

Advances in drug testing using capillary electrophoresis and native fluorescence

Bolkvadze, Vyacheslav; Saar-Reismaa, Piret; Kaljurand, Mihkel; Vaher, Merike; Gorbatošova, Jelena; Mazina-Šinkar, Jekaterina V4 Symposium Flow Analysis & Capillary Electrophoresis : abstracts 2021 / p. 64
https://v4face.project.uj.edu.pl/documents/144328876/0/Book_of_abstracts_FACE+2020.pdf/d09dca39-a279-47c4-90e3-72f05bcdf4a1

Aggregation of phosphate and 1-tetradecyl-3-methylimidazolium chloride background electrolytes during micellar electrokinetic chromatography

Kazarjan, Jana; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2015 / p. 1040–1042 : ill <https://doi.org/10.1002/elps.201400448>

Ameerika, Ameerika!

Kaljurand, Mihkel Mente et Manu 2003 / 4. veebr., lk. 3 ; 11. veebr., lk. 5 ; 18. veebr., lk. 3 ; 25. veebr., lk. 7 ; 1. apr., lk. 6 ; 15. apr., lk. 3 ; 25. apr., 28. mai, lk. 7 ; 11. juuni, 17. juuni, lk. 3 ; 20. okt., lk. 5 ; 19. nov., lk. 3 ; 19. dets., lk. 7
https://artiklid.elnet.ee/record=b1418099*est

Ameerika, Ameerika!

Kaljurand, Mihkel Mente et Manu 2004 / 27. jaan., lk. 3 https://artiklid.elnet.ee/record=b1418099*est

Analysis of chemical warfare agent degradation products using portable capillary electrophoresis instrument with various injection devices

Makarõševa, Natalja; Vaher, Merike; Kaljurand, Mihkel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 113 : ill

Analysis of cyclic sulfur mustard degradation products in water samples by HPLC and CE

Lees, Heidi; Avarlaid, Annela; Vaher, Merike; Kaljurand, Mihkel 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 75 : ill http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Analysis of metabolic organic acids for characterization of phosphate solubilizing fungi by capillary electrophoresis with indirect detection

Kudrjašova, Marina; Zaplotina, T.; Vilu, Raivo; Kaljurand, Mihkel 100 Years of Chromatography : 3rd International Symposium on Separations in BioSciences : SBS 2003, Moscow, Russia 2003 / p. P-149

Analysis of sulfur mustard hydrolysis and oxidation products in seawater and sediments by capillary electrophoresis

Lees, Heidi; Jõul, Piia; Vaher, Merike; Kuhtinskaja, Maria; Kaljurand, Mihkel Science for the Environment 2015 : Aarhus, Denmark, 1-2 October : [abstracts] 2015 / [1] p <http://dce-conference.au.dk/abstracts/>

Analysis of the degradation products of chemical warfare agents using a portable capillary electrophoresis instrument with various sample injection devices

Makarõševa, Natalja; Seiman, Andrus; Vaher, Merike; Kaljurand, Mihkel Procedia chemistry 2010 / p. 20-25 : ill
<https://www.sciencedirect.com/science/article/pii/S1876619609004021>

Analysis of the stable free radical scavenging capability of artificial polyphenol mixtures and plant extracts by capillary electrophoresis and liquid chromatography-diode array detection-tandem mass spectrometry

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Kaljurand, Mihkel Journal of chromatography A 2009 / p. 2417-2423 : ill

Analysis of thiodiglycol and its oxidation products in sediments by capillary electrophoresis

Lees, Heidi; Vaher, Merike; Kaljurand, Mihkel ITP2015/NoSSS2015 : final program and book of abstracts 2015 / p. P-55

Analyzing time varying flow composition using multiple input chromatography

Kaljurand, Mihkel; Koel, Mihkel Analytica chimica acta 1997 / p. 203-214: ill

Analytical chemistry

Leito, Ivo; Kaljurand, Mihkel Research in Estonia : present and future 2011 / p. 319-325 : ill

Analytical separations in harsh environments

Kaljurand, Mihkel Trends in environmental analytical chemistry 2014 / e2-e7 : ill

Anions detection limits reduction in polar ice core analysis using correlation ion chromatography with detector signal processing

Ivask, Jüri; Kaljurand, Mihkel 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 22

Application of 1-alkyl-3-methylimidazolium based ionic liquids in non-aqueous capillary electrophoresis

Vaher, Merike; Koel, Mihkel; Kaljurand, Mihkel 15th International Symposium on Microscale Separations and Analysis HPCE, April 13-18, 2002, Stockholm : abstracts 2002 / p. 127

Application of 1-alkyl-3-methylimidazolium-based ionic liquids in non-aqueous capillary electrophoresis

Vaher, Merike; Koel, Mihkel; Kaljurand, Mihkel *Journal of chromatography A* 2002 / p. 27-32 : ill

Application of factor analysis to thermochromatography and protonation studies

Kudrjašova, Marina 2000 http://www.ester.ee/record=b1233805*est

Application of polyether ether ketone capillary for electrophoretic separation of complicated biological samples

Komissarova, T.; Kulp, Maria; Kaljurand, Mihkel *Proceedings of the 22nd International Symposium on Microscale Bioseparations and Methods for Systems Biology* : March 9-13, 2008 : Berlin, Germany 2008 / ? p

Application of random and regular input in analytical separation methods : a critical insight

Kaljurand, Mihkel; Smit, H.C. *Chemometrics and intelligent laboratory systems* 2005 / p. 65-72 : ill

<https://www.sciencedirect.com/science/article/abs/pii/S016974390500064X>

Application of the ion chromatography for the speciation of the sample components in atom absorption spectroscopy

Kaljurand, Mihkel; Viitak, Anu; Treumann, Maili; Hödrejärv, Helvi *Chimia* 1998 / 7/8, p. 343

Application of the ion chromatography for the speciation of the sample components in atom absorption spectroscopy

Kaljurand, Mihkel; Viitak, Anu; Treumann, Maili; Jakovleva, Irina; Hödrejärv, Helvi *23rd Estonian Chemistry Days : abstracts of scientific conference* 1997 / p. 46

Application of the principles of green chemistry in analytical chemistry

Koel, Mihkel; Kaljurand, Mihkel *Pure and applied chemistry* 2006 / 11, p. 1993-2002

Authentication of medicinal cannabis by electrophoretic fingerprints

Mazina, Jekaterina; Saar-Reismaa, Piret; Kuhtinskaja, Maria; Kaljurand, Mihkel; Kulp, Maria; Vaher, Merike *40th International Symposium on Capillary Chromatography and 13th GC×GC Symposium* : May 29 - June 03, 2016, Riva del Garda Fierecongressi, Riva del Garda, Italy : abstract book 2016 / p. 475

Automaatne proovi sisestamine kapillaarelektroforeesis

Kaljurand, Mihkel; Sõmer, T.; Ebber, Arkadi XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 34-36: ill

Automaatse proovi sisestusega ja tuumakondensatsiooni valgushajumise detektoriga kapillaarelektroforees

Ebber, Arkadi; Kaljurand, Mihkel; Magnusson, L.; Koropchak, J. XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 22-23 : ill

Automatic on-line sample introduction for capillary electrophoresis connected via electrospray with condensation nucleation light scattering detection

Ebber, Arkadi; Kaljurand, Mihkel *Proceedings of the Estonian Academy of Sciences. Chemistry* 2002 / 4, p. 187-199 : ill

An automatic sampling device for capillary zone electrophoresis

Kaljurand, Mihkel; Ebber, Arkadi; Sõmer, T. *HRC : Journal of high resolution chromatography* 1995 / April, p. 263-265

Automatic spot preparation and image processing of paper microzone-based assays for analysis of bioactive compounds in plant extracts

Vaher, Merike; Borissova, Maria; Seiman, Andrus; Aid, Tiina; Kolde, Helen; Kazarjan, Jana; Kaljurand, Mihkel *Food chemistry* 2014 / p. 465-471 : ill <https://doi.org/10.1016/j.foodchem.2013.08.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Automation of the chromatographic experiment using labview graphical programming system

Kudrjašova, Marina; Phillips, John B.; Kaljurand, Mihkel *24th Estonian Chemistry Days : abstracts of scientific conference* 1998 / p. 34

Autosampler for portable capillary electrophoresis

Ružicka, Martin; Kaljurand, Mihkel; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina *Journal of chromatography A* 2022 / art. 463619 <https://doi.org/10.1016/j.chroma.2022.463619> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Benign design in analytical chemistry

Kaljurand, Mihkel; Koel, Mihkel *Critical reviews in analytical chemistry* 2012 / p. 192-195

<https://www.tandfonline.com/doi/pdf/10.1080/10408347.2011.645378>

Bioactive components of the hop strobilus : comparison of different extraction methods by capillary electrophoretic and chromatographic methods

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Kamsol, Kristjan; Orav, Anne; Kaljurand, Mihkel *Journal of chromatography A* 2007 /

p. 222-229 : ill

https://www.academia.edu/60646251/Bioactive_components_of_the_hop_strobilus_Comparison_of_different_extraction_methods_by_capillary_electrophoretic_and_chromatographic_methods

Bioaktiivsete ühendite lahutamise ja antioksidatiivsuse hindamine maavitsaliste perekonda Solanaceae kuuluvatel taimedel

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; **Kaljurand, Mihkel** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 36-37

Biolagunevate jäätmete fermentatsioon taastuvate energiaallikate saamiseks

Menert, Anne; Michelis, Merje; Rikmann, Ergo; **Blonskaja, Viktoria; Kaljurand, Mihkel**; Kallaste, Tiit TEUK XII : taastuvate energiaallikate uurimine ja kasutamine : kaheteistkümnenda konverentsi kogumik 2010 / lk. 49-59 : ill

Bioprotsesside kapillaarelektroforeetiline jälgimine

Helmja, Kati; Tahkoniemi, Heli; **Kaljurand, Mihkel** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 15-16

B-rühma vitamiinide analüüs reaalsetes proovides kapillaarelektroforeesi meetodil

Mazina, Jekaterina; Knjazeva, Tatjana; Gorbatošova, Jelena; Hälvin, Kristel; Kaljurand, Mihkel XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 55

Capacitance-to-digital: A single chip detector for capillary electrophoresis

Drevinskas, Tomas; **Kaljurand, Mihkel**; Maruška, Audrius Electrophoresis 2014 / p. 2401-2407 : ill

<https://doi.org/10.1002/elps.201300468> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Capillary electrophoresis

Kaljurand, Mihkel Handbook of green analytical chemistry 2012 / p. 153-173 : ill

Capillary electrophoresis – a new tool for ionic analysis of exhaled breath condensate

Kuban, Petr; Kobrin, Eeva-Gerda; Kaljurand, Mihkel Journal of chromatography A 2012 / p. 239-245 : ill

https://www.researchgate.net/publication/229158497_Capillary_Electrophoresis_-_A_New_Tool_for_Ionic_Analysis_of_Exhaled_Breath_Condensate

Capillary electrophoresis as a monitoring tool for flow composition determination

Kaljurand, Mihkel; Saar-Reismaa, Piret; Vaher, Merike; Gorbatošova, Jelena; Mazina-Šinkar, Jekaterina Molecules 2021 / art.

