenase/NADH oxidase  
N. Kiba, J. Inagaki, M. Furusawa, *Talanta*, **42**, 1751(1995).
3405. Lead determination at the ppb level using stopped- flow FIA  
M. Li, G. E. Pacey, *Talanta*, **42**, 1857(1995).
3406. Inorganic tin(II) determination by FIA with amperometric detection of its oxinate complex  
K. Boutakhrit, Z. P. Yang, J. M. Kauffmann, *Talanta*, **42**, 1883(1995).
3407. Correction of iron interface in the spectrophotometric flow injection catalytic determination of molybdenum in plants  
E. N. V. M. Carriho, F. J. Krug, E. A. G. Zagatto, *Talanta*, **42**, 2021(1995).
3408. Two trends of sample dispersion variation with carrier flow rate in a single flow- injection manifold  
Y. Li, H. Ma, *Talanta*, **42**, 2033(1995).
3409. Indirect ultraviolet determination of silver with nickelocyanide ion by flow injection analysis  
A. T. H. Hussein, *Talanta*, **42**, 2053(1995).
3410. Simultaneous determination of penicillin and ampicillin by spectral fibre- optical enzyme optodes and multivariate data analysis based on transient signals obtained by flow injection analysis  
J. Polster, G. Prestel, M. Wollenweber, G. Kraus, G. Gauglitz, *Talanta*, **42**, 2065(1995).
3411. Use of poly(ester- sulfonic acid) film- coated electrodes as amperometric detectors in flow injection analysis  
T. Gennett, W. R. Rusin, L. M. Gier, *Talanta*, **42**, 2073(1995).

3412. In the swim of flow injection analysis  
A. Newman, *Anal. Chem. News & Features*, 1996, 203A(1996).
3413. Continuous-flow method for the determination of phenols at low levels in water and soil leachates using solid-phase extraction for simultaneous preconcentration and separation  
Z. L. Zhi, A. Rios, M. Valcarcel, *Analyst*, 121, 1(1996).
3414. Determination of trace amounts of cadmium in a hydrometallurgical zinc refining process stream by a flow-injection method with on-line preconcentration and spectrophotometric detection  
Y. Hayashibe, Y. Sayama, *Analyst*, 121, 7(1996).
3415. Speciation of nitrogen in wastewater by flow injection  
A. Cerdà, M. T. Oms, R. Forteza, V. Cerdà, *Analyst*, 121, 13(1996).
3416. Determination of ultra-trace amounts of selenium(IV) by flow injection hydride generation atomic absorption spectrometry with on-line preconcentration by co-precipitation with lanthanum hydroxide.  
Part II . On-line addition of co-precipitating agent  
S. Nielsen, J. J. Sloth, E. H. Hansen, *Analyst*, 121, 31(1996).
3417. Flow injection method for the determination of methotrexate with a column-packed oxidizing agent  
S. Emara, S. Razee, A. N. E. Shorbagi, T. Masujima, *Analyst*, 121, 183(1996).
3418. Colloidal gold supported onto glassy carbon substrates as an amperometric sensor for carbohydrates in flow injection and liquid chromatography  
I. G. Casella, A. Destraoris, E. Desimoni, *Analyst*, 121, 249(1996).
3419. Determination of ethanol in beer by flow injection dual-pulse staircase voltammetric detection  
Y. Fung, S. Mo, *Analyst*, 121, 369(1996).
3420. Near-infrared detection of flow injection analysis by acoustooptic tunable filter-based spectrophotometry  
M. S. Baptista, C. D. Tran, G. H. Gao, *Anal. Chem.*, 68, 971(1996).
3421. Isotope dilution analysis for flow injection ICPMS determination of microgram per gram levels of boron in iron and steel after matrix removal  
A. G. Coedo, T. Dorado, B. J. Fernandez, F. J. Alguacil, *Anal. Chem.*, 68, 991(1996).
3422. Simultaneous determination of potassium and sodium in vegetables by flame emission spectrometry using a flow-injection system with two dialysis units  
J. L. F. C. Lima, A. O. S. S. Rangel, M. R. S. Souto, *Anal. Sci.*, 12, 81(1996).
3423. Selective biosensing of L-lysine by a low-temperature flow-injection technique using an immobilized lysine oxidase reactor  
R. L. C. Chen, M. H. Lee, K. Matsumoto, *Anal. Sci.*, 12, 87(1996).
3424. Catalytic spectrophotometric determination of picogram amounts of vanadium in natural fresh and tap water by flow injection analysis  
S. Kawakubo, K. Kajihara, M. Iwatsuki, *Anal. Sci.*, 12, 237(1996).
3425. Determination of esterase activity by flow injection analysis with amperometric detection  
K. Takamura, T. Fuse, F. Kusu, *Anal. Sci.*, 12, 343(1996).

