

SEZNAM PRACÍ

LIST OF PAPERS

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Akademie věd České republiky
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Academy of Sciences of the Czech Republic
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In the List of Papers 2006 the papers are divided into the following sections:

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List of Papers 2006 may be requested from:

Centre of Scientific Information
Institute of Analytical Chemistry AS CR, v.v.i.
Veveří 97
CZ – 602 00 Brno

A. ORIGINAL PAPERS AND REVIEWS

- A1.** Bekešová, S. - Kováčik, V. - Chmelík, J. - Kováč, P.
Negative electrospray, ion trap multistage mass spectrometry of synthetic fragments of the O-PS of *Vibrio cholerae* O : 1.
European Journal of Mass Spectrometry, 12 [1] 43-49 (2006)
- A2.** Beran, M. - Příhoda, J. - Žák, Z. - Černík, M.
A new route to the syntheses of alkali metal bis(fluorosulfonyl)imides: Crystal structure of $\text{LiN}(\text{SO}_2\text{F})_2$.
Polyhedron, 25 [6] 1292-1298 (2006)
- A3.** Bílková, Z. - Slovácová, M. - Minc, N. - Fütterer, C. - Cecal, R. - Horák, D. - Beneš, M. - le Poitier, I. - Křenková, J. - Przybylski, M. - Viovy, J. L.
Functionalized magnetic micro and nanoparticles: optimization and application to μ -chip tryptic digestion.
Electrophoresis, 27 [9] 1811-1824 (2006)
- A4.** Boháčenko, I. - Chmelík, J. - Psota, V.
Determination of the contents of A- and B-starches in barley using low angle laser light scattering.
Czech Journal of Food Science, 24 [1] 11-18 (2006)
- A5.** Čmelík, R. - Pazdera, P.
Transformation of 1,2-dithiole-3-thiones into 1,6,6a λ^4 -trithiapentalenes via reaction with bromoethanones.
Collection of Czechoslovak Chemical Communications, 71 [5] 650-666 (2006)
- A6.** Čulík, J. - Horák, T. - Čejka, P. - Jurková, M. - Kellner, V. - Karásek, P. - Ostrá, E. V.
Superkritická extrakce kapalin – nová progresivní metoda v pivovarské analytice. Část I. – Teoretické základy superkritické extrakce kapalin a příklady jejího využití.
[Supercritical fluid extraction – new progressive method in brewing analytics. Part I. - Theoretical principles of supercritical fluid extraction and examples of its use.]
Kvasný průmysl, 52 [4] 106-110 (2006)

- A7.** Čulík, J. - Horák, T. - Čejka, P. - Jurková, M. - Kellner, V. - Karásek, P. – Varad'ová-Ostrá, E.
Superkritická extrakce kapalin – nová progresivní metoda v pivovarské analytice. Část II. - Možnosti uplatnění superkritické extrakce kapalin při analýze sensoricky aktivních látek v pivě.
[Supercritical fluid extraction – new progressive method in brewing analytics. Part II. – The options of utilizing supercritical fluid extraction to analyze sensory active substances in beer.]
Kvasný průmysl, 52 [5] 142-147 (2006)
- A8.** Fanali, S. - D'Orazio, G. - Foret, F. - Klepárník, K. - Aturki, Z.
On-line CE-MS using pressurized liquid junction nanoflow electrospray interface and surface-coated capillaries.
Electrophoresis, 27 [23] 4666-4673 (2006)
- A9.** Foret, F.
Microfluidics and nanotechnology for analytical instrumentation – new kids on the block ?
Cromatografia y Tecnicas Afines, 27 [1] 6-7 (2006)
- A10.** Foret, F. - Kusý, P.
Microfluidics for multiplexed MS analysis.
Electrophoresis, 27 [24] 4877-4887 (2006)
- A11.** Gebauer, P. - Malá, Z. - Boček, P.
A new type of migrating zone boundary in electrophoresis. 2. Transient sample zone shapes.
Electrophoresis, 27 [3] 519-525 (2006)
- A12.** Gebauer, P. - Malá, Z. - Boček, P.
A new type of migrating zone boundary in electrophoresis. 3. The hybrid boundary and stacking criteria.
Electrophoresis, 27 [5-6] 962-967 (2006)
- A13.** Grym, J. - Otevřel, M. - Foret, F.
Aerodynamic mass spectrometry interfacing of microdevices without electrospray tips.
Lab on a Chip, 6 [10] 1306-1314 (2006)
- A14.** Herrmannová, M. - Křivánková, L. - Bartoš, M. - Vytřas, K.
Direct simultaneous determination of eight sweeteners in foods by capillary isotachopheresis.
Journal of Separation Science, 29 [8] 1132-1137 (2006)

