

SEZNAM PRACÍ
LIST OF PAPERS

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In the List of Papers 2002 the papers are divided into the following sections:

- A** Original Papers
- B** Books, Contributions to Monographs, Reviews
- C** Lectures, Abstracts, Posters
- D** Research Reports
- E** Patents, Patent Applications
- F** Varia
- G** Theses
- H** Papers and Books in Press
- J** Grants

List of Papers 2002 may be requested from:

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Institute of Analytical Chemistry
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A. ORIGINAL PAPERS

- A1.** Balík, J. - Goliáš, J. - Veverka, J. - Kyseláková, M. - Němcová, A. - Šuderlová, L. - Vejrosta, J.
Wine volatiles composition in the sensory evaluation of bouquet and flavour of two vine cultivars.
Horticulture Science, 29 [1] (2002) 4-11.
- A2.** Beckers, J. L. - Boček, P.
Multiple effect of surfactants used as additives in background electrolytes in capillary zone electrophoresis: Cetyltrimethylammonium bromide as example of model surfactant.
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- A3.** Beckers, J. L.- Boček, P.
Multivalent weak electrolytes - risky background electrolytes for capillary zone electrophoresis.
Electrophoresis, 23 [12] (2002) 1942-1946.
- A4.** Chmelík, J. - Řehulka, P. - Střelcová, M. - Kubáň, V. - Mayrhofer, C. - Allmaier, G.
Proteomic analysis of different extracts from barley grains.
Rostlinná výroba, 48 [6] (2002) 261-264.
- A5.** Cretich, M. - Šťastná, M. - Chrambach, A. - Chiari, M.
Decreased protein peak asymmetry and width due to static capillary coating with hydrophilic derivatives of polydimethylacrylamide.
Electrophoresis, 23 [14] (2002) 2274-2278.
- A6.** D'Ulivo, A. - Dědina, J. - Lampugnani, L. - Matoušek, T.
Mechanism of selenium hydride atomization, fate of free atoms and temperature distribution in an argon shielded, highly fuel-rich, hydrogen-oxygen diffusion micro-flame studied by atomic absorption spectrometry.
Journal of Analytical Atomic Spectrometry, 17 [3] (2002) 253-257.
- A7.** Dastych, M. - Dastych jr., M. - Malášková, L. - Chmelík, J. - Čáslavský, J.
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- A8.** Dočekal, B. - Marek, P. - Večeřa, Z.
Bioaccumulation of heavy metals (Cd, Cr, Cu, Ni, Pb and Zn) in a tissue of earthworms exposed to sewage sludge amended soils.
Chemia i Inżynieria Ekologiczna, 9 [2-3] (2002) 159-167.
- A9.** Foret, F. - Preisler, J.
Liquid phase interfacing and miniaturization in matrix-assisted laser desorption/ionization mass spectrometry.
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- A10.** Grüner, B. - Císařová, I. - Čáslavský, J. - Bonnetot, B. - Cornu, D.
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- A11.** Grüner, B. - Plešek, J. - Báča, J. - Dozol, J. F. - Lamare, V. - Císařová, I. - Bělohradský, M. - Čáslavský, J.
Crown ether substituted cobalto bis(dicarbollide) ions as selective extraction agents for removal of Cs⁺ and Sr²⁺ from nuclear waste.
New Journal of Chemistry, 26 [7] (2002) 867-875.
- A12.** Horká, M. - Šlais, K.
Pyrenebutanoate as a dynamic protein modifier for fluorometric detection in capillary zone electrophoresis.
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- A13.** Karásek, P. - Pól, J. - Planeta, J. - Roth, M. - Vejrosta, J. - Wičar, S.
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Separation of microamounts of yttrium from strontium in the two-phase water/nitrobenzene system.
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Stability of dicyclohexyl-18-crown-6-hydrogen complex in nitrobenzene saturated with water.
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- A23.** Minarik, M. - Klepárník, K. - Gilár, M. - Foret, F. - Miller, A. W.-
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Design of a fraction collector for capillary array electrophoresis.
Electrophoresis, 23 [1] (2002) 35-42.
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Electroosmotic flow in capillary channels filled with nonconstant viscosity electrolytes: Exact solution of the Navier-Stokes equation.
Electrophoresis, 23 [20] (2002) 3574-3582.
- A25.** Pavelka, S. - Babický, A. - Lener, J. - Vobecký, M.
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- A26.** Planeta, J. - Řehulka, P. - Chmelík, J.
Sample deposition device for off-line combination of supercritical fluid chromatography and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry.
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Synthesis of functionalized cobaltacarboranes based on the closo-[(1,2-C₂B₉H₁₁)₂-3,3'-Co]⁻ ion bearing polydentate ligands for separation of M³⁺ cations from nuclear waste solutions. Electrochemical and liquid-liquid extraction study of selective transfer of M³⁺ metal cations to an organic phase. Molecular structure of the closo-[(8-(2-CH₃O-C₆H₄-O)-(CH₂CH₂O)₂-1,2-C₂B₉H₁₀)-(1',2'-C₂B₉H₁₁)-3,3'-Co]Na determined by X-ray diffraction analysis. *Polyhedron*, 21 [9-10] (2002) 975-986.