3426. Flow injection sandwich technique applied to indirect visible spectrophotometric determinations.  
Bromimetric and iodimetric determination of sulphite  
A. E. Davies, A. G. Fogg, *Anal. Chim. Acta*, **318**, 55(1995).
3427. Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique  
H. Huang, R. Cai, Y. Du, Z. Lin, Y. Zeng, *Anal. Chim. Acta*, **318**, 63(1995).
3428. Chemiluminescence flow system for the monitoring of chromium(VI) in water  
Z. Zhang, W. Qin, S. Liu, *Anal. Chim. Acta*, **318**, 71(1995).
3429. Direct determination of ultratraces of thallium in water by flow-injection-differential-pulse anodic stripping voltammetry  
Z. Lukaszewski, W. Zembrzuski, A. Piela, *Anal. Chim. Acta*, **318**, 159(1996).
3430. An automated flow-reversal injection/liquid-liquid extraction approach to the direct determination of total free fatty acids in olive oils  
Z. I. Zhi, A. Rios, M. Valcarcel, *Anal. Chim. Acta*, **318**, 187(1996).
3431. Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell  
T. Korenaga, F. Sun, *Anal. Chim. Acta*, **318**, 195(1996).
3432. Flow-injection analysis and liquid chromatography : surface-enhanced Raman spectrometry detection by using a windowless flow cell  
L. M. Cabalin, A. Ruperez, J. J. Laserna, *Anal. Chim. Acta*, **318**, 203(1996).
3433. Gas diffusion techniques coupled sequential injection analysis for selective determination of ammonium  
M. T. Oms, A. Cerda, A. Cladera, V. Cerda, R. Forteza, *Anal. Chim. Acta*, **318**, 251(1996).
3434. Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection  
N. W. Barnett, T. A. Bowser, R. D. Gerardi, B. Smith, *Anal. Chim. Acta*, **318**, 309(1996).
3435. Nafion-based optode for the detection of metal ions in flow analysis  
J. E. Madden, T. J. Cardwell, R. W. Cattrall, L. W. Deady, *Anal. Chim. Acta*, **319**, 129(1996).
3436. Determination of uranium by flow injection inductively coupled plasma mass spectrometry  
J. H. Aldstadt, J. M. Kuo, L. L. Smith, M. D. Erickson, *Anal. Chim. Acta*, **319**, 135(1996).
3437. Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol  
S. Cosnier, I. C. Popescu, *Anal. Chim. Acta*, **319**, 145(1996).
3438. Standard additions in flow injection analysis based on merging zones and gradient exploitation : application to copper determination in spirits  
E. C. Silva, M. C. U. Araujo, R. S. Honorato, J. L. F. C. Lima, E. A. G. Zagatto, S. M. B. Brienza, *Anal. Chim. Acta*, **319**, 153(1996).

