

Annual variation of yield and composition of the essential oil of common juniper (*Juniperus communis* L.) branches from Estonia

Raal, Ain; Kanut, Margarita; **Orav, Anne** Baltic forestry 2010 / 1, p. 50-56 : ill

https://www.researchgate.net/publication/285778422_Annual_Variation_of_Yield_and_Composition_of_the_Essential_Oil_of_Common_Juniper_Juniperus_communis_L_Branches_from_Estonia

β -Asarone content and essential oil composition of *Acorus calamus* L. rhizomes from Estonia

Raal, Ain; **Orav, Anne**; Gretšušnikova, Tatjana Journal of Essential Oil Research 2016 / p. 299 - 304

<https://doi.org/10.1080/10412905.2016.1147391> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Chemical Composition and Antibacterial Effect of *Mentha* spp. Grown in Estonia

Kapp, Karmen; Püssa, Tõnu; **Orav, Anne**; Roasto, Mati; Raal, Ain; Vuorela, Pia; Vuorela, Heikki; Tammela, Päivi Natural product

communications 2020 / 14 p <https://doi.org/10.1177/1934578X20977615> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Chemical composition of essential oil of common juniper (*Juniperus communis* L.) branches from Estonia

Raal, Ain; Komarov, Rostislav; **Orav, Anne**; Kapp, Karmen; Grytsyk, Andriy; Koshovy, Oleh ScienceRise: Pharmaceutical Science

2022 / p. 66 - 73 <https://doi.org/10.15587/2519-4852.2022.271048> Journal metrics at Scopus Article at Scopus

Chemical composition of red wines made from hybrid grape and common grape (*Vitis vinifera* L.) cultivars

Pedastsaar, Priit; **Vaher, Merike**; Helmja, Kati; Kulp, Maria; Kaljurand, Mihkel; Karp, Kadri; Raal, Ain; Karathanos, Vaivos; Püssa,

Tõnu Proceedings of the Estonian Academy of Sciences 2014 / p. 444-453 : ill https://artiklid.elnet.ee/record=b2707387*est

<https://doi.org/10.3176/proc.2014.4.10> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Chemical composition of *Serpulli herba* essential oil of Estonian origin

Paaver, Urve; **Orav, Anne**; Arak, Elmar; Mäeorg, Uno; Raal, Ain 1st BBBB Conference on Pharmaceutical Sciences : September 26-28, 2005, Siofok, Hungary : programme book 2005 / p. 191-195

Chemosystematic markers for the essential oils in leaves of *Mentha* species cultivated or growing naturally in Estonia

Orav, Anne; Kapp, Karmen; Raal, Ain Proceedings of the Estonian Academy of Sciences 2013 / p. 175-186

https://artiklid.elnet.ee/record=b2624901*est <https://doi.org/10.3176/proc.2013.3.03> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparacion de aceites esenciales de *Matricaria recutita* L. de origen diverso

Raal, Ain; Arak, Elmar; **Orav, Anne**; Ivask, Kaie Ars pharmaceutica 2004 / 2, p. 159-165 [https://www.ugr.es/~ars/abstract/44-159-](https://www.ugr.es/~ars/abstract/44-159-03.pdf)

[03.pdf](https://www.ugr.es/~ars/abstract/44-159-03.pdf)

Comparative analysis of content and composition of essential oils of *Thymus vulgaris* L. from different regions of Europe

Raal, Ain; Gontova, Tetiana; Palmeos, Maie; **Orav, Anne**; Sayakova, Galiya; Koshovy, Oleh Proceedings of the Estonian Academy

of Sciences 2024 / p. 332-344 <https://doi.org/10.3176/proc.2024.4.02> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative analysis of the essential oil of the underground organs of *Valeriana* spp. from different countries

Raal, Ain; Kokitko, Valeriia; Odyntsova, Vira; **Orav, Anne**; Koshovy, Oleh Phytion-International Journal of Experimental Botany 2024 /

p. 1365 - 1382 <https://doi.org/10.32604/phyton.2024.053754> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative chemical composition of the essential oil of *Mentha x piperita* L. from various geographical sources

Orav, Anne; Raal, Ain; Arak, Elmar Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 4, p. 174-181 : ill

