

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 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

Analytical quality by design concept in environmental analysis

Jurjeva, Jelena; Koel, Mihkel Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 22 ; oral 12
https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

Application of Knudsen effusion methods to study the vaporization of compounds from complex matrices

Oja, Vahur Proceedings of the 23rd European Symposium on Applied Thermodynamics : Cannes, France, 29 May - 1 June, 2008 2008 / p. 228

Assessment of blood contamination in biological fluids using MALDI-TOF MS

Laks, Katrina; Kirsipuu, Tiina; Dmitrijeva, Tuuli; Salumets, Andres; Palumaa, Peep The protein journal 2016 / 171-176
<https://doi.org/10.1007/s10930-016-9657-y> 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

Cell type-specific labelling of newly synthesized proteins by puromycin inactivation

Cabrera-Cabrera, Florencia; Tull, Helena; Capuana, Roberta; Kasvandik, Sergo; Timmusk, Tõnis; Koppel, Indrek Journal of biological chemistry 2023 / art. 105129, 12 p. : ill <https://doi.org/10.1016/j.jbc.2023.105129> Journal metrics at Scopus Article at Scopus

Characterisation of the aroma profiles of different honeys and corresponding flowers using solid-phase microextraction and gas chromatography-mass spectrometry/olfactometry

Seisonen, Sirli; Kivima, Evelin; Vene, Kristel Food chemistry 2015 / p. 34-40 : ill <https://doi.org/10.1016/j.foodchem.2014.07.125> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Characterization of bitter off-taste stimuli in sunflower press cake using the sensomics approach

Huseynli, Lachinkhanim; Gigl, Michael; Müller, Jasmin; Walser, Christoph; Frank, Oliver; Vene, Kristel; Dawid, Corinna Journal of agricultural and food chemistry 2025 / p. 23548-23559 <https://doi.org/10.1021/acs.jafc.5c07283>

Chemical composition of essential oil of common juniper (*Juniperus communis* L.) branches from Estonia

Raal, Ain; Komarov, Rostislav; Orav, Anne; Kapp, Karmen; Grytsyk, Andriy; Koshovy, Oleh ScienceRise: Pharmaceutical Science 2022 / p. 66 - 73 <https://doi.org/10.15587/2519-4852.2022.271048> Journal metrics at Scopus Article at Scopus

Chromatographic analysis of cyclohexano-substituted hemicucurbiturils and characterization of their intermediates with mass spectrometry = Tsükloheksaano-asendatud hemikukurbituriilide kromatograafiline analüüs ning nende vaheühendite mass-spektromeetiline iseloomustamine

Fomitšenko, Maria 2017 http://www.ester.ee/record=b4748237*est <https://digi.lib.ttu.ee/i/?9122>

Chromosome 19 annotations with disease speciation : a first report from the global research consortium

Nilsson, Carol Lynn; Berven, Frode Steingrimsen; Selheim, Frode; Liu, Huiling; Moskal, Joseph R.; Kroes, Roger A.; Sulman, Erik P.; Conrad, Charles A.; Lang, Frederick F.; Andrén, Per Erik; Nilsson, Anna; Carlsohn, Elisabet; Fehniger, Thomas Edward; Lindberg, Henrik Journal of Proteome Research 2013 / p. 135 - 150 <https://doi.org/10.1021/pr3008607> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Co-gasification of biomass and oil shale under CO₂ atmosphere : comparative analysis of fixed-bed reactor, gas chromatography and thermogravimetric analysis coupled with mass spectroscopy (TGA-MS)

Sinisaalu, Mari; Järvik, Oliver; Mets, Birgit; Konist, Alar Bioresource technology 2024 / art. 130086
<https://doi.org/10.1016/j.biortech.2023.130086> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of different extraction methods for simultaneous determination of B complex vitamins in nutritional yeast using LC/MS-TOF and stable isotope dilution assay