3439. Detection of flow injection analysis with pH gradient by acousto-optic tunable filter based spectrophotometry  
C. Pasquini, J. Lu, C. D. Tran, S. Smirnov, *Anal. Chim. Acta*, **319**, 315(1996).
3440. Trace measurements of nucleic acids using flow injection amperometry  
J. Wang, L. Chen, M. Chicharro, *Anal. Chim. Acta*, **319**, 347(1996).
3441. Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum  
M. Parent, H. Vanhoe, L. Moens, R. Dams, *Anal. Chim. Acta*, **320**, 1(1996).
3442. Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis ; optimization by factorial design analysis  
O. M. Steijger, H. C. M. D. Nieuwenboer, H. Lingeman, U. A. T. Brinkman, J. J. M. Holthuis, A. K. Smilde, *Anal. Chim. Acta*, **320**, 99(1996).
3443. Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors  
L. T. D. Benedetto, P. W. Alexander, D. B. Hibbert, *Anal. Chim. Acta*, **321**, 61(1996).
3444. Determination of trimethylamine in fish by flow injection analysis  
S. Sadok, R. F. Uglow, S. J. Haswell, *Anal. Chim. Acta*, **321**, 69(1996).
3445. Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression  
R. C. Martinez, E. R. Gonzalo, M. P. S. Toribio, J. H. Mendez, *Anal. Chim. Acta*, **321**, 147(1996).
3446. Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow injection method based on the use of enzyme reactors  
K. Matsumoto, T. Tsukatani, *Anal. Chim. Acta*, **321**, 157(1996).
3447. Development of a mass-producible glucose biosensor and flow-injection analysis system suitable for on-line monitoring during fermentations  
S. F. White, I. E. Tothill, J. D. Newman, A. P. F. Turner, *Anal. Chim. Acta*, **321**, 165(1996).
3448. A combined sampling and delay unit for flow injection analysis. The automated determination of 2-thiobarbituric acid reactive substances in foods  
S. S. Jorgensen, G. Sorensen, *Anal. Chim. Acta*, **322**, 69(1996).
3449. Determination of the concentration of higher alcohols with enzyme coupled flow-injection analysis in model systems  
J. Burfeind, B. Weigel, G. Kretzmer, K. Schugerl, A. Huwig, F. Giffhorn, *Anal. Chim. Acta*, **322**, 131(1996).
3450. An enzymatic chemiluminescence optrode for choline detection under flow injection conditions  
H. Lapp, U. Spohn, D. Janasek, *Anal. Lett.*, **29**, 1(1996).
3451. Simultaneous determination of L- and D-lactate by enzyme modified carbon paste electrodes  
D. Narasaiah, U. Spohn, L. Gorton, *Anal. Lett.*, **29**, 181(1996).
3452. Relationship between peak width and sample concentration in continuous flow injection titration  
N. S. Wu, W. J. Shi, H. W. Su, *Anal. Lett.*, **29**, 313(1996).

3453. Flow injection potentiometric determination of coke acidity and acetic acid content in vinegar using an antimony electrode  
M. D. Capelato, A. M. dos Santos, O. F. Filho, R. Gama, *Anal. Lett.*, **29**, 711(1996).
3454. Ultraviolet determination of chloride in water by flow injection analysis  
A. T. H. Hussein, *Anal. Lett.*, **29**, 793(1996).
3455. Kinetic FIA determination of Hg(II) based on its catalytic effect on the reaction between safranin and iodide  
A. Safavi, M. R. Baezzat, *Anal. Lett.*, **29**, 807(1996).
3456. Flame atomic absorption determination of lead in biological materials using a flow injection on-line separation and preconcentration system based on ion-pair sorbent extraction  
G. Tao, Z. Fang, *At. Spectrosc.*, **17**, 22(1996).
3457. Sensitive and precise analytical methods for the determination of impurities in hydrometallurgical zinc refining by utilizing flow-injection technique  
Y. Hayashibe, Y. Sayama, K. Oguma, *Bunseki Kagaku*, **45**, 1(1996).
3458. Determination of trace amounts of nitrogen in steel by gas-diffusion/flow injection-waveguide capillary cell spectrophotometry  
M. Aimoto, M. Komoda, K. Chiba, *Bunseki Kagaku*, **45**, 193(1996).
3459. Fluorometric flow injection determination of average copper valence in yttrium system superconductor using micro-amounts of sample  
K. Watanabe, K. Ohba, M. Itagaki, *Bunseki Kagaku*, **45**, 341(1996).
3460. Flow injection analysis for antimony(III) using 3-hydroxy-4'-ethoxyflavone  
H. Nishioka, T. Kumagai, T. Nagahiro, *Bunseki Kagaku*, **45**, 415(1996).
3461. Flow injection analysis ; its application to inorganic analysis  
N. Teshima, T. Hasebe, T. Kawashima, *Bunseki*, **1996**, 128(1996).
3462. Development and optimization of a solid composite tyrosinase biosensor for phenol detection in flow injection systems  
E. S. M. Lutz, E. Dominquez, *Electroanalysis*, **8**, 117(1996).
3463. Electrooxidation of ascorbic acid on the dispersed platinum glassy carbon electrode and its amperometric determination in flow injection analysis  
I. G. Casella, *Electroanalysis*, **8**, 128(1996).
3464. Flow injection amperometric detection of ammonia using a polypyrrolemodified electrode and its application in urea and creatinine biosensors  
M. Trojanowicz, A. Lewenstam, T. K. V. Krawczyk, I. Lahdesmaki, W. Szczepek, *Electroanalysis*, **8**, 233(1996).
3465. Effect of membrane composition on the flow-injection response of an ion-selective electrode : a comparative study based on selectivity coefficients calculated using a data linearization technique  
D. E. Davey, D. E. Mulcahy, G. R. O. Connell, *Electroanalysis*, **8**, 274(1996).