4918, 12 p. : ill <https://doi.org/10.3390/molecules26164918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Capillary electrophoresis frontal analysis for the study of flavonoid interactions with human serum albumin

Knjazeva, Tatjana; Kaljurand, Mihkel Analytical and bioanalytical chemistry 2010 / 6, p. 2211-2219

Capillary electrophoresis frontal analysis for the study of flavonoid noncovalent interactions with human serum albumin

Knjazeva, Tatjana; Kobrin, Eeva-Gerda; Kaljurand, Mihkel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 104

Capillary electrophoresis in contemporary analytical chemistry

Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 1, p. 3-5

Capillary electrophoresis in meat species characterisation

Sipp, Sirlil; Kaljurand, Mihkel Balaton Symposium'99 on High-Performance Separation Methods : September 1-3, 1999, Siófok, Hungary : book of abstracts 1999 / p. P-78

Capillary electrophoresis sensitivity enhancement based on adaptive moving average method

Drevinskas, Tomas; Telksnys, Laimutis; Maruška, Audrius; **Gorbatošova, Jelena; Kaljurand, Mihkel** Analytical chemistry 2018 / p.

6773–6780 : ill <https://doi.org/10.1021/acs.analchem.8b00664> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Capillary electrophoresis time-of-flight mass spectrometry for comparative metabolomics of transgenic versus conventional maize

Levandi, Tuuli; Leon, Carlos; **Kaljurand, Mihkel**; Garcia-Ganas, Virginia; Cifuentes, Alejandro Analytical chemistry 2008 / 16, p. 6329-6335 : ill

Capillary electrophoresis versus HPLC analysis method used for analyzing sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass

Hyväräinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; **Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel** Book of abstracts : COST Action

Capillary electrophoresis with led-induced native fluorescence detection for determination of isoquinoline alkaloids and their cytotoxicity in extracts of Chelidonium majus L.

Kulp, Maria; Bragina, Olga; Kogerman, Priit; Kaljurand, Mihkel Journal of chromatography A 2011 / p. 5298-5304 : ill

Capillary electrophoretic analysis of humic substances from natural waters using ethlen glycol modifical background electrolyte

Lepane, Viia; Ebber, Arkadi; Kaljurand, Mihkel 23rd International Symposium on Chromatography : book of abstracts 2000 / p. 67

Capillary electrophoretic analysis of neutral carbohydrates using ionic liquids as background electrolytes

Vaher, Merike; Koel, Mihkel; Kazarjan, Jana; Kaljurand, Mihkel Electrophoresis 2011 / 9, p. 1068-1073 : ill

Capillary electrophoretic monitoring of biochemical reaction kinetics = Biokeemiliste reaktsioonide kineetika kapillaarelektroforeetilise seire

Kulp, Maria 2006 <https://digi.lib.tu.ee/i/?98> https://www.ester.ee/record=b2144683*est

Capillary electrophoretic monitoring of hydrothermal pre-treatment and enzymatic hydrolysis of willow : comparison with HPLC and NMR

Vaher, Merike; Helmja, Kati; Käsper, Andres; Kurašin, Mihhail; Väljamäe, Priit; Kudrjašova, Marina; Koel, Mihkel; Kaljurand, Mihkel Catalysis today 2012 / p. 34-41 : ill

Capillary electrophoretic monitoring of microbial growth : determination of organic acids

Kudrjašova, Marina; Tahkoniemi, Heli; Helmja, Kati; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / p. 51-64 : ill

Capillary zone electrophoresis on chemically bonded imidazolium based salts

Borissova, Maria; Vaher, Merike; Koel, Mihkel; Kaljurand, Mihkel Journal of chromatography A 2007 / p. 320-325 : ill

CE separation of various analytes of biological origin using polyether ether ketone capillaries and contactless conductivity detection

Knjazeva, Tatjana; Kulp, Maria; Kaljurand, Mihkel Electrophoresis 2009 / p. 424-430 https://www.researchgate.net/profile/Mihkel-Kaljurand/publication/23995365_CE_separation_of_various_analytes_of_biological_origin_using_polyether_ether_ketone_capillaries_and_contactless_conductivity_detection/links/5e50f603299bf1cdb93cf3a5/CE-separation-of-various-analytes-of-biological-origin-using-polyether-ether-ketone-capillaries-and-contactless-conductivity-detection.pdf

Characterization of aquatic humic substances by size exclusion chromatography and capillary electrophoresis

Lepane, Viia 2001 http://www.ester.ee/record=b1569755*est

Characterization of bioactive compounds contained in vegetables of the Solnaceae family by capillary electrophoresis

Helmja, Kati; Vaher, Merike; Gorbatšova, Jelena; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 4, p. 172-186 : ill

Characterization of capillary electropherogram profiles of meat extracts by entropy

Sipp, Sirli; Koel, Mihkel; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2000 / 4, p. 207-215 : ill

Characterization of phenolic profiles of Northern European berries by capillary electrophoresis and determination of their antioxidant activity

Ehala, Sille; Vaher, Merike; Kaljurand, Mihkel Journal of agricultural and food chemistry 2005 / p. 6484-6490 : ill

Characterization of the antioxidative activity of novel nontoxic neuropeptides by using capillary electrophoresis

Vaher, Merike; Viirlaid, Säde; Ehrlich, Kersti; Mahlapuu, Riina; Jarvet, Jüri; Soomets, Ursel; Kaljurand, Mihkel Electrophoresis 2006 / 13, p. 2582-2589 : ill

Characterization of the yew tree (Taxus) subspecies by fingerprints and principal components analysis

Vaher, Merike; Borissova, Maria; Truus, Kalle; Tuvikene, Rando; Robal, Marju; Kaljurand, Mihkel IUPAC International Congress on Analytical Sciences 2011 : 22-26 May 2011, Kyoto, Japan 2011 / p. 23P059

Characterization of yew tree (Taxus) varieties by fingerprint and principal component analyses

Truus, Kalle; Vaher, Merike; Borissova, Maria; Robal, Marju; Levandi, Tuuli; Tuvikene, Rando; Toomik, Peeter; Kaljurand, Mihkel Natural product communications 2012 / p. 1143-1146 : ill <https://pubmed.ncbi.nlm.nih.gov/23074891/>

Characterization of yew tree (Taxus) varieties by fingerprint and principal component analyses

Truus, Kalle; Vaher, Merike; Borissova, Maria; Robal, Marju; Levandi, Tuuli; Tuvikene, Rando; Toomik, Peeter; Kaljurand, Mihkel Natural product communications 2012 / p. 1143-1146 <https://pubmed.ncbi.nlm.nih.gov/23074891/>

Chemical analysis of dumped chemical warfare agents during the MODUM project

Söderström, Martin; Östin, Anders; **Vaher, Merike; Jõul, Piia; Lees, Heidi; Kaljurand, Mihkel** Towards the monitoring of dumped munitions threat (MODUM) : a study of chemical munitions dumpsites in the Baltic Sea 2018 / p. 71-103 https://doi.org/10.1007/978-94-024-1153-9_4 [Article collections at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Chemical composition of red wines made from hybrid grape and common grape (*Vitis vinifera* L.) cultivars

Pedastsaar, Priit; **Vaher, Merike; Helmja, Kati; Kulp, Maria; Kaljurand, Mihkel;** Karp, Kadri; Raal, Ain; Karathanos, Vaios; Püssa, Tõnu Proceedings of the Estonian Academy of Sciences 2014 / p. 444-453 : ill https://artiklid.elnet.ee/record=b2707387*est <https://doi.org/10.3176/proc.2014.4.10> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chemometrics on thermochromatography of inorganic salts : decomposition of thermochromatograms to chromatograms and thermograms using EFA and peak shape constrains

Elomaa, M.; **Kaljurand, Mihkel;** Koel, Mihkel; **Kudrjašova, Marina** Thermochimica acta 1999 / p. 73-83

Classification of polymeric materials by evolving factor analysis and PCA of thermochromatograms

Elomaa, M.; Lochmüller, Charles H.; **Kudrjašova, Marina; Kaljurand, Mihkel** Thermochimica acta 2000 / 1/2, p. 137-144

Colorimetric determination of total phenolic contents in ionic liquid extracts by paper microzones and digital camera

Aid, Tiina; Kaljurand, Mihkel; Vaher, Merike Analytical methods 2015 / p. 3193-3199 : ill <http://dx.doi.org/10.1039/c5ay00194c>

Comparative fingerprint of medicinal herb polyphenols and chemometric analysis

Mazina, Jekaterina; Vaher, Merike; Borissova, Maria; Kaljurand, Mihkel 29th International Symposium on Chromatography : Torun, September 9-13, 2012 : abstract book 2012 / p. 184