Hälvin, Kristel; Paalme, Toomas; Nisamedtinov, Ildar Analytical and bioanalytical chemistry 2013 / p. 1213-1222 : ill
<https://pubmed.ncbi.nlm.nih.gov/23150051/> <https://doi.org/10.1007/s00216-012-6538-x> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of different extraction methods to determine free and bound forms of B-group vitamins in quinoa
Hälvin, Kristel; Nisamedtinov, Ildar; Paalme, Toomas Analytical and bioanalytical chemistry 2014 / p. 7355-7366 : ill
<https://doi.org/10.1007/s00216-014-8122-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Correlation queries for mass spectrometry imaging

Suits, Frank; **Fehniger, Thomas Edward**; Végvári, Ákos; Marko-Varga, György; Horvatovich, Peter Analytical Chemistry 2013 / p. 4398 - 4404 <https://doi.org/10.1021/ac303658t> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of B-group vitamins in food using an LC-MS stable isotope dilution assay = B-grupi vitamiinide määramine toiduainetes kasutades LC-MS isotoop-lahjenduse meetodit

Hälvin, Kristel 2014 https://www.ester.ee/record=b4436558*est

Determining aroma compounds using GC/MS

Kaseleht, Kristel; Paalme, Toomas Food and nutrition = Toit ja toitumine 2007 / p. 80-83

Direct demonstration of tissue uptake of an inhaled drug: proof-of-principle study using matrix-assisted laser desorption ionization mass spectrometry imaging

Fehniger, Thomas Edward; Vegvari, Akos; Rezeli, Melinda; **Prikk, Kaiu**; **Ross, Peeter**; Dahlbäck, Magnus; Edula, Goutham; **Sepper, Ruth**; **Marko-Varga, György** Analytical chemistry 2011 / p. 8329-8336 : ill <https://pubs.acs.org/doi/10.1021/ac2014349>

Effect of storage on the essential oil composition of Piper nigrum L. fruits of different ripening states

Orav, Anne; **Stulova, Irina**; **Kailas, Tiit**; **Müürisepp, Aleksander-Mati** Journal of agricultural and food chemistry 2004 / p. 2582-2586 <https://pubmed.ncbi.nlm.nih.gov/15113161/>

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/>

Erratum to: Assessment of Blood Contamination in Biological Fluids Using MALDI-TOF MS (Protein J, 10.1007/s10930-016-9657-y)

Laks, Katrina; **Kirsipuu, Tiina**; **Dmitrijeva, Tuuli**; **Salumets, Andres**; **Palumaa, Peep** Protein Journal 2016 / p. 177 - 178
<https://doi.org/10.1007/s10930-016-9660-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evidence for non-isostructural replacement of Zn(2+) with Cd(2+) in the beta-domain of brain-specific metallothionein-3

Palumaa, Peep; **Njunkova, Olga**; **Pokras, Lesja**; **Eriste, Elo**; **Jornvall, H.**; **Sillard, Rannar** FEBS letters 2002 / 1/3, p. 76-80 : ill
<https://www.sciencedirect.com/science/article/pii/S0014579302031691>

Hemicucurbit[n]urils for extraction of neutral heterocycles from water

Shalima, Tatsiana; **Kamini, Mihsra**; **Kaabel, Sandra**; **Aav, Riina** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 77 : ill <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Human Sco1 functional studies and pathological implications of P174L mutant

Banci, Lucia; **Bertini, Ivano**; **Palumaa, Peep**; **Sillard, Rannar** Proceedings of the National Academy of Sciences of the United States of America 2007 / 1, p. 15-20
https://www.researchgate.net/publication/6617178_Human_Sco1_functional_studies_and_pathological_implications_of_the_P174L_mutant

Identification and relative quantification of proteins in Escherichia coli proteome by “up-front” collision-induced dissociation

Arike, Liisa; **Nahku, Ranno**; **Borissova, Maria**; **Adamberg, Kaarel**; **Vilu, Raivo** European journal of mass spectrometry 2010 / 2, p. 227-235 <https://pubmed.ncbi.nlm.nih.gov/20212332/>