3466. Simultaneous determination of chromium(VI) and chromium(III) in water samples using flow injection on-line preconcentration and separation with flame absorption spectrometric detection  
Q. Kong, Q. Wu, X. Guo, *Fenxi Huaxue*, **24**, 1(1996).
3467. Simultaneous determination of ferric and ferrous ions by chemiluminescence-flow injection analysis  
H. Zhang, X. Yang, L. Wu, *Fenxi Huaxue*, **24**, 220(1996).
3468. Flow injection preconcentration for the determination of phenol  
J. Li, F. Zhang, Z. Dang, Z. Tang, *Fenxi Huaxue*, **24**, 312(1996).
3469. Simultaneous determination of molybdenum, tungsten and titanium with a flow injection-multiple standard addition-synergistic coefficient compensation method  
R. He, J. Wang, Y. Wang, *Fenxi Huaxue*, **24**, 274(1996).
3470. Determination of iodine by flow injection analysis-on-line oxidation-inductively coupled plasma atomic emission spectrometry  
H. Wang, F. Shang, *Fenxi Huaxue*, **24**, 288(1996).
3471. Removal of iron interference in the determination of selenium in geological samples by continuous flow hydride generation ICP-AES  
L. Martinez, M. Baucells, E. Pelfort, M. Roura, *Fresenius' J. Anal. Chem.*, **354**, 126(1996).
3472. Assessment of analytical quality in automatic flow systems  
J. Marcos, A. Rios, M. Valcarcel, *Fresenius' J. Anal. Chem.*, **354**, 140(1996).
3473. A flow analysis system with an amperometric detector for the determination of hydrogen sulphide in waters  
P. Jeroschewski, S. Braun, *Fresenius' J. Anal. Chem.*, **354**, 169(1996).
3474. A flow injection-flame-atomic absorption spectrometry system for the determination of the real stoichiometry of small CuInSe<sub>2</sub> semiconductor crystals  
A. C. A. Matousek, J. L. Burguera, M. Burguera, S. Wasim, C. Rivas, *Fresenius' J. Anal. Chem.*, **354**, 184(1996).
3475. Kinetic flow-injection-spectrofluorimetric determination of aluminium(III) using eriochrome red B, sensitized by traces of fluoride  
F. Carrillo, C. P. Conde, C. Camara, *Fresenius' J. Anal. Chem.*, **354**, 204(1996).
3476. FIA-spectrophotometric determination of 8-hydroxyquinoline with p-aminophenol  
B. A. Hasan, K. D. Khalaf, A. M. Rubio, M. de la Guardia, *Fresenius' J. Anal. Chem.*, **354**, 216(1996).
3477. Direct determination of copper and iodine in milk and milk powder in alkaline solution by flow injection inductively coupled plasma mass spectrometry  
S. Sturup, A. Buchert, *Fresenius' J. Anal. Chem.*, **354**, 323(1996).
3478. Trace enrichment and measurement of platinum by flow injection inductively coupled plasma mass spectrometry  
M. M. Hidalgo, M. M. Gomez, M. A. Palacios, *Fresenius' J. Anal. Chem.*, **354**, 420(1996).
3479. Flow-injection/pervaporation coupling for the determination of sulphide in Kraft liquors  
I. Papaeftathiou, M. D. L. de Castro, M. Valcarcel, *Fresenius' J. Anal. Chem.*, **354**, 442(1996).

