FIA Bibliography (VI)

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FIA-related papers appeared since 1984 have been complied in this FIA Bibliography section. Five hundred papers were listed in the previous section (references 226-228, 342, 501). All papers in this section are numbered in series and shown with the titles in English. The readers are requested to send us the reprints of their FIA-related papers that have not yet been listed in this section

- 501. FIA Bibliography(V)
 Y. Baba and N. Yoza, J. Flow Injection Anal., 3(1),49 (1985)
- 502. Theory and application of diffusion-limited amperometric enzyme electrode detection in flow injection analysis of glucose
 B. Olsson, H. Lundback, G. Johansson, F. Scheller and J. Nentwig, Anal. Chem., 58, 1046(1986)
- 503. Quenched peroxyoxalate chemiluminescence as a new detection Principle in flow injection analysis and liquid chromatography P. Zoonen, D. Kamminga, C. Gooijer, N. H. Velthorst, R. W. Frei and G. Gubitz, Anal. Chem., <u>58</u>, 1245(1986)
- 504. On-line liquid-liquid extraction in a segmented flow directly coupled to on-column injection into a gas chromatograph E. Fogelqvist and M. Krysell, Anal. Chem., 58, 1516(1986)
- 505. Fluorometric flow injection determination of aqueous peroxides at nanomolar level using membrane reactors H. Hwang and P. K. Dasgupta, Anal. Chem., 58, 1521(1986)
- 506. Selective chlorine dioxide determination using gas-diffusion flow injection analysis with chemiluminescent detection D. A. Hollowell, J. R. Gord, G. Gordon and G. E. Pacy, Anal. Chem., <u>58</u>, 1524(1986)

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- 507. Automated mercury film electrode for flow injection analysis and high-performance liquid chromatography detection H. Gunasingham, B. T. Tay and K. P. Ang, Anal. Chem., <u>58</u>, 1578 (1986)
- 508. Construction and performance of plastic-embedded controlled-pore glass open tubular reactors for use in continuous-flow systems
 M. C. Gosnell, R. E. Snelling and H. A. Mottola, Anal. Chem., 58, 1585(1986)
- 509. Polypyrrole electrode as a detector for electroinactive anions by flow injection analysis Y. Ikariyama, W. R. Heineman, Anal. Chem., <u>58</u>, 1803(1986)
- 510. Serum lithium analysis by coated wire lithium ion selective electrodes in a flow injection analysis dialysis system R. Y. Xie and G. D. Christian, Anal. Chem., 58, 1806(1986)
- 511. Reaction monitoring in supercritical fluids by flow injection analysis with fourier transform infrared spectrometric detection S. V. Olesik, S. B. French and M. Novotny, Anal. Chem., <u>58</u>, 2256(1986)
- 512. Versatile automatic development system for flow injection analysis D. Betteridge, T. J. Sly, A. P. Wade and G. Porter, Anal. Chem., 58, 2258(1986)
- 513. Indirect atomic absorption determination of anionic surfactants in wastewaters by flow injection continuous liquid-liquid extraction M. Gallego, M. Silva and M. Valcarcel, Anal. Chem., <u>58</u>, 2265 (1986)
- 514. Mechanical removal of the central sample zone to avoid air bubbles in nonsegnented continuous flow analysis C. Pasquini, Anal. Chem., <u>58</u>, 2346(1986)
- 515. Multifunction valve for flow injection analysis J. Toei and N. Baba, Anal. Chem., 58, 2348(1986).
- 516. Measurement of pH in solutions of low buffering capacity and low ionic strength by optosensing flow injection analysis B. A. Woods, J. Ruzicka G. D. Christian and R. J.Charlson, Anal. Chem., 58, 2496(1986)

- 517. Inductively coupled plasma mass spectrometric detection for multielement flow injection analysis and elemental speciation by reversed-phase liquid chromatography

 J. J. Thompson and R. S. Houk, Anal. Chem., 58, 2541(1986)
- 518. Thermospray interfacing for flow injection analysis with inductively coupled plasma atomic emission J. A. Koropchak and D. H. Winn, Anal. Chem., 58, 2558(1986)
- 519. Simultaneous determination of phenylephrine hydrochloride and pheniramine maleate in nasal spray by solvent extraction-flow injection analysis using two porous-membrane phase separators and one photometric detector

