

SEZNAM PRACÍ

LIST OF PAPERS

2003

**Ústav analytické chemie
Akademie věd České republiky
Brno**

**Institute of Analytical Chemistry
Academy of Sciences of the Czech Republic
Brno**

Published by Institute of Analytical Chemistry
Academy of Sciences of the Czech Republic
Veveří 97
CZ – 61142 Brno
Czech Republic

Editors J. Doleželová and M. Mikešová

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*Department of Scientific Information
Institute of Analytical Chemistry
Academy of Sciences of the Czech Republic
Veveří 97
CZ – 61142 Brno*

A. ORIGINAL PAPERS

- A1.** Barták, P. - Šimánek, V. - Vlčková, M. - Ulrichová, J. - Vespalec, R.
Interactions of sanguinarine and chelerythrine with molecules containing a mercapto group.
Journal of Physical Organic Chemistry, 16 [10] (2003) 803-810.
- A2.** Beckers, J.L. - Ackermans, M.T. - Boček, P.
Capillary zone electrophoresis in methanol: Migration behavior and background electrolytes.
Electrophoresis, 24 [10] (2003) 1544-1552.
- A3.** Berka, J. - Ruiz-Martinez, M.C. - Hammond, R. - Minarik, M. - Foret, F. - Sosic, Z. - Klepárník, K. - Karger, B.L.
Application of high-resolution capillary array electrophoresis with automated fraction collection for GeneCallingTM analysis of the yeast genomic DNA.
Electrophoresis, 24 [4] (2003) 639-647.
- A4.** Čáslavský, J. - Kotlaříková, P.
High-molecular-weight polycyclic aromatic hydrocarbons in the area and vicinity of the DEZA chemical plant, Czech Republic.
Polycyclic Aromatic Compounds, 23 [-] (2003) 327-352.
- A5.** Čulík, J. - Horák, T. - Kellner, V. - Jurková, M. - Čejka, P. – Karásek, P. – Varad'ová Ostrá, E.
Superkritická extrakce kapalin - novinka v pivovarské analytice.
[Direct continuous SFE of liquid samples - A novel method in beer analysis.]
Kvasný průmysl, 49 [9] (2003) 254-255.
[20. Pivovarsko-sladařské dny. - Frýdek-Místek (CZ) , October 9-10, 2003.]
- A6.** D'Ulivo, A. - Dědina, J.
The relation of double peaks, observed in quartz hydride atomizers, to the fate of free atoms in the determination of arsenic and selenium by atomic absorption spectrometry.
Spectrochimica Acta B, 57 [12] (2002) 2069-2079.

- A7.** Dobšík, M. - Mikuška, P. - Večeřa, Z.
Kontinuální stanovení stopových koncentrací amoniaku ve vzduchu.
[Continuous determination of trace concentrations of ammonia in air.]
Chemické Listy, 97 [3] (2003) 166-170.
- A8.** Dočekal, B. - Smetková, V. - Dočekalová, H.
Characterization of Czech soils by diffusive gradients in thin films technique.
Chemical Papers - Chemické Zvesti, 57 [3] (2003) 161-166.
[XVIth Slovak Spectroscopic Conference, Košice (SK), June 23-27, 2002.]
- A9.** Halamka, M. - Kavecký, Š. - Dočekal, B. - Madejová, J. - Šajgalík, P.
Synthesis of high purity Si₃N₄ and SiC powders by CVD method.
Ceramics - Silikáty, 47 [3] (2003) 88-93.
- A10.** Horká, M. - Planeta, J. - Růžička, F. - Šlais, K.
Sol-gel column technology for capillary isoelectric focusing of microorganisms and biopolymers with UV or fluorometric detection.
Electrophoresis, 24 [9] (2003) 1383-1390.
- A11.** Junková, G. - Šíma, J. - Rychlovský, P.
Interferences of selected transition and noble metals and hydride-forming elements in electrochemical hydride generation of H₂Se.
Chemical Papers - Chemické Zvesti, 57 [3] (2003) 192-196.
[XVIth Slovak Spectroscopic Conference, Košice (SK), June 23-27, 2002.]
- A12.** Kahle, V. - Vázlerová, M. - Welsch, T.
Automated microgradient system for capillary electrochromatography.
Journal of Chromatography A, 990 [1-2] (2003) 3-9.