- A28.** Plocková, J. - Matulík, F. - Chmelík, J.
Different elution modes and field programming in gravitational field-flow fractionation. IV. Field programming achieved with channels of non-constant cross-sections.
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- A34.** Sysalová, J. - Kučera, J. - Kotlík, B. - Havránek, V.
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- A37.** Tan, A. - Pashkova, A. - Zang, L. - Foret, F. - Karger, B. L.
A miniaturized multichamber solution isoelectric focusing device for separation of protein digests.
Electrophoresis, 23 [20] (2002) 3599-3607.
- A38.** Vaňura, P. - Makrlík, E. - Vobecký, M.
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B. **BOOKS, CONTRIBUTIONS TO MONO-
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- B2.** Gebauer, P. - Boček, P.
Recent progress in capillary isotachopheresis.
Electrophoresis, 23 [22-23] (2002) 3858-3864.

C. LECTURES, ABSTRACTS, POSTERS

- C1.** Boček, P. - Boušková, E. - Presutti, C. - Gebauer, P. - Fanali, S.
Electromigration properties of borate buffers as background electrolytes in CZE.
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- C2.** Budinská, M. - Chmelík, J.
Optimized quantitative procedure for size characterization of barley starch granules by gravitational field-flow fractionation.
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Determination of simple carbohydrates in citrus juices by using capillary electrophoresis with indirect detection and high performance liquid chromatography.
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- C5.** D'Ulivo, A. - Dědina, J.
The formation of double peaks and their relation with the fate of free atoms formed by hydride atomization in miniature flames.
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- C6.** Dědina, J. - Korunová, V.
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5th European Furnace Symposium and 10th International Solid Sampling Colloquium with Atomic Spectroscopy. - Blagoevgrad (BG), September 1-4, 2002.
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(lecture)
- C7.** Dědina, J. - Korunová, V. - D'Ulivo, A.
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(lecture)
- C8.** Dočekal, B.
"Modifiers" - How do they work ? - A personal view.
5th European Furnace Symposium and 10th International Solid Sampling Colloquium with Atomic Spectroscopy. - Blagoevgrad (BG), September 1-4, 2002.
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(lecture)