 C. A. Lucy and F. C. Cantwell, Anal. Chem., 58, 2727(1986)
- 520. Amperometric flow injection determination of fructose with an immobilized fructose 5-dehydrogenase reactor K. Matsumoto, O. Hamada, H. Ukeda and Y. Osajima, Anal. Chem., 58, 2732(1986)
- 521. Trace determination of aqueous sulfite, sulfide, and methanethiol by fluorometric flow injection analysis P. K. Dasgupta and H-C. Yang, Anal. Chem., 58, 2839(1986)
- 522. Flow injection analysis (FIA)-a personal view-Anal. Chim. Acta., 180, 1(1986)
- 523. Electroanalytical voltammetry in flowing solutions.
 D. C. Jhonson, S. G. Weber, A. M. Bond, R. M. Wington, R. E. Shoup and and I. S. Krull, Anal. Chim. Acta., 180, 187(1986)
- 524. The application of strongly oxidizing agents in flow injection analysis. Part 3. Cobalt(III) R. C. Schothorst and G. D. Boef, Anal. Chim. Acta, 181, 235(1986)
- 525. Pharmaceutical applications of high-performance flow injection system F. P. Bigley, R. L. Grob and G. S. Brenner, Anal. Chim. Acta, 181, 241(1986)
- 526. A simple procedure for hydrodynamic injection in flow injection analysis applied to the atomic absorption spectrometry of chromium in steels.
 E. A. G. Zagatto, O. Bahia Filho, M. F. Gine, Anal. Chim. Acta, 181, 265(1986)

- 527. Sensitivity enhancement for inductively-coupled plasma atomic emission spectrometry of cadmium by suction-flow online ion-exchange preconcentration
 T. Kumamaru, H. Matsuo, Y. Okamoto and M. Ikeda, Anal. Chim. Acta, 181, 271(1986)
- 528. A simple injection valve for flow injection analysis J. R. Chipperfield and P. J. Worsfold, Anal. Chim. Acta, 181, 283(1986)
- 529. Flow-injection spectrophotometric determination of trace vanadium based on catalysis of the gallic acid bromate reaction
 T. Fukasawa, S. Kawakubo and A. Unno, Anal. Chim. Acta., 183, 269(1986)
- 530. A flow-injection system for assay of the activity of an immobilized enzyme chemically-modified electrode
 J. A. Osborn, A. M. Yacynych and D. C. Roberts, Anal. Chim. Acta, 183, 287(1986).
- 531. Use of a flow-injection system in the evaluation of the characteristic behavior of neutral carriers in lithium ion-selective electrodes R. Y. Xie, V. P. Y. Gadzekpo, A. M. Kadry, Y. A. Ibrahim, J. Ruzicka and G. D. Christian, Anal. Chim. Acta, 184, 259(1986)
- 532. Flow-injection determination of iron(II), iron(III) and total iron with chemilumiescence detection
 E. G. Sarantonis and A. Townshend, Anal. Chim. Acta, 184, 311(1986)
- 533. Conversion techniques in flow injection analysis.

 Determination of sulphide by precipitation with cadmium ions and detection by atomic absorption spectrometry

 B. A. Petersson, Z. Fang, J. Ruzicka and E. H. Hansen, Anal. Chim. Acta, 184, 165(1986)
- 534. Spectrophotometric flow-injection determination of ascorbic acid by generation of triiodide
 J. Hernandez-Mendez, A. A. Mateos, M. J. A. Parra and C. G. de Maria, Anal. Chim. Acta, 184, 246(1986)
- 535. Novel flow injection/potentiometric measurement of slightly soluble salts in small volumes: Determination of solubility product constants of some silver salts
 A.T. Haj-Hussein and G.D. Christian, Anal. Lett., 19, 825 (1986)