- A13.** Karásek, P. - Planeta, J. – Varad'ová Ostrá, E. - Mikešová, M. – Goliáš, J. - Roth, M. - Vejrosta, J.
Direct continuous supercritical fluid extraction as a novel method of wine analysis. Comparison with conventional indirect extraction and implications for wine variety identification.
Journal of Chromatography A, 1002 [1-2] (2003) 13-23.
- A14.** Klepárník, K. - Horký, M.
Detection of DNA fragmentation in a single apoptotic cardiomyocyte by electrophoresis on a microfluidic device.
Electrophoresis, 24 [21] (2003) 3778-3783.
- A15.** Křivánková, L. - Pantůčková, P. - Gebauer, P. - Boček, P. – Caslavská, J. - Thormann, W.
Chloride present in biological samples as a tool for enhancement of sensitivity in capillary zone electrophoretic analysis of anionic trace analytes.
Electrophoresis, 24 [3] (2003) 505-517.
- A16.** Kvasničková, L. - Glatz, Z. - Kahle, V.
Kapilární elektrochromatografie.
[Capillary electrochromatography.]
Chemické Listy, 97 [2] (2003) 86-92.
- A17.** Matoušek, T. - Sturgeon, R.E.
Surfactant assisted chemical vapour generation of silver for AAS and ICP-OES: a mechanistic study.
Journal of Analytical Atomic Spectrometry, 18 [5] (2003) 487-494.
- A18.** Mikuška, P. - Večeřa, Z.
Simultaneous determination of nitrite and nitrate in water by chemiluminescent flow-injection analysis.
Analytica Chimica Acta, 495 [1-2] (2003) 225-232.
- A19.** Moravcová, D. - Jandera, P. - Urban, J. - Planeta, J.
Characterization of polymer monolithic stationary phases for capillary HPLC.
Journal of Separation Science, 26 [11] (2003) 1005-1016.

- A20.** Planeta, J. - Karásek, P. - Vejrosta, J.
Development of packed capillary columns using carbon dioxide slurries.
Journal of Separation Science, 26 [7/8] (2003) 525-530.
- A21.** Pól, J. - Wenclawiak, B.W.
Direct on-line continuous supercritical fluid extraction and HPLC of aqueous pyrethrins solutions.
Analytical Chemistry, 75 [6] (2003) 1430-1435.
- A22.** Roth, M.
Interaction second virial coefficients for ($\text{CO}_2 + n\text{-C}_m\text{H}_{2m+2}$) with ($m = 21$ to 40) from supercritical fluid chromatography.
Journal of Chemical Thermodynamics, 35 [4] (2003) 667-675.
- A23.** Roth, M.
Krichevskii parameters of heavy n-alkanes in carbon dioxide: comparison of the results from solubility measurements and from supercritical fluid chromatography.
Fluid Phase Equilibria, 212 [1-2] (2003) 1-9.
- A24.** Řehulka, P. - Šalplachta, J. - Chmelík, J.
Improvement of quality of peptide mass spectra in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and post-source decay analysis of salty protein digests by using on-target washing.
Journal of Mass Spectrometry, 38 [12] (2003) 1267-1269.
[21st Informal Meeting on Mass Spectrometry. - Antwerp (BE), May 11-15, 2003.]
- A25.** Sladkovský, R. - Urbánek, M. - Solich, P.
Off-line coupling of isotachopheresis and high performance liquid chromatography for determination of flavonoids in plant extract.
Chromatographia, 58 [3-4] (2003) 187-192.
- A26.** Slavíček, V. - Grüner, B. - Vespalec, R.
Exploration of the electrophoretic behaviour of borane cluster anions and of the capability of capillary electrophoresis to separate them chirally.
Journal of Chromatography A, 984 [1] (2003) 121-134.