Comparative study of cereal varieties by analytical separation methods and chemometrics = Teraviljasortide võrdlev uurimus analüütiliste lahutusmeetodite ja kemomeetria abil

Levandi, Tuuli 2013 <https://digi.lib.ttu.ee/i/?899> https://www.ester.ee/record=b2948245*est

Comparison of eluents for lead and cadmium fractionation in waters by non-suppressed ion chromatography with UV and GFAAS detection

Lepane, Viia; Viitak, Anu; Treumann, Maili; Kaljurand, Mihkel Balaton Symposium'99 on High-Performance Separation Methods : September 1-3, 1999, Siófok, Hungary : book of abstracts 1999 / p. P-152

Comparison of humic acid and metal salt interactions in capillary electrophoresis

Übner, Monika; Kaljurand, Mihkel; Lopp, Margus From Molecular Understanding to Innovative Applications of Humic Substances : proceedings of the 14th International Meeting of the International Humic Substances Society : September 14-19, 2008, Moscow-Saint Petersburg, Russia. Volume 1 2008 / p. 133-136 : ill

Comparison of stability of glutathione and related synthetic tetrapeptides by HPLC and capillary electrophoresis

Mahlapuu, Riina; Vaher, Merike; Ehrlich, Kersti; **Kaljurand, Mihkel;** Soomets, Ursel Journal of peptide science 2006 / 12, p. 796-799 : ill

Comparison of the contents of various antioxidants of sea buckthorn berries using CE

Gorbatšova, Jelena; Lõugas, Tiina; Vokk, Raivo; Kaljurand, Mihkel Electrophoresis 2007 / p. 4136-4142 : ill

Compensation of the baseline temperature fluctuations for autonomous CE–C4D instrument working in harsh environments

Drevinskas, Tomas; Telksnys, Laimutis; Maruška, Audrius; **Gorbatšova, Jelena; Kaljurand, Mihkel** Electrophoresis 2018 / p. 2877–2883 : ill <https://doi.org/10.1002/elps.201800132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Complete capillary electrophoresis process on a drone : towards a flying micro-lab

Drevinskas, Tomas; Maruška, Audrius; Girdauskas, Valdas; Dūda, Gediminas; **Gorbatsova, Jelena; Kaljurand, Mihkel** Analytical Methods 2020 / p. 4977 - 4986 <https://doi.org/10.1039/d0ay01220c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Complex study of bioactive compounds in eggplant (*Solanum melongena*)

Helmja, Kati; Gorbatšova, Jelena; Vaher, Merike; Püssa, Tõnu; **Kaljurand, Mihkel** 4th Nordic Separation Science Society (NoSSS) International Conference : Kaunas, August 26-29, 2007 : abstracts book 2007 / p. 77

Comprehensive investigation of St.John's Worth (*Hypericum perforatum*) : polyphenolic compounds, essential oils and metals

Helmja, Kati; Vaher, Merike; Orav, Anne; Viitak, Anu; Püssa, Tõnu; **Kaljurand, Mihkel** 14th International Symposium on Separation Science : Primosten, Croatia, 30 Sept. - 3 Oct. 2008 2008 / p. 59

Computerized chromatographic monitoring of rapid thermooxidation reactions

Kaljurand, Mihkel; Ebber, Arkadi Proceedings of the Estonian Academy of Sciences. Chemistry 1996 / 1/2, p. 1-8: ill

A computerized flow injection analysis manifold for interference determination in flame atomic absorption spectrometry

Lahne, Riina; Viitak, Anu; Hödrejärvi, Helvi; Treumann, Maili; Friedenthal, Margus; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2002 / p. 29-37 : ill

Computerized multiple-input chromatographic analysis of time-varying substance flows

Koel, Mihkel; Kaljurand, Mihkel Critical reviews in analytical chemistry 1996 / Issues 2AMP3, p. 149-194: ill

Computerized sampling in ion chromatography and in capillary electrophoresis

Kuldvee, Ruth 1999 http://www.ester.ee/record=b1273072*est

Correlation and digital signal processing techniques for the reduction of detection limits of bromate and bromide in model water samples by ion chromatography with direct ultraviolet detection

Kuldvee, Ruth; Kaljurand, Mihkel; Smit, Henri C. Journal of chromatography A 1997 / p. 247-257: ill

Coupling HPLC to CE via pneumosampler

Ehala, Sille; Kaljurand, Mihkel 15th International Symposium on Microscale Separations and Analysis HPCE, April 13-18, 2002, Stockholm : abstracts 2002 / p. 98

Dark fermentation of biomass and organic waste for production of renewables

Vaalu, Tarmo; Michelis, Merje; Mets, Aita; Lepane, Viia; Kaljurand, Mihkel; Suurväli, Jaanus; Menert, Anne 12th Nordic-Baltic IHSS Symposium on Natural Organic Matter in Environment and Technology : Tallinn, Estonia, June 14-17, 2009 : program and abstracts 2009 / p. 43

Design and applications of miniaturized, portable LED based colorimeter

Drevinskas, Tomas; Maruška, Audrius; Gladkauskas, Eimantas; Telksnys, Laimutis; Girdauskas, Valdas; Gorbatsova, Jelena; Kaljurand, Mihkel; Ragažinskienė, Ona Chemija 2018 / p. 209 - 218 <https://doi.org/10.6001/chemija.v29i4.3836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Detection of banned chemicals in various matrices (saliva, sediments) by capillary electrophoresis

Kaljurand, Mihkel; Mazina, Jekaterina; Saar-Reismaa, Piret; Jõul, Piia; Lees, Heidi; Špiljova, Anastassija; Kulp, Maria; Vaher, Merike ITP2015/NoSSS2015 : final program and book of abstracts 2015 / p. L-36

Detection of banned chemicals in various matrices (saliva, sediments) by capillary electrophoresis

Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina; Saar-Reismaa, Piret; Jõul, Piia; Lees, Heidi; Tretjakova, Anastassija; Kulp, Maria; Vaher, Merike 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 38 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Detection of psycho- and bioactive drugs in different sample matrices by fluorescence spectroscopy and capillary electrophoresis = Psühho- ja bioaktiivsete ainete tuvastamine erinevates proovimatriksites kasutades fluorentsspektroskoopia ja kapillaarelektroforeesi meetodeid

Mazina, Jekaterina 2016 https://www.ester.ee/record=b4536419*est

Determination of carbohydrates in cellulose and enzymatically pretreated wood fractions using capillary electrophoresis

Vaher, Merike; Helmja, Kati; Käsper, Andres; Kudrjašova, Marina; Gorbatsova, Jelena; Kaljurand, Mihkel Program and abstract book : Nordic Separation Science Society 6th Conference : Riga, Latvia, August 24th-27th, 2011 2011 / p. 98

Determination of five priority haloacetic acids by capillary electrophoresis with contactless conductivity detection and solid phase extraction preconcentration

Kuban, Petr; Makarõtševa, Natalja; Kiplagat, Isaac; **Kaljurand, Mihkel** Journal of separation science 2012 / p. 666-673 : ill https://www.researchgate.net/publication/221932273_Determination_of_five_priority_haloacetic_acids_by_capillary_electrophoresis_with_contactless_conductivity_detection_and_solid_phase_extraction_preconcentration

Determination of GHB and marijuana (THC, CBD) abuse in saliva by capillary electrophoresis

Mazina, Jekaterina; Saar-Reismaa, Piret; Špiljova, Anastassija; Kaljurand, Mihkel; Kulp, Maria; Vaher, Merike ITP2015/NoSSS2015 : final program and book of abstracts 2015 / p. YS-4

Determination of metal content in superoxide dismutase enzymes by capillary electrophoresis

Kazarjan, Jana; Vaher, Merike; Hunter, Therese; **Kulp, Maria;** Hunter, Gary James; Bonetta, Rosalin; Farrugia, Diane; **Kaljurand, Mihkel** Journal of separation science 2015 / p. 1042-1045 : ill <http://dx.doi.org/10.1002/jssc.201400925>

Determination of phenolic compounds and their antioxidative capability in plant extracts = Meetodid fenoolsete ühendite määramiseks ja nende antioksidatiivsuse hindamiseks

Helmja, Kati 2010 https://www.ester.ee/record=b2561129*est

Determination of post-blast explosive residues in various matrices using portable capillary electropherograph with contactless conductivity detection

Kobrin, Eeva-Gerda; Kuban, Petr; Kaljurand, Mihkel TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Determination of the content and profile of phenolic compounds related to the antioxidant activity for a variety of North Europe berries by capillary electrophoresis

Ehala, Sille; Vaher, Merike; Kaljurand, Mihkel 29th International Symposium on High Performance liquid Phase Separations and Related Techniques 2005 / p. 686

Determination of γ -hydroxybutyric acid in saliva by capillary electrophoresis coupled with contactless conductivity and indirect UV absorbance detectors

Mazina, Jekaterina; Saar-Reismaa, Piret; Kulp, Maria; Kaljurand, Mihkel; Vaher, Merike Electrophoresis 2015 / p. 3042-3049 : ill <http://dx.doi.org/10.1002/elps.201500293>

Development and application of various on- and off-line analytical methods for the analysis of bioactive compounds = Mitmemõõtmeliste analüüsimeetodite väljatöötamine ja rakendamine bioaktiivsete ühendite analüüsil

Ehala, Sille 2006 <https://digi.lib.ttu.ee/i/?102> https://www.ester.ee/record=b2148215*est

Development and comparison of HPLC and MEKC methods for the analysis of cyclic sulfur mustard degradation products

Lees, Heidi; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2017 / p. 1075-1082 : ill <https://doi.org/10.1002/elps.201600418>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of a capillary electrophoresis method with direct UV detection for the analysis of thiodiglycol and its oxidation products