Identification of terpenes by gas chromatography - mass spectrometry

Orav, Anne Current practice of gas chromatography - mass spectrometry 2001 / p. 483-493

Influence of oil shale ash addition on thermophysical processes in an illitic clay during heating

Csaki, Štefan; **Kaljuvee, Tiit**; **Štubna, Igor**; **Dobron, Patrik**; **Vozar, Libor** ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : book of abstracts 2017 / p. 579
<https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

Instrumentaalanalüüs

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

Interaction between the cesium cation and cesium carboxylates : an extended Cs⁺ basicity scale

Mayeux, Charly; Tammiku-Taul, Jaana; Massi, Lionel; Gal, Jean-François; Burk, Peeter ChemPlusChem 2013 / p. 1195 - 1204
<https://doi.org/10.1002/cplu.201300181> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigating the pyrolysis of oil shale using TGA-MS [Online resource]

Maaten, Birgit; Konist, Alar; Siirde, Andres Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

Investigation of the evolution of sulphur during the thermal degradation of different oil shales

Maaten, Birgit; Loo, Lauri; Konist, Alar; Pihu, Tõnu; Siirde, Andres Journal of analytical and applied pyrolysis 2017 / p. 405-411 : ill <https://doi.org/10.1016/j.jaap.2017.09.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Isolated Potato Virus A coat protein possesses unusual properties and forms different short virus-like particles

Ksenofontov, Alexander L.; Dobrov, Eugeny N.; Fedorova, Natalia V.; Paalme, Viuu; Järvekülg, Lilian Journal of biomolecular structure and dynamics 2017 / p. 1-11 : ill <https://doi.org/10.1080/07391102.2017.1333457> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Isolation and identification of novel non-dairy starter culture candidates from plant matrix using backslipping propagation

Anderson, Maret; Kazantseva, Jekaterina; Kallastu, Aili; Jakobson, Taaniel; Sarand, Inga; Kütt, Mary-Liis Fermentation 2024 / art. 663 <https://doi.org/10.3390/fermentation10120663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mass-spectrometric analysis of sobemovirus VPg-s reveals an unusual diversity and a novel chemical bond between RNA and a protein

Olsper, Allan; Uffert, Gabriela; Kamsol, Kristjan; Peil, Lauri; Truve, Erkki Green viruses, from gene to landscape : Embo workshop : 7-11 September 2013, Hyères-les-Palmiers, France : programme and abstracts book 2013 / p. 47

Mass-spectrometric analysis of sobemoviruses reveals a novel chemical bond between RNA and a protein

Olsper, Allan; Peil, Lauri; Truve, Erkki FESPB-EPSO Plant Biology Congress : Freiburg, 29 July - 3 Aug. 2012 2012 / p. 715

Mass-spectrometric analysis of sobemoviruses reveals a novel chemical bond between RNA and a protein

Olsper, Allan; Peil, Lauri; Truve, Erkki 10th International Congress on Plant Molecular Biology : Jeju, October 21-26, 2012 2012 <https://www.etis.ee/Portal/Publications/Display/421bdd53-9f44-4166-8907-466d8c130f62>

Mechanosynthesis of hemicucurbiturils and their complexation : an analytical study = Hemikukurbituriilide mehhanosünteesi ja nende komplekseerimise analüüs

Jarg, Tatsiana 2024 https://www.ester.ee/record=b5702876*est <https://digikogu.taltech.ee/et/Item/dad72c56-32af-4ff4-b59d-24ee5e97b842> <https://doi.org/10.23658/taltech.57/2024>

Metal binding of metallothionein-3 versus metallothionein-2 : lower affinity and higher plasticity

Palumaa, Peep; Tammiste, Indrek; Kruusel, Keiu; Kangur, Liina; Jörnval, Hans; Sillard, Rannar Biochimica et biophysica acta : proteins and proteomics 2005 / 2, p. 205-211 : ill <https://www.sciencedirect.com/science/article/pii/S1570963904003164>

