

Anchimeric assistance in the case of vicinal dimesylate : formation of enantiomeric or meso-biomorpholine

Kanger, Tõnis; Laars, Marju; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Synthesis 2006 / 11, p. 1853-1857
https://www.researchgate.net/publication/239729268_Anchimeric_Assistance_in_the_Case_of_Vicinal_Dimesylate_Formation_of_Enantiomeric_or_meso_-Bimorpholine

Asendatud (2S,2'S)-bimorfoliinide süntees

Lippur, Kristin; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 82-83

Asymmetric synthesis of 2-aryl-5-oxotetrahydrofuran-2-carboxylic acids

Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Kanger, Tõnis; Lopp, Margus Synthesis 2006 / 18, p. 3031-3036 : ill <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2006-950193>

Asymmetric synthesis of 4'-C-benzyl-2',3'-dideoxynucleoside analogues from 3-benzyl-2-hydroxy-2-cyclopenten-1-one

Jõgi, Artur; Ilves, Marit; Paju, Anne; Pehk, Tõnis; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Lopp, Margus Tetrahedron : asymmetry 2008 / 5, p. 628-634 https://www.researchgate.net/publication/232406405_Asymmetric_synthesis_of_4'-C-benzyl-2'3'-dideoxynucleoside_analogues_from_3-benzyl-2-hydroxy-2-cyclopenten-1-one

Bimorpholine as an organocatalyst for asymmetric aldol condensation

Kriis, Kadri; Kanger, Tõnis; Laars, Marju; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 104

Bimorpholine-mediated enantioselective intramolecular and intermolecular aldol condensation

Kanger, Tõnis; Kriis, Kadri; Laars, Marju; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Journal of organic chemistry 2007 / p. 5168-5173 <https://pubs.acs.org/doi/10.1021/jo070524i>

Capillary gas chromatographic analysis of the monoterpene fraction of Estonian conifer needle oil

Orav, Anne; Kailas, Tiiu; Liiv, Milana; Aav, Riina Proceedings of the Estonian Academy of Sciences. Chemistry 1995 / 2/3, p. 149-155

Chemical investigation of the essential oil from berries and needles of common juniper (*Juniperus communis* L.) growing wild in Estonia

Orav, Anne; Kailas, Tiiu; Müürisepp, Aleksander-Mati Natural product research 2010 / 19, p. 1789-1799

Comparative analysis of the composition of essential oils and supercritical carbon dioxide extracts from the berries and needles of Estonian juniper (*Juniperus communis* L.)

Orav, Anne; Koel, Mihkel; Kailas, Tiiu; Müürisepp, Aleksander-Mati Procedia chemistry 2010 / p. 161-167

Comparative analysis of the essential oil and supercritical carbon dioxide extracts of *Juniperus communis* L. berries and needles from Estonia

Orav, Anne; Koel, Mihkel; Kailas, Tiiu; Müürisepp, Aleksander-Mati NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 123

Composition of blackcurrant aroma isolated from leaves, buds, and berries of *Ribes nigrum* L.

Orav, Anne; Kailas, Tiiu; Müürisepp, Aleksander-Mati Proceedings of the Estonian Academy of Sciences. Chemistry 2002 / 4, p. 225-234 : ill

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

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

Composition of the essential oil from *Achillea millefolium* L. from Estonia

Orav, Anne; Kailas, Tiiu; Ivask, Kaie Journal of essential oil research 2001 / p. 290-294

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

Ivask, Kaie; Orav, Anne; Kailas, Tiiu; 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, Tiiu Proceedings of the Estonian Academy of Sciences. Chemistry 2006 / 3, p. 155-165 : ill

Composition of the essential oil of dill, celery, and parsley from Estonia

Orav, Anne; Kailas, Tiiu; Jegorova, Anna Proceedings of the Estonian Academy of Sciences. Chemistry 2003 / 4, p. 147-154 : ill

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

Raal, Ain; Arak, Elmar; **Orav, Anne; Kailas, Tiiu; 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 oil and supercritical fluid CO₂ extract of sweet gale (*Myrica gale* L.) fruits

Sokolova, Maia; Orav, Anne; Koel, Mihkel; Kailas, Tiiu; Müürisepp, Aleksander-Mati Journal of essential oil research 2005 / March/April, p. 188-191 : ill <https://www.tandfonline.com/doi/abs/10.1080/10412905.2005.9698871>

Composition of the oil from waste tires. 1, Fraction boiling at up to 160°C

Orav, Anne; Kailas, Tiiu; Müürisepp, Aleksander-Mati; **Kann, Jüri** Proceedings of the Estonian Academy of Sciences. Chemistry 1999 / 1, p. 30-39

