

A new approach for optimization of processes of microbiological synthesis

Vilu, Raivo Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 27

A new method of continuous cultivation with computer controlled change of dilution rate

Paalme, Toomas; Vilu, Raivo Proceedings of ICCAFT5/IFAC2-BIO2, Keystone, Colorado, April, 1992 1992

<https://www.sciencedirect.com/science/article/pii/S1474667017503766>

Absolute quantitative multi-omics characterization of specific growth rate-dependent metabolism of Escherichia coli = Absoluutselt kvantitatiivsetel oomikameetoditel põhinev kasvuerikiirusest sõltuva Escherichia coli metabolismi kirjeldamine

Valgepea, Kaspar 2014 <https://digi.lib.ttu.ee/i/?1089>

Advanced continuous cultivation methods for systems microbiology

Adamberg, Kaarel; Valgepea, Kaspar; Vilu, Raivo Microbiology 2015 / p. 1707-1719 : ill <https://doi.org/10.1099/mic.0.000146> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Alternatiivenergeetika väljavaateid : [kokkuvõtted R.Vilu, M.Koeli, Ü.Kase, V.Varese, ... jt. konverentsiettekannetest]

Annuk, Andres; Vilu, Raivo; Koel, Mihkel; Kask, Ülo; Vares, Villu Maamajandus 2002 / 12, lk. 16-17

https://artiklid.elnet.ee/record=b1038666*est

Alternatiivenergeetiline Eesti on võimalik : [küsimustele vastab Raivo Vilu]

Vilu, Raivo; Ader, Kristel Roheline Värav : [Maalehe lisa] 2001 / 22. nov., lk. 5 : fot

Amino acids are key substrates to Escherichia coli BW25113 for achieving high specific growth rate

Maser, Andres; Peebo, Karl; Vilu, Raivo; Nahku, Ranno Research in microbiology 2020 / p. 185-193

<https://doi.org/10.1016/j.resmic.2020.02.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An investigation and microcalorimetric monitoring of anaerobic treatment of concentrated waste in the cheese industry

Blonskaja, Viktoria; Mölder, Heino; Menert, Anne; Rikmann, Ergo; Vilu, Raivo European water management 2001 / 1, p. 59-64 : ill

An investigation and microcalorimetric monitoring of anaerobic treatment of concentrated waste in the cheese industry

Blonskaja, Viktoria; Mölder, Heino; Menert, Anne; Rikmann, Ergo; Vilu, Raivo Copenhagen Waste and Water Conference '99 including EcoProcura Copenhagen '99 : The 2nd International Conference on Integrated Sustainable Waste and Water Management and Green Procurement : June 1-3, 1999 : conference proceedings 1999 / [3] p

https://www.researchgate.net/publication/224858929_An_investigation_and_microcalorimetric_monitoring_of_anaerobic_treatment_of_concentrated_waste_in_the_cheese_industry

Anaerobic mesophilic digestion of sludge with extra-thermophilic and high pH pre-treatment

Menert, Anne; Rikmann, Ergo; Michelis, Merje; Vaalu, Tarmo; Blonskaja, Viktoria; Vilu, Raivo 4th Conference on the Establishment of Cooperation between Companies and Institutions in the Baltic Sea Region (Kalmar Eco-Tech'03) : 25-27 November, 2003, Kalmar, Sweden : book of abstracts 2003 / p. 115 <https://open.lnu.se/index.php/eco-tech/article/view/2102>

Anaerobic mesophilic digestion of sludge with extra-thermophilic and high pH pre-treatment

Menert, Anne; Rikmann, Ergo; Michelis, Merje; Vaalu, Tarmo; Blonskaja, Viktoria; Vilu, Raivo Proceedings of 4th Conference on the Establishment of Cooperation between Companies and Institutions in the Baltic Sea Region 2005 / p. 451-463

<https://open.lnu.se/index.php/eco-tech/article/view/2102>

Anaerobic mesophilic digestion of sludge with pre-treatment

Blonskaja, Viktoria; Menert, Anne; Vaalu, Tarmo; Vilu, Raivo Anaerobic Digestion of Solid Wastes : 3rd International Symposium, Munich/Garching, Germany, September 18 to 20, 2002 2002 / [8] p. : ill

Analysis of extracellular polymeric substances from pre-treated sludge by high-performance size exclusion chromatography

Lepane, Viia; Menert, Anne; Michelis, Merje; Rikmann, Ergo; Vilu, Raivo International Symposium Analytical Forum 2004 : Warsaw, Poland : Book of abstracts 2004 / p. 202

Analysis of metabolic organic acids for characterization of phosphate solubilizing fungi by capillary electrophoresis with indirect detection

Kudrjašova, Marina; Zaplotina, T.; Vilu, Raivo; Kaljurand, Mihkel 100 Years of Chromatography : 3rd International Symposium on Separations in BioSciences : SBS 2003, Moscow, Russia 2003 / p. P-149

Application and elaboration of accounting approaches for sustainable development = Jätkusuutliku arengu arvestusmeetodite arendamine ja rakendamine

Gavrilova, Olga 2012 <https://digi.lib.ttu.ee/i/?788>

Application of the UHPLC-DIA-HRMS method for determination of cheese peptides

Arju, Georg; Taivosalo, Anastassia; **Pismennõi, Dmitri; Lints, Taivo; Vilu, Raivo;** Daneberga, Zanda; Vorslova, Svetlana; Renkonen, Risto; Joenvaara, Sakari Foods 2020 / art. 979, 11 p. : ill <https://doi.org/10.3390/foods9080979> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Arengukavad pole haridusstrateegiaga kooskõlas

Vilu, Raivo Õpetajate Leht 2001 / 23. märts, lk. 3 : fot https://artiklid.elnet.ee/record=b2336238*est

A-stat in optimization of cultivation processes

Paalme, Toomas; Vilu, Raivo 213th American Chemical Society National Meeting. Division of Biochemical Technology, April 13-17, 1997, San Francisco, California : abstracts 1997 / p. BIOT 246

Balancing Cultural Acceptability and Environmental Sustainability in Diets through Multi-Objective Optimization

Bashiri, Bashir; Kaleda, Aleksei; **Vilu, Raivo** Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 11 [Future Frontiers \(PDF\)](#)

BIOBALT '96 : Biotechnology in Estonia, Latvia and Lithuania : International Workshop, 19-20 April, 1996, Tartu, Estonia : abstract book

Kreen, Malle; Vilu, Raivo 1996 https://www.ester.ee/record=b1053771*est

Biodegradation of dissolved jet fuel in chemostat by a mixed bacterial culture isolated from a heavily polluted site

Rožkov, Aleksei; Käär, Arvo; Vilu, Raivo Biodegradation 1998 / p. 363-369: ill

Biodegradation of organic substrate in sulphate containing yeast wastewaters

Krapivina, Marina; Blonskaja, Viktoria; Kurissoo, Tõnu; Vilu, Raivo "Environmental Impact and Water Management in a Catchment Area Perspective" : 24-26 September, 2001, Tallinn, Estonia : proceedings of the Symposium dedicated to the 40th Anniversary of Institute of Environmental Engineering at Tallinn Technical University 2001 / p. 232-241 : ill

Biodegradation studies of a series of dipeptide based ionic liquids and their transformation products [Online resource]

Raba, Grete; Kapitanov, Illia; Karpichev, Yevgen; Kümmerer, Klaus; **Vilu, Raivo; Gathergood, Nicholas** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmdtk.ut.ee/teesid-2018/>

Biodegradation studies of a series of dipeptide based ionic liquids and their transformation products

Raba, Grete; Kapitanov, Illia; Karpichev, Yevgen; Kümmerer, Klaus; **Vilu, Raivo; Gathergood, Nicholas** IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 25 https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf

Biokeemia laboratoorsed tööd

1998 https://www.ester.ee/record=b1237690*est

Biological oxidation in anaerobic digestion of sulfate rich wastewater

Blonskaja, Viktoria; Menert, Anne; Kurissoo, Tõnu; Vilu, Raivo 9th World Congress Anaerobic Digestion 2001 : September 2-6, 2001, Antwerpen, Belgium : proceedings. Part 1 2001 / p. 713-718 : ill

Bioloogiline oksüdatsioon sulfaadirikast reovett töötlevas anaeroobses biopuhastis

Menert, Anne; Krapivina, Marina; Kurissoo, Tõnu; Vilu, Raivo XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 85-86

Biotechnological advances for restoring degraded land for sustainable development

Tripathi, Vishal; Edrisi, Sheikh Adil; Chen, Bin; **Gupta, Vijai Kumar; Vilu, Raivo; Gathergood, Nicholas;** Abhilash, P.C. Trends in biotechnology 2017 / p. 847-859 : ill <https://doi.org/10.1016/j.tibtech.2017.05.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biotehnoloogia - 21. sajandi tunnustehnoloogia

Vilu, Raivo Test Site Estonia : [ideenäituse prospekt] 1996 / lk. 34

Bio-waste resource for sustainable anaerobic waste treatment solution on Island Saaremaa, Estonia

Pitk, Peep; Pürjer, Jühan; **Kõrgmaa, Vallo; Vilu, Raivo** ADSW&EC : International IWA-Symposium on Anaerobic Digestion of Solid Waste and Energy Crops : August 28 - September 1, 2011, Vienna, Austria 2011

Cancer sniffer dogs : how can we translate this peculiarity in laboratory medicine? Results of a pilot study on gastrointestinal cancers

Panebianco, Concetta; **Kelman, Edgar; Vene, Kristel;** Gioffreda, Domenica; Tavano, Francesca; **Vilu, Raivo;** Terracciano, Fulvia; **Pata, Illar; Adamberg, Kaarel;** Andriulli, Angelo; Paziienza, Valerio Clinical chemistry and laboratory medicine (CCLM) 2017 / p. 138-146 : ill <https://doi.org/10.1515/cclm-2016-1158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ill <https://www.sciencedirect.com/science/article/pii/S0958694611002469>

Compound's pre-screening of withania somnifera, Baccopa monnieri and centella asiatica extracts

Witter, Steffi; Arju, Georg; Junusova, Marina; **Kuhtinskaja, Maria; Samoson, Ago;** Witter, Raiker; **Vilu, Raivo** Journal of biosciences and medicines 2020 / p. 80-98 <https://doi.org/10.4236/jbm.2020.89007>

Comprehensive analysis of proteolysis during 8 months of ripening of high-cooked Old Saare cheese