Jõul, Piia; Lees, Heidi; Vaher, Merike; Kobrin, Eeva-Gerda; Kaljurand, Mihkel; Kuhtinskaja, Maria Electrophoresis 2015 / p. 1202-1207 : ill <http://dx.doi.org/10.1002/elps.201500038>

Development of an analysis method for the determination of sulfur mustard hydrolysis and oxidation products in seawater by a portable capillary electrophoresis instrument

Jõul, Piia; Kuhtinskaja, Maria; Kaljurand, Mihkel ITP2015/NoSSS2015 : final program and book of abstracts 2015 / p. P-53

Development of analysis methods to detect the use of explosives and chemical warfare agents = Analüüsimeetodikate arendamine keemiarelva- ja lõhkeainete kasutamise tuvastamiseks

Lees, Heidi 2018 <https://digi.lib.ttu.ee/i/?10379> https://www.ester.ee/record=b5148514*est

Development of HPLC and MEKC methods for the analysis of sulfur mustard cyclic degradation products

Lees, Heidi; Kaljurand, Mihkel; Vaher, Merike 40th International Symposium on Capillary Chromatography and 13th GC×GC Symposium : May 29 - June 03, 2016, Riva del Garda Fierecongressi, Riva del Garda, Italy : abstract book 2016 / p. 255

Development of methods for the CE analysis of plant phenolic compounds and vitamins = Kapillaarelektroforeesil põhinevate meetodite väljatöötamine taimsete fenoolsete ühendite ja vitamiinide analüüsiks

Gorbatšova, Jelena 2011 <https://digi.lib.ttu.ee/i/?640>

Development of point of care applications for capillary electrophoresis = Sündmuskohal läbiviidavate kapillaarelektroforeetiliste ekspressanalüüside arendamine

Kobrin, Eeva-Gerda 2016 https://www.ester.ee/record=b4640579*est

Development of sensitive fluorescence detector for determination of cannabis abuse in saliva by capillary electrophoresis

Mazina, Jekaterina; Tretjakova, Anastassia; Saar-Reismaa, Piret; Gorbatšova, Jelena; Kulp, Maria; Vaher, Merike; Erme, Enn; Kaljurand, Mihkel 18th International Symposium on Advanced in Extraction Technologies (ExTech'2016) & the 22nd International Symposium on Separation Science (ISSS'2016), July 3-6, 2016, Torun, Poland : abstract book 2016 / p. 176-177

Developments in the application of Green Chemistry principles to food analysis : capillary electrophoresis for the analysis of ingredients in food products

Koel, Mihkel; Borissova, Maria; Vaher, Merike; Kaljurand, Mihkel AgroFOOD industry hi-tech 2011 / 5, p. 27-29 : ill

Digital microfluidic sampler for a portable capillary electropherograph

Gorbatšova, Jelena; Jaanus, Martin; Kaljurand, Mihkel Analytical chemistry 2009 / p. 8590-8595 : ill

Digital microfluidic sampler for capillary electrophoresis

Gorbatšova, Jelena; Jaanus, Martin; Kuuskmäe, Edur; Kaljurand, Mihkel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 66 : ill

Digital microfluidics platform for interfacing solid-liquid extraction column with portable capillary electropherograph for analysis of soil amino acids

Gorbatšova, Jelena; Jaanus, Martin; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2016 / p. 472-475 : ill

<https://doi.org/10.1002/elps.201500284> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dimerisation of glutathione analogues in the presence of cellular redox cycle enzymes

Mahlapuu, Riina; **Vaher, Merike**; Ida, Katrin; Viirlaid, Säde; **Kaljurand, Mihkel**; Soomets, Ursel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 112

Direct determination of glyphosate in environmental waters using capillary electrophoresis with electrospray condensation nucleation light scattering detection

You, Jing; **Kaljurand, Mihkel**; Koropchak, John A. International journal of environmental analytical chemistry 2003 / 9, p. 797-806 : ill

Editorial overview : a closer look on green developments in analytical chemistry: green analytical chemistry is going mainstream

Koel, Mihkel; Kaljurand, Mihkel Current Opinion in Green and Sustainable Chemistry 2021 / Art. 100541

<https://doi.org/10.1016/j.cogsc.2021.100541> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ekspressmeetod interferentide mõju uurimiseks AAS-is

Lahne, Riina; Kaljurand, Mihkel; Viitak, Anu XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 67

Electrophoretic aggregation of humic acid

Übner, Monika; Lepane, Viia; Lopp, Margus; Kaljurand, Mihkel Journal of chromatography A 2004 / p. 253-258 : ill

Electrowetting on dielectric actuation of droplets with capillary electrophoretic zones for MALDI mass spectrometric analysis

Gorbatšova, Jelena; Borissova, Maria; Kaljurand, Mihkel Electrophoresis 2012 / p. 2682-2688 : ill

<https://pubmed.ncbi.nlm.nih.gov/22965712/>

Electrowetting-on-dielectric actuation of droplets with capillary electrophoretic zones for off-line mass spectrometric analysis

Gorbatšova, Jelena; Borissova, Maria; Kaljurand, Mihkel Journal of chromatography A 2012 / p. 9-15 : ill

<https://pubmed.ncbi.nlm.nih.gov/22965712/>

Elektromigratsioonilised meetodid bioprotsesside analüüsis : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile

Kaljurand, Mihkel; Koel, Mihkel; Vaher, Merike Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 267-274 : ill

Esinduslik lahutusmeetodite konverents Tallinnas

Kaljurand, Mihkel Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 271-272 https://www.ester.ee/record=b1212786*est

Evaluation of antioxidative capability of the tomato (*Solanum lycopersicum*) skin constituents by capillary electrophoresis and high-performed liquid chromatography

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Raudsepp, Piret; **Kaljurand, Mihkel** Electrophoresis 2008 / p. 3980-3988 : ill

<https://pubmed.ncbi.nlm.nih.gov/18958890/>

Evaluation of different operating modes of an autosampler for portable capillary electrophoresis

Kaljurand, Mihkel; Ruzicka, Martin; Gorbatsova, Jelena; Mazina-Šinkar, Jekaterina Journal of Chromatography A 2023 / art. 464201 <https://doi.org/10.1016/j.chroma.2023.464201> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of the free radical scavenging capability of wheat extracts by capillary electrophoresis and multivariate curve resolution

Helmja, Kati; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2011 / 9, p. 1094-1100 : ill

Evolved gas analysis of inorganic materials using thermochromatography : model inorganic salts and palagonite Martian soil simulants

Koel, Mihkel; Kaljurand, Mihkel; Lochmüller, Charles H. Analytical chemistry 1997 / 22, p. 4586-4591

Fenoolsete ühendite sisaldus ja antioksidatiivsus erinevates nesusortides ja nisutera fraktsioonides

Matso, Kersti; Vaher, Merike; Helmja, Kati; Levandi, Tuuli; Kaljurand, Mihkel XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 56

Fermentation reactor coupled with capillary electrophoresis for on-line bioprocess monitoring

Tahkonieni, Heli Anneli; Helmja, Kati; Menert, Anne; Kaljurand, Mihkel Journal of pharmaceutical and biomedical analysis 2006 / 5, p. 1585-1591 : ill

Fingerprinting postblast explosive residues by portable capillary electrophoresis with contactless conductivity detection

Kobrin, Eeva-Gerda; Lees, Heidi; Fomitšenko, Maria; Kuban, Petr; Kaljurand, Mihkel Electrophoresis 2014 / p. 1165-1172 : ill
<https://doi.org/10.1002/elps.201300380> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Flow sampling in capillary electrophoresis

Kaljurand, Mihkel; Kuldvee, Ruth; Vunder, Kadri Journal of capillary electrophoresis and microchip technology 1999 / Issues 1AMP2, p. 7-11 : ill

Flow sampling in capillary electrophoresis with a pneumatically driven computerized sampler

Ebber, Arkadi; Ehala, Sille; Kudrjašova, Marina; Kulp, Maria; Vaher, Merike; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 1, p. 6-20 : ill https://kirj.ee/wp-content/plugins/kirj/pub/chem-1-2004-6-20_20211021085440.pdf

Flow sampling in CE

Kuldvee, Ruth; Kaljurand, Mihkel 23rd International Symposium on High Performance Liquid Phase Separations and Related Techniques HPLC'99 : May 30-June 4, 1999, Granada, Spain : book of abstracts. Volume I 1999 / p. PA7/35

Fluorescence, electrophoretic and chromatographic fingerprints of herbal medicines and their comparative chemometric analysis

Mazina, Jekaterina; Vaher, Merike; Kuhtinskaja, Maria; Porõvkina, Larisa; Kaljurand, Mihkel Talanta 2015 / p. 233-246 : ill
<https://doi.org/10.1016/j.talanta.2015.02.050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Foreword

Kaljurand, Mihkel Procedia chemistry 2010 / p. 1

Fraction collection in capillary electrophoresis for various stand-alone mass spectrometers

Helmja, Kati; Borissova, Maria; Knjazeva, Tatjana; Jaanus, Martin; Muinasmaa, Urmas; Kaljurand, Mihkel; Vaher, Merike Journal of chromatography A 2009 / p. 3666-3673 : ill

A gas chromatograph for citizen science

Kaljurand, Mihkel; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina Microchemical journal 2021 / art. 106195, 6 p. : ill
<https://doi.org/10.1016/j.microc.2021.106195> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Green analytical chemistry

Koel, Mihkel; Kaljurand, Mihkel 2010 https://www.ester.ee/record=b2634131*est

Green analytical chemistry : setting a strategic direction

Kaljurand, Mihkel; Vaher, Merike; Koel, Mihkel SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 61

Green analytical separation methods

Kaljurand, Mihkel; Koel, Mihkel Challenges in green analytical chemistry 2011 / p. 168-198 : ill
<https://doi.org/10.1039/9781849732963-00168>