- A27.** Spěšný, M. - Foret, F.
Microdevice for separation and quantitative fraction collection.
Electrophoresis, 24 [21] (2003) 3745-3747.
- A28.** Sysalová, J. - Spěváčková, V.
A study of sample mineralization methods for arsenic analysis of blood and urine by hydride generation and graphite furnace atomic absorption spectrometry.
Central European Journal of Chemistry, 1 [2] (2003) 108-120.
- A29.** Šíma, J. - Rychlovský, P.
Electrochemical selenium hydride generation with in situ trapping in graphite tube atomizers.
Spectrochimica Acta B, 58 [5] (2003) 919-930.
- A30.** Šťastná, M. - Šlais, K.
Dynamics of gel isoelectric focusing with ampholytic dyes monitored by camera in real-time.
Journal of Chromatography A, 1008 [2] (2003) 193-203.
- A31.** Vaňura, P. - Makrlík, E. - Vobecký, M.
Extraction distribution of microamounts of strontium in the two-phase water-NH₄Cl-15-crown-5-nitrobenzene-ammonium dicarbollylcobaltate system.
Chemical Papers, 57 [2] (2003) 108-111.
- A32.** Vaňura, P. - Makrlík, E. - Vobecký, M.
Extraction of calcium into nitrobenzene by using hydrogen dicarbollylcobaltate in the presence of 12-crown-4.
Journal of Radioanalytical and Nuclear Chemistry, 256 [3] (2003) 599-602.
- A33.** Vaňura, P. - Makrlík, E. - Vobecký, M.
Separation of yttrium from strontium in the aqueous phase of the water/nitrobenzene extraction system.
Journal of Radioanalytical and Nuclear Chemistry, 256 [1] (2003) 171-172.

- A34.** Vaňura, P. - Makrlík, E. - Vobecký, M.
Solvent extraction of strontium into nitrobenzene using hydrogen dicarbollylcobaltate in the presence of 12-crown-4.
Journal of Radioanalytical and Nuclear Chemistry, 257 [2] (2003) 437-440.
- A35.** Vespalec, R. - Barták, P. - Šimánek, V. - Vlčková, M.
Electrophoretic investigation of interactions of sanguinarine and chelerythrine with molecules containing mercapto group.
Journal of Chromatography B, 797 [1-2] (2003) 357-366.
- A36.** Zeisbergerová, M. - Kahle, V.
Automatizovaná elektrochromatografická analýza.
[Automated electrochromatographic analysis.]
Chemické Listy, 97 [8] (2003) 619-620.
[55. Zjazd chemických spoločností. Zborník. - Košice (SK),
September 8-12, 2003.]

B. BOOKS, CONTRIBUTIONS TO MONOGRAPHS, REVIEWS

- B1.** Beckers, J.L. - Boček, P.
The preparation of background electrolytes in capillary zone electrophoresis: Golden rules and pitfalls.
Electrophoresis, 24 [3] (2003) 518-535.
- B2.** Dědina, J.
Technika generování hydridů a jiných těkavých sloučenin.
[Generation of hydrides and other volatile compounds.]
In: Atomová absorpční spektrometrie. 2THETA, Český Těšín, 2003,
p. 47-70.
- B3.** Dočekal, B.
Analytické parametry a metrologické aspekty v AAS.
[Analytical parameters and metrological aspects of AAS.]
In: Atomová absorpční spektrometrie. 2THETA, Český Těšín, 2003,
p. 91-99.
- B4.** Dočekal, B.
Měření absorpce - základní prvky instrumentace v AAS.
[Absorption measurements - basic principles of instrumentation in AAS.]
In: Atomová absorpční spektrometrie. 2THETA, Český Těšín, 2003,
p. 13-47, 89-91.
- B5.** Dočekal, B.
Základní fyzikální principy.
[Fundamentals.]
In: Atomová absorpční spektrometrie. 2THETA, Český Těšín, 2003,
p. 7-13.