Taivosalo, Anastassia; Kriščiunaite, Tiina; **Seiman, Andrus;** Part, Natalja; Stulova, Irina; **Vilu, Raivo** Journal of dairy science 2018 / p. 944-967 : ill <https://doi.org/10.3168/jds.2017-12944> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comprehensive analysis of proteolysis in cheese [Online resource]

Taivosalo, Anastassia; Kriščiunaite, Tiina; **Seiman, Andrus;** Part, Natalja; Stulova, Irina; **Vilu, Raivo** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

Coordinated activation of PTA-ACS and TCA cycles strongly reduces overflow metabolism of acetate in Escherichia coli

Peebo, Karl; Valgepea, Kaspar; Nahku, Ranno; Riis, Gethe; Õun, Mikk; Adamberg, Kaarel; Vilu, Raivo Applied microbiology and biotechnology 2014 / p. 5131-5143 : ill <https://doi.org/10.1007/s00253-014-5613-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Corrigendum to: "Comparison and applications of label-free absolute proteome quantification methods on Escherichia coli" [J Proteomics 75 (17) (2012) 5437-5448]

Arike, Liisa; Valgepea, Kaspar; Peil, Lauri; **Nahku, Ranno; Adamberg, Kaarel; Vilu, Raivo** Journal of Proteomics 2013 / p. 619 <https://doi.org/10.1016/j.jprot.2013.07.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A culturally acceptable shift in diet to reduce land footprint: an optimization study for Estonia

Bashiri, Bashir; Kaleda, Aleksei; Gavrilova, Olga; **Vilu, Raivo** Environmental modeling & assessment 2024 / 15 p <https://doi.org/10.1007/s10666-024-09996-4>

A culturally acceptable shift in diet to reduce land footprint: an optimization study for Estonia

Bashiri, Bashir; Kaleda, Aleksei; Gavrilova, Olga; **Vilu, Raivo** World Congress on Sustainable Technologies (WCST-2023) : proceedings 2023 / p. 73 <https://doi.org/10.20533/WCST.2023.0002>

Current problems in development of commercial biotechnology in Estonia

Vilu, Raivo BIOBALT '96 : Biotechnology in Estonia, Latvia and Lithuania : International Workshop, 19-20 April, 1996, Tartu, Estonia : abstract book 1996 / p. 38

Daphnia bioassay : analyzing drinking water for toxic effects

Trubetskova, I.L.; **Vilu, Raivo;** Minko, S.L. Joint Conference of Scandinavian Society of Cell Toxicology and Estonian Society of Toxicology : (SSCT & ETS 98) : Tallinn, October 23-26, 1998 : program and abstracts 1998 / I. 62

Decrease of energy spilling in Escherichia coli continuous cultures with rising specific growth rate and carbon wasting

Valgepea, Kaspar; Adamberg, Kaarel; Vilu, Raivo BMC systems biology 2011 / p. 106 <https://pubmed.ncbi.nlm.nih.gov/21726468/>

Department of Chemistry

Hödrejäär, Helvi; Veiderma, Mihkel; Kuusik, Rein, keemik; Hödrejäär, Helvi; Kallast, Vambola; Lille, Ülo; Öpik, Andres; Köstner, Ado; Vilu, Raivo; Kreen, Malle; Kuusik, Rein, keemik; Öpik, Andres Research activities / Tallinn Technical University 1993 / p. 45-48 https://www.eester.ee/record=b1053754*est

Design of sustainable ionic liquids based on l-phenylalanine and l-alanine dipeptides : synthesis, toxicity and biodegradation studies

Kapitanov, Illia; Raba, Grete; Špulak, Marcel; **Vilu, Raivo; Karpichev, Yevgen; Gathergood, Nicholas** Journal of Molecular Liquids 2023 / art. 121285 <https://doi.org/10.1016/j.molliq.2023.121285> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The design of unit cells by combining the self-reproduction systems and metabolic cushioning loads

Abner, Kristo; Šverns, Peter; Arold, Janar; Lints, Taivo; Eller, Neeme-Andreas; Morell, Indrek; Seiman, Andrus; Adamberg, Kaarel; Vilu, Raivo Communications biology 2025 / art. 241 <https://doi.org/10.1038/s42003-025-07655-2>

Design principles of a modern clinical chemistry laboratory and results of a small scale implementation

Vilu, Raivo Baltic Congress of Laboratory Medicine : abstracts 1992 / p. 8

Designing mineralisable building blocks for greener solvents

Raba, Grete; Kapitanov, Illia; Karpichev, Yevgen; Vilu, Raivo; Gathergood, Nicholas 8th IUPAC International Conference of Green Chemistry : Shangri-La Hotel, Bangkok, Thailand, 9-14 Sept 2018 : poster presentation abstracts 2018 / p. 87 http://www.greeniupac2018.com/download/8th%20IUPAC%20ICGC%202018_Program%20&%20Abstract%20Book_Poster%20Abstract.pdf

Detailed analysis of metabolism reveals growth-rate-promoting interactions between Anaerostipes caccae and Bacteroides spp

Kattel, Anna; Morell, Indrek; **Aro, Valter;** Lahtvee, Petri-Jaan; **Vilu, Raivo;** Jõers, Arvi; Nahku, Ranno Anaerobe 2023 / art. 102680
<https://doi.org/10.1016/j.anaerobe.2022.102680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of growth characteristics of sulfate reducing bacteria by microcalorimetry and ATP

Menert, Anne; Kahru, Anne; Blonskaja, Viktoria; Tarassova, J.; **Vilu, Raivo** ISBC XII : Calorimetry : Tool in Health and Environmental Studies : Santiago de Compostela, Espana, 7-11 September 2001 : book of abstracts / International Society for Biological Calorimetry 2001 / p. 49

Developing laboratory medicine into technology - a major task of development in Estonia

Vilu, Raivo 20-th World Congress of Medical Technology : book of abstracts, Dublin, Ireland, Juli 1992 1992 / p. 195

Development and applications of chemically defined media for lactic acid bacteria = Defineeritud koostisega söötmete arendamine ja kasutusalaad piimhappebakteritele

Aller, Kadri 2016 http://www.ester.ee/record=b4567664*est

Development and implementation of high throughput peptidomics for microbial studies = Suure läbilaskevõimega peptidoomika meetodite arendamine ja juurutamine mikrobioloogilisteks uuringuteks

Arju, Georg 2022 <https://doi.org/10.23658/taltech.72/2022> <https://digikogu.taltech.ee/et/Item/321e304a-71ec-4331-9459-2ceba20d42ae>
https://www.ester.ee/record=b5530395*est

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](#)

Development and production of extruded food and feed products containing probiotic microorganisms = Probiootilisi mikroorganisme sisaldavate ekstrudeeritud toiduainete ja loomasöötade tootmistehnoloogia väljatöötamine ja rakendamine

Kazarjan, Aram 2012

Development of a microcalorimetric method for the study of fermentation processes = Kalorimeetrilise meetodi väljatöötamine fermentatsiooniprotsesside uurimiseks

Kabanova, Natalja 2013 https://www.ester.ee/record=b2945255*est

Development of consortia bioprocesses for efficient production of probiotics

Nahku, Ranno; Aro, Valter; **Kattel, Anna;** **Vilu, Raivo** 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 42

Development of object-oriented curricula is necessary for the systematic implementation of hypermedia principles into engineering education

Vilu, Raivo Hypermedia in Vaasa '93 : conference on computers and hypermedia in engineering education May 24-26, 1993 : proceedings 1993 / p. 280-285

Development of virtual reality - a vehicle for sustainable development of Estonia

Vilu, Raivo IV International Conference on a System Analysis Approach to Environment, Energy and Natural Resource Management in the Baltic Sea Region, Tallinn, May, 1993 : abstracts 1993 / p. 72

[Diskussiooni juhataja Raivo Vilu sõnavõttud diskussioonil] Õhtused kõnelused: Põletavad hariduspoliitika probleemid Eestis

Vilu, Raivo Elu ja õppimine : elukestva õppimise toetamine : 7.-8. detsember 2001, Viljandi : [Eesti Haridusfoorumi '01] ettekannete ja sõnavõtte kogumik 2002 / lk. 50-52, 61, 65

Ecological efficiency of the oil shale electricity sector of Estonia

Randla, Tiina; Gavrilova, Olga; **Vilu, Raivo** Progress in industrial ecology 2007 / 1/2, p. 54-69

Education strategy "Learning Estonia"

Vilu, Raivo Avoiding Aging Catastrophe : proceedings of the international symposium : 28-29 January 2002, Tallinn, Estonia 2002 / p. 83-84 https://www.ester.ee/record=b1715431*est

Eesti haridusstsenaariumid 2015

Loogma, Krista; Ruubel, Rein; Ruus, Viive; Sarv, Ene-Silvia; **Vilu, Raivo** Õpetajate Leht 1998 / 8., 15., 22., 29. mai, lk. 7
https://artiklid.elnet.ee/record=b2324250*est

Eesti haridusstsenaariumid 2015 : esimene versioon

Loogma, Krista; Ruubel, Rein; Ruus, Viive; Sarv, Ene-Silvia; **Vilu, Raivo** 1998

Eesti haridusstsenaariumid 2015 (esimene versioon)

Loogma, Krista; Ruubel, Rein; Ruus, Viive; Sarv, Ene-Silvia; **Vilu, Raivo** Eesti ühiskond ja haridus - 2015 1998 / lk. 12-19

Eesti jätkusuutlikkusest keskkonnaruumi ja ökoloogilise jalajälje kontseptsioonide alusel

Vilu, Raivo; Randla, Tiina Elamu 2004 / 2, lk. 16-19, 45-47

Eesti keskkonnategevuskava

Aaslaid, Agnes; **Adamson, Alo; Hääl, Maire-Liis; Kiili, Jaanus; Lehtla, Kaie; Levald, Heino; Liik, Olev; Loigu, Enn; Metsvahi, Tiit; Randla, Tiina; Reinsalu, Enno; Seepõld, Marit; Selg, Vello; Suurkask, Valdu; Veiderma, Mihkel; Velter, Harald-Adam; Vilu, Raivo** 1998 https://www.ester.ee/record=b1057198*est

Eesti keskkonnategevuskava [2001 - 2003]

Kiili, Jaanus; Kask, Ülo; Liik, Olev; Metsvahi, Tiit; Paadam, Katrin; Adamson, Alo; Hendre, Marju; Hääl, Maire-Liis; Kändler, Nils; Loigu, Enn; Randla, Tiina; Reinsalu, Enno; Seepõld, Marit; Udal, Andres; Vilu, Raivo 2001 https://www.ester.ee/record=b1550399*est

Eesti konkurentsivõimest rahvusvaheliste keskkonnaruumpõhiste majandusmehhanismide käivitamisel

Randla, Tiina; Vilu, Raivo Eesti sotsiaalteaduste II aastakonverents : 23.-24. november 2001, Tartu : teeside kogumik 2001 / lk. 102-104

Eesti piimandus tuleb ümber korraldada

Vilu, Raivo Edasi 1990 / 21. märts, lk. 4

Eesti põlevkivienergeetika ei ole jätkusuutlik

Gavrilova, Olga; Randla, Tiina; Vallner, Leo; Strandberg, Marek; Vilu, Raivo Keskkonnatehnika 2006 / 3, lk. 41-44 https://artiklid.elnet.ee/record=b2055353*est

Eesti põlevkivitööstuse areng - tööstusökoloogilise lähenemise katse

Vilu, Raivo; Randla, Tiina XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 159

Eesti saastemaksud Euroopa madalaimad : [arvamust avaldavad Raivo Vilu jt.]

