

**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](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 - ascientific 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; Gorbatšova, 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.; Kraniauskas, 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](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](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](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://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](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 kemoensümaatiline süntees kasutades Candida antarctica lipaasi B**

**Villo, Ly** 2008 [https://www.ester.ee/record=b2393878\\*est](https://www.ester.ee/record=b2393878*est)

## **Structural changes of starch during baking and staling of rye bread**

**Mihhalevski, Anna; Heinmaa, Ivo; Traksmaa, 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, Tiiu-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 : Itaalìa, 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, Tiiu** 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://www.ester.ee/record=b5750735*est) <https://digikogu.taltech.ee/et/Item/27bed832-f63e-4d97-ba29-816dbe16e43> <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; **Tõnsberg, V.** Технология пищевых производств. 1 1969 / с. 81-86

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

**Выращивание плесневого гриба *Asp. cruzae* 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](https://www.ester.ee/record=b1379468*est)

**Перспективы увеличения сырьевых ресурсов углеводов путем ферментативного гидролиза олигосахаридов.**

**Применение иммобилизованных  $\beta$ -галактозидазы и  $\beta$ -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