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In situ collection of hydride forming elements for atomic spectrometry methods - New observations.
5th European Furnace Symposium and 10th International Solid Sampling Colloquium with Atomic Spectroscopy. - Blagoevgrad (BG), September 1-4, 2002.
In: 5th European Furnace Symposium and 10th International Solid Sampling Colloquium with Atomic Spectroscopy. Programme and Book of Abstracts. South-West University, Blagoevgrad, 2002, p. 38.
(lecture)
- C10.** Dočekal, B. - Smetková, V. - Dočekalová, H.
Soil characterization by diffusive gradients in thin film (DGT) technique.
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(lecture)
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Use of gel techniques for metal speciation in aquatic systems.
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(lecture)
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(lecture)
- C13.** Gabrovská, D. - Rysová, J. - Šalplachta, J. - Řehulka, P. - Chmelík, J.
Využití metod HPLC a MALDI-TOF MS pro stanovení glutenu v bezlepkových surovinách a potravinách.
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(poster)
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(poster)
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In: ITP 2002. The 13th International Symposium on Capillary Electroseparation Techniques. Program and Book of Abstracts. Helsinki, 2002, p. 113.
(poster)
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(lecture)
- C17.** Korunová, V.
A study of selenium distribution in GF after in situ trapping of ⁷⁵SeH₂ by image plate autoradiography.
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(poster)

- C18.** Korunová, V.
Autoradiography of ^{75}Se on image plate.
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- C20.** Křivánková, L. - Očko, M. - Popelínský, L. - Boček, P.
Quest of separation conditions for CZE analyses based on an information system including similarity search.
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In: ITP 2002. The 13th International Symposium on Capillary Electroseparation Techniques. Program and Book of Abstracts. Helsinki, 2002, p. 42. (lecture)
- C21.** Kvasničková, L. - Štěrbová, H. - Ševčíková, P. - Glatz, Z. - Kahle, V. - Slanina, J.
Analysis of lignans in Schisandra extract, comparison between CEC and MEKC.
ITP 2002. The 13th International Symposium on Capillary Electroseparation Techniques. - Helsinki (FI), September 1-4, 2002.
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- C22.** Mikuška, P. - Večeřa, Z.
Simultaneous FIA determination of nitrite and nitrate in water using UV photolysis and chemiluminescent detection.
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Addendum 8.
(poster)

- C23.** Otevřel, M. - Klepárník, K.
Exaktní řešení Navier-Stokesovy rovnice popisující rychlostní profil elektrostatického toku ve válcové kapiláře.
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- C24.** Pavelka, S. - Babický, A. - Vobecký, M.
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- C26.** Pól, J. - Karásek, P. - Varad'ová-Ostrá, E. - Roth, M.
Limiting partition coefficients of substituted phenols in water-supercritical CO₂ system from dynamic co-current extraction without analysis of the CO₂-rich phase.
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- C29.** Psota, V. - Chmelík, J. - Bohačenko, I.
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[Influence of cultivars on distribution of starch granules.]
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- C30.** Roth, M.
Chromatographic measurements of second cross-virial coefficients revisited: CO₂ - *n*-C_mH_{2m+2} Systems (m = 21 - 40) from supercritical fluid chromatography.
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- C31.** Roth, M.
Krichevskii parameters of heavy n-alkanes in carbon dioxide: comparison of the results from solubility measurements and from supercritical fluid chromatography.
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- C32.** Slavíček, V. - Vespalec, R.
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- C34.** Smetková, V. - Dočekal, B. - Dočekalová, H.
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- C35.** Smetková, V. - Dočekalová, H. - Dočekal, B.
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Kapilární elektrochromatografie v lineárních a planárních mikrostrukturách s využitím polymerních náplní.
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Vývoj ultracitlivých analytických metod pro molekulární identifikaci a diagnostiku závažných chorob.
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Vliv distribuce velikosti škrobových zrn na technologickou kvalitu ječmene.
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Výzkum a vývoj metodiky a instrumentace přímé extrakce vodných roztoků nadkritickým oxidem uhličitým.
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Fyzika, chemie a informatika pro biologické, ekologické a lékařské aplikace.
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Síťové monitorování faktorů určujících výskyt ozónu a mikročástic.
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[Development of new processes for high reliable analytical control of technology, materials, food and environmental, and for medicine diagnostics using modern instrumentation.]
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AUTHOR INDEX

