

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 \(PDF\)](#)

Characterisation of chemical, microbial and sensory profiles of commercial kombuchas

Andreson, Maret; Kazantseva, Jekaterina; **Kuldjärv, Rain**; Malv, Esther; **Vaikma, Helen**; Kaleda, Aleksei; Kütt, Mary-Liis; **Vilu, Raivo** International journal of food microbiology 2022 / art. 109715 <https://doi.org/10.1016/j.ijfoodmicro.2022.109715> [Journal metris at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cryo-protective effect of an ice-binding protein derived from Antarctic bacteria

Mangiagalli, Marco; Bar-Dolev, Maya; Tedesco, Pietro; Natalello, Antonino; **Kaleda, Aleksei** The FEBS journal 2017 / p. 163-177 : ill <https://doi.org/10.1111/febs.13965> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at Scopus](#)

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>

Does surface morphology of plant-based protein powders influence sensory perception?

Jakobson, Kadi; Kaleda, Aleksei; Kriščiunaite, Tiina 16th Baltic Conference on Food Science and Technology "Traditional meets non-traditional in future food" : FOODBALT 2023 : Book of abstracts 2023 / p. 70 https://conferences.llu.lv/sites/llucs/files/conferences/foodbalt_2023/menu_attachments/FoodBalt_2023_Abstract_book.pdf

The effect of apple juice concentration on cider fermentation and properties of the final product

Rosend, Julia; **Kaleda, Aleksei**; **Kuldjärv, Rain**; **Arju, Georg**; **Nisamedtinov, Ildar** Foods 2020 / art. 1401, 12 p <https://doi.org/10.3390/foods9101401> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of quality properties of added gluten on the texture and sensory properties of rye and buckwheat breads

Traksmaa, Anna; Kaleda, Aleksei; **Nurme, Britta**; **Laos, Katrin** Agronomy research 2023 / 13 p. : ill <https://doi.org/10.15159/ar.23.082> [Journal metrics at Scopus](#) [Article at Scopus](#)

Erratum to "Market mapping of plant-based milk alternatives by using sensory (RATA) and GC analysis" [Future Foods, 4 (2021) 100049] (Future Foods (2021) 4, (S2666833521000393), (10.1016/j.fufo.2021.100049))

Vaikma, Helen; Kaleda, Aleksei; **Rosend, Julia**; Rosenvald, Sirli Future Foods 2022 / Art. nr. 100166 <https://doi.org/10.1016/j.fufo.2022.100166> [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)

Extraction of ice structuring proteins from winter rye and winter wheat and assessment of activity

Kaleda, Aleksei; **Taal, Laura**; **Laos, Katrin** 9th Baltic Conference on Food Science and Technology "Food for Consumer Well-Being" : FOODBALT 2014 : Jelgava, Latvia, 8-9 May 2014 2014 / [1] p

Functional analysis of ice-binding proteins and practical application in ice cream = Jääga seonduvate valkude funktsionaalne analüüs ja kasutamine jäätises

Kaleda, Aleksei 2018 <https://digi.lib.ttu.ee/i/?11144> https://www.ester.ee/record=b5172715*est

How to balance the yield and protein content of air-classified pulse flour : the influence of the restriction valve

De Angelisa, Davide; Kaleda, Aleksei; Pasqualone, Antonella; **Vaikma, Helen**; Squeo, Giacomo; Caponio, Francesco; Summo, Carmine Chemical engineering transactions 2021 / p. 241-246 <https://doi.org/10.3303/CET2187041> [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)

Identification and functional analysis of a novel Antarctic ice binding protein

Mangiagalli, Marco; Bar-Dolev, Maya; **Kaleda, Aleksei**; **Natalello, Antonino** New biotechnology 2016 / p. S212 <https://doi.org/10.1016/j.nbt.2016.06.1452>

Impact of short-term heat treatment on the structure and functional properties of commercial furcellaran compared to

commercial carrageenans

Eha, Kairit; Pehk, Tõnis; Heinmaa, Ivo; Kaleda, Aleksei; **Laos, Katrin** Heliyon 2021 / art. e06640

<https://doi.org/10.1016/j.heliyon.2021.e06640> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Instability of low-moisture carrageenans as affected by water vapor sorption at moderate storage temperatures

Friedenthal, Margus; **Eha, Kairit**; Kaleda, Aleksei; Part, Natalja; **Laos, Katrin** SN Applied Sciences 2020 / art. 243, 6 p. : ill

<https://doi.org/10.1007/s42452-020-2032-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Instability of low-moisture carrageenans as affected by water vapor sorption at moderate storage temperatures : [conference paper]

Friedenthal, Margus; **Eha, Kairit**; Kaleda, Aleksei; Part, Natalja; **Laos, Katrin** 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 116

https://tftak.eu/foodbalt/assets/files/Foodbalt_Book_of_Abstacts.pdf

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>

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>

Market mapping of plant-based milk alternatives by using sensory (RATA) and GC analysis

Vaikma, Helen; Kaleda, Aleksei; **Rosend, Julia**; Rosenvald, Sirli Future foods 2021 / art. 100049

<https://doi.org/10.1016/j.fufo.2021.100049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Physicochemical and sensorial evaluation of meat analogues produced from dry-fractionated pea and oat proteins

De Angelis, Davide; Kaleda, Aleksei; **Vaikma, Helen**; Tamm, Martti; **Tammik, Mari-Liis**; Squeo, Giacomo; Summo, Carmine Foods 2020 / art. 1754, 15 p <https://doi.org/10.3390/foods9121754> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Plant based milk alternatives - what makes them "milky"

Kalde, Helen; Rosenvald, Sirli; **Rosend, Julia**; Kaleda, Aleksei 14th Baltic Conference on Food Science and Technology

"Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 60

Saturn-shaped ice burst pattern and fast basal binding of an ice-binding protein from an Antarctic bacterial consortium

Kaleda, Aleksei; Haleva, Lotem; Sarusi, Guy Langmuir 2019 / p. 7337-7346 : ill <https://doi.org/10.1021/acs.langmuir.8b01914> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structure of a bacterial ice binding protein with two faces of interaction with ice

Mangiagalli, Marco; Sarusi, Guy; **Kaleda, Aleksei**; Bar Dolev, Maya The FEBS journal 2018 / p. 1653-1666 : ill

<https://doi.org/10.1111/febs.14434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

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](#)

Water sorption behaviour of commercial furcellaran

Eha, Kairit; Kaleda, Aleksei; Menert, Anne; **Laos, Katrin** Heliyon 2022 / 10 p. : ill <https://doi.org/10.1016/j.heliyon.2022.e11056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

What would you want for a drink? Sensory mapping of plant-based milk alternatives

Vaikma, Helen; **Kaleda, Aleksei**; **Rosend, Julia**; **Rosenvald, Sirli** EUROSENSE 2020: 9th European Conference on Sensory and Consumer Research 2020