

Advances in drug testing using capillary electrophoresis and native fluorescence

Bolkvadze, Vyacheslav; Saar-Reismaa, Piret; Kaljurand, Mihkel; Vaher, Merike; Gorbatošova, Jelena; Mazina-Šinkar, Jekaterina V4 Symposium Flow Analysis & Capillary Electrophoresis : abstracts 2021 / p. 64

https://v4face.project.uj.edu.pl/documents/144328876/0/Book_of_abstracts_FACE+2020.pdf/d09dca39-a279-47c4-90e3-72f05bcd4a1

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

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

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

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

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

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

Analysis of fatty acids in plant extracts by CE-SALDI MS

Borissova, Maria; Vaher, Merike; Palk, Klairy 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. 125

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

Makarõtsëva, Natalja; Seiman, Andrus; Vaher, Merike; Kaljurand, Mihkel Procedia chemistry 2010 / p. 20-25 : ill

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

Analysis of total phenols, sugars, and mineral elements in colored tubers of *Solanum tuberosum* L.

Saar-Reismaa, Piret; Kotkas, Katrin; Rosenberg, Viive; Kulp, Maria; Kuhtinskaja, Maria; Vaher, Merike Foods 2020 / art. 1862 <https://doi.org/10.3390/foods9121862> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Anticancer Effect of the Iridoid Glycoside Fraction from *Dipsacus fullonum* L. Leaves

Kuhtinskaja, Maria; Bragina, Olga; Kulp, Maria; Vaher, Merike Natural product communications 2020 / p. 1-6

<https://doi.org/10.1177/1934578X20951417> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at WOS](#)

Antioxidative and anti-borrelia activity of phytochemicals in rubiaceae species

Laanet, Pille-Riin; Saar-Reismaa, Piret; Bragina, Olga; Jõul, Piia; Vaher, Merike FEBS3+ Conference of Estonian, Latvian and Lithuanian Biochemical Societies : abstract book : Tallinn, Estonia 15–17 June 2022 2022 / p. 104-105 https://biokeemiaselts.ee/wp-content/uploads/2022/06/ABSTRACT-BOOK_FEBS32022_Tallinn.pdf

Antioxidative and anti-borrelia effects of plantago species

Laanet, Pille-Riin; Drošnova, Regina; Saar-Reismaa, Piret; Bragina, Olga; Vaher, Merike Proceedings 2023 / art. 6

<https://doi.org/10.3390/proceedings2023092006>

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

Authentication of medicinal cannabis by electrophoretic fingerprints

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

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

Vaher, Merike; Borissova, Maria; Seiman, Andrus; Aid, Tiina; Kolde, Helen; Kazarjan, Jana; Kaljurand, Mihkel Food chemistry 2014 / p. 465-471 : ill

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

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Kamsol, Kristjan; Orav, Anne; Kaljurand, Mihkel Journal of chromatography A 2007 / p. 222-229 : ill

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

Bioaktiivsete ühendite lahutamise ja antioksidatiivsuse hindamine maavitsaliste perekonda Solanaceae kuuluvatel taimedel

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

Cannabinoids (Δ^9 -THC and CBD) quantitative analysis by in-situ portable drug analyzer Drug Hunter

Gorbatšova, J; Bolkvadze, V; Vaher, Merike; Halling, Evelin; Mazina-Šinkar, Jekaterina Flow Analysis XV, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 155

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

Cannabinoids (Δ^9 -THC and CBD) quantitative analysis by in-situ portable drug analyzer Drug Hunter

Gorbatšova, Jelena; Bolvadze, Vyacheslav; Vaher, Merike; Halling, Evelin; Mazina-Šinkar, Jekaterina Flow Analysis XV, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 155

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

Capillary electrophoresis as a monitoring tool for flow composition determination

Kaljurand, Mihkel; Saar-Reismaa, Piret; Vaher, Merike; Gorbatšova, 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 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 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 electrophoretic analysis of neutral carbohydrates using ionic liquids as background electrolytes