Composition of the oil from waste tires. 2, Fraction boiling at 160-180°C

Orav, Anne; Kailas, Tiiu; Müürisepp, Aleksander-Mati; **Kann, Jüri** Proceedings of the Estonian Academy of Sciences. Chemistry 1999 / 3, p. 136-140

Content and composition of essential oils in some Asteraceae species

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

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

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

Eesti männi ja kuuse okkaõli monoterpeense osa kapillaargaasikromatograafilise analüüsi

Orav, Anne; Kailas, Tiiu; **Liiv, Milana;** Aav, Riina XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 96-98

Eesti ravimtaimede eeterlike õlide koostisest

Orav, Anne; Kailas, Tiiu XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 92

Eestis kasvava hariliku kadaka okaste ja marjade eeterliku õli koostise määramine

Orav, Anne; Kailas, Tiiu; Müürisepp, Aleksander-Mati XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 107-108

Effect of storage on the essential oil composition of *Piper nigrum* L. fruits of different ripening states

Orav, Anne; Stulova, Irina; Kailas, Tiiu; Müürisepp, Aleksander-Mati Journal of agricultural and food chemistry 2004 / p. 2582-2586 <https://pubmed.ncbi.nlm.nih.gov/15113161/>

Elemental composition of humic and fulvic acids in the epipedon of some Estonian solids

Reintam, Loit; **Kann, Jüri;** Kailas, Tiiu; Kährik, Raja Proceedings of the Estonian Academy of Sciences. Chemistry 2000 / 3, p. 131-144 https://artiklid.elnet.ee/record=b2397615*est

Enantioselective synthesis of Wieland-Miescher ketone through biomorpholine-catalyzed organocatalytic aldol condensation

Kriis, Kadri; Kanger, Tõnis; Laars, Marju; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Synlett 2006 / 11, p. 1699-1702 https://www.researchgate.net/publication/237887633_Enantioselective_Synthesis_of_Wieland-Miescher_Ketone_through_Bimorpholine-Catalyzed_Organocatalytic_Aldol_Condensation

Extraction and quantification of hybrid carrageenans from the biomass of the red algae *Furcellaria lumbricalis* and *Coccolytus truncatus*

Tuvikene, Rando; Truus, Kalle; **Vaher, Merike; Kailas, Tiiu;** Martin, Georg; Kersen, Priit Proceedings of the Estonian Academy of Sciences. Chemistry 2006 / 1, p. 40-53 : ill

Investigation of the aroma compounds of berries

Kuningas, Kai; **Kailas, Tiiu;** Rang, Silvia; **Siimer, Enn; Kann, Jüri** Kemia-kemi = [Finnish chemistry] 1991 / p. 951
https://www.ester.ee/record=b1201067*est

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

3'-hüdroksü-4'-asendatud-2'-deoksünukleosidi analoogide süntees

Jõgi, Artur; Paju, Anne; Kailas, Tiiu; Müürisepp, Aleksander-Mati; **Lopp, Margus** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 28 : ill

Käeliste tetrahüdrofuraani analoogide süntees

Niidu, Allan; Paju, Anne; Kislitsõn, Konstantin; **Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus XXX**
Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 104-105

Organocatalytic asymmetric addition of malonates to unsaturated 1,4-diketones

Žari, Sergei; Kailas, Tiiu; Kudrjašova, Marina; Ören, Mario; Järving, Ivar; Tamm, Toomas; Lopp, Margus; Kanger, Tõnis
Beilstein journal of organic chemistry 2012 / p. 1452-1457 : ill <https://pubmed.ncbi.nlm.nih.gov/23019480/>

Stereoselective synthesis of 1-methyl-1,2-and 1,3-cyclopentanediois via γ -lactones

Niidu, Allan; Paju, Anne; Müürisepp, Aleksander-Mati; Järving, Ivar; Kailas, Tiiu; Pehk, Tõnis; Lopp, Margus Chemistry of heterocyclic compounds 2013 / p. 1751-1760 : ill <https://doi.org/10.1007/s10593-013-1206-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and compositional characteristics of gelling galactan from the red alga *Ahnfeltia tobuchiensis* (Ahnfeltiales, the sea of Japan)

Truus, Kalle; Tuvikene, Rando; Vaher, Merike; Kailas, Tiiu; Toomik, Peeter; Pehk, Tõnis Carbohydrate polymers 2005 / [6] p. : ill. [Ilmumas?]
https://www.researchgate.net/publication/229420426_Structural_and_compositional_characteristics_of_gelling_galactan_from_the_red_alga_Ahnfeltia_tobuchiensis_Ahnfeltiales_the_Sea_of_Japan

Structural and compositional characteristics of gelling galactan from the red alga *Ahnfeltia tobuchiensis* (Ahnfeltiales, the Sea of Japan)