Metal binding to brain-specific metallothionein-3 studied by electrospray ionization mass spectrometry

Palumaa, Peep; Eriste, Elo; Kruusel, Keiu; Kangur, Liina; Jörnval, Hans; Sillard, Rannar Cellular and molecular biology 2003 / 5, p. 763-768 <https://pubmed.ncbi.nlm.nih.gov/14528913/>

Multiple mechanisms repress N-Bak mRNA translation in the healthy and apoptotic neurons

Jakobson, Madis; Jakobson, Maili; Llano, Olaya; Palgi, Jaan; Arumäe, Urmas Cell Death and Disease 2013 / art. e777 <https://doi.org/10.1038/cddis.2013.297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nanostructure-assisted laser desorption/ionization (NALDI) for analysis of peptides in milk and colostrum

Kütt, Mary-Liis; Malbe, M.; Stagsted, Jan Agronomy research 2011 / p. 415-430 : ill <https://agronomy.emu.ee/vol09Spec2/p09s206.pdf>

Nerve growth factor from Vipera lebetina venom

Paalme, Viuu; Trummal, Katrin; Samel, Mari; Tõnismägi, Külli; Järvekülg, Lilian; Vija, Heiki; Subbi, Juhan; Siigur, Jüri; Siigur, Ene Toxicon 2009 / 3, p. 329-336 : ill <https://www.sciencedirect.com/science/article/pii/S0041010109002438>

N-glycosylation site occupancy in human prostaglandin H synthases expressed in Pichia pastoris

Kukk, Kaia; Kasvandik, Sergo; Samel, Nigulas SpringerPlus 2014 / p. 1-9 : ill <https://doi.org/10.1186/2193-1801-3-436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Omega-3 fatty acid and B12 vitamin content in Baltic algae

Luhila, Önnela; Paalme, Tiina; Tanilas, Kristel; Sarand, Inga Algal Research 2022 / Art. 102860

On-line atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry

Daniel, Jürg M.; **Ehala, Sille**; Friess, Sebastian D.; Zenobi, Renato The analyst 2004 / p. 574-578 : ill
<https://pubs.rsc.org/en/content/articlelanding/2004/an/b404178j>

Optimising analytical methods for the determination of carbohydrates and their derivatives in diverse fermented matrices = Analüütiliste meetodite optimeerimine süsivesikute ja nende derivaatide määramiseks erinevates fermenteeritud maatriksites

Pismennõi, Dmitri 2024 <https://doi.org/10.23658/taltech.36/2024> https://www.ester.ee/record=b5691562*est
<https://digikogu.taltech.ee/et/Item/24b3f641-4305-4142-b258-3922096bcbd7>

Oxygen isotope compositions of conodonts – analytical challenges of in situ SIMS studies

Wudarska, Alicja; Wiedenbeck, Michael; **Hints, Oile; Männik, Peep; Lepland, Aivo**; Joachimski, Michael M.; Couffignal, Frederic; Scicchitano, Maria Rosa; Wilke, Franziska D. H. Estonian journal of earth sciences 2023 / p. 166 <https://doi.org/10.3176/earth.2023.39>

Petrography and the REE-composition of apatite in the Paleoproterozoic Pilgijärvi Sedimentary Formation, Pechenga Greenstone Belt, Russia

Joosu, Lauri; **Lepland, Aivo**; Kreitsmann, Timmu Geochimica et cosmochimica acta 2016 / p. 135-153 : ill
<https://doi.org/10.1016/j.gca.2016.04.043> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Pune eeterliku õli koostise mass-spektromeetiline määramine

Ivask, Kaire; Orav, Anne; Raal, Ain; Arak, Elmar XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 36

Quantitative analysis of oat (*Avena sativa* L.) and pea (*Pisum sativum* L.) saponins in plant-based food products by hydrophilic interaction liquid chromatography coupled with mass spectrometry