Kändler, Tiit; **Vilu, Raivo** Eesti Päevaleht 2000 / 31. märts, lk. 14 : ill <https://epl.delfi.ee/artikkel/50785563/eesti-saastemaksud-euroopa-madalaimad>

Eesti teine arengufoorum - ENERGEETIKA ehk kas Eesti teab, kuhu ta läheb

Aarna, Olav; Liik, Olev; Ots, Arvo; Arro, Hendrik; Tallermo, Harri; Selg, Vello; Vilu, Raivo; Pajur, Pia Energia Teataja = Энерговестник 1997 / lk. 14-18, 42-47: ill https://www.ester.ee/record=b1072156*est

Eesti tulevik ja globaalsed tehnoloogiatrendid

Vilu, Raivo Test Site Estonia : [ideenäituse prospekt] 1996 / lk. 14-15

Eesti tulevikustsenaariumid

Terk, Erik; **Vilu, Raivo; Purju, Alari; Tamm, Boris, inform.** 1997 https://www.ester.ee/record=b1057162*est

Eesti vajab erapooletut ja otstarbekat piimakontrolli

Vilu, Raivo Maaleht 1996 / 18. juuli, lk. 15

Eesti võiks olla ise "nokia"

Vilu, Raivo Eesti Päevaleht 1999 / 23. juuli, lk. 8

Eesti ökoloogiline jalajälg

Randla, Tiina; Vilu, Raivo Keskkond ja haridus : [2. üleriikliku keskkonnahariduse konverentsi ettekanded : 2001] 2002 / lk. 64-82

Eestlaste loodud uus bakter tõi kõrge tunnustuse : [prof. Raivo Vilu`le]

Raamets, Heli; **Vilu, Raivo** Maaleht 2017 / lk. 9 <https://maaleht.delfi.ee/artikkel/79438988/eestlaste-loodud-uus-bakter-toi-korge-tunnustuse>

Effect of acid treatment of raw and sprouted grains on microbiological parameters and quality of the products : poster

Traksmä, Anna; Šestopalova, Ksenia; Kütt, Mary-Liis; Vilu, Raivo Cereals & Europe : Spring Meeting 2022 / p. 60 <https://cespringmeeting2020.eu/abstract-book/> https://cespringmeeting2020.eu/wp-content/uploads/2022/05/CE2022_AbstractBook-SOU-Preview.pdf

Effect of enzymelassisted hydrolysis on brewer's spent grain protein solubilization – peptide composition and sensory properties

Kriisa, Merike; Taivosalo, Anastassia; Föste, Maike; Kütt, Mary-Liis; Viirma, Maret; Priidik, Reimo; Korzeniowska, Malgorzata; Tian, Ye; Laaksonen, Oskar; Yang, Baoru; **Vilu, Raivo** Applied Food Research 2022 / art. 100108
<https://doi.org/10.1016/j.afres.2022.100108>

Effect of preparation biotreat 100 on anaerobic digestion of food industry waste : a microcalorimetric view

Menert, Anne; Liiders, Maris; **Kurissoo, Tõnu**; **Vilu, Raivo** Microbiological Safety of Food : joint conference organized by Society for Applied Microbiology (UK), World Health Organization and Estonian Society for Microbiology : 10-11 May 2000, Tartu, Estonia 2000 / I. 61

Effect of β -casein reduction and high heat treatment of micellar casein concentrate on proteolysis, texture and the volatile profile of resultant Emmental cheese during ripening

Xia, Xiaofeng; **Arju, Georg**; Taivosalo, Anastassia; Lints, Taivo; Kriščiunaite, Tiina; **Vilu, Raivo**; Corrigan, Bernard M.; Gai, Nan; Fenelon, Mark A.; Tobin, John T.; Kilcawley, Kieran; Kelly, Alan L.; McSweeney, Paul L. H.; Sheehan, Jeremiah J. International dairy journal 2023 / art. 105540, 13 p. : ill <https://doi.org/10.1016/j.idairyj.2022.105540> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Elu võimalikkusest Internetis

Vilu, Raivo Biotoopia : Bioloogia. Tehnoloogia. Utopia. : Sorose Kaasaegse Kunsti Eesti Keskuse 3. aastanäitus, 22. november - 17. detsember 1995 1996 / 2 lk.: ill

Energeetika tulevik

Vilu, Raivo Elamu 2005 / 1, lk. 8-12, 40-42 ; 2, lk. 27-28, 55

Engineered resistant-starch (ERS) diet shapes colon microbiota profile in parallel with the retardation of tumor growth in In Vitro and In Vivo pancreatic cancer models

Panebianco, Concetta; **Adamberg, Kaarel**; **Adamberg, Signe**; Jaagura, Madis; Kolk, Kaia; **Vilu, Raivo** Nutrients 2017 / art. 331, p. 1-16 : ill <https://doi.org/10.3390/nu9040331> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Environmental and economic life cycle assessment of enzymatic hydrolysis-based fish protein and oil extraction

Bashiri, Bashir; Cropotova, Janna; Kvangarsnes, Kristine; Gavrilova, Olga; **Vilu, Raivo** Resources 2024 / art. 61
<https://doi.org/10.3390/resources13050061> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Environmental and economic life cycle assessment of fish protein and oil extraction using enzymatic hydrolysis

Bashiri, Bashir; Cropotova, Janna; Kvangarsnes, Kristine; **Vilu, Raivo** Life Cycle Innovation Conference (LCIC2024) 2024 / art. 23
<https://fscilc.org/lcic/lcic2024/lcic2024-posters/environmental-and-economic-life-cycle-assessment-of-fish-protein-and-oil-extraction-using-enzymatic-hydrolysis/>

Environmental risk assessment of industrial and military sites in Estonia

Vilu, Raivo Joint Conference of Scandinavian Society of Cell Toxicology and Estonian Society of Toxicology : (SSCT & ETS 98) : Tallinn, October 23-26, 1998 : program and abstracts 1998 / I. 33

Environmental risks and problems of the optimal management of an oil shale semi-coke and ash landfill in Kohtla-Järve, Estonia

Vallner, Leo; Gavrilova, Olga; **Vilu, Raivo** Science of the total environment 2015 / p. 400-415 : ill
<https://doi.org/10.1016/j.scitotenv.2015.03.130> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Erratum to "Physicochemical, textural, and sensorial properties of fibrous meat analogs from oat-pea protein blends extruded at different moistures, temperatures, and screw speeds" [Future Foods, 4 (2021) 100092]

Kaleda, Aleksei; Talvistu, Karel; **Vaikma, Helen**; **Tammik, Mari-Liis**; **Rosenvald, Sirli**; **Vilu, Raivo** Future foods 2022 / art. 100162
<https://doi.org/10.1016/j.fufo.2022.100162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Escherichia coli achieves faster growth by increasing catalytic and translation rates of proteins

Valgepea, Kaspar; **Adamberg, Kaarel**; Seiman, Andrus; **Vilu, Raivo** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Escherichia coli achieves faster growth by increasing catalytic and translation rates of proteins

Valgepea, Kaspar; **Adamberg, Kaarel**; Seiman, Andrus; **Vilu, Raivo** Molecular biosystems 2013 / p. 2344-2358 : ill
<https://doi.org/10.1039/c3mb70119k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estonia

Vilu, Raivo Phare multi-country for distance education : programme compendium, September, 1999 : European Training Foundation 1999 / p. 17-18

Estonia. Reforming higher education - multi-country distance education programme

Vilu, Raivo IT-WATCH in the Baltic Sea Region : [overview : produced for the BIT Convention taking place in Karlskrona-Ronneby, August 20-21, 1998 1998 / p. 78-80

Haridusfoorum läks korda

Vilu, Raivo Õpetajate Leht 2001 / 14. detsember, lk. 4

Haridusstrateegiline protsess Eestis

Aarna, Olav; Vilu, Raivo Inimarengu trendid ja poliitika kujundamine 2002 / lk. 76-79

Hea elu tuleb aastal 2010 : [Raivo Vilu jt. kommentaaridega]

Ernits, Peeter; **Vilu, Raivo** Postimees 2001 / 23. veebruar, lk. 12 <https://majandus.postimees.ee/1852825/hea-elule-tuleb-aastal-2010>

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>

Ice cream structure modification by ice-binding proteins

Kaleda, Aleksei; Tsenov, Robert; Klesment, Tiina; Vilu, Raivo; Laos, Katrin Food Chemistry 2018 / p. 164-171
<https://doi.org/10.1016/j.foodchem.2017.10.152> Journal at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Idandatud terade mikrobioloogiliste ja keemiliste parameetrite kaardistamine

Traksmä, Anna; Šestopalova, Ksenia; Kallastu, Aili; Junusova, Marina; Rosend, Julia; Vilu, Raivo Terve loom ja tervislik toit : konverentsi "Terve loom ja tervislik toit 2021" artiklite kogumik 2021 / lk. 69-70
https://terveloomjatervisliktoit.ee/userfiles/tl/tl2021/Kogumik_TLTT2021.pdf

Ida-Virumaa kooli arendus - virtuaalsete (kultuuri-)kogukondade loomise ja arendamise tiigel

Sarv, Ene-Silvia; **Vilu, Raivo** Eesti haridusfoorum '97 : hariduse tugisüsteemid paljuskultuurilises Eestis, Ida-Virumaa : materjalide kogumik, Jõhvi, 1997 1997 / lk. 35-44, 95-104