Green bioanalytical chemistry

Kaljurand, Mihkel; Koel, Mihkel Bioanalysis 2012 / p. 1271-1274

Hariduse väärtustamisest Eesti Vabariigis : [ettekanne Kuressaare Kolledžis TTÜ 85. aastapäeva tähistaval konverentsil 12. septembril 2003]

Kaljurand, Mihkel 85 aastat Tallinna Tehnikaülikooli 2004 / lk. 21-23

Hariduse väärtustamisest Eesti Vabariigis : [ettekanne TTÜ 85.aastapäevale pühendatud TTÜ Kuressaare Kolledži pidulikul koosolekul 12.sept. 2003]

Kaljurand, Mihkel Tallinna Tehnikaülikooli aastaraamat 2003 2004 / lk. 284-287

Head column field amplified sample stacking (HC-FASS) from the stream in CE using a computerized pneumatic sampling device. An alternative for decreasing the detection limits in CE

Kuldvee, Ruth; Kuban, Petr; Vunder, Kadri; Kaljurand, Mihkel Balaton Symposium'99 on High-Performance Separation Methods

: September 1-3, 1999, Siófok, Hungary : book of abstracts 1999 / p. P-149

Head column field-amplified stacking from the flow : stabilization of the sample plug position by using backpressure

Kuldvee, Ruth; Kuban, Petr; Vunder, Kadri; Kaljurand, Mihkel Electrophoresis 2000 / 14, p. 2879-2885 : ill

<https://pubmed.ncbi.nlm.nih.gov/11001298/>

Heteroconjugation-based capillary electrophoretic separation of phenolic compounds in acetonitrile and propylene carbonate

Kuldvee, Ruth; Vaher, Merike; Koel, Mihkel; Kaljurand, Mihkel Electrophoresis 2003 / p. 1627-1634 : ill

https://www.researchgate.net/publication/10747352_Heteroconjugation-Based_Capillary_Electrophoretic_Separation_of_Phenolic_Compounds_in_Acetonitrile_and_Propylene_Carbonate

Humic substances as a background electrolyte in capillary electrophoresis

Übner, Monika; Kaljurand, Mihkel; Lopp, Margus Chemistry and ecology 2010 / Suppl., p. 157-165 : ill

Improvement of signal-to noise ratio of electropherograms and analysis reproducibility with digital signal processing and multiple injections

Kuldvee, Ruth; Kaljurand, Mihkel; Smit, H.C. HRC : Journal of high resolution chromatography 1998 / p. 169-174: ill

[https://doi.org/10.1002/\(SICI\)1521-4168\(19980301\)21:3%3C169::AID-JHRC169%3E3.0.CO;2-B](https://doi.org/10.1002/(SICI)1521-4168(19980301)21:3%3C169::AID-JHRC169%3E3.0.CO;2-B)

Improving precision of manual hydrodynamic injection in capillary electrophoresis with contactless conductivity detection

Kuban, Petr; Seiman, Andrus; Kaljurand, Mihkel Journal of chromatography A 2011 / p. 1273-1280 : ill

In situ determination of illegal drugs in oral fluid by portable capillary electrophoresis with deep UV excited fluorescence detection

Saar-Reismaa, Piret; Erme, Enn; Vaher, Merike; Kulp, Maria; Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina Analytical chemistry 2018 / p. 6253-6258 : ill

<https://doi.org/10.1021/acs.analchem.8b00911> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In situ determination of nerve agents in various matrices by portable capillary electropherograph with contactless conductivity detection

Kuban, Petr; Seiman, Andrus; Makarõtševa, Natalja; Vaher, Merike; Kaljurand, Mihkel Journal of chromatography A 2011 / p.

2618-2625 : ill

In situ monitoring of kinetics of metabolic conversion of ATP to ADP catalyzed by MgATPases of muscle Gastrocnemius skinned fibers using micellar electrokinetic chromatography

Kulp, Maria; Kaljurand, Mihkel; Käämbre, Tuuli; Sikk, Peeter; Saks, Valdur Electrophoresis 2004 / 17, p. 2996-3002 : ill

<https://pubmed.ncbi.nlm.nih.gov/15349940/>

Influence of a stacking phenomenon on the results of Hadamard transform capillary electrophoresis

Seiman, Andrus; Kaljurand, Mihkel; Ebber, Arkadi Analytica chimica acta 2007 / p. 71-75 : ill

Instrumentaalanalüüs

Kaljurand, Mihkel; Kuldvee, Ruth 1997 https://www.ester.ee/record=b1059512*est

Interactions of Pb²⁺ with fulvic acid by electrophoretically mediated on-capillary microanalysis

Übner, Monika; Kaljurand, Mihkel; Lopp, Margus Journal of chromatography A 2004 / p. 253-256 : ill

<https://www.sciencedirect.com/science/article/pii/S0021967304016899>

Investigation of endogenous antioxidants and their synthetic analogues by capillary electrophoresis = Endogeensete antioksüdantide ja nende sünteetiliste analoogide uurimine kapillaarelektroforeesi meetodil

Kazarjan, Jana 2016 https://www.ester.ee/record=b4535586*est

Investigation of the adsorption and desorption of sulfur mustard degradation products in sediments by capillary electrophoresis [Online resource]

Lees, Heidi; Vaher, Merike; Kaljurand, Mihkel CECE 2016 : 13th International Interdisciplinary Meeting on Bioanalysis : October

17-19, 2016, Hotel Continental, Brno, Czech Republic : [proceedings] 2016 / p. 182-185 : ill [http://www.ce-](http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016_WOS.pdf)

[ce.org/CECE2016/Proceedings%20CECE%202016_WOS.pdf](http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016_WOS.pdf)

Investigation of the stability of glutathione-metal complexes and related tetrapeptides-metal complexes using capillary electrophoresis, ETAAS and ICP-MS

Vaher, Merike; Viitak, Anu; Makarõtševa, Natalja; Muinasmaa, Urmas; Kaljurand, Mihkel 16th International Symposium on

Capillary Electro-separation Techniques : Catania, Italy, August 31-September 4, 2008 : book of abstracts 2008 / p. 80

Investigation of the surfactant type and concentration effect on the retention factors of glutathione and its analogues by

micellar electrokinetic chromatography

Kazarjan, Jana; Mahlapuu, Riina; Hansen, Mats; Soomets, Ursel; **Kaljurand, Mihkel**; **Vaher, Merike** Journal of separation science 2015 / p. 3461-3468 : ill <http://dx.doi.org/10.1002/jssc.201500567>

Ionic liquids as background electrolyte additives and coating materials in capillary electrophoresis

Vaher, Merike; **Borissova, Maria**; **Koel, Mihkel**; **Kaljurand, Mihkel** Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 4, p. 187-198 : ill

Ionic liquids as background electrolyte additives in capillary electrophoresis

Vaher, Merike; **Kaljurand, Mihkel** Ionic liquids in chemical analysis 2008 / p. 185-210 : ill

Ionic liquids as electrolytes for nonaqueous capillary electrophoresis

Vaher, Merike; **Koel, Mihkel**; **Kaljurand, Mihkel** Electrophoresis 2002 / p. 426-430 : ill

Ionic liquids for silica modification : assessment by capillary zone electrophoresis

Borissova, Maria; **Koel, Mihkel**; **Kaljurand, Mihkel** Ionic liquids. IV, Not just solvents anymore 2007 / p. 35-46 : ill

Ionic liquids in capillary electrophoresis and liquid chromatography

Vaher, Merike; **Koel, Mihkel**; **Kaljurand, Mihkel** Chimica Oggi = Chemistry today 2007 / 6, p. 86-88

ioonkromatograafia kasutamine proovi spetsifitseerimiseks aatomabsorptsioonspektroskoopias

Kaljurand, Mihkel; **Viitak, Anu**; **Treumann, Maili**; **Jakovleva, Irina**; **Hödrejärvi, Helvi** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 41

ioonsete vedelike kasutamine mitte-vesikeskkonnalisel kapillaarelektroforeesil fenoolsete ühendite ja karboksüülhapete analüüsil

Vaher, Merike; **Koel, Mihkel**; **Kaljurand, Mihkel** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 152-153

Kapillaarelektroforees bioanalüütikas

Kaljurand, Mihkel Teadusmõte Eestis : täppisteadused : [artiklikogumik] 2006 / lk. 233-239 : ill https://www.ester.ee/record=b2230239*est

Kapillaarelektroforeesi kasutamine keemiliste reaktsioonide seirel

Kaljurand, Mihkel; **Kulp, Maria**; **Ehala, Sille**; **Vaher, Merike** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 29

Keemikud hoiatavad arutu raiskamise eest teadusaparatuuri soetamisel

Imeline Teadus 2019 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

Keemikud: uus ja kallis teadusaparatuur ei ole alati tarvilik, saab ka säästlikumalt [Võrguväljaanne]

novaator.err.ee 2019 / fot [Keemikud: uus ja kallis teadusaparatuur ei ole alati tarvilik, saab ka säästlikumalt](https://www.ester.ee/record=b2747925*est)

Keemilised mõõtmised kui aken maailma : avalik loeng 15. mail 2000 TTÜs

Kaljurand, Mihkel Tallinna Tehnikaülikooli aastaraamat 2000 2001 / lk. 205-210

Kemomeetria

Kaljurand, Mihkel 2008 http://www.ester.ee/record=b2431325*est

Kemomeetria, kromatograafia ja kompuutrid analüütikas - kas midagi jääb ka katseklaasikeemiale?

