

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 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](#)

Biotechnology of amylopectin oligosaccharides

Vokk, Raivo Int. J. of Biotechnol. BFE 1992 / 5, p. 299

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

Carbohydrate fermentation by non-starter lactic acid bacteria isolated from Danish cheese

Adamberg, Kaarel; Antonsson, M.; Ardö, Ylva; Waagner Nielsen, E.; Vogensen, Finn K. Food and nutrition = Toit ja toitumine 2002 / p. 104-105

Carbohydrate fermentation by non-starter lactic acid bacteria isolated from Danish cheese

Adamberg, Kaarel; Antonsson, M.; Ardö, Ylva; Waagner Nielsen, E.; Vogensen, Finn K. Future food - a scientific perspective abstract collection. LMC kongress at DTU, January 16-17, 2002, Denmark 2002 / p. 27

A chemoenzymatic stereoselective synthesis of deoxy sugar esters of amino acids

Villo, Ly; Pehk, Tõnis; Parve, Omar Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. ?

A chemoenzymatic synthesis of a deoxy sugar ester of N-Boc-protected L-tyrosine

Villo, Ly; Kreen, Malle; Kudrjašova, Marina; Metsala, Andrus; Tamp, Sven; Lille, Ülo; Pehk, Tõnis; Parve, Omar Practical methods for biocatalysis and biotransformations. 2 2012 / p. 335-339 <https://www.sciencedirect.com/science/article/pii/S1381117710002511>

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

Development and optimisation of HILIC-LC-MS method for determination of carbohydrates in fermentation samples

Pismennõi, Dmitri; Kiritsenko, Vassili; Marhivka, Jaroslav; Kütt, Mary-Liis; Vilu, Raivo Molecules 2021 / art. 3669, 10 p. : ill <https://doi.org/10.3390/molecules26123669> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enzyme analyses for determination of carbohydrates, amino acids and other compounds

Ralys, E.; Dienys, G.; Kraniuskas, V.; Iljaseviciene, D.; Sereikaite, J. Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 72

Fermentation of carbohydrates from cheese sources by non-starter lactic acid bacteria isolated from semi-hard Danish cheese

Adamberg, Kaarel; Antonsson, M.; Kask, Signe IDF Symposium on Cheese: Ripening, Characterization and Technology : book of abstracts 2004 / p. 33

Fermentation of carbohydrates from cheese sources by non-starter lactic acid bacteria isolated from semi-hard Danish cheese

Adamberg, Kaarel; Antonsson, M.; Vogensen, Finn K.; Nielsen, E.W.; Kask, Signe; Moller, Peter L.; Ardö, Ylva International dairy journal 2005 / 6/9, p. 873-882

Genome-scale metabolic modeling reveals metabolic trade-offs associated with lipid production in Rhodotorula toruloides

Rekena, Alina; Pinheiro, Marina J.; Bonturi, Nemailla; Belouah, Isma; Tammekivi, Eliise; Herodes, Koit; Kerkhoven, Eduard J.; Lahtvee, Petri-Jaan PLoS computational biology 2023 / art. e1011009 <https://doi.org/10.1371/journal.pcbi.1011009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Global, regional, and national consumption of sugar-sweetened beverages, fruit juices, and milk : a systematic assessment of beverage intake in 187 countries

Singh, Gitanjali M.; Micha, Renata; Khatibzadeh, Shahab; Shi, Peilin; Lim, Stephen; Andrews, Kathryn G.; Engell, Rebecca E.; Ezzati, Majid; Mozaffarian, Dariush; Fahimi, Saman; **Vaask, Sirje** PLoS ONE 2015 / art. e0124845

<https://doi.org/10.1371/journal.pone.0124845> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Glycosylation donors and their reactivities

Miller, Annette Balticum Organicum Syntheticum (BOS 2024) : Book of Abstracts 2024 / art. 155. p. 174

https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024_Abstract-Book.pdf

HILIC-LC-MS method for determination of carbohydrates in various food matrices

Pismennõi, Dmitri; Kobrin, Eeva-Gerda; Kütt, Mary-Liis; **Vilu, Raivo** Book of abstracts : 10th International Symposium on Recent Advances in Food Analysis : September 6–9, 2022 : Prague, Czech Republic 2022 / p. 337

<https://www.rafa2022.eu/pdf/Book%20of%20Abstracts%20RAFA%202022.pdf>

Interplay of monosaccharide configurations on the deacetylation with Candida Antarctica Lipase-m