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/>

Increased biomass yield of Lactococcus lactis by reduced overconsumption of amino acids and increased catalytic activities of enzymes

Adamberg, Kaarel; Seiman, Andrus; Vilu, Raivo PLoS ONE 2012 / p. e48223 <https://pubmed.ncbi.nlm.nih.gov/23133574/>

Influence of biological growth stimulator (algal preparation) on the growth characteristics of bacteria in anaerobic digesters

Menert, Anne; Liiders, M.; Kurissoo, Tõnu; Vilu, Raivo The World of Microbes : Xth International Congress of Bacteriology and Applied Microbiology, Paris, 27th July to 1st August 2002 : abstracts 2002 / p. 159-160

Influence of gemcitabine chemotherapy on the microbiota of pancreatic cancer xenografted mice

Panebianco, Concetta; **Adamberg, Kaarel; Jaagura, Madis; Adamberg, Signe; Kolk, Kaia; Vilu, Raivo; Andriulli, Angelo; Pazienza, Valerio** Cancer chemotherapy and pharmacology 2018 / p. 773–782 : ill <https://doi.org/10.1007/s00280-018-3549-0> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of microstructure of the curd on enzymatic and microbiological processes in Swiss-type cheese

Laht, Tiit-Maie 2003 https://www.ester.ee/record=b1782607*est

Influence of thermal pre-treatment on mesophilic anaerobic digestion of sludges

Menert, Anne; Vaalu, Tarmo; Michelis, Merje; Blonskaja, Viktoria; Rikmann, Ergo; Mets, Aita; Vilu, Raivo The 7th International Conference : Environmental Engineering : May 22-23, 2008, Vilnius, Lithuania : selected papers. Volume II, Water engineering. Energy for buildings 2008 / p. 625-635 : ill

Infotehnoloogia kaudu põhimõteteliste muutustele hariduses

Vilu, Raivo; Viik, Linnar Eesti inimarengu aruanne 1998 1998 / lk. 113-115: ill

Inhibition of pyruvate dehydrogenase kinase influence microbiota and metabolomic profile in pancreatic cancer xenograft mice

Adamberg, Kaarel; Vilu, Raivo; Pazienza, Valerio BMC Research Notes 2020 / art. 540 <https://doi.org/10.1186/s13104-020-05384-9> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Innovaatilisus majanduses ja ühiskonnas

Vilu, Raivo; Viik, Linnar Eesti inimarengu aruanne 1998 1998 / lk. 102-105: ill

Innovation in the economy and in society

Vilu, Raivo; Viik, Linnar Estonian human development report 1998 1998 / p. 102-105: ill

Integrated and organized cellular bioenergetic systems in heart and brain

Anmann, Tiia 2007 http://www.ester.ee/record=b2281020*est

Integrated geo-information system - an indispensable tool of development of postsocialist Estonia

Vilu, Raivo International Symposium on Environmental Contamination in Central and Eastern Europe, Budapest, Oct. 1992 1992

Integrating multi-criteria decision-making with multi-objective optimization for sustainable diet design

Bashiri, Bashir; Kaleda, Aleksei; Vilu, Raivo Journal of Cleaner Production 2025 / art. 145233

<https://doi.org/10.1016/j.jclepro.2025.145233>

Juua või mitte juua? : [Eesti Keskkonnaministeeriumi veemajanduskavast ja teadlaste 2005. a. uurimusest veemajanduse kohta ning veemajanduse arutelust, lähtudes ELi veepoliitika raamdirektiivist]

Vallner, Leo; Strandberg, Marek; Vilu, Raivo; Perens, Rein Sirp 2006 / 3. veebr., lk. 2

Jätkusuutlik areng kui ökosüsteemide stabiilse toimimise eeldus

Vilu, Raivo Elamu 2004 / 4, lk. 24-25, 59-60

Jätkusuutliku arengu käivitamisest Eestis

Randla, Tiina; Kurisoo, Tõnu; Vilu, Raivo Kaasaegse ökoloogia probleemid. VIII, Loodusteaduslikud ülevaated Eesti Maa

Päeval : Eesti VIII Ökoloogiakonverentsi lühiartiklid, Tartu, 26.-27. aprill, 2000 2000 / lk. 204-213

Jätkusuutlikul ressursikasutusel pole alternatiivi

Randla, Tiina; Vilu, Raivo Kas Eesti on sotsiaalselt jätkusuutlik? 2001 / lk. 32-35

21. sajandi Eesti kool ning loodusõpetus

Vilu, Raivo Loodusõpetus Eesti kooli uues õppekavas : loodusõpetuse õpetajate I üleriigiline konverents Tallinna Tehnikaülikoolis

1998 / lk. 51-73

21. sajandi riik

Vilu, Raivo Test Site Estonia : [ideenäituse prospekt] 1996 / lk. 28

Kas me tõesti ei saa põlevkivielektrita elada?

Vilu, Raivo Eesti Päevaleht 2000 / 20. juuli, lk. 2 https://artiklid.elnet.ee/record=b1650709*est

Kas õpetaja ärkab esimesena? : [kõrgkoolide professorkonna jätkusuutlikkusest]

Vilu, Raivo Õpetajate Leht 2002 / 11. jaan., lk. 5 https://artiklid.elnet.ee/record=b2336243*est

Kaugkoolitus on tänapäevane : [vestlus L.Jõgi ja R.Viluga]

Vilu, Raivo; Jõgi, Larissa; Eksta, Viivi Õpetajate Leht 1996 / 30. aug., lk. 4 https://artiklid.elnet.ee/record=b2314384*est

Keemia üks-kord-ühest ja keemia õpetamisest koolis

Vilu, Raivo; Kannike, K. XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days :

abstracts of scientific conference 1999 / lk. 197-198

Keskkonnaruumi ja dematerialiseerimise kontseptsioonidel põhinev maksusüsteem kui Eesti süsiniku- ja veebilansi korrastamise instrument

Randla, Tiina; Kurisoo, Tõnu; Vilu, Raivo XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian

Chemistry Days : abstracts of scientific conference 2000 / lk. 120-121

Keskkonnaruumpõhised Eesti energeetika arengustsenaariumid

Randla, Tiina; Vilu, Raivo XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days :

abstracts of scientific conference 2001 / lk. 111

Kirde-Eesti fenoolide sisaldavate heitmete mikrobioloogilise lagundamise võimalustest

Randla, Tiina; Rožkov, Aleksei; Käär, Arvo; Vilu, Raivo XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid =

16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 123-125

Kohateabesüsteemid ümber Läänemere

Vilu, Raivo Arvutimaailm 1994 / 1, lk. 30-35

Kokkuvõtte paneeli ["Muukeelne haridus Eestis"] tööst

Vilu, Raivo Eesti haridusfoorum '97 : hariduse kättesaadavusest ja kvaliteedist õpiühiskonda pürgivas Eestis, 31. okt.-2. nov. 1997,

Kokkuvõtte teemal "Muukeelne haridus Eestis"

Vilu, Raivo Eesti hariduskonverents '95 - Eesti haridusfoorum '97 : vastuvõetud dokumendid 1998 / lk. 26-28

[Kommentaari Eesti Haridusfoorum '99 paneeldiskussioonil "Hariduse kvaliteet"]

Vilu, Raivo Eesti haridussüsteemi arengu kontseptsioon : 10.-11. detsember 1999, Tallinn : ettekannete ja sõnavõttude kogumik 2000 / lk. 78-79

[Kommentaari Eesti Haridusfoorum '99 paneeldiskussioonil "Juhtimine, haldus ja finantseerimine hariduses"]

Vilu, Raivo Eesti haridussüsteemi arengu kontseptsioon : 10.-11. detsember 1999, Tallinn : ettekannete ja sõnavõttude kogumik 2000 / lk. 115

Konsensuseni tuleks siiski jõuda : [koolitustellimuse moodustamisest, lähtudes erakõrgkoolide rektorite nõukogu pakutud süsteemist]

Vilu, Raivo Õpetajate Leht 2002 / 8. märts, lk. 6

Kool ja infoühiskonna haridusfilosoofia

Vilu, Raivo; Sarv, Ene-Silvia Eesti Haridusfoorum '96 : Eesti haridusvalikud XXI sajandi lävel, 1.-3. november 1996 : ettekannete ja sõnavõttude kogumik 1997 / lk. 56-68

Kuidas vähema lugemisega rohkem aru saada? : [keskhariduse sisu muutmisest, looduskorralduse ja ühiskonnakorralduse kompetentsi sisseviimisest]

Vilu, Raivo Õpetajate Leht 2002 / 1. veebr., lk. 6 https://artiklid.elnet.ee/record=b1570295*est

Kvantitatiivse rakufüsioloogia probleemidest

Vilu, Raivo EMS 96 teaduskonverents, 6.-7. juuni 1996, Tallinn = EMS 96 Scientific Conference, 6-7 June 1996, Tallinn 1996 / [1] p

Kütteõli mikrobiaalset degradatsiooni mõjustavad tegurid pinnases

Sokk, Olev; **Rožkov, Aleksei**; Laht, Tiit-Maie; **Vilu, Raivo** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 129-131

Laboratory study of bioremediation of rocket fuel-polluted groundwater

Rožkov, Aleksei; Vassiljeva, Irina; Kurvet, Madis; Kahru, Anne; Preis, Sergei; Hartšenko, Anna; Kritševskaja, Marina; Liiv, Milana; Käär, Arvo; **Vilu, Raivo** Water research 1999 / no. 5, [12] p.: ill

Large-scale preparation of fully deuterated cell components. Ribosomes from Escherichia coli with high biological activity

Vanatalu, K.; **Paalme, Toomas**; **Vilu, Raivo**; Burkhardt, N.; Jünemann, R.; May, R.; Rühl, M.; Wadzack, J.; Nierhaus, K.H. European journal of biochemistry 1993 / p. 315-321 <https://febs.onlinelibrary.wiley.com/doi/10.1111/j.1432-1033.1993.tb18148.x>

Lean-proteome strains - next step in metabolic engineering

Valgepea, Kaspar; **Peebo, Karl**; **Adamberg, Kaarel**; **Vilu, Raivo** Frontiers in bioengineering and biotechnology 2015 / p. 1-4 <https://doi.org/10.3389/fbioe.2015.00011> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Life cycle assessment of laboratory-scale chitosan production: comparison of high-pressure processing-assisted and conventional methods