- A15.** Horáková, H. - Vespalec, R.
Optical spectra of anionic boron cluster compounds and their utilization for photometric detection.
Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy, 65 [2] 378-386 (2006)
- A16.** Horká, M. - Růžička, F. - Holá, V. - Šlais, K.
Capillary isoelectric focusing of microorganisms in the pH range 2 – 5 in a dynamically modified FS capillary with UV detection.
Analytical and Bioanalytical Chemistry, 385 [5] 840-846 (2006)
- A17.** Horká, M. - Růžička, F. - Horký, J. - Holá, V. - Šlais, K.
Capillary isoelectric focusing of proteins and microorganisms in dynamically modified fused silica with UV detection.
Journal of Chromatography B, 841 [1-2] 152-159 (2006)
- A18.** Horká, M. - Růžička, F. - Horký, J. - Holá, V. - Šlais, K.
Capillary isoelectric focusing and fluorometric detection of proteins and microorganisms dynamically modified by poly(ethylene glycol) pyrenebutanoate.
Analytical Chemistry, 78 [24] 8438-8444 (2006)
- A19.** Karadjova, I.B. - Lampugnani, L. - Dědina, J. - D'Ulivo, A. - Onor, M. - Tsalev, D.L.
Organic solvents as interferents in arsenic determination by hydride generation atomic absorption spectrometry with flame atomization.
Spectrochimica Acta, 61 [5] 525-531 (2006)
- A20.** Karásek, P. - Planeta, J. - Roth, M.
Solubility of solid polycyclic aromatic hydrocarbons in pressurized hot water at temperatures from 313 K to the melting point.
Journal of Chemical and Engineering Data, 51 [2] 616-622 (2006)
- A21.** Karásek, P. - Planeta, J. - Roth, M.
Solubility of solid polycyclic aromatic hydrocarbons in pressurized hot water: Correlation with pure component properties.
Industrial and Engineering Chemistry Research, 45 [12] 4454-4460 (2006)
- A22.** Košťál, V. - Zeisbergerová, M. - Hroteková, Z. - Šlais, K. - Kahle, V.
Miniaturized liquid core waveguide-based fluorimetric detection cell for capillary separation methods: Application in CE of amino acids.
Electrophoresis, 27 [23] 4658-4665 (2006)