- 536. Enzymatic assay by flow injection analysis with detection by chemiluminescence: Determination of glucose, creatinine, free cholesterol and lactic acid using an integrated FIA microconduit B. A. Petersson, E. H. Hansen and J. Ruzicka, Anal. Lett., 19, 649(1986)
- 537. The Japan association for flow injection analysis N. Yoza and N. Ishibashi, Anal. Sci., 2, 207(1986)
- 538. Flow injection-spectrophotometric determination of trace amounts of iron with 2-pyridyl-3'-sulfophenylmethanone 2-pyrimidylhydrazone and possibility of sensitization by analogue-derivative spectrophotometric monitoring
 H. Ishii, M. Aoki, T. Aita and T. Odashima, Anal. Sci., 2, 125(1986)
- 539. Chemiluminescence flow injection analysis of biological compounds based on the reaction with lucigenin M. Maeda and A. Tsuji, Anal. Sci., 2, 183(1986)
- 540. Fluorometric catalytic determination of iodide by flow injection analysis
 A. Tanaka, K. Obata and T. Deguchi, Anal. Sci., 2, 197(1986)
- 541. Determination of manganese at trace levels in natural waters with continuous flow system utilizing on-line cation-exchange separation and catalytic detection T. Yamane, Anal. Sci., 2, 191(1986)
- 542. Automated flow injection spectrophotometric determination of some phenothiazines using iron perchlorate: Applications in drug assays, content uniformity and dissolution studies M. A. Koupparis, A. Barcuchova, Analyst, 111, 313 (1986)
- 543. Amperometric enzyme electrode system for the flow injection analysis of glucose G. J. Moody, G. S. Sanghera, J. D. R. Thomas, Analyst, 111, 605(1986)
- 544. Determination of morphine by flow injection analysis with chemiluminescence detection R. W. Abbott, A. Townshend and R. Gill, Analyst, 111, 635(1986)
- 545. Flow injection spectrofluorimetric determination of europium(III) based on solubilising its ternary complex with thenoyltrifluoroacetone and trioctylphosphine oxide in micellar solution M. Aihara, M. Arai and T. Takedatsu, Analyst, 111, 641(1986)

- 546. Enzymatic determination of urea in water and serum by optosensing flow injection analysis T. D. Yerian, G. D. Christian, J. Ruzicka, Analyst, 111, 865(1986)
- 547. Application of the reductive flow injection amperometric determination of iodine at a glassy carbon electrode to the iodimetric determination of hypochlorite and hydrogen peroxide

 A. Y. Chamsi and A. G. Fogg, Analyst, 111, 879(1986)
- 548. Automatic spectrophotometric determination of amyloglucosidase activity using p-nitrophenyl-α-Dglucopyranoside and a flow injection analyser K. A. Holm, Analyst, 111, 927(1986)
- 549. Photometric determination of tartaric acid in wine by flow injection analysis
 F. Lazaro, M.D. Luque de Castro, M. Valcarcel, Analyst, 111, 729(1986)
- 550. Flow-injection analysis with multidetection as a useful technique for metal speciation J. Ruz, A. Rios, M. D. Luque de Castro and M. Valcarcel Talanta, 33, 199(1986)
- 551. Flow injection determination of ergonovine maleate with amperometric detection at the Kel-F-graphite composite electrode

 F. Belal and J. L. Anderson, Talanta, 33, 448(1986)
- 552. Flow-injection analysis with the iron-induced perbromate-iodide reaction: spectrophotometric determination of iron T. D. Yerian, T. P. Hadjiioannou and G. D. Christian, Talanta, 33, 547(1986)
- 553. Flow injection analysis -A survey of its potential for spectroscopy J. Ruzicka, Fresenius Z. Anal. Chem., 324, 745(1986)
- 554. A simple, selective and sensitive liquid-chromatographic or flow-injection detector for chloro-organic compounds based on ion-selective electrodes L. IIcheva and K. Cammann, Fresenius Z. Anal. Chem., 325, 11(1986)