Kaljurand, Mihkel Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 161 https://www.ester.ee/record=b1052731*est

Keskonnaproovide laboriväline ekstraktsioon ja kapillaarelektroforeetiline analüüs

Kobrin, Eeva-Gerda; **Knjazeva, Tatjana**; **Kuban, Petr**; **Seiman, Andrus**; **Vaher, Merike**; **Kaljurand, Mihkel** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 43

Kvaliteeditagamine analüütilises keemias

Leito, Ivo; **Viitak, Anu** 2007 https://www.ester.ee/record=b2238181*est

Maili Treumann : 1949-2010

Kaljurand, Mihkel Mente et Manu 2010 / lk. 4 : portr https://www.ester.ee/record=b1242496*est

Mapping capability of SFS method combined with cluster analysis for illegal drugs distribution : feasibility study

Mazina, Jekaterina; **Kaljurand, Mihkel**; **Porõvkina, Larisa** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" :

Maximum entropy chromatogram reconstruction

Kaljurand, Mihkel; Phillips, John B.; Dimandja, Jean-Marie D.; Valentin, Jose *Chimia* 1998 / 7/8, p. 338

Maximum entropy chromatogram reconstruction

Dimandja, Jean-Marie D.; **Kaljurand, Mihkel**; Phillips, John B.; Valentin, Jose *Analytica chimica acta* 1998 / p. 1-8: ill

Membraansüsteemiga kombineeritud kapillaarelektroforeesi seadme kasutamine biotehnoloogiliste protsesside monitooringuks

Ehala, Sille; **Kuldvee, Ruth**; **Kaljurand, Mihkel** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 27

Methods of comparative analysis of the free radical scavenging capability of components of antioxidant mixtures

Püssa, Tõnu; **Vaher, Merike**; **Helmja, Kati**; Raudsepp, Piret; **Kaljurand, Mihkel** NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 56

Miniaturization of sampling for chemical reaction monitoring by capillary electrophoresis

Kulp, Maria; **Vaher, Merike**; **Kaljurand, Mihkel** *Journal of chromatography A* 2005 / p. 126-129 : ill

Modified methods for the determination of Ca in the milk and blood serum in the study of Ca metabolism in man

Viitak, Anu; **Lahne, Riina**; **Hödrejärvi, Helvi**; **Kaljurand, Mihkel**; **Friedenthal, Margus**; **Tuulik, Viiu** EUROANALYSIS XI : European Conference on Analytical Chemistry : Lissabon, Portugal, September 3-8, 2000 : book of abstracts 2001 / p. 256

Monitoring chemical reactions in micro- and nanoliter volumes by capillary electrophoresis

Kaljurand, Mihkel; **Vaher, Merike** 4th International Symposium on Separations in the BioSciences (SBS'05) 2005 / p. 63

Monitoring degradation processes of L-ascorbic acid in orange fruits and juices by capillary zone electrophoresis with a computerized pneumatic sampling device

Kuldvee, Ruth; Vunder, Kadri; **Kaljurand, Mihkel** *Proceedings of the Estonian Academy of Sciences. Chemistry* 1999 / 3, p. 119-128

Monitoring nonstationary samples by multiple input chromatography

Kaljurand, Mihkel *Kemia 95* : Finnish Chemical Congress and Exhibition and Nordic Polymer Meeting 1995, Helsinki, 14-16 Nov., 1995 : abstracts 1995 / p. 29

Monitoring nonstationary samples by multiple input chromatography

Kaljurand, Mihkel *Chemometrics in Analytical Chemistry VI : CAC 96* : International Conference, Tarragona (Spain), 25-29 June : abstracts book 1996 / p. PL-2

Monitoring of L-ascorbic acid's degradation processes in orange fruits and juices by capillary zone electrophoresis using a computerized pneumatic sampling device

Vunder, Kadri; **Kuldvee, Ruth**; **Kaljurand, Mihkel** *Balaton Symposium'99 on High-Performance Separation Methods* : September 1-3, 1999, Siófok, Hungary : book of abstracts 1999 / p. P-195

Monitoring of randomly varying chemical processes by correlation chromatography

Kaljurand, Mihkel; Smit, H.C. *Analytica chimica acta* 1998 / 2/3, p. 175-187: ill

Monitoring of the degradation of phenols by Rhodococcus bacteria by micellar electrokinetic chromatography

Kulp, Maria; **Vassiljeva, Irina**; **Vilu, Raivo**; **Kaljurand, Mihkel** *Journal of separation science* 2002 / 15/17, p. 1129-1135
<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/1615-9314%2820021101%2925%3A15%2F17%3C1129%3A%3AAID-JSSC1129%3E3.0.CO%3B2-4>

Monitoring of the electroosmotic flow of ionic liquid solutions in non-aqueous media using thermal marks

Seiman, Andrus; **Vaher, Merike**; **Kaljurand, Mihkel** *Journal of chromatography A* 2008 / p. 266-273 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S002196730800054X>

Monitoring time-varying concentrations in sample streams by multiple input chromatography

Louwerse, D.J.; Smit, H.C.; **Kaljurand, Mihkel** *Analytica chimica acta* 1997 / p. 285-297

Narkotestri arendamine narkootikumide tuvastamiseks süljes

Saar-Reismaa, Piret; Erme, E.; **Kulp, Maria**; **Gorbatšova, Jelena**; **Kaljurand, Mihkel**; **Vaher, Merike**; **Mazina-Šinkar, Jekaterina** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 27
https://www.ester.ee/record=b5208044*est

New approaches in capillary electrophoresis for separation and study of proteins = Kapillaarelektroforeesi uued lahendused valkude lahutamisel ja uurimisel
Knjazeva, Tatjana 2011

New developments in separation science will help to contribute to the democratisation of analytical chemistry
Kaljurand, Mihkel; Ružička, Martin; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina *Microchemical journal* 2023 / Art. 109443
<https://doi.org/10.1016/j.microc.2023.109443> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nonaqueous CE using contactless conductivity detection and ionic liquids as BGEs in ACN
Borissova, Maria; Gorbatšova, Jelena; Ebber, Arkadi; Kaljurand, Mihkel; Koel, Mihkel; Vaher, Merike *Electrophoresis* 2007 / p. 3600-3605 : ill

Nonconventional samplers in capillary electrophoresis
Kuldvee, Ruth; Kaljurand, Mihkel *Critical reviews in analytical chemistry* 1999 / 1, p. 29-68: ill

NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program
2009 https://www.ester.ee/record=b2508733*est

On-column capillary electrophoretic monitoring of rapid reaction kinetics for determination of the antioxidative potential of various bioactive phenols
Vaher, Merike; Ehala, Sille; Kaljurand, Mihkel *Electrophoresis* 2005 / p. 990-1000 : ill

On-line coupling of a bioreactor with capillary electrophoresis via a membrane interface for monitoring the degradation of phenols by microorganisms
Kulp, Maria; Vassiljeva, Irina; Vilu, Raivo; Kaljurand, Mihkel 15th International Symposium on Microscale Separations and Analysis HPCE, April 13-18, 2002, Stockholm : abstracts 2002 / p. 249

On-line coupling of a miniaturized bioreactor with capillary electrophoresis, via membrane interface, for monitoring the production of organic acids by microorganisms
Ehala, Sille; Vassiljeva, Irina; Kuldvee, Ruth; Vilu, Raivo; Kaljurand, Mihkel *Fresenius journal of analytical chemistry* 2001 / 2, p. 168-173

On-line monitoring of enzymatic conversion of adenosine triphosphate to adenosine diphosphate by micellar electrokinetic chromatography
Kulp, Maria; Kaljurand, Mihkel *Journal of chromatography A* 2004 / p. 305-312 : ill

An optimized capillary electrophoresis method for the simultaneous analysis of biomass degradation products in ionic liquid containing samples
Aid, Tiina; Paist, Loore; Lopp, Margus; Kaljurand, Mihkel; Vaher, Merike *Journal of chromatography A* 2016 / p. 141-147 : ill
<https://doi.org/10.1016/j.chroma.2016.04.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation products of free polyunsaturated fatty acids in wheat varieties
Levandi, Tuuli; Püssa, Tõnu; Vaher, Merike; Toomik, Peeter; Kaljurand, Mihkel *European journal of lipid science and technology* 2009 / 7, p. 715-722 : ill
https://www.researchgate.net/publication/230008245_Oxidation_products_of_free_polyunsaturated_fatty_acids_in_wheat_varieties

Paper microzones as a route to greener analytical chemistry
Kaljurand, Mihkel *Current Opinion in Green and Sustainable Chemistry* 2019 / p. 15-18 <https://doi.org/10.1016/j.cogsc.2019.03.002>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performing reactions in nanovolumes
Kaljurand, Mihkel; Vaher, Merike *Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry* : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 31

Phenolic compounds and the antioxidant activity of the bran, flour and whole grain of different wheat varieties
Vaher, Merike; Matso, Kersti; Levandi, Tuuli; Helmja, Kati; Kaljurand, Mihkel *Procedia chemistry* 2010 / p. 76-82 : ill
<https://www.sciencedirect.com/science/article/pii/S1876619609004094>

Point-of-care analyser based on capillary electrophoresis = Kapillaarelektroforeesil põhinev kaasaskantav analüsaator
Seiman, Andrus 2011 https://www.ester.ee/record=b2692545*est

Polüfenoolsete ühendite antioksidatiivsuse hindamine kapillaarelektroforeetilisel ja vedelik-kromatograafilisel
Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Kaljurand, Mihkel XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 31

Portable automated handheld sample collection-preparation instrument for airborne volatile substances

Bimbiraite-Surviliene, Kristina; Drevinskas, Tomas; Maruska, Audrius; Kornysova, Olga; **Gorbatšova, Jelena**; Ihara, Hirotaka; **Kaljurand, Mihkel** Microchemical journal 2020 / art. 105576 <https://doi.org/10.1016/j.microc.2020.105576> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A portable capillary electropherograph equipped with a cross-sampler and a contactless-conductivity detector for the detection of the degradation products of chemical warfare agents in soil extracts

Seiman, Andrus; Jaanus, Martin; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2009 / p. 507-514 : ill

Portable capillary electrophoresis as a green analytical technology

Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina TrAC Trends in Analytical Chemistry 2022 / art. 116811 <https://doi.org/10.1016/j.trac.2022.116811> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Portable capillary electrophoresis instrument

Jaanus, Martin; Seiman, Andrus; Vaher, Merike; Makarõtsõeva, Natalja; Kuuskmäe, Edur; Kaljurand, Mihkel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 59

