

Projekta Izp-2020/1-0422 rezultāti

Divdīgļlapju dzimtu augi un zaļās tehnoloģijas kā perspektīva alternatīva pieeja tokotrienolu pieejamības uzlabošanai no nekonvencionāliem avotiem

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

1. Analytical scale supercritical fluid chromatography for the analysis of nine tocopherols in 24 different cold-pressed plant oils: Method development, validation, and isolation of tocopherols and plastoquinone-10. *Journal of Food Composition and Analysis* (Q1 in Food Science), 2022, 110, 104586, <https://doi.org/10.1016/j.jfca.2022.104586>
2. Free and esterified tocopherols, tocopherols and other extractable and non-extractable tocopherol-related molecules: Compendium of knowledge, future perspectives and recommendations for chromatographic techniques, tools, and approaches used for tocopherol determination. *Molecules* (Q1 in Analytical Chemistry), 2022, 27, 6560, <https://doi.org/10.3390/molecules27196560>
3. Seven underutilized species of the Fabaceae family with high potential for industrial application as alternative sources of oil and lipophilic bioactive compounds. *Industrial Crops and Products* (Q1 in Agronomy and Crop Science), 2022, 186, 115251, <https://doi.org/10.1016/j.indcrop.2022.115251>.
4. Crab apple (*Malus* spp.) seed tocopherol profile: Impact of genotype, species, purpose and rootstock. *Agronomy* (Q1 in Agronomy and Crop Science), 2022, 12, 2736, <https://doi.org/10.3390/agronomy12112736>
5. Evaluation of selected medicinal, timber and ornamental legume species' seed oils as sources of bioactive lipophilic compounds. *Molecules* (Q1 in Analytical Chemistry), 2023, 28, 3994, <https://doi.org/10.3390/molecules28103994>.
6. Free tocopherols and tocopherols in 82 plant species' oil: Chemotaxonomic relation as demonstrated by PCA and HCA. *Food Research International* (Q1 in Food Science), 2023, 164, 112386, <https://doi.org/10.1016/j.foodres.2022.112386>.
7. Lipophilic profile of mature seeds of unconventional edible tree legumes. *European Food Research and Technology* (Q1 in Food Science), 2023, 249, 1543–1550, <https://doi.org/10.1007/s00217-023-04234-9>.

8. Tocopherols in cultivated apple *Malus* sp. seeds: Composition, variability and specificity. *Plants* (Q1 in Plant Science), 2023, 12, 1169, <https://doi.org/10.3390/plants12051169>
9. Cranberry (*Vaccinium macrocarpon* Aiton) seeds: An exceptional source of tocotrienols. *Scientia Horticulturae* (Q1 in Horticulture), 2024, 331, 113107, <https://doi.org/10.1016/j.scienta.2024.113107>
10. Evaluation of RPLC stationary phases for tocopherol and tocotrienol positional isomer separation: Method development and profiling. *Talanta* (Q1 in Analytical Chemistry), 2024, 277, 126360, <https://doi.org/10.1016/j.talanta.2024.126360>
11. Phytochemicals in recovered seed oils from by-products of common quince (*Cydonia oblonga*) and Japanese quince (*Chaenomeles japonica*). *European Journal of Lipid Science and Technology* (Q2 in Food Science), 2024, 126, 2300265, <https://doi.org/10.1002/ejlt.202300265>.
12. Supercritical fluid chromatography with fluorescence detection for tocochromanol profiling in oils and seed ethanol extracts: A comparative study with NPLC. *Microchemical Journal* (Q1 in Analytical Chemistry), 2024, 199, 110225, <https://doi.org/10.1016/j.microc.2024.110225>.