Comparative chemical composition of the essential oil of *Thymus vulgaris* L. from different geographical sources

Raal, Ain; Arak, Elmar; **Orav, Anne** Herba Polonica 2005 / 1/2, p. 10-17

Comparative study of antioxidant capacity of *Rheum rhaponticum* root polyphenols

Raudsepp, Piret; **Helmja, Kati**; Raal, Ain; **Vaher, Merike**; Püssa, Tõnu XXIVth International Conference on Polyphenols : Polyphenols

Communications 2008 : Salamanca, 8th-11th July 2008. Volume 1 2008 / p. 231-232 : ill

https://www.researchgate.net/publication/286933217_Comparative_study_of_antioxidant_capacity_of_Rheum_rhaponticum_root_polyphenols

Comparison of essential oil content and composition of wild majoram and wild thyme growing in Estonia with thyme herb

Paaver, Urve; Raal, Ain; Arak, Elmar; Pudersell, K.; **Orav, Anne**; Ivask, Kaie Pharmacy and Pharmaceutical Sciences World

Congress : FIP 2002, Nice, France : abstracts 2002 / p. MAPS-P-406

Comparison of essential oil content of *Matricaria recutita* L. from different origins

Raal, Ain; Arak, Elmar; **Orav, Anne**; Ivask, Kaie Arc pharmatica 2003 / 1, p. 159-165

Composition and antibacterial effect of mint flavorings in candies and food supplements

Kapp, Karmen; **Orav, Anne**; Roasto, Mati; Raal, Ain; Püssa, Tõnu; Vuorela, Heikki; Tammela, Päivi; Vuorela, Pia *Planta medica* 2020 / p. 1089–1096 <https://doi.org/10.1055/a-1158-1699> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Composition of essential oil of aerial parts of *Chamomilla suaveolens* from Estonia

Orav, Anne; Sepp, Janne; **Kailas, Tiit**; **Müürisepp, Aleksander-Mati**; Arak, Elmar; Raal, Ain *Natural product communications* 2010 / 1, p. 133-136

Composition of the essential oil from wild majoram (*Origanum vulgare* L.ssp.vulgare) of different origins

Ivask, Kaire; **Orav, Anne**; **Kailas, Tiit**; Raal, Ain; Arak, Elmar; Paaver, Urve *Journal of essential oil research* 2005 / 4, p. 384-387

Composition of the essential oil of *Artemisia absinthium* L. of different geographical origin

Orav, Anne; Raal, Ain; Arak, Elmar; **Müürisepp, Aleksander-Mati**; **Kailas, Tiit** *Proceedings of the Estonian Academy of Sciences. Chemistry* 2006 / 3, p. 155-165 : ill

Composition of the essential oil of *Coriandrum sativum* L. seeds from various countries

Arak, Elmar; **Orav, Anne**; Raal, Ain *European journal of pharmaceutical sciences* 2007 / 1, Supplement 1, p. S22

Composition of the essential oil of *Levisticum officinale* W.D.J. Koch from some European countries

Raal, Ain; Arak, Elmar; **Orav, Anne**; **Kailas, Tiit**; **Müürisepp, Aleksander-Mati** *Journal of essential oil research* 2008 / p. 318-322
https://www.researchgate.net/publication/254247369_Composition_of_the_Essential_Oil_of_Levisticum_officinale_WDJ_Koch_from_Some_European_Countries

Composition of the essential oil of *Origanum vulgare* L. ssp. vulgare from various countries

Raal, Ain; Arak, Elmar; **Orav, Anne** *Planta medica* 2007 / 9, p. 929

Composition of the essential oil of *Salvia officinalis* L. from various European countries

Raal, Ain; **Orav, Anne**; Arak, Elmar *Natural product research* 2007 / 5, p. 406-411

Composition of the essential oil of the *Rhododendron tomentosum* Harmaja from Estonia

Raal, Ain; **Orav, Anne**; **Gretšušnikova, Tatjana** *Natural product research* 2014 / p. 1091-1098 : tab
<https://doi.org/10.1080/14786419.2014.907287> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Content and composition of essential oil in oregano (*Origanum vulgare*) growing in Estonia