[* Authors being not members of the Institute]

*	Adam, T.	J1
*	Allmaier, G.	A4
	Babický, A.	A25, C24, C25
*	Báča, J.	A11, A27
*	Balík, K.	J19
*	Balík, J.	A1
*	Barták, P.	A35, C47, C48, C49, H1
	Bartáková, I.	C36
*	Beckers, J. L.	A2, A3, B1, H2
*	Bělohradský, M.	A11
	Boček, Petr	A2, A3, A14, A15, B1, B2, C1, C20, H2, H7, H14, J2, J3
*	Bohačenko, I.	A29, C29, J16
	Boušková, E.	C1
*	Bonnetot, B.	A10
	Broškovičová, A.	A32, C43
	Budinská, M.	A29, A30, C2
*	Cabálková, J.	C3
*	Caslavska, J.	H7
*	Casolari, S.	A30
*	Císařová, I.	A10, A11, A27
*	Claeys, M.	A39
*	Cornu, D.	A10
*	Cretich, M.	A5
	Čáslavský, J.	A7, A10, A11, A27, C19, J4, J5
*	Dastych jr., M.	A7
*	Dastych, M.	A7
	Dědina, J.	A6, A18, A19, A20, A31, C5, C6, C7, C38, C39, J6
*	Dobeš, J.	J19
	Dobšík, M.	H3
	Dočekal, B.	A8, A33, C8, C9, C10, C11, C34, C35
*	Dočekalová, H.	A33, C10, C11, C34, C35
*	Dozol, J. F.	A11
*	D'Ulivo, A.	A6, C5, C7
*	Fanali, S.	C1
*	Frank, L.	J19
*	Francová, H.	J13
	Foret, F.	A9, A23, A37, C12, F1, J7
*	Frech, W.	A18
*	Friedl, Z.	A36
*	Gabrovská, D.	C13, J10
*	Gaš, B.	J12
*	Glatz, Z.	C21, J12

	Gebauer, P.	A14, B1, B2, C1, H7
*	Gilár, M.	A23
*	Goliáš, J.	A1, H6
*	Grüner, B.	A10, A11, A27, H11
*	Hartmann, J.	A29
*	Havlas, Z.	J19
*	Havránek, V.	A34
*	Heřmánek, S.	A27
*	Holub, K.	A27
	Horká, M.	A12, A36, H4
*	Horký, M.	J13
*	Chiari, M.	A5
	Chmelík, J.	A4, A7, A26, A28, A29, A30, C2, C3, C4, C13, C29, C36, C37, C40, F2, J8, J9, J10, J16, J19
*	Chmelík jr., J.	F2
*	Chrambach, A.	A5
*	Jandera, P.	C41
*	Jänchenová, J.	A27
*	Jungwirth, K.	J19
*	Junková, G.	C14
	Kahle, V.	C15, C21, C52, H5, J11, J12
	Karásek, P.	A13, C26, C28, C42, G1, H6, H8
*	Karger, B. L.	A23, A37
*	Kesselová, M.	C50
	Klepárník, K.	A23, A24, C16, C23, J1, J13
	Korunová, V.	C6, C7, C17, C18
*	Kotlaříková, P.	C19
*	Kotlík, B.	A34
*	Kozák, L.	J1, J7
	Krumlová, A.	A30
	Křivánková, L.	A14, A15, C20, H7, H14, J23
*	Kubáň, V.	A4
*	Kučera, J.	A34
*	Kvasničková, L.	C21
*	Kyseláková, M.	A1
*	Lamare, V.	A11
*	Lampugnani, L.	A6
*	Lener, J.	A25, J15
*	Lhotský, A.	A27
*	Maenhaut, W.	A39
*	Makrlík, E.	A16, A17, A38
*	Malášková, L.	A7
*	Mancka, M.	C51
*	Mareček, V.	A27
*	Marek, M. V.	J19
	Marek, P.	A8
	Matoušek, T.	A6, A18, A19, A20
	Matulík, F.	A28