Bashiri, Bashir; Pinheiro, Ana Cristina De Aguiar Saldanha; Tappi, Silvia; Rocculi, Pietro; **Kaleda, Aleksei**; **Vilu, Raivo** Proceedings of the Estonian Academy of Sciences 2025 / p. 1-14 : ill <https://doi.org/10.3176/proc.2025.1.01>

A life cycle environmental impact assessment of oil shale produced and consumed in Estonia

Gavrilova, Olga; **Vilu, Raivo**; **Vallner, Leo** Resources, conservation and recycling 2010 / p. 232-245

Liposoomide revolutsioon vitamiinide inimorganismi viimises [Võrguväljaanne]

Vilu, Raivo postimees.ee 2022 [Liposoomide revolutsioon vitamiinide inimorganismi viimises](https://postimees.ee/2022/05/10/liposoomide-revolutsioon-vitamiinide-inimorganismi-viimises) Liposoomide revolutsioon vitamiinide inimorganismi viimises

Loodusteaduslike ainete toimetulekupaunast

Vilu, Raivo Eesti bioloogiaõpetajate konverents : Tartu, 5.-6. mai 2000 : teesid 2000 / lk. 14

Lootust annab hooliv õpetaja : [ka X Haridusfoorumist]

Vilu, Raivo Õpetajate Leht 2005 / 11. veebr., lk. 5 : fot https://artiklid.elnet.ee/record=b2340759*est

Läänemere Paleti projekt. Säastlik regionaalareng kujunevas infoühiskonnas

Alumäe, Helen; Jüssi, Mari; Engström, Carl-Johan; Tuovinen, Pentti; **Vilu, Raivo**; Lindgren, Katarina 2000

Management of microbial resources in human environment - new era : [abstract]

Vilu, Raivo Ninth Annual ScanBalt Forum "Healthy future" : September 22-24, 2010 : Tallinn, Estonia 2010 / p. 55

Material flow analysis of Estonian oil-shale industry

Randla, Tiina; Gavrilova, Olga; Vilu, Raivo Workshop "Quo vadis MFA?" : Material Flow Analysis - Where do we go? : Issues, Trends and Perspectives of Research for Sustainable Resource use : 08.-10. October 2003, Wuppertal Institute : abstract - reader parallel sessions 2003 / [1] p

Media development experiments for lactic acid bacteria : stressful, yet useful

Aller, Kadri; Adamberg, Kaarel; Timarova, Veronica; Vilu, Raivo TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Medical plants and nutraceuticals for amyloid- β fibrillation inhibition

Witter, Steffi; Witter, Raiker; Vilu, Raivo; Samoson, Ago Journal of Alzheimer's Disease Reports 2018 / p. 239-252 : ill
<http://doi.org/10.3233/ADR-180066>

Mesophilic co-digestion of dairy manure and lipid rich solid slaughterhouse wastes : process efficiency, limitations and floating granules formation

Pitk, Peep; Palatsi, Jordi; Kaparaju, Prasad; Fernandez, Belen; **Vilu, Raivo** Bioresource technology 2014 / p. 168-177 : ill
<https://doi.org/10.1016/j.biortech.2014.05.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metabolic Characterization and Composition Control of Next Generation Probiotic Consortia = Uue põlvkonna probiootiliste koosluste koostise kontroll ja metaboolne iseloomustus

Kattel, Anna 2025 https://www.ester.ee/record=b5757724*est <https://digikogu.taltech.ee/et/Item/941c22f1-d30b-4f28-97fd-feafc2b2ebec>
<https://doi.org/10.23658/taltech.62/2025>

A metabolic study of insect cells in batch and continuous culture : application of chemostat and turbidostat to the production of recombinant proteins

Drews, Monika 1999 http://www.ester.ee/record=b1055103*est

Methane potential of sterilized solid slaughterhouse wastes

Pitk, Peep; Kõrgmaa, Vallo; Vilu, Raivo 8th IWA International Symposium on Waste Management Problems in Agroindustries : Çeşme, Turkey 2011 <https://www.sciencedirect.com/science/article/pii/S0960852412006438>

Methane potential of sterilized solid slaughterhouse wastes

Pitk, Peep; Kaparaju, Prasad; **Vilu, Raivo** Bioresource technology 2012 / p. 42-46 : ill
<https://www.sciencedirect.com/science/article/pii/S0960852412006438>

Microcalorimetric monitoring of anaerobic digestion processes

Menert, Anne; Liiders, M.; **Kurissoo, Tõnu; Vilu, Raivo** Journal of thermal analysis and calorimetry 2001 / p. 281-291 : ill

Microcalorimetric monitoring of anaerobic digestion processes

Menert, Anne; Liiders, M.; **Kurissoo, Tõnu; Vilu, Raivo** Programme and abstract book of 12th International Congress on Thermal Analysis and Calorimetry : August 14-18, 2000, Copenhagen, Denmark 2000 / p. 198
<https://link.springer.com/article/10.1023/A:1011513819091>

Microcalorimetric monitoring of microbial growth in solid-state fermentations

Menert, Anne; Kazarjan, Aram; Stulova, Irina; Lee, C.C.; **Vilu, Raivo** International Society for Biological Calorimetry : XIVth Conference The Amber ISBC : Sopot, Poland, June 2-6, 2006 : abstracts 2006 / p. 58

Microcalorimetric study of extruded dog food containing probiotic micro-organisms

Kazarjan, Aram; Kabanova, Natalja; Vilu, Raivo Advances in microbiology 2012 / p. 436-440 : ill
<https://www.scirp.org/journal/paperinformation?paperid=25681>

Microcalorimetric study of growth of Lactococcus lactis IL 1403 at different glucose concentrations in broth

Kabanova, Natalja; Kazarjan, Aram; Stulova, Irina; Vilu, Raivo Thermochimica Acta 2009 / 1/2, p. 87-92 : ill
<https://www.sciencedirect.com/science/article/pii/S0040603109002895>

Microcalorimetric study of growth of Lactococcus lactis IL1403 at low glucose concentration in liquids and solid agar gels

Kabanova, Natalja; Stulova, Irina; Vilu, Raivo Thermochimica acta 2013 / p. 69-75 : ill <https://doi.org/10.1016/j.tca.2013.02.013>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microcalorimetric study of the growth of bacterial colonies of Lactococcus lactis IL1403 in agar gels

Kabanova, Natalja; Stulova, Irina; Vilu, Raivo Food microbiology 2012 / p. 67-79 : ill
<https://www.sciencedirect.com/science/article/pii/S0740002011002036>

Vilu, Raivo 1998 https://www.ester.ee/record=b1057197*est

National environmental action plan 2001-2003 : Estonia

Kiili, Jaanus; Kask, Ülo; Vares, Villu; Liik, Olev; Metsvahi, Tiit; Paadam, Katrin; Adamson, Alo; Hendre, Marju; Hääl, Maire-Liis; Kask, Ülo; Kändler, Nils; Loigu, Enn; Randla, Tiina; Reinsalu, Enno; Seepõld, Marit; Udal, Andres; Veiderma, Mihkel; Vilu, Raivo 2001 https://www.ester.ee/record=b1593753*est

New derivatives of the Tol plasmid pWWO

Sarand, J.; Mäe, A.; Vilu, Raivo; Heinaru, A. Journal of general microbiology 1993 / p. 2379-2385

Nutritional requirements and media development for Lactococcus lactis IL1403

Aller, Kadri; Adamberg, Kaarel; Timarova, Veronica; Seiman, Andrus; Feštšenko, Darja; Vilu, Raivo Applied microbiology and biotechnology 2014 / p. 5871-5881 : ill <https://doi.org/10.1007/s00253-014-5641-7> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On eco-efficiency and sustainable development in Estonia

Randla, Tiina; Kurissoo, Tõnu; Vilu, Raivo International journal of environment and sustainable development 2002 / 1, p. 32-41

On land-related carbon cycling monitoring and control in Estonia [Electronic resource]

Gavrilova, Olga; Randla, Tiina; Vilu, Raivo Proceedings of the Conference "11th ERP Environment/SDP2005 Conference", Helsinki 06-08. June 2005 2005 / p. 20 [CD-ROM]

On long-term energy development scenarios for Estonia, taking into account the possible evolution of Kyoto process [Electronic resource]

Randla, Tiina; Gavrilova, Olga; Vilu, Raivo Proceedings of the Conference "11th ERP Environment/SDP2005 Conference", Helsinki 06-08. June 2005 2005 / p. 24 [CD-ROM]

On management and optimization of the carbon balance of Estonia - long term perspectives

Randla, Tiina; Vilu, Raivo Abstracts : Symposium on Oil Shale 2002, 18-21 November 2002, Tallinn, Estonia 2002 / p. 63 https://www.ester.ee/record=b1703301*est

On-line coupling of a bioreactor with capillary electrophoresis via a membrane interface for monitoring the degradation of phenols by microorganisms

Kulp, Maria; Vassiljeva, Irina; Vilu, Raivo; Kaljurand, Mihkel 15th International Symposium on Microscale Separations and Analysis HPCE, April 13-18, 2002, Stockholm : abstracts 2002 / p. 249

On-line coupling of a miniaturized bioreactor with capillary electrophoresis, via membrane interface, for monitoring the production of organic acids by microorganisms

Ehala, Sille; Vassiljeva, Irina; Kuldvee, Ruth; Vilu, Raivo; Kaljurand, Mihkel Fresenius journal of analytical chemistry 2001 / 2, p. 168-173

Optimisation of protein extraction from food industry side-streams: barley spent grain and canola press cake

Kriisa, Marie; Viirma, Maret; Taivosalo, Anastassia; Vilu, Raivo 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 128

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>

Optimization of processes of microbial biosynthesis of isotopically labeled biomolecules and their complexes

Vanatalu, Kalju 1999 http://www.ester.ee/record=b1273061*est

Physicochemical, textural, and sensorial properties of fibrous meat analogs from oat-pea protein blends extruded at different moistures, temperatures, and screw speeds

Kaleda, Aleksei; Talvistu, Karel; Vaikma, Helen; Tammik, Mari-Liis; Rosenvald, Sirli; Vilu, Raivo Future foods 2021 / art. 100092, 8 p. : ill <https://doi.org/10.1016/j.fufo.2021.100092> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Possibilities of biodegradation of phenolcontaining wastes originating from the oil-shale basin in Northeastern Estonia

Randla, Tiina; Rožkov, Aleksei; Käär, Arvo; Vilu, Raivo Proceedings of the Estonian Academy of Sciences. Chemistry 1995 / 2/3, p. 185-194 https://www.ester.ee/record=b1072099*est