- A23.** Kováčik, V. - Bekešová, S. - Pätoprstý, V. - Řehulka, P. - Chmelík, J. - Kováč, P.
Positive-ion fragmentation in matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry of synthetic analogs of the O-specific polysaccharide of *Vibrio cholerae* O : 1.
European Journal of Mass Spectrometry, 12 [4] 247-252 (2006)
- A24.** Kratzer, J. - Dědina, J.
In-situ trapping of bismuthine in externally heated quartz tube atomizers for atomic absorption spectrometry.
Journal of Analytical Atomic Spectrometry, 21 [2] 208-210 (2006)
- A25.** Krejčí, P. - Dočekal, B. - Hrušovská, Z.
Trapping of hydride forming elements within miniature electrothermal devices. Part 3. Investigation of collection of antimony and bismuth on a molybdenum foil strip following hydride generation.
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- A26.** Laštovičková, M. - Chmelík, J.
Simple and fast method for recognition of reducing and nonreducing neutral carbohydrates by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry.
Journal of Agriculture and Food Chemistry, 54 [14] 5092-5097 (2006)
- A27.** Lazar, I.M. - Grym, J. - Foret, F.
Microfabricated devices: A new sample introduction approach to mass spectrometry.
Mass Spectrometry Reviews, 25 [4] 573-594 (2006)
- A28.** Lazaridis, M. - Eleftheriadis, K. - Smolík, J. - Colbeck, I. - Kallos, G. - Drossinos, Y. - Ždímal, V. - Večeřa, Z. - Mihalopoulos, N. - Mikuška, P. - Bryant, C. - Housiadas, C.
Dynamics of Fine Particles and Photo-Oxidants in the Eastern Mediterranean (SUB-AERO).
Atmospheric Environment, 40 [32] 6214-6228 (2006)
- A29.** Malá, Z. - Gebauer, P.
Properties of moving boundaries in electrophoretic systems with multivalent weak electrolytes: principles of non-Kohlrausch concentration adjustment.
Electrophoresis, 27 [23] 4601-4609 (2006)

- A30.** Mazanec, K. - Šlais, K. - Chmelík, J.
Mass spectrometric characterization of low-molecular-mass color pI markers and their use for direct determination of pI value of proteins
Journal of Mass Spectrometry, 41 [12] 1570-1577 (2006)
- A31.** Mikulášek, L. - Grüner, B. - Danila, C. - Böhmer, V. - Čáslavský, J. - Selucký, P.
Synergistic effect of ligating and ionic functions, prearranged on a calix[4]arene.
Chemical Communications, [38] 4001-4003 (2006)
- A32.** Mojumdar, S.C. - Mazanec, K. - Drábik, M.
Macro-defect-free (MDF) cements.
Journal of Thermal Analysis and Calorimetry, 83 [1] 135-139 (2006)
- A33.** Motyka, K. - Mikuška, P. - Večeřa, Z.
Continuous chemiluminescence determination of formaldehyde in air based on Trautz-Schorigin reaction.
Analytica Chimica Acta, 562 [2] 236-244 (2006)
- A34.** Mrázková, M. - Caslavská, J. - Thormann, W. - Křivánková, L.
Effects of lactate and acetate on the determination of serum ethyl glucuronide by CZE.
Electrophoresis, 27 [23] 4772-4778 (2006)
- A35.** Planeta, J. - Karásek, P. - Roth, M.
Distribution of sulfur-containing aromatics between [hmim][Tf₂N] and supercritical CO₂: a case study for deep desulfurization of oil refinery streams by extraction with ionic liquids.
Green Chemistry, 8 [1] 70-77 (2006)
- A36.** Plocková, J. - Chmelík, J.
Different elution modes and field programming in gravitational field-flow fractionation: Field programming using density and viscosity gradients.
Journal of Chromatography A, 1118 [2] 253-260 (2006)
- A37.** Pól, J. - Hohnová, B. - Jussila, M. - Hyötyläinen, T.
Comprehensive two-dimensional liquid chromatography–time-of-flight mass spectrometry in the analysis of acidic compounds in atmospheric aerosols.
Journal of Chromatography A, 1130 [1] 64-71 (2006)