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

Capillary electrophoretic monitoring of 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 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 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

Carbon aerogel-based solid-phase microextraction coating for the analysis of organophosphorus pesticides

Jõul, Piia; **Vaher, Merike**; **Kuhtinskaja, Maria** Analytical methods 2021 / p. 69–76 : ill <https://doi.org/10.1039/D0AY02002H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Catalytic conversion of recalcitrant glycopolymers : investigation of saccharification and isomerisation in ionic liquids = Tõrksate glükopolümeeride katalüütiline konversioon : sahharifikatsiooni ja isomerisatsiooni uurimine ioonsetes vedelikes

Kontson, Tiina 2021 https://www.ester.ee/record=b5473795*est <https://digikogu.taltech.ee/et/Item/afdb8f5d-41a6-4bfb-9a66-05653b60c076> <https://doi.org/10.23658/taltech.63/2021>

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

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

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

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

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

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

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

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

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

Truus, Kalle; **Vaher, Merike**; **Borissova, Maria**; Robal, Marju; **Levandi, Tuuli**; Tuvikene, Rando; Toomik, Peeter; **Kaljurand, Mihkel** Natural product communications 2012 / p. 1143-1146 : ill

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

Chemical analysis of dumped chemical warfare agents during the MODUM project

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

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

Pedastsaar, Priit; **Vaher, Merike**; **Helmja, Kati**; **Kulp, Maria**; **Kaljurand, Mihkel**; Karp, Kadri; Raal, Ain; Karathanos, Vaivos; Püssa, Tõnu Proceedings of the Estonian Academy of Sciences 2014 / p. 444-453 : ill https://artiklid.elnet.ee/record=b2707387*est

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

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

Comparative determination of microelements in Baltic seawater and brown algae samples by atomic absorption spectrometric and inductively coupled plasma methods

Truus, Kalle; **Viitak, Anu**; **Vaher, Merike**; **Muinasmaa, Urmas**; **Paasrand, Keddy**; Tuvikene, Rando; **Levandi, Tuuli** Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 3, p. 122-133 : ill

Comparative fingerprint of medicinal herb polyphenols and chemometric analysis

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

Comparative study of antioxidant capacity of Rheum rhaponticum root polyphenols

Raudsepp, Piret; **Helmja, Kati**; Raal, Ain; **Vaher, Merike**; Püssa, Tõnu XXIVth International Conference on Polyphenols : 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/?899> https://www.ester.ee/record=b2948245*est

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 composition of phenolic acids and antioxidativity of different wheat varieties

Matso, Kersti; Levandi, Tuuli; Helmja, Kati; Vaher, Merike 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. 116

Complex investigation of composition of the brown alga *Fucus vesiculosus* (The Baltic Sea) by different instrumental methods

Vaher, Merike; Truus, Kalle; **Koel, Mihkel; Pehk, Tõnis;** Taure, Imants; **Viitak, Anu** IMA'03 : 3rd International Conference : Instrumental Methods of Analysis Modern Trends and Applications : 23-27 September 2003, Thessaloniki, Greece : conference proceedings 2003 / p. 238-240 : ill

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

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

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

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

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

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

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

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

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

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

Determination of metal content in superoxide dismutase enzymes by capillary electrophoresis

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

Determination of metallic and non-metallic elements in coastal seawater and in algal biomass by atomic absorption spectrometry using colloidal palladium modifier

Viitak, Anu; Volynsky, Anatoly B.; Truus, Kalle; **Vaher, Merike; Levandi, Tuuli** 4th International Conference, Instrumental Methods of Analysis Modern Trends and Applications 2005 / p. 371

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 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 <http://dx.doi.org/10.1002/elps.201500293>

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

Lees, Heidi; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2017 / p. 1075-1082 : ill <http://dx.doi.org/10.1002/elps.201600418>