Portable fully automated oral fluid extraction device for illegal drugs

Ružicka, Martin; Kaljurand, Mihkel; Gorbatšova, Jelena; Vaher, Merike; Mazina-Šinkar, Jekaterina Talanta 2022 / art. 123389 <https://doi.org/10.1016/j.talanta.2022.123389> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Portatiivne kapillaarelektroforeesi aparaat keskkonnareostuse analüüsiks

Knjazeva, Tatjana; Makarõtsõeva, Natalja; Kobrin, Eeva-Gerda; Helmja, Kati; Seiman, Andrus; Vaher, Merike; Kaljurand, Mihkel XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 46

Principal component analysis of HPLC-MS/MS patterns of wheat (Triticum aestivum) varieties

Levandi, Tuuli; Püssa, Tõnu; Vaher, Merike; Ingver, Anne; Koppel, Reine; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences 2014 / p. 86-92 : ill https://artiklid.elnet.ee/record=b2665228*est <https://doi.org/10.3176/proc.2014.1.11> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Programeeritav tilksisend kapillaarelektroforeesis

Gorbatšova, Jelena; Jaanus, Martin; Kaljurand, Mihkel XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 29

Puhtama ja tervislikuma elu nimel : Eesti riigi teaduspreemia tuli Tehnikaülikooli : [2007. a. keemia ja molekulaarbioloogia alal keemiainstituudi teaduskollektiivile : prof. Mihkel Kaljurand (kollektiivi juht), juhtivteadur Mihkel Koel ja vanemteadur Merike Vaher : intervjuu Mihkel Kaljuranna ja Mihkel Koeliga]

Kaljurand, Mihkel; Ummelas, Mart Mente et Manu 2007 / lk. 2 https://www.ester.ee/record=b1242496*est

Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]

Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres Mente et Manu 2005 / 18. mai. lk. 1 https://www.ester.ee/record=b1242496*est

Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]

Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres Tallinna Tehnikaülikooli aastaraamat 2005 2006 / lk. 430-431

Pöördumine haridus- ja teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [TTÜ professorite kiri doktorikoolide asjus]

Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve Õpetajate Leht 2005 / 20. mai, lk. 3 https://artiklid.elnet.ee/record=b1398487*est

Qualitative detection of illegal drugs (cocaine, heroin and MDMA) in seized street samples based on SFS data and ANN : validation of method

Mazina, Jekaterina; Aleksejev, Valeri; Mkina, Tatjana; Kaljurand, Mihkel; Porykina, Larisa Journal of chemometrics 2012 / p. 442-455 : ill https://www.academia.edu/25357220/Qualitative_detection_of_illegal_drugs_cocaine_heroin_and_MDMA_in_seized_street_samples_based_on_SFS_data_and_ANN_validation_of_method

Rapid and sensitive capillary electrophoresis method for the analysis of Ecstasy in an oral fluid

Saar-Reismaa, Piret; Tretjakova, Anastassia; Mazina-Šinkar, Jekaterina; Vaher, Merike; Kaljurand, Mihkel; Kulp, Maria Talanta 2019 / p. 390-396 : ill <https://doi.org/10.1016/j.talanta.2019.01.029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Rapid capillary electrophoresis method with led-induced native fluorescence detection for the analysis of amphetamine and cocaine derivatives in oral fluid

Tretjakova, Anastassia; Mazina-Šinkar, Jekaterina; Vaher, Merike; Kaljurand, Mihkel; Kulp, Maria 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 68 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Rapid capillary electrophoresis method with LED-induced native fluorescence detection for the analysis of cannabinoids in oral fluid

Mazina, Jekaterina; Špiljova, Anastassija; Vaher, Merike; Kaljurand, Mihkel; Kulp, Maria Analytical methods 2015 / p. 7741-7747 : ill <http://dx.doi.org/10.1039/c5ay01595b>

Recent advancements on greening analytical separation

Kaljurand, Mihkel; Koel, Mihkel Critical reviews in analytical chemistry 2011 / p. 2-20 : ill <https://www.tandfonline.com/doi/full/10.1080/10408347.2011.539420>

Reduction of detection limits in capillary zone electrophoresis using the multiplex technique

Ebber, Arkadi; Kaljurand, Mihkel 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 30: ill

Reduction of detection limits of anions in polar ice core analysis using correlation ion chromatography

Ivask, Jüri; Kaljurand, Mihkel Journal of chromatography A 1999 / p. 419-423 [https://doi.org/10.1016/S0021-9673\(99\)00359-3](https://doi.org/10.1016/S0021-9673(99)00359-3)

Room temperature ionic liquids as background electrolyte additives in capillary electrophoretic separations

Vaher, Merike 2002 https://www.ester.ee/record=b1715414*est

Räniorus

Kaljurand, Mihkel Horisont 1996 / 1, lk. 36-39; 2, lk. 40-42; 3, lk. 42-44; 4, lk. 49-50: ill https://artiklid.elnet.ee/record=b2034461*est

Sample plate modification for improvement of sensitivity in analysis of small molecules by MALDI-MS

Borissova, Maria; Vaher, Merike; Kaljurand, Mihkel IUPAC International Congress on Analytical Sciences 2011 : 22-26 May 2011, Kyoto, Japan 2011

Sampling and quantitative analysis in capillary electrophoresis

Kuban, Petr; Seiman, Andrus; Kaljurand, Mihkel Capillary electrophoresis and microchip capillary electrophoresis : principles, applications, and limitations 2013 / p. 41-64

Sea buckthorn as a tool for biomedicine or home remedy

Lõugas, Tiina; Gorbatšova, Jelena; Kaljurand, Mihkel; Kravets, Marina; Vokk, Raivo Food and nutrition = Toit ja toitumine. XVII : book of abstracts : the 5th Baltic Conference on Food Science and Technology : Foodbalt-2010 2010 / p. 107-109

Separation of aromatic hydrophobic sulfonates by micellar electrokinetic chromatography

Ehala, Sille; Vaher, Merike; Kaljurand, Mihkel Journal of chromatography A 2007 / p. 322-326 : ill <https://www.sciencedirect.com/science/article/pii/S0021967307009818>

Separation of glutathione and its novel analogues and determination of their dissociation constants by capillary electrophoresis

Kazarjan, Jana; Vaher, Merike; Mahlapuu, Riina; Hansen, Mats; Soomets, Ursel; Kaljurand, Mihkel Electrophoresis 2013 / p. 1820-1827 : ill <https://doi.org/10.1002/elps.201200611> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Separation of interfering substances with ion chromatography on Pb and Cd determinations by flameless AAS

Kaljurand, Mihkel; Viitak, Anu; Lepane, Viia; Treumann, Maili 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 25

Separation of ionic liquids in non-aqueous capillary electrophoresis using contactless conductivity detector

Vaher, Merike; Gorbatšova, Jelena; Koel, Mihkel; Kaljurand, Mihkel HPLC 2007 Symposium : Ghent, Belgium, June 17-21, 2007 : abstract book 2007 / p. 363

Separation of polyphenols and L-ascorbic acid and investigation of their antioxidant activity by capillary electrophoresis

Ehala, Sille; Vaher, Merike; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 1, p. 21-35 : ill

Simultaneous determination of the degradation products of sulfur and nitrogen mustards in aqueous samples by a portable CE system with contactless conductivity detection

Jõul, Piia; Kuhtinskaja, Maria; Kaljurand, Mihkel 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 63 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Simultaneous determination of water-soluble vitamins by capillary electrophoresis combined with MALDI-TOF
Mazina, Jekaterina; Gorbatošova, Jelena; Knjazeva, Tatjana; Kaljurand, Mihkel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 117

Simultaneous determination of γ -hydroxybutyric acid, ibotenic acid and psilocybin in saliva samples by capillary electrophoresis coupled with a contactless conductivity detector
Saar-Reismaa, Piret; Kulp, Maria; Vaher, Merike; Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina Analytical methods 2017 / p. 3128-3133 : ill <https://doi.org/10.1039/C7AY00742F> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simultaneous preconcentration and separation of Cr(III) and Cr(VI) using CE with AAS detection
Kuldvee, Ruth; Viitak, Anu; Kaljurand, Mihkel 15th International Symposium on Microscale Separations and Analysis HPCE, April 13-18, 2002, Stockholm : abstracts 2002 / p. 266

Smart materials in miniaturized devices
Kaljurand, Mihkel Handbook of smart materials in analytical chemistry 2019 / p. 621–642 <https://doi.org/10.1002/9781119422587.ch19>

Speciation of chromium using wide-bore capillary electrophoresis with electrothermal atomic absorption spectrometry detection
Kuldvee, Ruth; Zaidentsal, Aleksei; Viitak, Anu; Treumann, Maili; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 2, p. 65-74 : ill

Stacking from the sample stream in capillary electrophoresis
Kuldvee, Ruth; Kaljurand, Mihkel Chimia 1998 / 7/8, p. 373

Stacking from the sample stream in CZE using a pneumatically driven computerized sampler
Kuldvee, Ruth; Kaljurand, Mihkel Analytical chemistry 1998 / 17, September 1, p. 3695-3698: ill
<https://pubs.acs.org/doi/full/10.1021/ac9801115>

Stroboscopic sampling in comprehensive high-performance liquid chromatography-capillary electrophoresis via a pneumatic sampler
Ehala, Sille; Kaljurand, Mihkel; Kudrjašova, Marina; Vaher, Merike Electrophoresis 2004 / p. 980-989 : ill

A study of primary oxidation products of free polyunsaturated fatty acids in wheat varieties
Vaher, Merike; Levandi, Tuuli; Püssa, Tõnu; Toomik, Peeter; Kaljurand, Mihkel Proceedings of World Congress on Oils and Fats & 28th ISF Congress : Sydney, Australia, 27-30 September 2009 / ? p