- A38.** Řehulka, P. - Allmaier, G. - Chmelík, J.
Využití nesespecifických peptidů pro proteomickou identifikaci nízkomolekulárních proteinů z ječmene MALDI-TOF hmotnostní spektrometrií.
[The use of nonspecific peptides for proteomic identification of low-molecular-weight proteins from barley by MALDI-TOF mass spectrometry.]
Chemické Listy, 100 [12] 1111-1115 (2006).
- A39.** Řehulka, P. - Popkov, A. - Nádvorník, M. - Planeta, J. - Mazanec, K. - Chmelík, J.
Off-line combination of reversed-phase liquid chromatography and laser desorption/ionization time-of-flight mass spectrometry with seamless post-source decay fragment ion analysis for characterization of square-planar nickel(II) complexes.
Journal of Mass Spectrometry, 41 [4] 448-453 (2006)
- A40.** Urbánek, M. - Varenne, A. - Gebauer, P. - Křivánková, L. - Gareil, P.
Determination of trace cationic impurities in butylmethylimidazolium-based ionic liquids: From transient to comprehensive single-capillary counterflow isotachopheresis-zone electrophoresis.
Electrophoresis, 27 [23] 4859-4871 (2006)
- A41.** Vaňura, P. - Jedináková-Křížová, V. - Vobecký, M.
The use of liquid scintillation spectrometry for the determination of radionuclid purity of ^{90}Y from a radiochemical $^{90}\text{Y}/^{90}\text{Sr}$ generator.
Journal of Radioanalytical and Nuclear Chemistry, 267 [2] 501-503 (2006)
- A42.** Vénos, D. - Dragoun, O. - Špalek, A. - Vobecký, M.
Precise energy of the weak 32-keV gamma transition observed in $^{83\text{m}}\text{Kr}$ decay.
Nuclear Instruments and Methods in Physics Research A, 560 [2] 352-359 (2006)
- A43.** Viana, M. - Chi, X. - Maenhaut, W. - Cafmeyer, J. - Querol, X. - Alastuey, A. - Mikuška, P. - Večeřa, Z.
Influence of sampling artefacts on measured PM, OC, and EC levels in carbonaceous aerosols in an urban area.
Aerosol Science and Technology, 40 [2] 107-117 (2006)

- A44.** Viana, M. - Chi, X. - Maenhaut, W. - Querol, X. - Alastuey, A. - Mikuška, P. - Večeřa, Z.
Organic and elemental carbon concentrations in carbonaceous aerosols during summer and winter sampling campaigns in Barcelona, Spain.
Atmospheric Environment, 40 [12] 2180-2193 (2006)
- A45.** Zeisbergerová, M. - Košťál, V. - Šrámková, M. - Babica, P. - Bláha, L. - Glatz, Z. - Kahle, V.
Separation of microcystins by capillary electrochromatography in monolithic columns.
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B. BOOKS AND CHAPTERS IN BOOKS

- B1.** Dědina, J.
Generování těkavých sloučenin.
[Generation of volatile compounds.]
In: *Atomová absorpční spektrometrie*. Praha : Spektroskopická společnost Jana Marka Marci, 2006. pp. 35-52.
ISBN 80-903732-0-8
- B2.** Dočekal, B.
Atomová absorpční spektrometrie s kontinuálním zdrojem záření.
[Continuum source atomic absorption spectrometry.]
In: *Atomová absorpční spektrometrie*. Praha : Spektroskopická společnost Jana Marka Marci, 2006. pp. 11-15.
ISBN 80-903732-0-8
- B3.** Dočekal, B.
Atomová absorpční spektrometrie s využitím laserových diod.
[Laser diode atomic absorption spectrometry.]
In: *Atomová absorpční spektrometrie*. Praha : Spektroskopická společnost Jana Marka Marci, 2006. pp. 29-34.
ISBN 80-903732-0-8
- B4.** Dočekal, B.
Přímá analýza pevných vzorků atomovou absorpční spektrometrií s elektrotermickou atomizací.
[Direct solid sampling atomic absorption spectrometry with electrothermal atomization.]
In: *Atomová absorpční spektrometrie*. Praha : Spektroskopická společnost Jana Marka Marci, 2006. pp. 68-74.
ISBN 80-903732-0-8
- B5.** Foret, F.
Mikrofluidika a nanotechnologie pro proteomiku.
[Microfluidics and nanotechnology for proteomics.]
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ISBN 978-80-86238-13-5

