

Advances in drug testing using capillary electrophoresis and native fluorescence

Bolkvadze, Vyacheslav; Saar-Reismaa, Piret; Kaljurand, Mihkel; Vaher, Merike; Gorbatšova, 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-a279-47c4-90e3-72f05bcd4a1

An optimized capillary electrophoresis method for the simultaneous analysis of biomass degradation products in ionic liquid containing samples

Aid, Tiina; Vaher, Merike 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts

2016 / p. 91 : ill http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Analysis of bioactive ingredients in the brown alga *Fucus vesiculosus* by capillary electrophoresis and neutron activation analysis

Truus, Kalle; Vaher, Merike; Koel, Mihkel; Mähar, Andres; Taure, Imants Analytical and bioanalytical chemistry 2004 / 5/6, p. 849-852 : ill

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

Makarõtševa, 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 CWA degradation products by portable capillary electrophoretic analyser

Komissarova, T.; Kulp, Maria HPLC 2007 Symposium : Ghent, Belgium, June 17-21, 2007 : abstract book 2007 / ? p

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 oil shale phenols by capillary electrophoresis

Ebber, Arkadi; Ivask, Kaia 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 29: ill

Analysis of psychoactive compounds in oral fluid by capillary electrophoresis = Psühhoaktiivsete ühendite analüüs süljes kapillaarelektroforeesi meetodil

Saar-Reismaa, Piret 2020 <https://digikogu.taltech.ee/et/Item/b7a6fb1d-5df0-4250-afd4-8323e65f3b5c> kookuvõtte: Uudne narkotester leiab Eesti enim levinud uimastid veerand tunniga / novaator.err.ee

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

Makarõtševa, 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

Analytical separations in harsh environments

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

Antiepileptikumide kapillaarelektroforeetilise määramise inimese veres

Kuldvee, Ruth; Thormann, W. XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 70-71

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 capillary zone electrophoresis to the separation and characterization of poly(amidoamine) dendrimers with an ethylenediamine core

Ebber, Arkadi; Vaher, Merike; Peterson, Janek; Lopp, Margus Journal of chromatography A 2002 / p. 351-358

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 capillary electrophoresis technique in real life

Biel, Iwona; Wozniakiewicz, Michal; Mazina-Šinkar, Jekaterina FLOW ANALYSIS XV Krakow, Poland 2022, June 26-July 1 : Book of Abstracts 2022 / p. 127 https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed

Applications of capillary electrophoresis in aquatic dissolved organic matter analysis

Lepane, Viia Acta Universitatis Latviensis 2005 / p. 56-65

Applications of capillary electrophoresis in aquatic dissolved organic matter analysis

Lepane, Viia Scientific papers University of Latvia 2006 / Earth and environmental sciences, p. 55-65 : ill

Applications of capillary electrophoresis in aquatic dissolved organic matter analysis

Lepane, Viia 10th Nordic IHSS Symposium on Character of Natural Organic Matter and its Role in the Environment 2005 / p. 73

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

Autosampler for portable capillary electrophoresis

Ružicka, Martin; Kaljurand, Mihkel; Gorbatošova, 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

Bioprotsesside kapillaarelektroforeetilise jälgimine

Helmja, Kati; Tahkonen, 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 - towards a sustainable analytical solution for multianalyte

Kuban, Petr 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. 63

Capillary electrophoresis as a monitoring tool for flow composition determination

Kaljurand, Mihkel; Saar-Reismaa, Piret; Vaher, Merike; Gorbatsšova, 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, Sirli; Kaljurand, Mihkel Balaton Symposium'99 on High-Performance Separation Methods : September 1-3, 1999, Siofok, Hungary : book of abstracts 1999 / p. P-78

Capillary electrophoresis method for determining biomass degradation products and monitoring glucose conversion to 5-hydroxymethylfurfural in ionic liquids

Aid, Tiina; Lopp, Margus; Vaher, Merike ITP2015/NoSSS2015 : final program and book of abstracts 2015 / p. P-23

Capillary electrophoresis of methyl-substituted phenols in acetonitrile

Porras, Simo P.; Kuldvee, Ruth; Palonen, Sami; Riekkola, Marja-Liisa Journal of chromatography A 2003 / p. 35-44 : ill

Capillary electrophoresis of phenol and its methylsubstituted derivatives in acetonitrile

Porras, Simo P.; Kuldvee, Ruth; Palonen, Sami; Riekkola, Marja-Liisa The 13th International Symposium on Capillary Electrophoresis Techniques, September 1-4, 2002, Helsinki : abstracts 2002 / p. 91