Post-socialist Estonia - a scenario for rational development into a manageable and adaptable state

Vilu, Raivo 13-th World Conference of World Futures Studies Federation, Turku, Finland, Aug. 23-27, 1993 : abstracts 1993 / p. 78

Product life cycle assessment (LCA) of inactive yeast production

Bashiri, Bashir; Banerjee, Susmita; **Vilu, Raivo** 36th VHYC Yeast Conference : Advances in Science and Industrial Production of Baker's Yeast : "Sustainable yeast production challenges", Duesseldorf, Germany, 22-23 May 2025 / p. 5 https://vh-berlin.org/vhyc2025/VHYC2025_Abstracts.pdf

Production-based and consumption-based national greenhouse gas inventories : an implication for Estonia

Gavrilova, Olga; Vilu, Raivo Ecological economics 2012 / p. 161-173 : ill
<https://www.sciencedirect.com/science/article/pii/S0921800912000432>

Professor Ado Kõstner - vedruga visionäär : [ettekanne prof. A.Kõstneri mälestusseminaril 14. juunil 2004 TTÜs]

Vilu, Raivo Tallinna Tehnikaülikooli aastaraamat 2004 2005 / lk. 297-299

Protein- and lipid-rich solid slaughterhouse waste anaerobic co-digestion : resource analysis and process optimization = Proteiini- ja lipiidirikaste tahkete tapamajajäätmete anaeroobne kooskääritamine : ressursi analüüs ja protsessi optimeerimine

Pitk, Peep 2014 https://www.ester.ee/record=b3724112*est

Protein turnover forms one of the highest maintenance costs in Lactococcus lactis

Lahtvee, Petri-Jaan; Seiman, Andrus; Arike, Liisa; Adamberg, Kaarel; Vilu, Raivo Microbiology 2014 / p.1501-1512 : ill
<https://doi.org/10.1099/mic.0.078089-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Proteome reallocation in Escherichia coli with increasing specific growth rate

Peebo, Karl; Valgepea, Kaspar; Maser, Andres; Nahku, Ranno; Adamberg, Kaarel; Vilu, Raivo Molecular biosystems 2015 / p. 1184-1193 : ill <https://doi.org/10.1039/c4mb00721b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Põld võib anda kütuse paaki ja elektri juhtmesse : [TTÜ professori Raivo Vilu kommentaariga]

Silm, Sander; Vilu, Raivo Roheline Värav : [Eesti Päevalehe ja Maalehe lisa] 2005 / 11. nov., lk. 1

Põlevkivi kaevandamine - kas ja miks ning kelle huvides?

Vilu, Raivo; Polikarpus, Viido Eesti Päevaleht 2006 / 30. okt., lk. 8-9 <https://epl.delfi.ee/artikkel/51062112/polevkivi-kaevandamine-kas-ja-miks-ning-kelle-huvides>

Põlevkivi kaevandamine - keskkonnakaitse võtmeküsimus : [keskkonnaekspertid Tiina Randla ja Raivo Vilu kritiseerivad Eesti inimarengu aruannet]

Randla, Tiina; Vilu, Raivo Eesti Päevaleht 2001 / 14. det., lk. 6 <https://epl.delfi.ee/artikkel/50812926/polevkivi-kaevandamine-keskkonnakaitse-votmekusimus>

Põlevkivi kaevandamine ja kasutamine - milleks?

Vilu, Raivo Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 55-60

Põlevkivi põletamine, selle hind ja alternatiivid : [vestlus prof. Raivo Viluga]

Lotman, Silvia; Vilu, Raivo Roheline Värav : [Eesti Päevalehe ja Maalehe lisa] 2006 / 14. okt., lk. 5

Põlevkivi toob uue Toolse : kaevandamist plaanitakse laiendada : [vestlusringis Raivo Vilu jt.]

Kändler, Tiit; Vilu, Raivo Eesti Päevaleht 2000 / 24. märts, lk. 10 : ill https://artiklid.elnet.ee/record=b1647931*est

Põlevkivifenoole sisaldavate heitvete mikrobioloogiliste puhastusprotsesside uurimine Ida-Virumaa keskkonnaseisundi jätkusuutlikkuse kontekstis

Randla, Tiina 1998 https://www.ester.ee/record=b1240855*est

Põlevkivitööstuse plaanipärane likvideerimine - ainuvõimalik lahendus?

Randla, Tiina; Vilu, Raivo; Männiste, H.-A. Tehnika ja Tootmine 1993 / 11, lk. 6-9: ill

The quantitative measurement of peptidoglycan components obtained from acidic hydrolysis in gram-positive and gram-negative bacteria via hydrophilic interaction liquid chromatography coupled with mass spectrometry

Pismennõi, Dmitri; Kattel, Anna; Belouah, Isma; Nahku, Ranno; Vilu, Raivo; Kobrin, Eeva-Gerda Microorganisms 2023 / art. 2134, 13 p. : ill <https://doi.org/10.3390/microorganisms11092134> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantitative omics-level analysis of growth rate dependent energy metabolism in Lactococcus lactis = Kvantitatiivsetel oomika-meetoditel põhinev kasvuerikiirusest sõltuv Lactococcus lactis'e energiametabolismi analüüs

Lahtvee, Petri-Jaan 2012 https://www.ester.ee/record=b2931362*est

Quantitative proteomics of Escherichia coli : from relative to absolute scale = Kvantitatiivne Escherichia coli proteoomika : relatiivsetest numbritest absoluutsete kogusteni

Arike, Liisa 2012 http://www.ester.ee/record=b2931221*est

Quasi steady state growth of Lactococcus lactis in glucose-limited acceleration stat (A-stat) cultures

Adamberg, Kaarel; Lahtvee, Petri-Jaan; Valgepea, Kaspar; Abner, Kristo; Vilu, Raivo Antonie van Leeuwenhoek 2009 / 3, p. 219-226 <https://pubmed.ncbi.nlm.nih.gov/19184516/>

Raivo Vilu: kaasaegne toidutehnoloogia ja elustiilihaigused [Võrguväljaanne]

Vilu, Raivo err.ee 2021 / fot [Raivo Vilu: kaasaegne toidutehnoloogia ja elustiilihaigused](#)

Rakenduskõrgkool või kutsekõrgkool : HF 2001 toimkonna seisukoht

Vilu, Raivo Õpetajate Leht 2001 / 16. märts, lk. 3 https://artiklid.elnet.ee/record=b2336247*est

Reoveesette ja biojäätmete kooskääritamise energeetiline potentsiaal ning probleemid Kuressaare näitel

Pitk, Peep; Pürjer, Juhan; Vilu, Raivo TEUK XIII : taastuvate energiaallikate uurimine ja kasutamine : kolmeteistkümnenda konverentsi kogumik : [10. november 2011, Tartu] = Investigation and usage of renewable energy sources : thirteenth conference proceedings : [10. November 2011, Tartu] 2011 / lk. 6-17

Right to receive an education, and a learning society

Vilu, Raivo Human rights in Estonia 1998 / p. 31-39: ill

Riiklik toidukontroll peaks olema mõjus

Truus, Kalle; **Vilu, Raivo** Postimees 1996 / 2. aug., lk. 7

Ripening of Gouda-type cheese manufactured from concentrated milk [Online resource]

Taivosalo, Anastassia; Stulova, Irina; Part, Natalja; Sõrmus, Aavo; **Vilu, Raivo** [Cheese Symposium 2018] 2018 / 1 p <https://symposium.inra.fr/cheese2018/Submission/Ripening-of-Gouda-type-cheese-manufactured-from-concentrated-milk>

Ripening of hard cheese produced from milk concentrated by reverse osmosis

Taivosalo, Anastassia; Kriščiunaite, Tiina; Stulova, Irina; Part, Natalja; **Rosend, Julia;** Sõrmus, Aavo; **Vilu, Raivo** Foods 2019 / Art. nr. 165 <https://doi.org/10.3390/foods8050165> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ruumiinfo süsteemid : globaalne asukoha määramise süsteem

Vilu, Raivo Test Site Estonia : [ideenäituse prospekt] 1996 / lk. 24-25

Saateks

Vilu, Raivo Elu ja õppimine : elukestva õppimise toetamine : 7.-8. detsember 2001, Viljandi : [Eesti Haridusfoorumi '01] ettekannete ja sõnavõtte kogumik 2002 / lk. 5-6

Scenarios and strategies for vocational education and training in Europe

Vilu, Raivo European Synthesis Report on Phase, CEDEFOP 2000 / p. 130

Screening of Nutraceuticals and Plant Extracts for Inhibition of Amyloid- β Fibrillation

Witter, Steffi; Samoson, Ago; Vilu, Raivo; Witter, Raiker Journal of Alzheimer's disease 2020 / p. 1003-1012 : ill <https://doi.org/10.3233/JAD-190758> https://www.etis.ee/File/DownloadPublic/bf09dd82-f7d2-45eb-8e71-aac7816291c9?name=JAD_73_2020_1003.pdf&type=application%2Fpdf [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_Abtract-Book.pdf

Self-reproduction and doubling time limits of different cellular subsystems

Abner, Kristo; Šverns, Peter; Arold, Janar; Morell, Indrek; Lints, Taivo; Medri, Sander; Seiman, Andrus; Adamberg, Kaarel; Vilu, Raivo npj systems biology and applications 2023 / art. 44, 10 p. : ill <https://doi.org/10.1038/s41540-023-00306-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Single-cell model of prokaryotic cell cycle

Abner, Kristo; Aaviksaar, Tõnis; Adamberg, Kaarel; Vilu, Raivo Journal of theoretical biology 2014 / p. 78-87 : ill <https://doi.org/10.1016/j.jtbi.2013.09.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Specific growth rate dependent transcriptome profiling of Escherichia coli K12 MG1655 in accelerostat cultures

Nahku, Ranno; Valgepea, Kaspar; Lahtvee, Petri-Jaan; Erm, Sten; Abner, Kristo; Adamberg, Kaarel; Vilu, Raivo Journal of biotechnology 2010 / 1, p. 60-65 <https://www.sciencedirect.com/science/article/pii/S0168165609004726>

Steady state growth space study of Lactococcus lactis in D-stat cultures

Lahtvee, Petri-Jaan; Valgepea, Kaspar; Nahku, Ranno; Abner, Kristo; Adamberg, Kaarel; Vilu, Raivo Antonie van Leeuwenhoek 2009 / 4, p. 487-496 <https://pubmed.ncbi.nlm.nih.gov/19603284/>