- 555. The determination of a small amount of a biological constituent by the use of chemiluminescence. VI. The flow-injection analysis of protein using a 1,10-phenanthroline-hydrogen peroxide system
 T. Hara, T. Ebuchi, A. Arai and M. Imaki, Bull. Chem. Soc. Jpn., 59, 1833(1986)
- 556. Analytical use of luminescence induced ultrasonically in solution. I. Sonic chemiluminescence of luminol for determination of cobalt(II) at sub-pg levels by flow injection and continuous flow methods
 Bull. Chem. Soc. Jpn., 59, 1849(1986)
- 557. Determination of cyanide ion by flow injection method using surfactant bilayer vesicle-enhanced chemiluminescence of Brilliant Fulfoflavine
 M. Ishii, M. Yamada and S. Suzuki, Bunseki Kagaku, 35, 542(1986) (in Japanese)
- 558. Determination of urate by a FIA method using a uricase-immobilized open-tubular reactor Y. Nishikawa, F. Morisita and T. Kojima, Bunseki Kagaku, 35, 575(1986) (in Japanese)
- 559. Atomic absorption spectrophotometric determination of magnesium in silicates by flow injection method K. Oguma, T. Nara and R. Kuroda, Bunseki Kagaku, 35, 690(1986) (in Japanese)
- 560. Potentiometric FIA of disaccharides using the hexacyanoferrate(III)-hexacyanoferrate(II) potential buffer solution
 H. Ohura, T. Imato, Y. Asano, S. Yamasaki and N. Ishibashi, Bunseki Kagaku, 35, 807(1986) (in Japanese)
- 561. Flow injection analysis of hydroquinone, pyrocatechol, resorcinol and pyrogallol with amperometric detector H. Satake, Y. Kohri and S. Ikeda, Nippon Kagaku kaishi, 43(1986) (in Japanese)
- 562. Multicomponent flow injection analysis using spectrophotometric detection with reagent spectral overlap:
 Application to determination of calcium and magnesium in blood
 serum using Eriochrom Black T
 T. A. Haj-Hussein and G. D. Christian, Microchem. J. 34
 67(1986)
- 563. Pumping techniques in flow-injection analysis
 J. Fejes and S. Melnik, Chem. Listy, 80, 586(1986)

- 564. Determination of copper, zinc, and iron in parotid saliva by flow injection with flame atomic absorption sepectrophotometry M. Burgera, J. Burguera, P. C. Rivas and O. M. Alarcon, At. Spectrosc. 7, 79(1986)
- 565. Examples of the application of chemometrics in electroanalysis
 E. Pungor and M. Gratzl, Magy. Kem. Foly, 92, 242(1986)
 (in Hugarian)
- 566. Improvement of analytical precision of flow injection analysis
 K. Yasuda, F. Takahata, T. Kuroishi and H. Hachino,
 Guangpuxue Yu Guangpu Fenxi, 6, 20(1986) (in Chinese)
- 567. Flow injection analysis. A dynamic method of analysis A. Ivaska, Kem. -Kemi, 13, 494(1986) (in Fennish)
- 568. Determination of trace amounts of selenium in environmental samples by hydride generation-atomic absorption spectrometry combined with flow injection analysis technique X. Wang and Z. Fang, Kexue Tongbao (Foreign Lang. Ed.) 31, 791(1986)
- 569. Determination of reaction stoichiometries by flow-injection analysis. A laboratory exercise A. Rios, de C. M. D. Luque and M. Valcarcel, J. Chem. Educ. 63, 552(1986)
- 570. Determination of cadmium of ppb level by column preconcentration-atomic absorption spectrometry S. Hirata, Y. Umezaki and M. Ikeda, J. Flow Injection Anal., 3(1), 8(1986) (in Japanese)
- 571. The development of a manually operated sample injector employing a pair of six-valve systems
 K. Uchida, M. Tomoda and S. Saito, J. Flow Injection Anal., 3(1), 18(1986) (in Japanese)
- 572. FIA titration using volume-variable mixer
 J. Toei, Y. Saigusa and N. Baba, J. Flow Injection Anal.,
 3(1), 27(1986) (in Japanese)
- 573. Fate analysis of phosphorus compounds in environmental waters by flow injection analysis and high-performance liquid chromatography
 T. Handa, H. Hirano, Y. Baba and S. Ohashi, J. Flow Injection Anal., 3(1), 37(1986)

