

#### **Anchimeric assistance in the case of vicinal dimesylate : formation of enantiomeric or meso-bimorpholine**

**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](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 oxidation of 3-alkyl-1,2-cyclopentanediones. Part 1, 3-hydroxylation of 3-alkyl-1,2-cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2002 / p. 2439-2448 <https://www.sciencedirect.com/science/article/pii/S095741660200589X>

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones. Part 2, Oxidative ring cleavage of 3-alkyl-1,2-cyclopentanediones : synthesis of 2-alkyl-[gamma]-lactone acids**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lindmaa, Rasmus; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2003 / p. 1565-1573 <https://www.sciencedirect.com/science/article/pii/S0957416603003094>

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones. Part 3, Oxidative ring cleavage of 3-hydroxyethyl-1,2-cyclopentanediones : synthesis of [alfa]-hydroxy-[gamma]-lactone acids and spiro-[gamma]-dilactones**

**Paju, Anne; Kanger, Tõnis; Niitsoo, Olivia; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2003 / p. 2393-2399

#### **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](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)

#### **Asymmetric synthesis of novel C2-symmetric bimorpholines**

**Kanger, Tõnis; Kriis, Kadri; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2002 / p. 857-865

#### **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>

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**Kriis, Kadri; Kanger, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A50

#### **C2-symmetric bimorpholines as chiral ligands in the asymmetric hydrogenation of ketones**

**Kriis, Kadri; Kanger, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2003 / p. 2271-2275  
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#### **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.)**

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#### **needles from Estonia**

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#### **A comparative study of the synthesis of C2-symmetric chiral 2,2'-biaziridinyls of 3-alkyl-1,2-cyclopentanediones**

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#### **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

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**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 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 *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  
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#### **Composition of the oil and supercritical fluid CO<sub>2</sub> 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**

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#### **Content and composition of essential oils in some Asteraceae species**

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#### **Dioksügenaasid korallis *Gersemia fruticosa* : hapniku allikas, selektiivsete inhibiitorite toime**

**Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Müürisepp, Aleksander-Mati; Liiv, Milana; Samel, Nigulas** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 152

#### **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/>

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#### **Investigation of kukersite structure using NMR and oxidative cleavage : on the nature of phenolic precursors in the kerogen of Estonian kukersite**

**Lille, Ülo**; Heinmaa, I.; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis** Oil shale 2002 / 2, p. 101-116 : ill

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### **Lipase-catalyzed stereoresolution of long-chain 1,2-alkanediols: a screening of preferable reaction conditions**

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**Koljak, Reet**; Lopp, Annika; **Pehk, Tõnis**; **Varvas, Külliki**; Müürisepp, Aleksander-Mati; **Järving, Ivar**; Samel, Nigulas Tetrahedron 1998 / p. 179-186

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Reile, Indrek; **Paju, Anne**; Müürisepp, Aleksander-Mati; **Pehk, Tõnis**; **Lopp, Margus** Tetrahedron 2011 / p. 5942-5948

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**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](https://www.researchgate.net/publication/244242681_Structural_constraints_for_C_2-symmetric_heterocyclic_organocatalysts_in_asymmetric_aldol_reactions)

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### **Süsiniku isotoopkoostis ning bioloogiliste markerite jaotumine Balti regiooni naftades ja kivimites**

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### **Synthesis and quantitative analysis of diastereomeric linked ester conjugates with remote stereocenters using high field NMR and chiral HPLC**

**Doyle, Eva**; Parve, Jaan; **Kudrjašova, Marina**; **Tamp, Sven**; Müürisepp, Aleksander-Mati; **Villo, Ly**; Vares, Lauri; **Pehk, Tõnis**; **Parve, Omar** Chirality 2013 / p. 793-798 : ill <https://doi.org/10.1002/chir.22217> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **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

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#### **Synthesis of novel acyclic nucleoside analogues with anti-retroviral activity**

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#### **The dioxygenases in the soft coral *Gersemia fruticosa* : origin of the oxygen, the eff[e]ct of selective inhibitors**

**Varvas, Külliki; Järving, Ivar; Koljak, Reet; Valmsen, Karin; Müürisepp, Aleksander-Mati; Liiv, Milana; Samel, Nigulas** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 160

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

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