

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

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

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>

Bitsüklo[3.3.0]oktanooni derivaatide süntees

Raudla, Kristin; Kanger, Tõnis; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 94-95

C2-symmetric bimorpholines : a new ligand for metal mediated hydride transfer reduction of ketones

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
<https://www.sciencedirect.com/science/article/pii/S0957416603004324>

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

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

Kanger, Tõnis; Ausmees, Kerti; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Synlett 2003 / p. 1055-1057
<https://doi.org/10.1055/s-2003-39303>

A comparative study of the synthesis of C2-symmetric chiral 2,2'-bisaziridinyls

Kanger, Tõnis; Ausmees, Kerti; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A44

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 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
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

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/>

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

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

https://www.researchgate.net/publication/288156758_Investigation_of_kukersite_structure_using_NMR_and_oxidative_cleavage_On_the_nature_of_phenolic_precursors_in_the_kerogen_of_Estonian_kukersite

2-metüül-3-tsüano-tsükloheks-2-een-1-ooni süntees

Niidu, Allan; Maasalu, A.; Müürisepp, Aleksander-Mati; **Pehk, Tõnis**; **Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 113

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

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

Parve, Jaan; Reile, Indrek; **Aid, Tiina**; **Kudrjašova, Marina**; Müürisepp, Aleksander-Mati; Vallikivi, Imre; **Villo, Ly**; **Aav, Riina**; **Pehk, Tõnis**; Vares, Lauri; **Parve, Omar** Journal of molecular catalysis B : enzymatic 2015 / p. 60-69 : ill

<https://doi.org/10.1016/j.molcatb.2015.03.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New cytotoxic sterols from the soft coral *Gersemia fruticosa*

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

Oxidation of cyclopentane-1,2-dione: a study with ¹⁸O labeled reagents

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

Oxidative ring cleavage of 3-hydroxyethyl-1,2-cyclopentanediones : synthesis of 4-hydroxy-[??]-lactone acids and spiro-[??]-dilactones

Paju, Anne; **Kanger, Tõnis**; **Niitsoo, Olivia**; **Pehk, Tõnis**; Müürisepp, Aleksander-Mati; **Lopp, Margus** Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A73

Sonogashira cross-coupling of 3-bromo-1,2.diones : an access to 3-alkynyl-1,2-diones

Paju, Anne; **Kanger, Tõnis**; Müürisepp, Aleksander-Mati; **Aid, Tiina**; **Pehk, Tõnis**; **Lopp, Margus** Tetrahedron 2014 / p. 5843-5848 : ill <https://doi.org/10.1016/j.tet.2014.06.037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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

Study of rubber waste thermal processing

Kann, Jüri; Marguste, Mart; Orav, Anne; Müürisepp, Aleksander-Mati; Vössotskaja, V.; **Kriis, J.** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 27

Süsiniku isotoopkoostis ning bioloogiliste markerite jaotumine Balti regiooni naftades ja kivimites

Bondar, J.; Bitjukov, Mihhail; Palu, Vilja; **Liiv, Milana**; Müürisepp, Aleksander-Mati XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 13-14

Synthesis and derivatization of bis-nor Wieland-Miescher ketone

Kanger, Tõnis; **Raudla, Kristin**; **Aav, Riina**; Müürisepp, Aleksander-Mati; **Pehk, Tõnis**; **Lopp, Margus** Synthesis 2005 / p. 3147-3151 <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2005-916025>

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](#)

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 epoxyalkynes

Kanger, Tõnis; Niidas, Piret; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Tetrahedron : asymmetry 1998 / p. 2499-2508

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 chiral hydroxylated cyclopentanones and cyclopentanes

Niidu, Allan; Paju, Anne; Eek, Margus; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Tetrahedron : asymmetry 2006 / 18, p. 2678-2683 <https://www.sciencedirect.com/science/article/pii/S0957416606006653>

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 N,N'-disubstituted (2S,2'S)-bimorpholine

Raudla, Kristin; Kanger, Tõnis; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 138

Synthesis of novel acyclic nucleoside analogues with anti-retroviral activity

Paju, Anne; Päre, 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 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

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