- B6.** Roth, M.
Extrakce stlačenými tekutinami k přípravě organických vzorků pro analýzu.
[Pressurized fluid extraction for preparation of organic samples for analysis.]
In: *Vysokoučinné analytické separace biologicky aktivních látek*.
Praha : Pražské analytické centrum inovací, 2006 (Juláková, E.).
pp. 106-112.
ISBN 978-80-86238-13-5

C. LECTURES AND POSTERS

- C1.** Aturki, Z. - D'Orazio, G. - Rocco, A. - Foret, F. - Klepárník, K. - Fanali, S.
Use of liquid junction nanoflow electrospray interface for on-line capillary electrophoresis-mass spectrometry.
Abstracts of the 29th International Symposium on Capillary Chromatography and 3rd GCxGC Symposium (Ed. Sandra, T.). 2006.
[29th International Symposium on Capillary Chromatography and 3rd GCxGC Symposium. Riva del Garda (IT), 29.5.-2.6.2006]
(poster)
- C2.** Bobálová, J. - Chmelík, J.
Proteomická identifikace posttranslačních modifikací bílkovin v průběhu sladování.
[Proteomic identification of posttranslation protein modifications during the malting process.]
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(poster)
- C3.** Cabálková, J. - Čmelík, R. - Chmelík, J.
Combination of tandem mass spectrometry (MS/MS) techniques with HPLC for identification of particular carbohydrates in complex mixtures.
XX. biochemický zjazd. Bratislava: Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences, 2006, p. 386. ISBN 80-969532-6-5
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(poster)
- C4.** Čáslavský, J. - Řihák, P.
Mass spectrometry of cluster boron compounds.
24thIMMS. Book of Abstracts. 2006, p. 40.
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- C5.** Čáslavský, J. - Řihák, P.
Electrospray ionization - ion trap mass spectrometry of carboranes.
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[XVIIIth Slovak Spectroscopic Conference. Spišská Nová Ves (SK),
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(lecture)
- C6.** Čmelík, R. - Chmelík, J.
Structural analysis of neutral starch oligosaccharides by mass
spectrometry.
*XX. biochemický zjazd. Bratislava: Institute of Molecular Physiology
and Genetics, Slovak Academy of Sciences. 2006, p. 393.*
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[XX. biochemický zjazd. Piešťany (SK), 12.-16.9.2006]
(poster)
- C7.** Čulík, J. - Jurková, M. - Horák, T. - Čejka, P. - Kellner, V. - Karásek,
P. - Roth, M. - Planeta, J.
Extrakce hořkých kyselin z chmele a chmelových produktů pomocí
tlakové fluidní extrakce (PFE).
[Extraction of bitter acids from hop and hop products using
pressurized fluid extraction (PFE).]
Kvasný průmysl 52 [9] 280 (2006)
[33. Pivovarsko-sladařský seminář. Plzeň (CZ), 18.-19.10.2006]
(poster)
- C8.** Dědina, J. - Matoušek, T. - Svoboda, M. - Stýblo, M. - Devesa, V.
As speciation by cryofocusing - New approaches to atomization for
atomic absorption and atomic fluorescence.
6th ISSEBETS. Book of Abstracts. Bialowieza, 2006, p. 50.
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[6th International Symposium on Speciation of Elements in
Biological, Environmental and Toxicological Sciences. Bialowieza
(PL), 21.-25.6.2006]
(lecture)
- C9.** Dědina, J. - Kratzer, J.
New way of hydride trapping for atomic absorption spectrometry: in
quartz tube atomizers !
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[XVIIIth Slovak Spectroscopic Conference. Spišská Nová Ves (SK),
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(invited lecture)