- B6.** Slavíček, V. - Grüner, B. - Vespalec, R.
Chiral separations of charged cluster boranes.
In: Boron chemistry at the beginning of the 21th century. A.N. Nesmeyanov Institute of Organoelement Compounds. Russian Academy of Sciences, Moskva, 2003, p. 141-145.
- B7.** Sysalová, J.
Elektrotermické atomizátory.
[Electrothermal atomizers.]
In: Atomová absorpční spektrometrie I. Základní kurz. Spektroskopická společnost Jana Marka Marci, Praha, 2003, p. 44-52.
- B8.** Sysalová, J.
Technika elektrotermické atomizace.
[Technique of electrothermal atomization.]
In: Atomová absorpční spektrometrie I. Základní kurz. Spektroskopická společnost Jana Marka Marci, Praha, 2003, p. 71-82.
- B9.** Šimánek, V. - Vespalec, R. - Šedo, A. - Ulrichová, J. - Vičar, J.
Quaternary benzo[c]phenanthridine alkaloids - biological activities. Intracellular targets of their action and application in human and veterinary medicine.
In: Chemical Probes in Biology. Science at the Interface of Chemistry, Biology and Medicine. NATO Science Series, II. Mathematics, Physics and Chemistry, Vol. 129. Kluwer Academic Publishers, Dordrecht, 2003, p. 245-254.
- B10.** Urbánek, M. - Křivánková, L. - Boček, P.
Stacking phenomena in electromigration: From basic principles to practical procedures.
Electrophoresis, 24 [3] (2003) 466-485.

C. LECTURES, ABSTRACTS, POSTERS

- C1.** Čáslavský, J. - Benešová, K.
The application of argentation-ESI for the LC/MS analysis of heavy PAHs.
21st Informal Meeting on Mass Spectrometry. - Antwerp (BE), May 11-15, 2003.
In: 21st Informal Meeting on Mass Spectrometry. Book of Abstracts. University of Antwerp, Antwerp, 2003, p. 130-131.
(poster)
- C2.** Čáslavský, J. - Kotlaříková, P. - Benešová, K.
Sampling of persistent organic pollutants in the environment using SPMDs.
II Regional Symposium Chemistry and the Environment. - Kruševac (NQ), June 18-22, 2003.
In: II Regional Symposium Chemistry and the Environment. Proceedings. Serbian Chemical Society, Beograd, 2003, p. 51-52.
(lecture)
- C3.** Čáslavský, J. - Kotlaříková, P. - Benešová, K.
Semipermeable membrane device uptake kinetics of PAHs from the air: mathematical modelling.
4th European Meeting on Environmental Chemistry. - Plymouth (GB), December 10-13, 2003.
In: 4th European Meeting on Environmental Chemistry. Book of Abstracts. University of Plymouth, Plymouth, 2003, p. 173.
(poster)
- C4.** Čáslavský, J. - Kotlaříková, P. - Benešová, K. - Doškářová, Š. - Hamrusová, M.
Vzorkování persistentních organických polutantů v ovzduší pomocí SPMDs: Výhody a nevýhody.
[Sampling of persistent organic pollutants in air using SPMDs: Advantages and disadvantages.]
Ovzduší 2003. - Brno (CZ), May 5-7, 2003.
In: Ovzduší 2003. Program a sborník konference. Masarykova univerzita Brno, Brno, 2003, p. 116-119.
(lecture)