Truus, Kalle; Tuvikene, Rando; Vaher, Merike; Kailas, Tiiu; Toomik, Peeter; Pehk, Tõnis Carbohydrate polymers 2006 / p. 130-135 : ill https://www.sciencedirect.com/science/article/abs/pii/S0144861705003759?_x_tr_sl=en&_x_tr_tl=en&_x_tr_hl=en&_x_tr_pto=sc

Structural constraints for C2-symmetric heterocyclic organocatalysts in asymmetric aldol reactions

Laars, Marju; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus Tetrahedron : asymmetry 2008 / p. 641-645 https://www.researchgate.net/publication/244242681_Structural_constraints_for_C_2-symmetric_heterocyclic_organocatalysts_in_asymmetric_aldol_reactions

Structure and thermal stability of pyruvated carrageenans from the red alga *Coccolytus truncatus*

Tuvikene, Rando; Truus, Kalle; Robal, Marju; Pehk, Tõnis; Kailas, Tiiu; Vaher, Merike; Paalme, Tiina Carbohydrate research 2009 / p. 788-794 : ill <https://www.sciencedirect.com/science/article/pii/S0008621509000366>

Studies of the essential oil composition of some Estonian herbs

Orav, Anne; Kailas, Tiiu 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 101

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

Synthesis of (2S,2'S)-bimorpholine N,N'-quaternary salts as chiral phase transfer catalysts

Lippur, Kristin; Kanger, Tõnis; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus
Tetrahedron: asymmetry 2007 / p. 137-141

Synthesis of 3-phenyl-2-hydroxy-2-cyclopenten-1-ones and their asymmetric oxidation

Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Kailas, Tiiu; Lopp, Margus International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 100

Synthesis of 4'-aryl-2',3'-dideoxynucleoside analogues

Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Lopp, Margus Tetrahedron 2009 / p. 2959-2965 <https://www.sciencedirect.com/science/article/abs/pii/S0040402009001914>

Synthesis of 5,5'-disubstituted bimorpholines

Lippur, Kristin; Elmers, Cindy; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus Synthetic communications 2010 / p. 266-281

Synthesis of 5,5'-disubstituted biomorpholines

Lippur, Kristin; Elmers, Cindy; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus
Synthetic communications 2009 / p. 1-16

Synthesis of chiral enantioenriched tetrahydrofuran derivatives

Niidu, Allan; Paju, Anne; Müürisepp, Aleksander-Mati; Kailas, Tiiu; Pehk, Tõnis; Lopp, Margus Arkivoc 2009 / XIV, p. 39-52
<https://www.arkat-usa.org/get-file/32420/>

Synthesis of chiral FHF-analogues

Niidu, Allan; Kislitsõn, Konstantin; **Paju, Anne**; **Kailas, Tiiu**; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis**; **Lopp, Margus** Balticum Organicum Syntheticum : International Conference on Organic Synthesis : June 29 - July 2, 2008, Vilnius : program and abstract book 2008 / ? p

Synthesis of cyclopentane hydroxy derivatives

Niidu, Allan; **Paju, Anne**; **Kailas, Tiiu**; **Müürisepp, Aleksander-Mati**; Pehk, Tõnis; **Lopp, Margus** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 142

Synthesis of novel acyclic nucleoside analogues with anti-retroviral activity

Paju, Anne; **Päri, M.**; Selyutina, Anastasia; Žusinaite, Eva; Merits, Andres; **Pehk, Tõnis**; Siirde, Kaarel; **Müürisepp, Aleksander-Mati**; **Kailas, Tiiu**; **Lopp, Margus** Nucleosides, nucleotides and nucleic acids 2010 / 9, p. 707-720
<https://www.tandfonline.com/doi/pdf/10.1080/15257770.2010.501776>

The extraction, structure, and gelling properties of hybrid galactan from the red alga *Furcellaria lumbricalis* (Balti Sea, Estonia)

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga**; **Mellikov, Enn**; **Pehk, Tõnis**; Kollist, Andres; **Kailas, Tiiu**; **Vaher, Merike** Journal of applied phycology 2009 / [13] p.: ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

The extraction, structure, and gelling properties of hybrid galactan from the red alga *Furcellaria lumbricalis* (Baltic Sea, Estonia)

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga**; **Mellikov, Enn**; **Pehk, Tõnis**; Kollist, Andres; **Kailas, Tiiu**; **Vaher, Merike** Journal of applied phycology 2010 / p. 51-63 : ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

Trans-tsükloheksaanuurea VCD analüüs tahkes ja vedelas faasis : [posterettekanne]

Peterson, Anna; Öeren, Mario; **Shmatova, Elena**; Kailas, Tiiu; **Aav, Riina** XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013

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

Volatile constituents of *Matricaria matricaroides*

Orav, Anne; Kailas, Tiiu; **Kann, Jüri** Journal of essential oil research 1999 / p. 243-245