Raal, Ain; **Orav, Anne**; Ivask, Anu; Arak, Elmar *The 6th International Pharmaceutical Conference "Science and Practice 2015"* : November 5-6, 2015, Kaunas, Lithuania : book of abstracts 2015 / p. 62

Content and composition of essential oils in some Asteraceae species

Raal, Ain; Kaur, Helen; **Orav, Anne**; Arak, Elmar; **Kailas, Tiit**; **Müürisepp, Aleksander-Mati** *Proceedings of the Estonian Academy of Sciences* 2011 / 1, p. 55-63

Content and composition of the essential oil of *Chamomilla recutita* (L.)Rauschert from some European countries

Orav, Anne; Raal, Ain; Arak, Elmar *Natural product research* 2010 / 1, p. 48-55

Content and composition of the essential oil of *Thymus serpyllum* L. growing wild in Estonia

Raal, Ain; Paaver, Urve; Arak, Elmar; **Orav, Anne** *Medicina* 2004 / 8, p. 795-800

Content of essential oil, terpenoids and polyphenols in commercial chamomile (*Chamomilla recutita* L. Rauschert) teas from different countries

Raal, Ain; **Orav, Anne**; Püssa, Tõnu; Valner, Catri; Malmiste, Birgit; Arak, Elmar *Food chemistry* 2012 / p. 632-638 : ill
<https://www.sciencedirect.com/science/article/pii/S0308814611013008>

CYDEX B kapillaarkolonni kasutamine terpeenide identifitseerimisel taimsetes eeterlikes õlides

Orav, Anne; **Ivask, Kaire**; Raal, Ain; Arak, Elmar XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 97

Eesti koriandri, salvei ja teekummeli eeterliku õli koostise võrdlus nende välismaiste analoogidega

Orav, Anne; **Kailas, Tiit**; Jeršova, M.; Raal, Ain; Arak, Elmar XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 97

Eestis kasvava hariliku pune ja nõmm-liivatee eeterliku õli koostise võrdlus aed-liivatee eeterliku õliga

Paaver, Urve; Raal, Ain; Karjel, Krista; Arak, Elmar; **Orav, Anne**; **Ivask, Kaire** *Eesti Arst* 2002 / 9, lk. 577
https://artiklid.elnet.ee/record=b1037032*est

Eestis kasvava nõmm-liivatee (*Thymus serpyllum* L.) eeterliku õli sisalduse vastavus Euroopa farmakopöa nõuetele

Paaver, Urve; Raal, Ain; Arak, Elmar; Reiman, Raina; **Orav, Anne** *Eesti Arst* 2003 / 9, lk. 646

https://artiklid.elnet.ee/record=b1043765*est

Essential oil composition of *Coriandrum sativum* L. fruits from different countries

Orav, Anne; Arak, Elmar; Raal, Ain Journal of essential oil bearing plants 2011 / p. 118-123

Essential oil composition of *Foeniculum vulgare* Mill. fruits from pharmacies in different countries

Raal, Ain; **Orav, Anne;** Arak, Elmar Natural product research 2012 / p. 1173-1178

<https://www.tandfonline.com/doi/full/10.1080/14786419.2010.535154>

Essential oil composition of *Pimpinella anisum* L. fruits from various European countries

Orav, Anne; Raal, Ain; Arak, Elmar Natural product research 2008 / 3, p. 227-232

https://www.researchgate.net/publication/5586276_Essential_oil_composition_of_Pimpinella_anisum_L_fruits_from_various_European_countries

Essential oil content and composition in commercial *Achillea millefolium* L. herbs from different countries

Raal, Ain; **Orav, Anne;** Arak, Elmar Journal of essential oil bearing plants 2012 / p. 22-31

https://www.academia.edu/56949794/Essential_Oil_Content_and_Composition_in_Commercial_Achillea_millefolium_L_Herbs_from_Different_Countries

Essential oil content and composition in *Tanacetum vulgare* L. herbs growing wild in Estonia

Raal, Ain; **Orav, Anne;** Gretšušnikova, Tatjana Journal of essential oil bearing plants 2014 / p. 670-675 : tab

<https://doi.org/10.1080/0972060X.2014.958554> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Essential oil in *Betula* spp. leaves naturally growing in Estonia

Orav, Anne; Arak, Elmar; Boikova, Tatjana; Raal, Ain Biochemical systematics and ecology 2011 / p. 744-748