- C5.** D'Ulivo, A. - Lampugnani, L. - Dědina, J.
Effects of carrier gas contamination by oxygen at trace level in miniature diffusion hydrogen flame hydride atomizers.
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In: Colloquium Spectroscopicum Internationale XXXIII. Actas. Universidad de Granada, Granada, 2003, p. 56.
(lecture)
- C6.** Dědina, J. - Korkmaz, D. - Kratzer, J. - Ataman, O.Y.
Hydride preconcentration on the quartz surface with subsequent atomization in the quartz multiatomizer.
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(lecture)
- C7.** Dědina, J. - Korunová, V. - D'Ulivo, A.
New developments in hydride atomizers for atomic absorption and atomic fluorescence spectrometry.
12. Spektroskopická konference Spektroskopické společnosti Jana Marka Marci. - Praha (CZ), June 10-12, 2003.
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- C8.** Dědina, J. - Šíma, J. - Rychlovský, P.
Efficiency of the electrochemical hydride generation.
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In: Colloquium Spectroscopicum Internationale XXXIII.
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- C9.** Dočekal, B.
 In situ trapping of hydride forming elements within miniature electrothermal devices useful for atomic spectrometry methods. Colloquium Spectroscopicum Internationale XXXIII. - Granada (ES), September 7-12, 2003.
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- C10.** Dočekal, B.
 Nová pozorování při kolekci těkavých hydridů analytů v miniaturních atomizátorech.
 [In situ trapping of hydride forming elements within miniature atomizers New observations.]
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- C11.** Dočekal, B. - Dočekalová, H. - Smetková, V.
 Soil characterization by diffusive gradients in thin film (DGT) technique.
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- C12.** Dočekal, B. - Gucer, S.
 In situ trapping of hydride forming elements on molybdenum foil strip.
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New Strategies. Programme and Abstracts. Zaragoza, 2003, p. 28.
(lecture)

- C13.** Horká, M. - Růžička, F. - Šlais, K.
Dynamic modification of microorganisms by pyrene-butanoate for
fluorometric detection in capillary electrokinetic techniques.
1st FEMS Congress of European Microbiologists. - Ljubljana (SI),
June 29-July 3, 2003.
In: FEMS Congress of European Microbiologists. Abstract book.
Elsevier, Federation of European Microbiological Societies, Delft,
2003, p. 283.
(poster)
- C14.** Kahle, V.
Towards automated electrochromatographic analysis: Sample
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In: HPLC 2003. 27th Symposium on High Performance Liquid
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(poster)
- C15.** Karásek, P. – Varad'ová Ostrá, E. - Čulík, J. - Horák, T. - Čejka, P.
- Jurková, M. - Kellner, V.
Direct continuous SFE of liquid samples - new method for analysis
of sensory-active and extraneous compounds in beer.
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Extraction Technologies. - St. Pete Beach, Florida (US). March 5-
7, 2003.
(poster)
- C16.** Karásek, P. - Roth, M. - Mikešová, M. - Ventura, K.
Direct coupling of supercritical fluid extraction to mass
spectrometry (SFE/MS) for rapid screening of common
polyaromatic pollutants.

ExTech2003. 5th International Symposium on Advances in Extraction Technologies. - St. Pete Beach, Florida (US), March 5-7, 2003.

In: ExTech 2003. Program and Abstracts. 2003, p. 64.
(poster)

- C17.** Klepárník, K.
Alkaline capillary electrophoresis.
ITP 2002. 13th International Symposium on Capillary Electro-separation Techniques. - Helsinki (FI), September 1-4, 2002.
In: ITP 2002. The 13th International Symposium on Capillary Electro-separation Techniques. Program and Book of Abstracts. Helsinki, 2002, p. 33.
(lecture)
- C18.** Klepárník, K.
Detection of single cardiomyocyte apoptosis in microfluidic analytical systems.
16th International Symposium on Microscale Separations and Analysis. - San Diego, California (US), January 17-22, 2003.
In: HPCE 2003. 16th International Symposium on Microscale Separations and Analysis. Final program & Book of Abstracts. San Diego, 2003, p. 108-109.
(lecture)
- C19.** Klepárník, K.
Význam kapilární elektroforézy pro řešení projektu "Lidský genom".
[Importance of capillary electrophoresis in Human Genome Project.]
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In: FONS 2002. Sympozium klinické biochemie. Program a sborník. Pardubice, 2002, p. 85.
(lecture)
- C20.** Korunová, V. - Selecká, A.
Studie distribuce selenu v grafitové kyvetě po in situ kolekci $^{75}\text{SeH}_2$ "Image plate" autoradiografií.

[Study of selenium distribution in graphite tube after in situ collection $^{75}\text{SeH}_2$ by "Image plate" autoradiography.]

