

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, Kaie 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; Sömer, 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; Sömer, 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; Vahe, Merike; Gorbats'ova, 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, Siófok, 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; Vahe, Merike ITP2015/NoSSS2015 : final program and book of abstracts 2015 / p. P-23

Capillary electrophoresis of methyl-substituted phenols in acetonitrile

Porrás, 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

Porrás, 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 = Alkylimidasooliumi 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; Gorbats'ova, 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

Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; Vahe, 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-ee27394252>

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; Gorbatošova, 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

Gorbatošova, 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 suhkruanalüüsiks 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