Capillary electrophoresis on alkylimidazolium salts = Alküülimidasooliumi soolad kapillaarelektroforeesis

Borissova, Maria 2007 http://www.ester.ee/record=b2315954*est

Capillary electrophoresis sensitivity enhancement based on adaptive moving average method

Drevinskas, Tomas; Telksnys, Laimutis; Maruška, Audrius; Gorbatsšova, 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 CM0903: Utilization of Biomass for Sustainable Fuels and Chemicals (UBIOCHEM) : Thessaloniki, Greece, 1-3 Nov 2012 2012 / p. 16

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 characterisation of humic substances

Lepane, Viia; Gorohhova, Jekaterina Advances in Natural Organic Matter and Humic Substances Research 2008-2010 : XV Meeting of the International Humic Substances Society : Puerto de la Cruz, Tenerife, Canary Islands, 27 June - 2 July 2010 : proceedings. Vol. 2 2010 / p. 113-116 : ill

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

Kulp, Maria 2006 <https://digi.lib.ttu.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; Tahkonen, Heli; Helmja, Kati; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / p. 51-64 : ill

Capillary electrophoretic monitoring of products of enzymatic digestion of willow sawdust

Helmja, Kati; Käsper, Andres; Kudrjašova, Marina; Vaher, Merike 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. 105 <https://www.etis.ee/Portal/Publications/Display/b8a916a7-4a4b-460f-a3de-eede27394252>

Capillary electrophoretic study of the synergistic biological effects of alkaloids from Chelidonium majus L. in normal and cancer cells

Kulp, Maria; Bragina, Olga Analytical and bioanalytical chemistry 2013 / p. 3391-3397 : ill <https://doi.org/10.1007/s00216-013-6755-y>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Capillary zone electrophoresis of phenol and methylphenols at high pH in metanol

Porras, Simo P.; Kuldvee, Ruth; Jussila, Matti; Palonen, Sami; Riekkola, Marja-Liisa Journal of separation science 2003 / p. 857-862 : 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

Characterisation of humic substances from Estonian waters by capillary electrophoresis

Lepane, Viia Proceedings of the 8th Nordic IHSS Symposium on Humic Substances 2001 / p. 33-38

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

Lepane, Viia Proceedings of the 5th Finnish Conference of Environmental Sciences : 18-19 May 2001 2001 / p. 26-29

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; Gorbats'ova, 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 sediment pore-water dissolved organic matter by capillary zone electrophoresis using polyvinyl alcohol coated capillary

Lepane, Viia; Leeben, Aina 25th International Symposium on Chromatography : Paris, France, 2004 2004 / p. 135

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 <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 : ill <https://pubmed.ncbi.nlm.nih.gov/23074891/>

Comparative study for differentiation of aquatic humic-type organic constituents by capillary zone electrophoresis using polyvinyl alcohol-coated capillary

Peuravuori, Juhani; Lehtonen, Tero; **Lepane, Viia;** Pihlaja, Kalevi Talanta 2005 / p. 103-111 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0039914005001141>

Comparative study for separation of aquatic humic substances by capillary zone electrophoresis using uncoated, polymer coated and gel-filled capillaries

Peuravuori, Juhani; **Lepane, Viia;** Lehtonen, Tero; Pihlaja, Kalevi Journal of chromatography A 2004 / 1, p. 129-142 : ill

Comparative study of antioxidant capacity of Rheum rhaponticum root polyphenols

Raudsepp, Piret; **Helmja, Kati;** Raal, Ain; **Vaher, Merike;** Püssa, Tõnu XXIVth International Conference on Polyphenols : Polyphenols Communications 2008 : Salamanca, 8th-11th July 2008. Volume 1 2008 / p. 231-232 : ill
https://www.researchgate.net/publication/286933217_Comparative_study_of_antioxidant_capacity_of_Rheum_rhaponticum_root_polyphenols

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/7899> https://www.ester.ee/record=b2948245*est

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; **Gorbatšova, 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](#)

Computerized sampling in ion chromatography and in capillary electrophoresis

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

Cross-correlation capillary electrophoresis in unmodified commercial equipment

Seiman, Andrus; Reijenga, Jetse *Procedia chemistry* 2010 / p. 59-66 : ill

<https://www.sciencedirect.com/science/article/pii/S1876619609004070>

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, Anastassia; 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 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 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; Gorbatšova, 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 <https://doi.org/10.1002/jssc.201400925> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 vitamin composition in sea buckthorn (*Hippophae rhamnoides*) extracts by capillary electrophoresis

Gorbatšova, Jelena; Vaher, Merike HPLC 2007 Symposium : Ghent, Belgium, June 17-21, 2007 : abstract book 2007 / p. 377

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 <https://doi.org/10.1002/elps.201500293> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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.