Steady-state phenol degradation in a fluidized-bed bioreactor by immobilized cells of Pseudomonas putida
Randla, Tiina; Tiisler, Lilian; Käär, Arvo; Vilu, Raivo Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 84

Stock culture heterogeneity rather than new mutational variation complicates short-term cell physiology studies of Escherichia coli K-12 MG1655 in continuous culture
Nahku, Ranno; Peebo, Karl; Valgepea, Kaspar; Barrick, Jeffrey E.; Adamberg, Kaarel; Vilu, Raivo Microbiology 2011 / p. 2604-2610 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3352173/>

Study of Cells in the Steady State Growth Space : chapter 9
Erm, Sten; Abner, Kristo; Seiman, Andrus; Adamberg, Kaarel; Vilu, Raivo Continuous biomanufacturing I innovative technologies and methods : innovative technologies and methods 2017 / p. 233-258 <https://doi.org/10.1002/9783527699902.ch9>

A study of milk coagulability = Piima kalgendatavuse uurimine
Kriščiunaite, Tiina 2013 http://www.ester.ee/record=b2944008*est

Study of the growth of bacteria in solid state matrices and (opaque) liquid media using micro-calorimetry
Kabanova, Natalja; Kriščiunaite, Tiina; Stulova, Irina; Laht, Tiit-Maie; Vilu, Raivo Food and nutrition = Toit ja toitumine. XVII : book of abstracts : the 5th Baltic Conference on Food Science and Technology : Foodbalt-2010 2010 / p. 94

Study of VFAs formation during anaerobic digestion of thermally treated sludge by respirometric Oxitop method
Menert, Anne; Michelis, Merje; Helmja, Kati; Tahkoniemi, Heli Anneli; Vaalu, Tarmo; Malsub, Tõnu; Vilu, Raivo; Kaljurand, Mihkel Proceedings of 5th Conference on the Establishment of Cooperation between Companies and Institutions in the Baltic Sea Region 2005 / p. 563 <https://open.lnu.se/index.php/eco-tech/article/view/2186>

Sulfaate sisaldavate heitvete puhastamine anaeroobses annusreaktoris
Krapivina, Marina; Kurissoo, Tõnu; Blonskaja, Viktoria; Vilu, Raivo XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 56

Sustainable additive manufacturing : an overview on life cycle impacts and cost efficiency of laser powder bed fusion
Rahmani, Ramin; Bashiri, Bashir; Lopes, Sergio Ivan; Hussain, Abrar; Maurya, Himanshu Singh; Vilu, Raivo Journal of manufacturing and materials processing 2025 / art. 18 <https://doi.org/10.3390/jmmp9010018>

Sustainable development - problems of measurement and possibilities of realisation : (case study of North-Eastern Estonia)
Vilu, Raivo; Randla, Tiina Vide. Tehnologija. Resursi = Environment. Technology. Resources 1997 / p. 26-28

Sustainable diets, from design to implementation by multi-objective optimization-based methods and policy instruments
Bashiri, Bashir; Kaleda, Aleksei; Vilu, Raivo Frontiers in Sustainable Food Systems 2025 / art. 1629739 <https://doi.org/10.3389/fsufs.2025.1629739> <https://www.frontiersin.org/journals/sustainable-food-systems/articles/10.3389/fsufs.2025.1629739/full>

[Sõnavõtt]
Vilu, Raivo Eesti hariduskonverents, 20.-22. aprill 1995 : ettekannete ja sõnavõttude kogumik 1996 / lk. 115-117

[Sõnavõtt]
Vilu, Raivo Eesti hariduskonverentsi jätkukonverents, 27.-28. oktoober 1995 : ettekannete ja sõnavõttude kogumik 1996 / lk. 59-61

[Sõnavõtt diskutandina Eesti Haridusfoorumi IV sessioonil "Kõrghariduse roll haridussüsteemi muutustes"]
Vilu, Raivo Õppimine ja õpetamine õpiühiskonnas : 8.-9. detsember 2000, Tartu : ettekannete ja sõnavõttude kogumik 2001 / lk. 116-117

[Sõnavõtt Eesti Haridusfoorum '99 paneeldiskussioonil "Hariduse kvaliteet"]
Vilu, Raivo Eesti haridussüsteemi arengu kontseptsioon : 10.-11. detsember 1999, Tallinn : ettekannete ja sõnavõttude kogumik 2000 / lk. 65

[Sõnavõtt Eesti Haridusfoorum '99 paneeldiskussioonil "Kutseharidus ja -koolitus"]
Vilu, Raivo Eesti haridussüsteemi arengu kontseptsioon : 10.-11. detsember 1999, Tallinn : ettekannete ja sõnavõttude kogumik 2000 / lk. 93-94

[Sõnavõtt kongressil]
Vilu, Raivo Kolmas rahvusliku kasvatuse kongress : XXI sajandi rahvuslik Eesti, 12.-13. aprill 1996 : ettekannete ja sõnavõttude kogumik 1997 / lk. 274-275

[Sõnavõtt paneeldiskussioonil "Hariduse kättesaadavuse sotsiaalsed ja regionaalsed aspektid"]

Vilu, Raivo Eesti haridusfoorum '97 : hariduse kättesaadavusest ja kvaliteedist õpiühiskonda pürgivas Eestis, 31. okt.-2. nov. 1997, Narva-Jõesuu : ettekannete ja sõnavõttude kogumik 1998 / lk. 44-47

[Sõnavõtt paneeldiskussioonil "Muukeelne haridus Eestis"]

Vilu, Raivo Eesti haridusfoorum '97 : hariduse kättesaadavusest ja kvaliteedist õpiühiskonda pürgivas Eestis, 31. okt.-2. nov. 1997, Narva-Jõesuu : ettekannete ja sõnavõttude kogumik 1998 / lk. 78-84

Säästliku arengu käivitamisest

Randla, Tiina; Kurisoo, Tõnu; Vilu, Raivo XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 140-141

Sünteesilisest bioloogiast, aga ka GModest

Vilu, Raivo Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 93-97

Süsinikutsükli tasakaalu säilitamisele suunatud pikaajalisest Eesti energeetika arengustsenaariumist

Randla, Tiina; Vilu, Raivo Eesti süsinikubilansi ökoloogiast ja ökonoomikast : Eesti XIII Ökoloogiapäev 3. mail 2002, Tartus 2002 / lk. 7-18 : ill

Synthesis and biodegradation studies of a series of novel L-phenylalanine derived ionic liquids

Kapitanov, Illia; Jordan, Andrew; Haiss, Annette; Špulak, Marcel; Karpichev, Yevgen; Raba, Grete; Gupta, Vijai Kumar; Vilu, Raivo; Kümmerer, Klaus; Gathergood, Nicholas 20th European Symposium on Organic Chemistry ESOC 2017 : July 2-6, 2017, Cologne, Germany : abstracts 2017 / p. OMSC009 : ill

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](#)

Systems biology approach reveals that overflow metabolism of acetate in *Escheria coli* is triggered by carbon catabolite repression of acetyl-CoA synthetase

Valgepea, Kaspar; **Adamberg, Kaarel**; Nahku, Ranno; Lahtvee, Petri-Jaan; Arike, Liisa; **Vilu, Raivo** BMC systems biology 2010 / p. 166 <https://pubmed.ncbi.nlm.nih.gov/21122111/>

Tallinna (Linna)ülikooli kujunemine meedias : [Olav Aarna, Raivo Vilu, Andres Keevalliku jt. ajakirjanduses avaldatud argumentidega]

Lään, Illari; **Aarna, Olav; Vilu, Raivo; Keevallik, Andres**; Burk, Peeter Universitas Tartuensis 2004 / 5. nov., lk. 2-3

Tapa sõjaväelennuvälja saastunud põhjavee puhastamistehnoloogiate uurimine

Rožkov, Aleksei; Käär, Arvo; Vilu, Raivo EMS 96 teaduskonverents, 6.-7. juuni 1996, Tallinn = EMS 96 Scientific Conference, 6-7 June 1996, Tallinn 1996 / [1] p

Teabesüsteemid ja Eesti

Vilu, Raivo; Veskimets, K. Rahva Hääl 1993 / 26. nov https://artiklid.elnet.ee/record=b1921287*est

Techno-functional and sensory characterization of commercial plant protein powders

Jakobson, Kadi; Kaleda, Aleksei; Adra, Karl; Tammik, Mari-Liis; Vaikma, Helen; Kriščiunaite, Tiina; Vilu, Raivo Foods 2023 / art. 2805 <https://doi.org/10.3390/foods12142805> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Technology and know-how for optimisation and control of microbiological processes

Vilu, Raivo; Paalme, Toomas Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 192 https://www.ester.ee/record=b1052731*est

Tehnikaülikool avab uuel aastal ukse koolilastele : [jaanuaris 2005 algab loodusteaduse kursus (Science) ja sügissemestril kursus "Kaasaegne keskkond" (e-õppena) : kommenteerivad Raivo Vilu ja TTÜ avatud ülikooli juhataja Reet Neudorf]

Kangro, Tiina; Vilu, Raivo; Neudorf, Reet Linnaleht : TTÜ 2004 / 3. det., lk. 2

Tehnoloogia ja infrastruktuurid

Vilu, Raivo Maailm ja Eesti. Tulevikutrendid 1996 / lk. 103-114

Teisitimõtteleja Raivo Vilu : [vestlus Raivo Viluga]

Vilu, Raivo; Tohver, Sirje Õpetajate Leht 2001 / lk. 8 : fot https://artiklid.elnet.ee/record=b2334056*est

The composition and metabolism of faecal microbiota is specifically modulated by different dietary polysaccharides and

mucin : an isothermal microcalorimetry study

Adamberg, Kaarel; Kolk, Kaia; Jaagura, Madis; Vilu, Raivo; Adamberg, Signe Beneficial microbes 2018 / p. 21-34 : ill
<https://doi.org/10.3920/BM2016.0198> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The Effect of Diet and Dietary Fiber on the Human Gut Microbiota in vitro and in vivo = Toitumise ja kiudainete mõju inimese seedetrakti mikrobiotale in vitro ja in vivo

Jaagura, Madis 2021 https://www.ester.ee/record=b5468551*est <https://digikogu.taltech.ee/et/Item/36a9b389-2501-4e64-a9d2-681d54cbea52>
<https://doi.org/10.23658/taltech.50/2021>