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

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

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

Lees, Heidi 2018 <https://digi.lib.ttu.ee/i/?10379>

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

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

Development of 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 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 <http://dx.doi.org/10.1002/elps.201500284>

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

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

Eesti rannikumere pruunvetikad indikaatorina Läänemere toksiliste elementide reostuse hindamisel

Levandi, Tuuli; Viitak, Anu; Truus, Kalle; Paasrand, Keddy; Tuvikene, Rando; Vaher, Merike XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 56-57

Eesti suur käis terviseuuringutel

Vaher, Merike Mesinik : mesindusajakiri 2023 / lk. 27-29 : fot https://www.ester.ee/record=b1072594*est

Eesti teadlased püüavad puukborrelioosi seljatada kohalike ravimtaimedega

Laanet, Pille-Riin; Vaher, Merike goodnews.ee 2023 [Eesti teadlased püüavad puukborrelioosi seljatada kohalike ravimtaimedega](#)

Electrophoretic mobilities in nonaqueous capillary electrophoresis

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

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

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

Erinevate taustelektrolüütide kasutamine neutraalsete suhkrute 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

Evaluation of carbon aerogel-based solid-phase extraction sorbent for the analysis of sulfur mustard degradation products in environmental water samples

Jõul, Piia; Vaher, Merike; Kuhtinskaja, Maria Chemosphere 2018 / p. 460-468 <https://doi.org/10.1016/j.chemosphere.2018.01.157>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Extraction and analysis of bioactive compounds from *Dipsacus fullonum* and *Galium verum* for Lyme borreliosis treatment

Kuhtinskaja, Maria; Vaher, Merike Biomedical journal of scientific & technical research 2018 / p. 8614-8616 : ill
<http://doi.org/10.26717/BJSTR.2018.11.002121>

Extraction and determination of total phenolic contents, flavonoid contents, and volatile compounds in *Epilobium angustifolium* and *Cannabis sativa* varieties

Düüna, Kristin; Jõul, Piia; Vaher, Merike Proceedings 2023 / art. 21 <https://doi.org/10.3390/proceedings2023092021>

Extraction and fractionation of bioactives from *dipsacus fullonum* L. leaves and evaluation of their anti-borrelia activity

Saar-Reismaa, Piret; Bragina, Olga; Kuhtinskaja, Maria; Reile, Indrek; Laanet, Pille-Riin; Kulp, Maria; Vaher, Merike Pharmaceuticals 2022 / 12 p. : ill <https://doi.org/10.3390/ph15010087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extraction and quantification of hybrid carrageenans from the biomass of the red algae *Furcellaria lumbricalis* and *Coccotylus truncatus*

Tuvikene, Rando; Truus, Kalle; Vaher, Merike; Kailas, Tiit; Martin, Georg; Kersen, Priit Proceedings of the Estonian Academy of Sciences. Chemistry 2006 / 1, p. 40-53 : ill

Extraction of bioactive compounds from *Catharanthus roseus* and *Vinca minor*

Koel, Mihkel; Kuhtinskaja, Maria; Vaher, Merike Separation and purification technology 2020 / art. 117438 ; 5 p. : ill
<https://doi.org/10.1016/j.seppur.2020.117438> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extraction of bioactive compounds from *Dipsacus fullonum* leaves using deep eutectic solvents

Saar-Reismaa, Piret; Koel, Mihkel; Tarto, Riin; Vaher, Merike Journal of chromatography A 2022 / art. 463330
<https://doi.org/10.1016/j.chroma.2022.463330> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extraction of polyphenols from plants with modified supercritical carbon dioxide

Sokolova, Maia; Vaher, Merike; Koel, Mihkel Proceedings of the 8th Meeting on Supercritical Fluids. Chemical Reactivity and Material Processing in Supercritical Fluids, 2002, Nice. Tome 2 2002 / p. 885-888

Fenoolsete ühendite sisaldus ja antioksidatiivsus erinevates niusortides ja nisutera fraktsioonides