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 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

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

Electrophoretic mobilities in nonaqueous capillary electrophoresis

Vaher, Merike; Koel, Mihkel Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 1, p. 36-45 : 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/>

Erinevate taustelektrolüütide kasutamine neutraalsete suhkru analüüsiks kapillaarelektroforeesi meetodil

Kazarjan, Jana; Vaher, Merike XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 40

Evaluation of antioxidative capability of the tomato (Solanum lycopersicum) skin constituents by capillary electrophoresis and high-performanced 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; Ružicka, Martin; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina Journal of Chromatography A 2023 / art.

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

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

Tahkonen, 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

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

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

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

HPLC-SEC and capillary electrophoresis methods for dissolved organic matter separation in environmental samples

Lepane, Viia; Leeben, Aina 1st International Conference on Aquatic Colloids and Nanoparticles 2005 / ? p

Humic substances as a background electrolyte in capillary electrophoresis

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

Imidasoolil põhinevad ioonsed vedelikud kvartskapillaari pinna modifitseerijatena kapillaarelektroforeesis

Borissova, Maria; Koel, Mihkel XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 7

Improved C5D electronic realization of conductivity detector for capillary electrophoresis

Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri; Gorbatsšova, Jelena; Mölder, Lauri Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 29-32 : ill <https://doi.org/10.5755/j01.eie.22.3.15311> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

The influence of organic solvents on phenylethylamines in capillary zone electrophoresis

Bolkvadze, Vyacheslav; Bondar, Denys; **Vaher, Merike**; Halling, Evelin; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina Journal of chromatography A 2022 / art. 463169, 9 p. : ill <https://doi.org/10.1016/j.chroma.2022.463169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interaction of humic substances with metal cations

Übner, Monika 2004 https://www.ester.ee/record=b1990652*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 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 Electrophoresis Techniques : Catania, Italy, August 31-September 4, 2008 : book of abstracts 2008 / p. 80

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 as specific additives in separation methods

Koel, Mihkel; **Vaher, Merike** 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 35 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

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

Vaher, Merike Analytical applications of ionic liquids 2016 / p. 105-136 : ill http://www.ester.ee/record=b4620895*est

Ionic liquids in capillary electrophoresis and liquid chromatography

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

Ioonsed vedelikud neutraalsete suhkrute analüüsis kapillaarelektroforeesi meetodil

Kazarjan, Jana; **Vaher, Merike** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 40

loonsete 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

Kaasaskantav narkotester võimaldab tuvastada joovet senisest täpsemalt

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [Kaasaskantav narkotester võimaldab tuvastada joovet senisest täpsemalt](#)

Kapillaarelektroforees bioanalüütikas

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

Kapillaarelektroforees derivatiseerimata rasvhapete analüüsis

Palk, Klairy; Borissova, Maria XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 72

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

Keskkonnaproovide 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

Korrelatsioon kapillaarelektroforeesi katsed kasutades modifitseerimata kommertsiaalset instrumenti

Seiman, Andrus; Reijenga, Jetse XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 73

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

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

Monitoring cellulose degradation and glucose conversion to 5-hydroxymethylfurfural in ionic liquids

Aid, Tiina; Vaher, Merike; Lopp, Margus Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 39 : ill http://boschem.eu/old/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf

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 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 simultaneous saccharification and fermentation of wheat straw by HPLC and capillary electrophoresis

Vaher, Merike; Käsper, Andres; Erm, Sten; Aid, Tiina; Koel, Mihkel Book of abstracts : COST Action CM0903: Utilization of Biomass for Sustainable Fuels and Chemicals (UBIOCHEM) : Thessaloniki, Greece, 1-3 Nov 2012 2012 / p. 73

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>

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; Ružicka, 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](#)

Non-aqueous capillary electrophoretic separation of polyphenolic compounds in wine using coated capillaries at high pH in methanol

Demjanova, Z.; Siren, H.; **Kuldvee, Ruth**; Riekkola, Marja-Liisa Electrophoresis 2003 / p. 4261-4271
<https://pubmed.ncbi.nlm.nih.gov/14679573/>

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 <https://pubmed.ncbi.nlm.nih.gov/17893951/>

Nonconventional samplers in capillary electrophoresis

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

Novel Analytical Procedures for Sample Preparation and Analysis of Environmentally Harmful Compounds = Uudsed analüüsimetoodikad keskkonnakahjulikke ühendeid sisaldavate proovide ettevalmistuseks ja analüüsiks