- C10.** Dědina, J. - Kratzer, J.
Trapping of arsine and selenium hydride in quartz atomizers for atomic absorption spectrometry: a new way to ultratrace analysis.
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- C11.** Dědina, J. - Matoušek, T. - Svoboda, M. - Stýblo, M. - Thomas, D.
Advanced approaches to arsine atomization for As speciation by cryofocusing with atomic absorption and atomic fluorescence detectors.
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ISBN 980-12-2202-6
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(poster)
- C12.** Dočekal, B.
Direct solid sampling electrothermal atomic absorption spectrometry.
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[XVIIIth Slovak Spectroscopic Conference. Spišská Nová Ves (SK), 15.-18.10.2006]
(invited lecture)
- C13.** Dočekal, B. - Dočekalová, H. - Řezáčová-Smetková, V.
Soil characterization by diffusive gradients in thin film (DGT) technique.
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(lecture)
- C14.** Dočekal, B. - Hrušovská, Z. - Krejčí, P.
Mechanisms of trapping and interference effects in collection of hydride forming elements within atomizers.
VII EFS and XII SSC. Book of Abstracts (Ed. Grinstejn, I.). St. Petersburg, 2006, p.33.
[VII European Furnace Symposium on Atomic Absorption Spectrometry, Electrothermal Vaporization and Atomization and XII Solid Sampling Colloquium with Atomic Spectrometry. St. Petersburg (RU), 2.-7.7.2006]
(lecture)

- C15.** Dočekal, B. - Mikuška, P. - Šikola, T. - Večeřa, Z. - Zlámal, J.
Electric focusing preconcentration device for element composition monitoring of air aerosols by atomic emission spectroscopy.
ISEAC34. Book of Abstracts (Ed. Broekaert, J.). Hamburg: University of Hamburg, 2006, B56.
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- C16.** Dočekal, B. - Večeřa, Z. - Mikuška, P. - Šikola, T. - Zlámal, J.
Electric focusing preconcentration devices for element in-time monitoring of airborne particles by atomic emission spectroscopy.
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- C17.** Dočekal, B. - Vojtková, B.
Determination of trace impurities in titanium dioxide by direct solid sampling ETAAS.
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- C18.** Foret, F.
Microfluidics and nanotechnology in mass spectrometry.
17th IMSC. Abstract Book. Prague, 2006, p. 26.
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- C19.** Grossová, O. - Dědina, J.
Development of L-shaped hydride multiatomizer for atomic absorption spectrometry. Book of Abstracts.
VII EFS and XII SSC. Book of Abstracts (Ed. Grinstejn, I.). St. Petersburg, 2006, p.73.
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(poster)

- C20.** Grym, J. - Svobodová, I. - Klepárník, K. - Foret, F.
Development of microfluidic analytical system for cell electrolysis.
EDS '06. Proceedings. Brno: VUT Brno, 2006, pp. 201-204.
ISBN 80-214-3246-2
[Electronic Devices and Systems. Brno (CZ), 14.-15.9.2006]
(poster)
- C21.** Herrmannová, M. - Křivánková, L. - Bartoš, M. - Vytřas, K.
Isotachophoretic determination of basic amino acids: arginine, histidine and lysine in real matrix.
The abstract book (Ed. Blatná, J.). Pardubice: Univezita Pardubice, 2006, pp. 199-200. ISBN 80-7194-855-1
[Vitamins 2006. 6th International Conference. Health Ingredients Metabolism Analysis. Pardubice (CZ), 10.-16.9.2006]
(poster)
- C22.** Herrmannová, M. - Křivánková, L. - Vytřas, K.
Determination of ethyl glucuronide as a marker of alcohol consumption by on-line combination of isotachophoresis and capillary zone electrophoresis in serum samples.
Abstracts of the 29th International Symposium on Capillary Chromatography and 3rd GCxGC Symposium (Ed. Sandra, T.). 2006.
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- C23.** Herrmannová, M. - Křivánková, L. - Vytřas, K.
Determination of ethyl glucuronide in human urine by on-line combination of isotachophoresis and capillary zone electrophoresis.
Abstract Book. 2006, PA 02.
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- C24.** Herrmannová, M. - Křivánková, L. - Vytřas, K.
Využití kapilární izotachoforézy a jejího spojení s kapilární zónovou elektroforézou pro stanovení mikrosložek ve vzorcích se složitou maticí.
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