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

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
<http://dx.doi.org/10.1016/j.talanta.2015.02.050>

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

Future perspective of in situ soil analysis

Leinus, Mari-Liis; Jõul, Piia; Rūžicka, Martin; Gorbatošova, Jelena; Vaher, Merike; Shimmo, Ruth; Mazina-Šinkar, Jekaterina Proceedings 2023 / art. 10 <https://doi.org/10.3390/proceedings2023092010>

Glutatiooni analoogide mõju raku redokstsükli ensüümide aktiivsusele

Mahlapuu, Riina; **Vaher, Merike**; Ida, Katrin; Soomets, Ursel XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 52

Green analytical chemistry : setting a strategic direction

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

Green Chemistry and reconsidering simple analytical methods

Jõul, Piia; Kuhtinskaja, Maria; Vaher, Merike; Koel, Mihkel Chimica Oggi = Chemistry today 2017 / p. 32-34 : ill

<http://www.teknoscienze.com/chemistry-today/>

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

Hübrüidised karraginaanid punavetikate *Furcellaria lumbricalis* ja *Coccotylus truncatus* koosluse biomassist

Tuvikene, Rando; Truus, Kalle; **Vaher, Merike**; Kersen, Priit XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 123-124

Identification of bioactive compounds in leaves and stems of *Aegopodium podagraria* by various analytical technics

Orav, Anne; Viitak, Anu; Helmja, Kati; Vaher, Merike 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. 144

Identification of bioactive compounds in the leaves and stems of *Aegopodium podagraria* by various analytical techniques

Orav, Anne; Viitak, Anu; Vaher, Merike Procedia chemistry 2010 / p. 152-160 : 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

The influence of organic solvents on phenylethylamines in capillary zone electrophoresis

Bolkvadze, Vyacheslav; Bondar, Denys; Vaher, Merike; Halling, Evelin; Gorbatsšova, 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](#)

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

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

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

Lees, Heidi; Vaher, Merike; Kaljurand, Mihkel CECE 2016 : 13th International Interdisciplinary Meeting on Bioanalysis : October 17-19, 2016, Hotel Continental, Brno, Czech Republic : [proceedings] 2016 / p. 182-185 : ill http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016_WOS.pdf

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

Vaher, Merike; Viitak, Anu; Makarõtševa, Natalja; Muinasmaa, Urmas; Kaljurand, Mihkel 16th International Symposium on Capillary Electrophoresis Techniques : Catania, Italy, August 31-September 4, 2008 : book of abstracts 2008 / p. 80

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

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

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

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

Ionic liquids as background electrolyte additives in capillary electrophoresis

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

Ionic liquids as electrolytes for nonaqueous capillary electrophoresis

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

Ionic liquids 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 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

Ioonised vedelikud neutraalsete suhkrute analüüsis kapillaarelektroforeesi meetodil

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

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

Lignotselluloosse biomassi eeltöötlus ioonsete vedelikuga

Aid, Tiina; Koel, Mihkel; Vaher, Merike XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 11

Macaronesian plants as promising biopesticides against the crop pest *Ceratitis capitata*

Tavares, W. R.; Jimenez, I. A.; Oliveir, L.; **Kuhtinskaja, Maria; Vaher, Merike**; Ros, J. S.; Seca, A. M. L.; Bazzocchi, I. L.; Barreto, M. C. Plants 2023 / art. 4122 <https://doi.org/10.1177/251512742312182>

Metal-catalyzed degradation of cellulose in ionic liquid media

Aid, Tiina; Koel, Mihkel; Lopp, Margus; Vaher, Merike Inorganics 2018 / art. 78, 11 p. : ill <https://doi.org/10.3390/inorganics6030078>
[Journal metrics at Scopus](#) [Article at Scopus](#)

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

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

Micellar electrokinetic chromatography method for the analysis of synthetic and phytocannabinoids