Jõul, Piia 2021 <https://digikogu.taltech.ee/et/Item/c290b581-7be6-4ec4-8961-27bc9f5aca23> https://www.ester.ee/record=b5468611*est
<https://doi.org/10.23658/taltech.49/2021>

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

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](#)

Options limitations of multiple input capillary electrophoresis in commercial equipment

Seiman, Andrus; Reijenga, Jetse 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. 60

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; Makarõtsheva, 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

Portatiivne kapillaarelektroforeesi aparaat keskkonnareostuse analüüsiks

Knjazeva, Tatjana; Makarõtševa, 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

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

Proovi voo sisestus kapillaarelektroforeesis

Kuldvée, Ruth XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 62

Põlevkivifenoolide lahutamine kapillaarelektroforeesi meetodil

Ebber, Arkadi; Ivask, Kaie XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 24: ill

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 amphetamine and cocaine derivatives in oral fluid

Tretjakova, Anastassia; Mazina, Jekaterina; Vaher, Merike; Kulp, Maria 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

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 <https://doi.org/10.1039/c5ay01595b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

Saccharification of lignocellulosic biomasses via ionic liquid pretreatment

Aid, Tiina; Hyvärinen, S.; Vaher, Merike; Koel, Mihkel; Mikkola, J.-P. Industrial crops and products 2016 / p. 336-341 : ill <https://doi.org/10.1016/j.indcrop.2016.08.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sample preparation for CE-DAD analysis of the water soluble vitamins in food products

Mazina, Jekaterina; Gorbatšova, Jelena Procedia chemistry 2010 / p. 46-53 : ill <https://www.sciencedirect.com/science/article/pii/S1876619609004057>

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

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, Urel; 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 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

Separation of perfluoroalkyl substances by using nonaqueous capillary electrophoresis with conductivity detection

Lees, Heidi; Jõul, Piia; Siilak, Kristel; Vaher, Merike Separation science plus 2020 / p. 313-320

<https://doi.org/10.1002/sscp.202000016> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Separation of polyphenolic compounds extracted from plant matrices using capillary electrophoresis

Vaher, Merike; Koel, Mihkel Journal of chromatography A 2003 / p. 225-230 : ill

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; Gorbatsõva, 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

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

Specific background electrolytes for nonaqueous capillary electrophoresis

Vaher, Merike; Koel, Mihkel Journal of chromatography A 2005 / p. 83-88 : 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

Study of ionic liquids used for silica surface modification by capillary electrophoresis

Borissova, Maria; Koel, Mihkel Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June

2005, Tallinn, Estonia : abstract book 2005 / p. 78

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#>

Synthesis and CZE analysis of PAMAM dendrimers with an ethylenediamine core

Peterson, Janek; Ebber, Arkadi; Allikmaa, Veiko; **Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 156-166 : ill

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 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

Ružička, Martin; Kaljurand, Mihkel; Gorbatošova, 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 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 separation of polyphenolic compounds extracted from plant matrices using capillary electrophoresis

Vaher, Merike; Koel, Mihkel The 13th International Symposium on Capillary Electrophoresis Techniques, September 1-4, 2002, Helsinki : abstracts 2002 / p. 75

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

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; Gorbatošova, 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

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](#)

Utilization of capillary electrophoresis technique to analyse sugars in ionic liquid

da Costa Lopes, A. M.; **Aid, Tiina; Vaher, Merike**; Bogel-Lukasik, R.; **Koel, Mihkel** UBIOCHEM IV : 4th International Workshop of COST Action CM0903 : 14-16 October, 2013, Valencia, Spain : book of abstracts 2013 / p. 98

Uudne marker kapillaarelektroforeesi jaoks mittevsesikeskkonnas

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

Water vapour mobilises building related non-volatile chemicals and mycotoxins and may be used to remove substances of potential health hazard from indoor surfaces

Selkäinaho, Jorma; Harmo, Panu; **Kurnitski, Jarek** Roomvent&Ventilation 2018 : Excellent Indoor Climate and High Performing Ventilation : proceedings 2018 / p. 91-96 : ill <https://www.lyyti.fi/e/?p=s&k=76eA857eee2A33adcE00b0E> <https://www.lyyti.fi/e/?p=s&k=a0E0486b2BC6d8D0F880e96C> https://www.lyyti.fi/reg_att/efA658E7F74904eE7C/0346A5827dBb77E92710.pdf

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 kapillaarelektroforeetilise analüüsi

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