A study of the "injection" peak in ion chromatography
Kuldvee, Ruth; Kaljurand, Mihkel Euroanalysis IX : European Conference on Analytical Chemistry, Bologna (Italy), September 1-7, 1996 : [book of abstracts] 1996 / p. Fr P 30

Study of VFAs formation during anaerobic digestion of thermally treated sludge by respirometric Oxitop method
Menert, Anne; Michelis, Merje; Helmja, Kati; Tahkonemi, Heli Anneli; Vaalu, Tarmo; Malsub, Tõnu; Vilu, Raivo; Kaljurand, Mihkel Proceedings of 5th Conference on the Establishment of Cooperation between Companies and Institutions in the Baltic Sea Region 2005 / p. 563

Sugar and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass
Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel UBIOCHEM IV : 4th International Workshop of COST Action CM0903 : 14-16 October, 2013, Valencia, Spain : book of abstracts 2013 / p. 42

Sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass: Comparison of capillary electrophoresis and chromatographic analysis
Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel Catalysis today 2014 / p. 18-24 : ill
<https://doi.org/10.1016/j.cattod.2013.08.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sugars and sugar derivatives in ionic liquids media obtained from lignocellulosic biomass : comparizon of capillary electrophoresis and chromatographic analysis
Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel Catalysis today 2014 / p. 18-24 : ill

Suppression of solute-wall interactions in humic acid capillary electrophoretic analysis by its diluted solution as background electrolyte
Übner, Monika; Kaljurand, Mihkel; Lopp, Margus Colloids and surfaces A : physicochemical and engineering aspects 2007 / p. 634-637 : ill <https://www.sciencedirect.com/science/article/pii/S0927775707001744#>

Süsteemipiikide tekkemehhanismi ja kasutusala uurimineioonkromatograafias : magistritöö
Shimmo, Ruth 1995 https://www.ester.ee/record=b2680510*est

Teadus kui väärtus : ettekanne TTÜ aastapäeva aktusel
Kaljurand, Mihkel Tehnikaülikool 1997 / 29. sept., lk. 3-5: ill

Teadus kui väärtus : kõne Tallinna Tehnikaülikooli 79. aastapäevale pühendatud pidulikul nõukogu istungil 17. septembril 1997 TTÜ aulas
Kaljurand, Mihkel Tallinna Tehnikaülikooli aastaraamat 1997 1998 / lk. 197-202

Teaduspreemia keemia ja molekulaarbioloogia alal teadustööde tsükli "Elektromigratsioonilised meetodid bioprotsesside analüüsis" eest : Mihkel Kaljurand (kollektiivi juht), Mihkel Koel, Merike Vaher
Kaljurand, Mihkel; Koel, Mihkel; Vaher, Merike Eesti Vabariigi teaduspreemiad 2007 2007 / lk. 54-65 : fot., ill

Termokromatogrammide analüüs peakomponentide meetodil : magistritöö
Ivask, Kaire 1995 https://www.ester.ee/record=b2078776*est

The analysis of degradation product of toxic organophosphates in soil organic matter : extraction procedures and separation with capillary electrophoresis
Makarõtševa, Natalja; Seiman, Andrus; Vaher, Merike; Kaljurand, Mihkel 12th Nordic-Baltic IHSS Symposium on Natural Organic Matter in Environment and Technology : Tallinn, Estonia, June 14-17, 2009 : program and abstracts 2009 / p. 81

The Baltic brown alga *Fucus vesiculosus* as a potential raw material for alginate production
Vaher, M.; Truus, Kalle; Ivask, Kaire; Kaljurand, Mihkel 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 78

The detection of nerve agent degradation products in different soil fractions using capillary electrophoresis with contactless conductivity detection
Seiman, Andrus; Makarõtševa, Natalja; Vaher, Merike; Kaljurand, Mihkel Chemistry and ecology 2010 / Suppl., p. 145-155 : ill
<https://www.tandfonline.com/doi/abs/10.1080/02757540.2010.497761>

The development of a handheld automatic drugmeter for quantitative analysis of γ -hydroxybutyric acid
Růžička, Martin; Kaljurand, Mihkel; Gorbatšova, Jelena; Vaher, Merike; Halling, Evelin; Jaanus, Martin; Mazina-Šinkar, Jekaterina Flow Analysis XV, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 156 [Kogumik](#)

The development of paper microzone-based green analytical chemistry methods for determining the quality of wines
Vaher, Merike; Kaljurand, Mihkel Analytical and bioanalytical chemistry 2012 / [7 p.] : ill
https://www.researchgate.net/publication/221877797_The_development_of_paper_microzone-based_green_analytical_chemistry_methods_for_determining_the_quality_of_wines

The evaluation of the oxidation capability of bioactive compounds of *Solanum melongena* by capillary electrophoresis and by HPLC-MS/MS
Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Kaljurand, Mihkel XXIVth International Conference on Polyphenols : Polyphenols Communications 2008 : Salamanca, 8th-11th July 2008. Volume 1 2008 / p. 165-166 : ill

The interference of calcium with phosphate in AAs
Lahne, Riina; Viitak, Anu; Kaljurand, Mihkel; Hödrejäär, Helvi; Treumann, Maili EUROANALYSIS XI : European Conference on Analytical Chemistry : Lissabon, Portugal, September 3-8, 2000 : book of abstracts 2001 / p. 100

The modified methods of determination of bioelements in blood serum of Estonian people by the method of AAS
Viitak, Anu; Fuchs, Kristiina; Kaljurand, Mihkel; Treumann, Maili; Lahne, Riina IMA'03 : 3rd International Conference : Instrumental Methods of Analysis Modern Trends and Applications : 23-27 September 2003, Thessaloniki, Greece : conference proceedings 2003 / p. 230-233 : ill

Thermal marks as a signal processing aid for a portable capillary electropherograph
Seiman, Andrus; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2011 / 9, p. 1006-1014 : ill

Thermochromatographical analysis of polymer thermal decomposition: interpretation and classification by principal component analysis and related methods
Kudrjašova, Marina; Elomaa, M.; Kaljurand, Mihkel Balaton Symposium'99 on High-Performance Separation Methods : September 1-3, 1999, Siofok, Hungary : book of abstracts 1999 / p. P-42

Towards adaptive method for peak migration time correction : discretization period in electropherograms
Drevinskas, Tomas; Maruška, Audrius; Naujokaitytė, Gintarė; Telksnys, Laimutis; Kaljurand, Mihkel; Stanys, Vidmantas; Cowles, John; Gorbatsova, Jelena Chemija 2020 / p. 146-155 : ill <https://doi.org/10.6001/CHEMIJA.V31I3.4288> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tsoonkapillaarelektroforeesi detekteerimispiiri alandamine multipleksmeetodi abil

Ebber, Arkadi; Kaljurand, Mihkel XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 25: ill

TTÜ teadlased arendasid maailmas ainulaadse narkotestri

Männiste, Agnes Mente et Manu 2017 / lk. 18-21 : fot http://www.ttu.ee/public/m/mente-et-manu/MM_01_2017/index.html
https://artiklid.elnet.ee/record=b2811464*est

TTÜ ühtsuse nimel on vaja töötada

Kaljurand, Mihkel Mente et Manu 2015 / lk. 5 https://artiklid.elnet.ee/record=b2749531*est

Usaldusväärsed mõõtmised keemias

Koel, Mihkel; Kaljurand, Mihkel 2020 https://www.ester.ee/record=b5377677*est https://www.ester.ee/record=b5377678*est
<https://digikogu.taltech.ee/et/Item/ef660aa0-9ad9-42bd-a7ed-ee0dd653f776>

Use of a newly-developed portable capillary electrophoresis analyser to detect drugs of abuse in oral fluid: A case study

Saar-Reismaa, Piret; Brilla, Chelsa-Ann; Leiman, Kristiina; Kaljurand, Mihkel; Vaher, Merike; Kulp, Maria; Mazina-Šinkar, Jekaterina Talanta 2020 / art. 120662, 9 p <https://doi.org/10.1016/j.talanta.2019.120662> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

Use of eluents of vanillic acid and N-methyldiethanolamine in nonsuppressed ion chromatography

Yakovleva, Irina; Haldna, Ülo; **Kaljurand, Mihkel** Proceedings of the Estonian Academy of Sciences. Chemistry 1998 / 1, p. 30-34: ill

Uudne marker kapillaarelektroforeesi jaoks mittevesikeskkonnas

Seiman, Andrus; Vaher, Merike; Kaljurand, Mihkel XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 145-146

Variation in the composition of the essential oils, phenolic compounds and mineral elements of Hypericum perforatum L. growing in Estonia

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Orav, Anne; Viitak, Anu; Levandi, Tuuli; Kaljurand, Mihkel Natural product research 2011 / p. 496-510

Vedelate soolade kasutamine kapillaarelektroforeesil

Vaher, Merike; Koel, Mihkel; **Kaljurand, Mihkel** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 154

Vee humiinainete kapillaarelektroforeetiline analüüs

Lepane, Viia; Ebber, Arkadi; Kaljurand, Mihkel XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 78-79 : ill

Visualisation of in-capillary microreactions using a CMOS-based absorbance detector

Kulp, Maria; Kaljurand, Mihkel; Bergström, Edmund T. Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 97

Visualization of electrophoretically mediated in-capillary reactions using a complementary metal oxide semiconductor-based absorbance detector

Kulp, Maria; Urban, Pawel L.; Kaljurand, Mihkel; Bergström, Edmund T.; Goodall, David M. Analytica chimica acta 2006 / p. 1-7 : ill
<https://www.sciencedirect.com/science/article/pii/S0003267006007665>

Ülikriitiline ekstraktsioon toiduainete proovide töötlemisel ning kapillaarelektroforees nende iseloomustamisel

Sipp, Sirli; Koel, Mihkel; Kaljurand, Mihkel XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 163

Исследование состава экстрактов хвойной зелени : магистрская работа

Liiv, Milana 1996 https://www.ester.ee/record=b2681404*est