Laanet, Pille-Riin; Vaher, Merike; Saar-Reismaa, Piret Journal of chromatography A 2022 / art. 463080
<https://doi.org/10.1016/j.chroma.2022.463080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 biomass degradation, isomerization of glucose to fructose and conversion to 5-HMF in ionic liquids by CE

Aid, Tiina; Lopp, Margus; Vaher, Merike 40th International Symposium on Capillary Chromatography and 13th GC×GC Symposium : May 29 - June 03, 2016, Riva del Garda Fierecongressi, Riva del Garda, Italy : abstract book 2016 / p. 271

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 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

Monitoring the redox cycle of low-molecular peptides using a modified target plate in MALDI-MS

Borissova, Maria; Mahlapuu, Riina; **Vaher, Merike** Talanta 2010 / p. 274-280

Narkotestri arendamine narkootikumide tuvastamiseks süljes

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

https://www.ester.ee/record=b5208044*est

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

NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program

2009 https://www.ester.ee/record=b2508733*est

On-column capillary electrophoretic monitoring of rapid reaction kinetics for determination of the antioxidative potential of various bioactive phenols

Vaher, Merike; **Ehala, Sille**; **Kaljurand, Mihkel** Electrophoresis 2005 / p. 990-1000 : ill

On-plate concentration and analysis of low-molecular compounds using hydrophobic surfaces in MALDI MS

Borissova, Maria; **Vaher, Merike** 25th International Symposium on Microscale BioSeparations MSB 2010 : Prague, Czech Republic : abstract book 2010 / p. 182

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

<http://dx.doi.org/10.1016/j.chroma.2016.04.027>

Oxidation products of free polyunsaturated fatty acids in wheat varieties

Levandi, Tuuli; Püssa, Tõnu; **Vaher, Merike**; **Toomik, Peeter**; **Kaljurand, Mihkel** European journal of lipid science and technology 2009 / 7, p. 715-722 : ill

Performing reactions in nanovolumes

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

Phenolic compounds and the antioxidant activity of the bran, flour and whole grain of different wheat varieties

Vaher, Merike; **Matso, Kersti**; **Levandi, Tuuli**; **Helmja, Kati**; **Kaljurand, Mihkel** Procedia chemistry 2010 / p. 76-82 : ill

<https://www.sciencedirect.com/science/article/pii/S1876619609004094>

Phytochemical screening and antioxidant activity of selected Estonian galium species

Laanet, Pille-Riin; **Saar-Reismaa, Piret**; **Jõul, Piia**; **Bragina, Olga**; **Vaher, Merike** Molecules 2023 / art. 2867

<https://doi.org/10.3390/molecules28062867>

Polüfenoolsete ühendite antioksidatiivsuse hindamine kapillaarelektroforeetiliselt ja vedelik-kromatograafiliselt

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

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 instrument

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

Portable fully automated oral fluid extraction device for illegal drugs

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

Portatiivne kapillaarelektroforeesi aparaat keskkonnareostuse analüüsiks

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

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

Levandi, Tuuli; Püssa, Tõnu; Vaher, Merike; Ingver, Anne; Koppel, Reine; Kaljurand, Mihkel Proceedings of the Estonian Academy of Sciences 2014 / p. 86-92 : ill https://artiklid.elnet.ee/record=b2665228*est

Pruunvetikate *Fucus vesiculosus* ja neist eraldatud alginaatide kompleksuuring

Truus, Kalle; Vaher, Merike; Saal, K.; Lõhmus, A.; Pehk, Tõnis XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 145

Rapid analysis of free fatty acid composition in *Brassica rapa* L. and *Brassica napus* L. extracts by surface-assisted laser desorption/ionization time-of-flight mass spectrometry

Borissova, Maria; Palk, Klairy; Vaher, Merike Procedia chemistry 2010 / p. 174-179 : 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 <http://dx.doi.org/10.1039/c5ay01595b>