- 574. Automation of a flow-injection system for multispeciation J. Ruz, A. Torres, A. Rios, M. D. Lugue de Castro, and M. Valcarcel, J. Autom. Chem., 8(2), 70(1986)
- 575. Flow injection analysis: a new tools to automate extraction processes
 M. D. Luque de Castro, J. Autom. Chem., 8(2), 56(1986)
- 576. Determination of phenols in Surface water with flow-injection analysis
 H. Yan, F. Li, and Y. Li, Fenix Hauxue, 14(5), 359(1986)
- 577. Flow injection analysis: its possibilities and applications in food analysis
 M. D. Luque de Castro, An Bromatol, 37(1), 197(1986)
- 578. Kinetic determination of trace of iron by means of flow injection analysis based on the catalytic oxidation of leucomalachite green by hydrogen peroxide
 H. Mueller and V. Muller, Z. Chem., 26(4), 142(1986)
- 579. Studies on peak with measurement-based-based FIA acid-base determinations.

 J. S. Phee and P. K. Dasgupta, Microchim. Acta, 3(1-2), 49(1986)
- 580. Determination of acids, bases, metal ions and redox species by peak with measurement-based flow injection analysis with potentiometric, conductometric, fluorometric and spectro photometric detection

 J. S. Rhee and P. K. Dasgupta, Microchim. Acta, 3(1-2), 107(1986)
- 581. Flow injection analysis for trace hydrogen peroxide using an immobilized enzyme reactor H. Hwang and P. K. Dasugpta, Microchim. Acta, 3(1-2), 77(1986)
- 582. Flow Injection Analysis new technique in wet analysis J. Chen and W. Zhu, <u>27</u>(3), 137(1986)
- 583. The semi-automated determination of manganese in sea water with leuco-malachite green
 J. Olfasson, Sci. Total Environ., 49, 101(1986)
- 584. Membrane-based flow injection system for determination of sulfur(IV) in atmospheric water P. K. Dasgputa and V. K. Guputa, Environ. Sci., <u>20</u>(5), 524(1986)

- 585. Determination of sulfite in food by flow injection analysis J. J. Sullivan, T. A. Hollingworth, M. M. Wekell, R. T. Richard and J. E. Larose, J. Assoc. Off. Anal. Chem., 69(3), 542(1986)
- 586. Flow injection methods based on multidetection M. D. Lugue de Castro and M. Valcarcel, TrAC, Trends Anal. Chem., 5(3), 71(1986)
- 587. Flow injection analysis of Pharmaceuticals
 J. Martinez Calatayud, Pharmazie, 41(2), 92(1986)
- 588. Approach for conductometric flow injection analysis of the salt content in food K. Matsumoto, K. Ishida and Y. Osajima, Nippon Shokuhin Kogyo Gakkaisi, 33(1), 61(1986)
- 589. Flow-injection tubidimetric analysis of sulfate in water J. F. Van Staden, Water SE, 12(1). 43(1986)
- 590. Application of flow injection analysis in fruit juice analysis
 D. List, I. Ruwisch and P. Langhans, Flues. Obst, 53(1), 10(1986)
- 591. Industrial applications of flow injection analysis M. J. Whitaker, Am. Lab., (Fairefield), 18(2), 154(1986)
- 592. Signal to noise ratios flow injection atomic absorption spectrometry J. M. Harnly and G. R. Beecher, J. Anal. At. Spectrom., 1(1), 75(1986)
- 593. Flow injection atomic absorption spectrometry: the kinetics of instrument response J. M. H. Appleton and J. F. Tyson, J. Anal. At. Spectrom., 1(1), 63(1986)
- 594. Determination of sodium, potassium, calcium, magnesium, iron, copper and zinc in cerebrospinal fluid by flow injection atomic absorption spectrometry J. L. Burguera, M. Burguera and O. M. Alarcon, J. Anal. At. Spectrom., 1(1), 79(1986)
- 595. The chemiluminescence determination of drags R. W. Abbott and A. Townshend, Anal. Proc., 23(1), 25(1986)
- 596. Determination of milk urea by flow injection analysis G. Andersson, L. Andersson and G. Carlstroem, Zentralbl Veterninaermed., Reihe A, 33(1), 53(1986)

- 597. Recent advances in new and potentially novel detection in high-performance liquid chromatography and flow injection analysis
 - I. S. Krull, ACS Symp. Ser., 297, 137(1986)