*	Mayrhofer, C.	A4
	Mikešová, M.	H6
	Mikuška, P.	A21, A22, C22, C43, H3, J14
*	Miller, A. W.	A23
*	Minarik, M.	A23
*	Moravcová, D.	C41
*	Němcová, A.	A1
	Nováčková, J.	A36
*	Očko, M.	A15, C20
*	Oliveira, J.	A39
	Otevřel, M.	A24, C23
	Pantůčková, P.	A14, H7
*	Pashkova, A.	A37
*	Pavelka, S.	A25, C24, C25, J15
	Planeta, J.	A13, A26, C41, C42, F2, H4, H6, H8
*	Plešek, J.	A11, A27
*	Plicka, J.	J10
	Plocková, J.	A28, C4
	Pól, J.	A13, C26, C27, C28, C42, C51
*	Popelínský, L.	A15, C20
*	Preisler, J.	A9
*	Presutti, C.	C1
*	Psota, V.	A29, C29, J16
*	Rais, J.	A27
*	Reschiglian, P.	A30
	Roth, M.	A13, C26, C28, C30, C31, C42, H6, H9, H10, J17, J18
*	Rubínová, B.	J10
*	Růžička, F.	H4
*	Rychlovský, P.	C14, C38, C39, J6
*	Rysová, J.	C13
	Řehulka, P.	A4, A26, C13, C36, C37, F2
*	Sadagoff, Y. M.	A31
	Selecká, A.	A19
*	Selucký, P.	A27
	Sklenská, J.	A32
*	Slanina, J.	C21
*	Slavíček, V.	C32, C33, H11
*	Smetková, V.	A33, C10, C11, C34, C35
*	Sosic, Z.	A23
*	Spěváčková, V.	H12
*	Stiborová, M.	C50
*	Střelcová, M.	A4
*	Suchý, J.	A33
	Sysalová, J.	A34, H12
	Šalplachta, J.	C13, C36, C37
*	Šedo, A.	A35
*	Ševčíková, P.	C21
	Šíma, Jan	C14, C38, C9

*	Šimánek, V.	A35, H1
	Šlais, K.	A12, A36, H4, H13
*	Šlotová, J.	J19
	Šťastná, M..	A5, H13
*	Šťastná, S.	J1
*	Štěrbová, H.	C21
*	Štikarovská, M.	C40
*	Šuderlová, L.	A1
*	Tan, A.	A37
*	Thormann, W.	H7
*	Tlaskalová, H.	J10
*	Ulbrich, K.	J19
*	Ulrichová, J.	A35, C50
*	Urban, J.	C41
*	Urbánek, M.	H14
*	Vaňura, P.	A16, A17, A38
	Varaďová Ostrá, E.	C26, C42, H6
	Vázlerová, M.	C15, H5
	Večeřa, Z.	A8, A21, A22, A32, C22, C43, H3, J20, J21, J22
	Vejrosta, J.	A1, A13, H6, H8
*	Vermeylen, R.	A39
	Vespalec, R.	A35, C32, C33, C44, C45, C46, C47, C48, C49, C50, H1, H11
*	Veverka, J.	A1
*	Vičar, J.	A35
*	Vlašicová, K.	A35
	Vlčková, M.	C47, C48, C49, H1
	Vobecký, M.	A16, A17, A20, A25, A38, C24, C25, J15
*	Vytřas, K.	J23
*	Walterová, D.	C50
*	Welsch, T.	C15, H5
*	Wenclawiak, B. W.	C27, C51
	Wičar, S.	A13
*	Wilnewski, S.	C51
*	Zang, L.	A37
*	Zattoni, A.	A30
	Zdráhal, Z.	A39
*	Zeisbergerová, M.	C52
	Žídková, Jitka	C36