Red algal galactans: nature-reserving isolation, analysis and possible applications in nanotechnology

Tuvikene, Rando; Truus, Kalle; Kallavus, Urve; Vaher, Merike; Pehk, Tõnis Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 120 : ill

Research of algal polysaccharides and related natural compounds in Estonia

Truus, Kalle; Vaher, Merike Proceedings of the Estonian Academy of Sciences. Chemistry 2003 / 1, p. 20-37 : 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 <http://dx.doi.org/10.1016/j.indcrop.2016.08.017>

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

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

Screening of Estonian plants for anti-borrelia phytochemicals

Laanet, Pille-Riin; Bragina, Olga; Saar-Reismaa, Piret; Vaher, Merike 16th International Scientific Conference THE VITAL NATURE SIGN : ABSTRACT BOOK : May 12th-13th, 2022 Kaunas, Lithuania 2022 / p. 68 http://vns.microsep.org/wp-content/uploads/2022/05/VNS-2022_Abstract-book-FINAL.pdf

Separation of aromatic hydrophobic sulfonates by micellar electrokinetic chromatography

Ehala, Sille; Vaher, Merike; Kaljurand, Mihkel Journal of chromatography A 2007 / p. 322-326 : ill

<https://www.sciencedirect.com/science/article/pii/S0021967307009818>

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

Kazarjan, Jana; Vaher, Merike; Mahlapuu, Riina; Hansen, Mats; Soomets, Ursel; **Kaljurand, Mihkel** Electrophoresis 2013 / p. 1820-1827 : ill

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

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

Separation of 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

Simple multispectral imaging approach for determining the transfer of explosive residues in consecutive fingerprints

Lees, Heidi; Zapata, Félix; Vaher, Merike; García-Ruiz, Carmen Talanta 2018 / p. 437-445 : ill

<https://doi.org/10.1016/j.talanta.2018.02.079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <http://dx.doi.org/10.1039/C7AY00742F>

Specific background electrolytes for nonaqueous capillary electrophoresis

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

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

Structural and compositional characteristics of gelling galactan from the red alga *Ahnfeltia tobuchiensis* (Ahnfeltiales, the sea of Japan)

Truus, Kalle; Tuvikene, Rando; **Vaher, Merike; Kailas, Tiiu;** Toomik, Peeter; **Pehk, Tõnis** Carbohydrate polymers 2005 / [6] p. : ill. [ilmumas?]

https://www.researchgate.net/publication/229420426_Structural_and_compositional_characteristics_of_gelling_galactan_from_the_red_alga_Ahnfeltia_tobuchiensis_Ahnfeltiales_the_Sea_of_Japan

Structural and compositional characteristics of gelling galactan from the red alga *Ahnfeltia tobuchiensis* (Ahnfeltiales, the Sea of Japan)

Truus, Kalle; Tuvikene, Rando; **Vaher, Merike; Kailas, Tiiu;** Toomik, Peeter; **Pehk, Tõnis** Carbohydrate polymers 2006 / p. 130-135 : ill https://www.sciencedirect.com/translate.google/science/article/abs/pii/S0144861705003759?x_tr_sl=en&x_tr_tl=et&x_tr_hl=et&x_tr_pto=sc

Structure and thermal stability of pyruvated carrageenans from the red alga *Coccotylus truncatus*

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Pehk, Tõnis; Kailas, Tiiu; Vaher, Merike;** Paalme, Tiina Carbohydrate research 2009 / p. 788-794 : ill <https://www.sciencedirect.com/science/article/pii/S0008621509000366>

A study of primary oxidation products of free polyunsaturated fatty acids in wheat varieties

Vaher, Merike; Levandi, Tuuli; Püssa, Tõnu; Toomik, Peeter; **Kaljurand, Mihkel** Proceedings of World Congress on Oils and Fats & 28th ISF Congress : Sydney, Australia, 27-30 September 2009 / ? p

Study of the adhesion of explosive residues to the finger and transfer to clothing and luggage

