

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 oxidation of cyclobutanones : modification of the Sharpless catalyst
Kanger, Tõnis; Kriis, Kadri; Paju, Anne; Pehk, Tõnis; Lopp, Margus Tetrahedron : asymmetry 1998 / p. 4475-4482

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, Tiit; 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

Asymmetric transfer hydrogenation of aromatic ketones by Rh(I)/bimorpholine complexes
Kriis, Kadri; Kanger, Tõnis; Lopp, Margus Tetrahedron : Asymmetry 2004 / p. 2687-2691
<https://www.sciencedirect.com/science/article/pii/S0957416604005245>

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>

Cyclic amino acid salts as catalysts for the asymmetric Michael reaction
Laars, Marju; Raska, Henri; Lopp, Margus; Kanger, Tõnis Tetrahedron : asymmetry 2010 / p. 562-565

Kinetic resolution of epoxy alcohols with the Sharpless Ti-isopropoxide/tartaric ester complex
Maljutenko, Karolin; Paju, Anne; Järving, Ivar; Pehk, Tõnis; Lopp, Margus Tetrahedron : asymmetry 2016 / p. 608-613 : ill
<https://doi.org/10.1016/j.tetasy.2016.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Organocatalytic asymmetric synthesis of trisubstituted pyrrolidines via a cascade reaction
Noole, Artur; Pehk, Tõnis; Järving, Ivar; Lopp, Margus; Kanger, Tõnis Tetrahedron : asymmetry 2012 / p. 188-198 : ill
<https://www.sciencedirect.com/science/article/pii/S0957416612000912>

Preparation of highly enantiopure stereoisomers of 1-(2,6-dimethylphenoxy)-2-aminopropane (mexiletine)
Aav, Riina; Parve, Omar; Pehk, Tõnis; Claesson, Alf; Martin, Ivar Tetrahedron : asymmetry 1999 / p. 3033-3038
<https://www.sciencedirect.com/science/article/abs/pii/S0957416699003110>

Structural constraints for C2-symmetric heterocyclic organocatalysts in asymmetric aldol reactions
Laars, Marju; Kriis, Kadri; Kailas, Tiit; 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

Switched enantioselectivity of Humicola lipase for 2-phenoxyalkanoic acid ester homologs can be rationalized by different substrate binding modes
Berglund, P.; Vallikivi, Imre; Fransson, Linda; Dannacher, H.; Holmquist, M.; Martinelle, M.; Björklund, F.; Parve, Omar; Hunt, K. Tetrahedron : asymmetry 1999 / p. 4191-4202 <https://www.sciencedirect.com/science/article/pii/S0957416699004383>

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

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>

The tetrahydropyranyl-protected mandelic acid : a novel versatile chiral derivatising agent

Parve, Omar; Aidnik, Madis; **Lille, Ülo**; **Martin, Ivar**; **Vallikivi, Imre**; **Vares, Lauri**; **Pehk, Tõnis** Tetrahedron : asymmetry 1998 / p. 885-896: ill <https://www.sciencedirect.com/science/article/abs/pii/S0957416698000536>