Hunt, Kaarel Erik; **Miller, Annette**; Liias, Kristin; Jarg, Tatsiana; Kriis, Kadri; **Kanger, Tõnis** Journal of organic chemistry 2025 / p. 663-671 <https://doi.org/10.1021/acs.joc.4c02582>

Invertaasi saamine õllepärmist

Kann, Jüri; **Kask, Karl**; **Mühling, Anne** Konverentsi "Eesti keemiatööstuse toorainevarud rahvamajanduse teenistuses" ettekannete teesid : 9.-10. juunil 1970. a 1970 https://www.ester.ee/record=b1356064*est

Lipase-catalysed acyl transfer in deoxysugars : a computational study

Kaevand, Toomas; **Villo, Ly**; **Metsala, Andrus**; **Parve, Omar**; **Lille, Ülo** International journal of engineering and applied sciences (EAAS) 2015 / p. 1-7 : ill

Modification of higher generation polyamidoamine (PAMAM) dendrimers by saccharides

Peterson, Janek; **Allikmaa, Veiko**; Subbi, J.; **Lopp, Margus** International Conference on Organic Synthesis : BOS 2002, Vilnius 2002 / p. P053

Multifunctional chiral hydrogen and halogen bond containing catalysts in glycosylation reactions

Miller, Annette; **Hunt, Kaarel Erik** 13th Paul Walden Symposium : Program and abstracts 2023 / p. 51 https://walden.osi.lv/wp-content/uploads/2023/09/Abstract_book_Walden_2023.pdf

4. osa. Süsivesikud ja lipiidid

Biokeemia : lühikursus : õpik kõrgkoolidele 2016 / lk. 129-164 : ill

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>

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](#)

Polüamidoamiin (PAMAM) dendrimeeride kõrgemate põlvkondade modifitseerimine sahhariididega

Peterson, J.; **Allikmaa, Veiko**; **Subbi, J.**; **Lopp, Margus** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 100

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](#)

Selective deprotection of ester groups in pyranoses with Candida Antarctica Lipase-B

Hunt, Kaarel Erik; **Vilu, Raivo**; **Kanger, Tõnis** Balticum Organicum Syntheticum (BOS 2024) : Book of Abstracts 2024 / art. P41, p. 60 https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024_Abstract-Book.pdf

Stereoselective chemoenzymatic synthesis of deoxy sugar esters involving Candida antarctica lipase B = Desoksüsuhkru estrite stereoselektiivne kemoensümaatilise süntees kasutades Candida antarctica lipaasi B

Villo, Ly 2008 https://www.ester.ee/record=b2393878*est

Structural changes of starch during baking and staling of rye bread

Mihhalevski, Anna; Heinmaa, Ivo; Traksmäa, Rainer; Pehk, Tõnis; Mere, Arvo; Paalme, Toomas Journal of agricultural and food chemistry 2012 / p. 8492-8500 : ill <https://pubs.acs.org/doi/10.1021/jf3021877>

Study of cheese associated lactic acid bacteria under carbohydrate-limited conditions using D-stat cultivation

Adamberg, Kaarel; Adamberg, Signe; Laht, Tiit-Maie; Ardö, Ylva; Paalme, Toomas Food biotechnology 2006 / 2, p. 143-160 : ill <https://www.tandfonline.com/doi/abs/10.1080/08905430600709412>

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

Survival and synergistic growth of mixed cultures of bifidobacteria and lactobacilli combined with prebiotic oligosaccharides in a gastrointestinal tract simulator

Adamberg, Signe; Sumeri, Ingrid; Uusna, Riin; Adamberg, Kaarel Microbial ecology in health and disease 2014 / p. 1-9 : ill

Synthesis of 3,4-dideoxy ribose esters: a novel chemoenzymatic approach to synthesis of activated, extended-chain glycoconjugates

Villo, Ly; Danilas, Kady; Metsala, Andrus; Pehk, Tõnis; Parve, Omar International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 164

Synthesis of 6'-galactosyllactose, a deviant human milk oligosaccharide, with the aid of Candida antarctica lipase-B

Hunt, Kaarel Erik; Garcia-Sosa, Alfonso T.; Shalima, Tatsiana; Maran, Uko; Vilu, Raivo; Kanger, Tõnis Organic & biomolecular chemistry 2022 / p. 4724-4735 <https://doi.org/10.1039/D2OB00550F> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of deoxy sugar esters : a chemoenzymatic stereoselective approach affording deoxy sugar derivatives also in the form of aldehyde