3480. Flow injection system with multisite detection for spectrophotometric determination of calcium and magnesium in soil extracts and natural waters  
A. R. A. Nogueira, S. M. B. Brienza, E. A. G. Zagatto, J. L. F. C. Lima, A. N. Araujo, *J. Agric. Food Chem.*, **44**, 165(1996).
3481. Quantitative analysis of 2,4-dichlorophenoxyacetic acid in water samples by two immunosensing methods  
C. Wittmann, F. F. Bier, S. A. Eremin, R. D. Schmid, *J. Agric. Food Chem.*, **44**, 343(1996).
3482. Developments and trends in flow injection atomic absorption spectrometry  
Z. Fang, S. Xu, G. Tao, *J. Anal. At. Spectrom.*, **11**, 1(1996).
3483. Preconcentration and determination of some lanthanide elements with immobilized bacteria by flow injection inductively coupled plasma atomic emission spectrometry  
A. Maquieira, H. Elmahadi, R. Puchades, *J. Anal. At. Spectrom.*, **11**, 99(1996).
3484. On-line separation and sequential determination of trace amounts of heavy metals in biological materials by flow injection inductively coupled plasma atomic emission spectrometry  
M. T. S. Cordero, E. I. V. Alonso, A. G. de Torres, J. M. C. Pavon, *J. Anal. At. Spectrom.*, **11**, 107(1996).
3485. Flow injection determination of mercury with preconcentration by amalgamation on a gold-platinum gauze by inductively coupled plasma mass spectrometry  
E. Debrah, E. R. Denoyer, *J. Anal. At. Spectrom.*, **11**, 127(1996).
3486. Voltammetric detection in flow-injection analysis using electrocatalytic systems  
G. K. Budnikov, *J. Anal. Chem.* (Transl. of *Zh. Anal. Khim.*), **51**, 143(1996).
3487. FIA automatic dilution system for the determination of metallic cations in waters by atomic absorption and flame emission spectrometry  
J. M. P. J. Garrido, R. A. S. Lapa, J. L. F. C. Lima, C. D. Matos, J. L. M. Santos, *J. Autom. Chem.*, **18**, 17(1996).
3488. Speciation of mercury by continuous flow liquid-liquid extraction and inductively coupled plasma atomic emission spectrometry detection  
A. M. Garcia, M. L. F. Sanchez, J. E. S. Uria, A. S. Medel, *Mikrochim. Acta*, **122**, 157(1996).
3489. New developments in flow injection vapor generation atomic absorption spectrometry  
Z. Fang, G. Tao, S. Xu, X. Liu, J. Wang, *Microchem. J.*, **53**, 42(1996).
3490. Flow injection sample introduction into microwave plasma  
H. Zhang, D. Ye, J. Zhao, J. Yu, R. Men, Q. Jin, D. Dong, *Microchem. J.*, **53**, 69(1996).
3491. Determination of boron in steels by on-line flow injection cation exchange eliminating matrix inductively coupled plasma-atomic emission spectrometry  
H. Wang, Y. Chen, J. Wang, *Microchem. J.*, **53**, 88(1996).
3492. Determination of metal ions by flow injection analysis with peroxyoxalate chemiluminescence detection  
K. Sato, S. Tanaka, *Microchem. J.*, **53**, 93(1996).
3493. Determination of vanadium by its catalytic effect on the oxidation of gallocyanine with spectrophotometric flow injection analysis  
A. A. Ensanfi, A. Kazemzadeh, *Microchem. J.*, **53**, 139(1996).

3494. Immobilized chloroxine as a preconcentration reagent for atomic absorption spectrometry

H. A. M. Elmahadi, G. M. Greenway, *Microchem. J.*, **53**, 188(1996).

3495. Determination of glycerol in alcoholic beverages using packed bed reactors with immobilized glycerol

dehydrogenase and an amperometric FIA system

M. I. Prodromidis, C. D. Stalikas, S. M. T. Karayanni, M. I. Karayannis, *Talanta*, **43**, 27(1996).