Ethnic identity in transition : the potential impact of ethnicity on chronic illness' medication adherence in Post-Soviet Country

Lubi, Kadi; Raal, Ain; Taba, Pille Journal of Racial and Ethnic Health Disparities 2022 / p. 1089-1095 <https://doi.org/10.1007/s40615-021-01048-x> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Koirohu (*Artemisia absinthium* L.) eeterliku õli koostis

Orav, Anne; Raal, Ain; Arak, Elmar; **Kailas, Tiiu** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian

Chemistry Days : abstracts of scientific conference 2005 / lk. 75-76

Phytochemical analysis of the essential oil of *Achillea millefolium* L. from various European countries

Orav, Anne; Arak, Elmar; Raal, Ain Natural product research 2006 / 12, p. 1082-1088

Phytochemical analysis of the essential oil of *Thymus serpyllum* L. growing wild in Estonia

Paaver, Urve; **Orav, Anne;** Arak, Elmar; Mäeorg, Uno; Raal, Ain Natural product research 2008 / 2, p. 108-115

Polyphenolic composition and antichlamydial effect of commercial peppermint (*Mentha x piperita* L.) teas

Kapp, Karmen; Hakala, Elina; Püssa, Tõnu; **Orav, Anne;** Raal, Ain; Hanski, L. Planta medica 2013 / p. 1224

Pune eeterliku õli koostise mass-spektromeetiline määramine

Ivask, Kaire; Orav, Anne; Raal, Ain; Arak, Elmar XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th

Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 36

Study of essential oil from medicinal plants using gas chromatography and mass spectrometry

Raal, Ain; Arak, Elmar; Pudersell, K.; **Orav, Anne;** **Kailas, Tiiu** European journal of pharmaceutical sciences 2003 / Supplement 1,

XVII Helsinki University Congress of Drug Research, p. P2.1

The content and composition of the essential oil found in *Carum carvi* L. commercial fruits obtained from different countries

Raal, Ain; Arak, Elmar; **Orav, Anne** The journal of essential oil research 2012 / p. 53-59

<https://www.tandfonline.com/doi/pdf/10.1080/10412905.2012.646016>

Variation in the composition of the essential oil of commercial *Artemisia absinthium* L. herb samples from different countries

Raal, Ain; Ilina, Tetiana; Kovaleva, Alla; **Orav, Anne;** Karileet, Margit; Džaniašvili, Mariana; Koliadzhyn, Taras; Grytsyk, Andriy;

Koshovyi, Oleh ScienceRise: Pharmaceutical Science 2024 / p. 19-28 <https://doi.org/10.15587/2519-4852.2024.302232> Journal metrics at Scopus Article at Scopus

Variation in the composition of the essential oil of commercial *Salvia officinalis* L. leaves samples from different countries

Raal, Ain; **Orav, Anne;** Ilina, Tetiana; Kovalyova, Alla; Koliadzhyn, Taras; Avidzba, Yuliia; Koshovyi, Oleh Phytion-International Journal

of Experimental Botany 2024 / p. 2051 - 2062 <https://doi.org/10.32604/phyton.2024.052790> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Variation in the composition of the essential oil of commercial *Valeriana officinalis* L. roots from different countries

Raal, Ain; Arak, Elmar; **Orav, Anne**; **Kailas, Tiiu**; **Müürisepp, Aleksander-Mati** Journal of essential oil research 2008 / 6, p. 524-529

https://www.researchgate.net/publication/241714499_Variation_in_the_Composition_of_the_Essential_Oil_of_Commercial_Valeriana_Officinalis_L_Roots_from_Different_Countries

Variation in the composition of the essential oil of *Valeriana officinalis* L. roots from Estonia

Raal, Ain; **Orav, Anne**; Arak, Elmar; **Kailas, Tiiu**; **Müürisepp, Aleksander-Mati** Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 2, p. 67-74

Yield, composition, and chemotypes of essential oils from *Origanum vulgare* L. aerial parts cultivated in different European countries

Raal, Ain; Gontova, Tetiana; Ivask, Anu; **Orav, Anne**; **Koshovyi, Oleh** Agronomy 2024 / 22 p. : ill

<https://doi.org/10.3390/agronomy14123046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)