Villo, Ly; Danilas, Kady; Metsala, Andrus; Kreen, Malle; Vallikivi, Imre; Vija, Sirje; Pehk, Tõnis; Luciano, Saso; Parve, Omar Journal of organic chemistry 2007 / p. 5813-5816 <https://pubs.acs.org/doi/10.1021/jo062640b>

A synthesis of deoxy sugar esters. Stereoselective acetylation of hemiacetals by CALB

Villo, Ly; Metsala, Andrus; Tamp, Sven; Pehk, Tõnis; Parve, Omar Biotrans 2011 : Italia, Giardini Naxos, 02.-05.10.2011 2011

Synthesis of key intermediate en route to novel carbasugar analogues

Niidu, Allan; Kislitsõn, Konstantin; Paju, Anne; Lopp, Margus Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. P0103

Targeting heparanase in cancer: inhibition by synthetic, chemically modified, and natural compounds

Mohan, Chakrabhavi Dhananjaya; Hari, Swetha; Preetham, Habbanakuppe D.; Rangappa, Shobith; Barash, Uri; Ilan, Neta; Nayak, S. Chandra; **Gupta, Vijai Kumar; Basappa, S.; Vlodavsky, Israel; Rangappa, Kanchugarakoppal S.** Iscience 2019 / p. 360 - 390 <https://doi.org/10.1016/j.isci.2019.04.034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Teadlane räägib, kui palju võib süüa liha ja kas liiter apelsinimahla on kahjulik

Liebert, Tiit postimees.ee 2023 [Teadlane räägib, kui palju võib süüa liha ja kas liiter apelsinimahla on kahjulik](#)

Teadus 3 minutiga : kust kasvaja endale energiat saab? [Võrguväljaanne]

Reinsalu, Leenu novaator.err.ee 2022 ["Teadus 3 minutiga: kust kasvaja endale energiat saab?"](#)

The influence of milk fat, pH and temperature on the viscosity of galacto-oligosaccharides and levan solutions

Eha, Kairit; Laos, Katrin Xlth International Conference of Food Physicists : Plovdiv, Bulgaria, 10-12 June, 2014 2014

Transesterification of monosaccharides with Candida antarctica lipase-B and their use in the synthesis of human milk oligosaccharides = Monosahhariidide ümberesterdamine Candida antarctica lipaas-B abil ja nende kasutamine rinnapiima oligosahhariidide sünteesis

Hunt, Kaarel Erik 2025 https://www.ester.ee/record=b5750735*est <https://digikogu.taltech.ee/et/Item/27bed832-f63e-4d97-ba29-f816dbe16e43> <https://doi.org/10.23658/taltech.45/2025>

Using carbohydrate counting as a meal planning approach for people with diabetes

Rajasalu, Piret Food and nutrition = Toit ja toitumine 2005 / p. 39-40

Влияние количества прессованных дрожжей на расход углеводов при сбраживании и на интенсивность процесса тестоведения

Kann, Aino; Ganzurova, Irina; **Tönsberg, V.** Технология пищевых производств. 1 1969 / с. 81-86

https://www.ester.ee/record=b1475909*est <https://digikogu.taltech.ee/et/Item/c67e3781-7e7b-43f5-8577-784c2a8ad0e1/>

Выращивание плесневого гриба *Asp. cryzae* 3-9-15 на сыворотке

Laos, A.; Kann, Aino XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и

Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов).

Математика, физика и химия 1970 / с. 61 https://www.ester.ee/record=b1379468*est

Перспективы увеличения сырьевых ресурсов углеводов путем ферментативного гидролиза олигосахаридов.

Применение иммобилизованных β -галактозидазы и β -фруктозидазы

Köstner, Ado Тезисы докладов III всесоюзного научного симпозиума "Получение и применение иммобилизованных

ферментов в научных исследованиях, промышленности и медицине" (1-2 окт. 1980 г.) 1980 / с. 41-42

Применение автоматического анализатора "Контифло" при определении содержания углеводов в некоторых хлебобулочных изделиях

Lipre, Endla; Veskus, Tiina; Nurmes, K.; Pank, R. Вопросы повышения качества пищевых продуктов 1986 / с. 37-44 : ил

https://www.ester.ee/record=b1296754*est <https://digikogu.taltech.ee/et/Item/2806e653-0ded-4650-a60a-0b5b420dbf81>