Lees, Heidi; Zapata, Felix; Vaher, Merike; García-Ruiz, Carmen Science & Justice 2018 / p. 415-424

<https://doi.org/10.1016/j.scjus.2018.07.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sugar and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass

Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; **Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel** UBIOCHEM IV : 4th International Workshop of COST Action CM0903 : 14-16 October, 2013, Valencia, Spain : book of abstracts 2013 / p. 42

Sugars and sugar derivatives in ionic 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

Teaduspreemia keemia ja molekulaarbioloogia alal teadustööde tsükli "Elektromigratsioonilised meetodid bioprotsesside analüüsis" eest : Mihkel Kaljurand (kollektiivi juht), Mihkel Koel, Merike Vaher

Kaljurand, Mihkel; Koel, Mihkel; Vaher, Merike Eesti Vabariigi teaduspreemiad 2007 2007 / lk. 54-65 : fot., ill

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

The development of a handheld automatic drugmeter for quantitative analysis of γ -hydroxybutyric acid

Růžička, 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 development of paper microzone-based green analytical chemistry methods for determining the quality of wines

Vaher, Merike; Kaljurand, Mihkel Analytical and bioanalytical chemistry 2012 / [7 p.] : ill

https://www.researchgate.net/publication/221877797_The_development_of_paper_microzone-based_green_analytical_chemistry_methods_for_determining_the_quality_of_wines

The evaluation of the oxidation capability of bioactive compounds of Solanum melongena by capillary electrophoresis and by HPLC-MS/MS

Helmja, Kati; Vaher, Merike; Püssa, Tõnu; Kaljurand, Mihkel XXIVth International Conference on Polyphenols : Polyphenols Communications 2008 : Salamanca, 8th-11th July 2008. Volume 1 2008 / p. 165-166 : ill

The extraction, structure, and gelling properties of hybrid galactan from the red alga Furcellaria lumbricalis (Balti Sea, Estonia)

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis**; Kollist, Andres; **Kailas, Tiit; Vaher, Merike** Journal of applied phycology 2009 / [13] p.: ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

The extraction, structure, and gelling properties of hybrid galactan from the red alga Furcellaria lumbricalis (Baltic Sea, Estonia)

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis**; Kollist, Andres; **Kailas, Tiit; Vaher, Merike** Journal of applied phycology 2010 / p. 51-63 : ill

The pretreatment of lignocellulosic biomass with ionic liquids

Aid, Tiina; Hyvärinen, S.; **Koel, Mihkel; Vaher, Merike** UBIOCHEM IV : 4th International Workshop of COST Action CM0903 : 14-16 October, 2013, Valencia, Spain : book of abstracts 2013 / p. 43

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

Tselluloosi hüdroolüüs ioonses vedelikus

Helmja, Kati; Vaher, Merike XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 25

Täna on teadusnaistepäev: sõna võtavad loodusteadlased

Spuul, Pirjo; Velthut-Meikas, Agne; Vaher, Merike postimees.ee 2023 [Täna on teadusnaistepäev: sõna võtavad loodusteadlased](#)

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

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

Use of neoteric solvents in biomass treatment

Vaher, Merike; Saar-Reismaa, Piret; Kuhtinskaja, Maria; Koel, Mihkel Proceedings 2023 / art. 39

<https://doi.org/10.3390/proceedings2023092039>

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

Värvilistes *Solanum tuberosum* L. mugulates sisalduvate üldfenoolide, suhkrute ja mineraalelementide analüüs

Kotkas, K.; Rosenberg, Viive; **Kulp, Maria; Vaher, Merike** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 43 : ill https://www.ester.ee/record=b5208044*est

Эстонские ученые исследуют лекарственные растения для борьбы с боррелиозом

Vaher, Merike; Laanet, Pille-Riin rus.err.ee 2023 [Эстонские ученые исследуют лекарственные растения для борьбы с боррелиозом](#)