12. Spektroskopická konference Spektroskopické společnosti Jana Marka Marci. - Praha (CZ), June 10-12, 2003.

In: 12. Spektroskopická konference Spektroskopické společnosti Jana Marka Marci. Abstrakta příspěvků. VŠCHT Praha, Praha, 2003, p. 51.

(poster)

- C21.** Korunová, V. - Vobecký, M. - Spěváčková, V. - Čejchanová, M. Mercury determination in whole blood: Containers and stability study with radio-indicator and AMA 254 AAS.

Colloquium Spectroscopicum Internationale XXXIII.

Presymposium on Sample Introduction in Atomic Spectrometry: New Strategies. - Zaragoza (ES), September 3-6, 2003.

In: Colloquium Spectroscopicum Internationale XXXIII.

Presymposium on Sample Introduction in Atomic Spectrometry: New Strategies. Programme and Abstracts. Zaragoza, 2003, p. 51.

(poster)

- C22.** Korunová, V. - Vobecký, M. - Spěváčková, V. - Čejchanová, M. Sampling procedure and a radio-indicator study for the mercury determination in whole blood by AMA 254 AAS.

Colloquium Spectroscopicum Internationale XXXIII. - Granada (ES), September 7-12, 2003.

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(poster)

- C23.** Kotlaříková, P. - Čáslavský, J. - Benešová, K.

Comparison of passive and active sampling methods for monitoring of PAHs in the air.

II Regional Symposium Chemistry and the Environment. - Kruševac (NQ), June 18-22, 2003.

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Proceedings. Serbian Chemical Society, Beograd, 2003, p. 145-146.

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- C24.** Křivánková, L.
Advantage of isotachophoretic stacking effect and its applicability in analyses of microcomponents in samples with complex matrices performed by capillary zone electrophoresis.
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(poster)
- C25.** Křivánková, L.
Benefit of transient isotachophoretic stacking for analyses of complicated samples by capillary zone electrophoresis.
15th International Conference Chromatographic Methods and Human Health. - Piešťany (SK), November 10-13, 2003.
In: Piešťany 03. 15th International Conference Chromatographic Methods and Human Health. Proceedings. Piešťany, 2003, p. 29.
(lecture)
- C26.** Křivánková, L. - Pantůčková, P.
Simple and reliable CZE method for determination of iodide in human urine, serum, sea water and cooking salt.
15th International Conference Chromatographic Methods and Human Health. - Piešťany (SK), November 10-13, 2003.
In: Piešťany 03. 15th International Conference Chromatographic Methods and Human Health. Proceedings. Piešťany, 2003, p. 63.
(poster)
- C27.** Maenhaut, W. - Chi, X. - Cafmeyer, J. - Mikuška, P. - Večeřa, Z. - Broškovičová, A.
Field investigations with a diffusion denuder for the elimination of sampling artifacts for carbonaceous aerosols.
EAC 2003. European Aerosol Conference 2003. - Madrid (ES), August 31-September 5, 2003.
In: Journal of Aerosol Science. Abstracts of the European Aerosol Conference 2003. Volume II. Elsevier, 2003, p. S1171-S1172.
(poster)

- C28.** Mikuška, P. - Večeřa, Z. - Broškovičová, A.
Artifact free denuder method for sampling of carbonaceous aerosols.
EGS-AGU-EUG Joint Assembly. - Nice (FR), April 6-11, 2003.
In: EGS-AGU-EUG Joint Assembly. Geophysical Research Abstracts. European Geophysical Society, 2003, p. 05873.
(poster)
- C29.** Mikuška, P. - Večeřa, Z. - Broškovičová, A. - Maenhaut, W., Chi, X.
Aplikace difúzního denuderu pro odstranění artefaktů při vzorkování uhlíkatých aerosolů.
[Application of diffusion denuder for elimination of sampling artefacts of carbonaceous aerosols.]
Česká aerosolová společnost. - Praha (CZ), November 27, 2003.
In: Sborník konference. Praha, 2003, p. 17-18.
(lecture)
- C30.** Mikuška, P. - Večeřa, Z. - Broškovičová, A. - Štěpán, M. - Chi, Maenhaut, W.
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