Bljahhina, Anastassia; Pismennõi, Dmitri; Kriščiunaite, Tiina; **Kuhtinskaja, Maria**; Kobrin, Eeva-Gerda Foods 2023 / art. 991, 16 p. : ill <https://doi.org/10.3390/foods12050991> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Quantitative electrospray ionization mass spectrometry of zinc finger oxidation : the reaction of XPA zinc finger with H₂O₂

Smirnova, Julia; Zhukova, Liliya; **Palumaa, Peep** Analytical biochemistry 2007 / 2, p. 226-231 : ill

Redox properties of Cys2His2 and Cys4 zinc fingers determined by electrospray ionization mass spectrometry

Smirnova, Julia; Kabin, Ekaterina; Tõugu, Vello; Palumaa, Peep FEBS Open Bio 2018 / p. 923 - 931 <https://doi.org/10.1002/2211-5463.12422> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The REE-composition and petrography of apatite in 2Ga Zaonega Formation, Russia: The environmental setting for phosphogenesis

Joosu, Lauri; **Lepland, Aivo**; Kirsimäe, Kalle; Romashkin, Alexander E.; Roberts, Nick M.W.; Martin, Adam P.; Črne, Alenka E. Chemical Geology 2015 / p. 88-107 <https://doi.org/10.1016/j.chemgeo.2014.11.013> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review of microbial and chemical assessment of indoor surfaces

Mihucz, Victor G.; **Ruus, Aime; Raamets, Jane**; Wimmerová, Lenka; Vera, Teresa; Bossi, Rossana; Huttunen, Kati Applied Spectroscopy Reviews 2022 / p. 817-889 <https://doi.org/10.1080/05704928.2021.1995870> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Simultaneous determination of water-soluble vitamins by capillary electrophoresis combined with MALDI-TOF

Mazina, Jekaterina; Gorbatošova, Jelena; Knjazeva, Tatjana; Kaljurand, Mihkel NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 117

Sobemovirus RNA linked to VPg over a threonine residue

Olsper, Allan; Arike, Liisa; Peil, Lauri; Truve, Erkki FEBS letters 2011 / p. 2979-2985 : ill <https://pubmed.ncbi.nlm.nih.gov/2185544/>

Study of essential oil from medicinal plants using gas chromatography and mass spectrometry

Raal, Ain; Arak, Elmar; Pudersell, K.; **Orav, Anne; Kailas, Tiit** European journal of pharmaceutical sciences 2003 / Supplement 1, XVII Helsinki University Congress of Drug Research, p. P2.1

TG-MS analysis and kinetic study of co-combustion of ca-rich oil shale with biomass in air and oxy-like conditions

Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar Carbon capture science & technology 2024 / art. 100162 <https://doi.org/10.1016/j.ccst.2023.100162> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Thermal behaviour of precursors for CuInS₂ thin films deposited by spray pyrolysis

Oja Acik, Ilona; Otto, Kairi; Krunks, Malle; Tõnsuaadu, Kaia; Mere, Arvo Journal of thermal analysis and calorimetry 2013 / p. 1455-1465 : ill <https://doi.org/10.1007/s10973-013-3155-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using a titanium-in-quartz geothermometer for crystallization temperature estimation of the Palaeoproterozoic Suursaari quartz porphyry

Ehrlich, Kairi; Verš, Evelin; Kirs, Juho; Soesoo, Alvar Estonian journal of earth sciences 2012 / p. 195-204 : ill https://artiklid.elnet.ee/record=b2551734*est

Исследование состава экстрактов хвойной зелени : магистрская работа

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

Синтез и масс-спектрометрические характеристики некоторых N-нитрозоаминокислот

Hamburg, Andres; Hamburg, Anu; Viden, I.; Kann, Jüri Канцерогенные N-нитросоединения и их предшественники - образование и определение в окружающей среде : тезисы докладов VII всесоюзного симпозиума 24-25 апреля 1990 г., Таллинн 1990 / с. 13 https://www.ester.ee/record=b1211250*est