The effect of hydrogen peroxide on the growth of thermophilic lactic starter and acid gelation of UHT milk

Kriščiunaite, Tiina; Stulova, Irina; Kabanova, Natalja; Laht, Tiiu-Maie; Vilu, Raivo International dairy journal 2011 / p. 239-246 : ill
<https://www.sciencedirect.com/science/article/pii/S0958694610002608>

The effect of milk heat treatment on the growth characteristics of lactic acid bacteria

Stulova, Irina; Kabanova, Natalja; Kriščiunaite, Tiina; Laht, Tiiu-Maie; Vilu, Raivo Agronomy research 2011 / p. 473-478 : ill

The effects of milk composition and treatment on the growth of Lactic Acid Bacteria = Piima koostise ja töötlemise mõju piimhappebakterite kasvule

Stulova, Irina 2013 https://www.ester.ee/record=b3003913*est

The growth and nutrient utilization of the insect cell line Spodoptera frugiperda Sf9 in batch and continuous culture

Drews, Monika; Paalme, Toomas; Vilu, Raivo Journal of biotechnology 1995 / p. 187-198

The growth kinetics of Pseudomonas Putida on benzoate utilizing ortho- or meta-pathways

Sarand, Inga; Paalme, Toomas; Vilu, Raivo Kinetics, dynamics and physiology of microbial growth : [... held at the Gottlieb-Duttweiler Institute in Rüschlikon (Zürich), Switzerland, from October 17-20, 1992] 1993 / p. 69

The growth rate control in Escherichia coli at near to maximum growth rates : the A-stat approach

Paalme, Toomas; Elken, R.; Kahru, Anne; Vanatalu, Kalju; Vilu, Raivo Antonie van Leeuwenhoek journal of microbiology 1997 / p. 217-230: ill

The rate and degree of proteolysis is determined by cheesemaking conditions

Laht, Tiiu-Maie; Kask, Signe; Vilu, Raivo; Pajoma, A. 24th International Dairy Congress : Melbourne, Australia, 18th-22nd September 1994 : dairying in a new global environment. Vol. 1, Brief communications and abstracts of posters and invited papers 1994 / p. 362

The role of thermophilic starters in acceleration of ripening of swiss-type cheeses

Laht, Tiiu-Maie; Vilu, Raivo FEMS microbiology reviews 1993 / 1-3, p. 170

There is no alternative to the sustainable use of resources

Randla, Tiina; Vilu, Raivo Is Estonia socially sustainable? 2001 / p. 33-35

Total synthesis of vicine and convicine

Hunt, Kaarel Erik; Kriščiunaite, Tiina; Vilu, Raivo; Kanger, Tõnis 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 78
https://tftak.eu/foodbalt/assets/files/Foodbalt_Book_of_Abstacts.pdf

Toxicological evaluation of certain food additives

Vilu, Raivo 1996

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>

Treatment of sulphate containing yeast wastewater in an anaerobic sequence batch reactor

Krapivina, Marina; Kurissoo, Tõnu; Blonskaja, Viktoria; Zub, Sergei; Vilu, Raivo Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 1, p. 38-52 : ill

Tuleb teha lõpp panustamisele põlevkivienergeetikasse

Vilu, Raivo Äripäev 2004 / 7. mai, lk. 27 <https://www.aripeev.ee/uudised/2004/05/06/tuleb-teha-lopp-panustamisele-polevkivienergeetikasse>

Tulevikku planeerides tuleb arvestada globaalsete tehnoloogiatrendidega

Vilu, Raivo Sõnumileht 1996 / 22. mai, lk. 16

UPLC/MS based method for quantitative determination of fatty acid composition in Gram-negative and Gram-positive bacteria

Špitsmeister, Merli; **Adamberg, Kaarel; Vilu, Raivo** Journal of microbiological methods 2010 / p. 288-295
<https://www.sciencedirect.com/science/article/pii/S016770121000237X>

Use of mother-daughter multi-bioreactor systems for studies of steady state microbial growth space = Ema-tütre multi-reaktorite süsteemide kasutamine mikroorganismide püsiseisundis kasvuruumi uurimisel

Erm, Sten 2017 <https://digi.lib.ttu.ee/i/?7630&> https://www.ester.ee/record=b4686001*est

Use of slow dilution rate changes in the study of bacterial growth characteristics

Vilu, Raivo; Paalme, Toomas International Symposium on Bioreactor Performance, 15-17 March, 1993, Helsingor, Denmark : proceedings 1993 / p. 121-129

Use of two-stage anaerobic treatment for distillery waste

Blonskaja, Viktoria; Menert, Anne; Vilu, Raivo Advances in environmental research 2003 / 3, p. 672-678 : ill
<https://www.sciencedirect.com/science/article/pii/S1093019102000382>

Use of two-stage anaerobic treatment for distillery waste

Blonskaja, Viktoria; Menert, Anne; Vilu, Raivo Sludge management entering the 3rd millennium : industrial, combined, water and wastewater residues : conference proceedings, the Grand Hotel, Taipei, Taiwan, 25-28 March 2001 2001 / p. 166-171 : ill

Uuring : põlevkivist elektri tootmine hävitab Kirde-Eesti põhjaveevaru : [jutuajamine TTÜ teadlaste Raivo Vilu ja Leo Vallneriga]

Käärt, Ulvar; **Vilu, Raivo; Vallner, Leo** Eesti Päevaleht 2005 / 20. dets., lk. 5 <https://epl.delfi.ee/artikkel/51026457/uuring-polevkivist-elektri-tootmine-havitab-kirde-estti-pohjaveevaru>

Vaadaku väärindamine - glükoosi-galaktoosi siirupi tootmistingimuste optimeerimine ning siirupi kasutamine erinevates toodetes

Kriisa, Marie; Stulova, Irina; Kallastu, Aili; **Vilu, Raivo** Terve loom ja tervislik toit : konverentsi "Terve loom ja tervislik toit 2019" artiklite kogumik 2019 / lk. 54-55 https://www.ester.ee/record=b5195332*est

Vadaku väärindamine – glükoosi-galaktoosi siirupi tootmistingimuste optimeerimine ning siirupi kasutamine erinevates toodetes

Kriisa, Marie; Stulova, Irina; Kallastu, Aili; **Vilu, Raivo** Terve loom ja tervislik toit : konverentsi "Terve loom ja tervislik toit 2019" artiklite kogumik 2019 / lk. 54-55 <http://hdl.handle.net/10492/4802> https://www.ester.ee/record=b5195332*est

Validation of critical factors for the quantitative characterization of bacterial physiology in accelerostat cultures = Kriitiliste faktorite valideerimine bakterite füsioloogia uurimiseks akselerostaates kultiveerimiseksperimentides Nahku, Ranno 2012

Valorization of barley spent grain – a source for plant proteins

Föste, Maike; Kütt, Mary-Liis; Kriisa, Marie; Viirard, Ene; **Vilu, Raivo**; Mittermaier, Stephanie 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 115
https://tftak.eu/foodbalt/assets/files/Foodbalt_Book_of_Abstacts.pdf

Veel kord Eesti energeetika pikaajalisest arenguhoonest

Randla, Tiina; Vilu, Raivo Kaasaegse ökoloogia probleemid : Eesti ökoloogia globaliseeruv maailmas : Eesti IX Ökoloogiakonverentsi lühiaartiklid : Tartu, 11.-12. aprill 2003 2003 / lk. 271-278 : ill

Viljandis algab "Haridusfoorum 2001"

Vilu, Raivo Õpetajate Leht 2001 / 7. dets., lk. 1 : fot https://artiklid.elnet.ee/record=b2336255*est

Õigus saada haridust ja õpiühiskond

Vilu, Raivo Inimõigused Eestis 1998 / lk. 31-39: ill

"Õpi-Eesti" kaitseks

Vilu, Raivo Õpetajate Leht 2001 / 23. nov., lk. 5 https://artiklid.elnet.ee/record=b2336246*est

Õpi-Eesti on tulekul

Ruus, Viive; Sarv, Ene; **Vilu, Raivo**; Jakobson, Lembit Õpetajate Leht 1998 / 6. nov., lk. 2 https://artiklid.elnet.ee/record=b2387006*est

Õppimine 21. sajandil

Vilu, Raivo Test Site Estonia : [ideenäituse prospekt] 1996 / lk. 12-13

Õppimine on hinnatuim tehnoloogia

Sarv, Ene; **Vilu, Raivo** Sõnumileht 1997 / 31. okt., lk. 7

Ülevaade diskussioonist Kirde-Eesti veeprobleemide teemal

Reinsalu, Enno; Vilu, Raivo; Vallner, Leo; Perens, Rein; Puura, Erik 90 aastat põlevkivi kaevandamist Eestis : [5. mai 2006, Tallinn : Eesti Mäekonverentsi 2006 kogumik] 2006 / lk. 46-49

Ülikool ja rakenduskõrgkool ei taha mahtuda ühe katuse alla : [rakenduskõrghariduse õppekavadest ja ülikooli ülesandest ette valmistada magistreid ja doktoreid : intervjuu Raivo Viluga]

Vilu, Raivo; Tohver, Sirje Õpetajate Leht 2001 / 9. nov., lk. 5 : portr https://artiklid.elnet.ee/record=b2336251*est

Ülikool või rakenduskõrgkool

Vilu, Raivo Õpetajate Leht 2002 / 2. aug., lk. 4 https://artiklid.elnet.ee/record=b2336253*est

Изучение стабилизирующего действия препарата Biotreat 100 на процессы анаэробной очистки сточных вод пищевой промышленности

Krapivina, Marina; Menert, Anne; Panitševa, N.; **Vilu, Raivo** Международная конференция молодых ученых "Химия и биотехнология пищевых веществ. Экологически безопасные технологии на основе возобновляемых природных ресурсов" : 26-28 сентября 2000, Москва 2000 / с. 144

Применение фосфатрастворяющих микроорганизмов для использования нерастворимых запасов фосфора в почве

Vassiljeva, Irina; Njunkova, Olga; Kurissoo, Tõnu; Vilu, Raivo Международная конференция молодых ученых "Химия и биотехнология пищевых веществ. Экологически безопасные технологии на основе возобновляемых природных ресурсов" : 26-28 сентября 2000, Москва 2000 / с. 138

Сценарии будущего образованию Эстонии 2015

Loogma, Krista; Ruubel, Rein; Ruus, Viive; Sarv, Ene-Silvia; Vilu, Raivo Eesti ühiskond ja haridus - 2015 1998 / lk. 62-76