

**Aasta teaduspreemia keemia ja molekulaarbioloogia alal teadustöö "Asümmeetrilised organokatalüütilised ja kaskaadreaktsioonid" eest : Tõnis Kanger**

Kanger, Tõnis Eesti Vabariigi preemiad 2016 : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2016 / lk. 74-83 : ill., portr

**Acid/base properties of some conformationally flexible organocatalysts**

Uudsemaa, Merle; Kanger, Tõnis; Tamm, Toomas 13th ICQC International Congress of Quantum Chemistry : June 22-27, 2009, Helsinki, Finland : abstracts and program 2009 / p. 168

**The Acidity of Weak NH Acids : Expanding the pKa Scale in Acetonitrile**

Lõkov, Märt; Keskkula, Carmen; Tshepelevitsh, Sofja; Pikma, Marta-Lisette; Saame, Jaan; Trubitsõn, Dmitri; Kanger, Tõnis; Leito, Ivo ACS Organic & Inorganic Au 2025 <https://doi.org/10.1021/acsorginorgau.4c00095>

**Akadeemiline vabadus tänapäeva ülikoolis**

Kanger, Tõnis Õpetajate Leht 2011 / lk. 7 [https://artiklid.elnet.ee/record=b2430476\\*est](https://artiklid.elnet.ee/record=b2430476*est)

**Akadeemilisest vabadusest tänapäeva ülikoolis : [kõne TTÜ 93. aastapäeva koosolekul 16. septembril 2011]**

Kanger, Tõnis Tallinna Tehnikaülikooli aastaraamat 2011 2012 / lk. 285-289

**Akadeemilisest vabadusest tänapäeva ülikoolis : [matemaatika-loodusteaduskonna dekaani professor Tõnis Kangeri kõne TTÜ 93. aastapäeva koosolekul]**

Kanger, Tõnis Mente et Manu 2011 / lk. 1-2 : fot

**Amination of quinolones**

Lippur, Kristin; Tiirik, Tõnis; Kudrjašova, Marina; Lopp, Margus; Kanger, Tõnis BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 125

**Amination of quinolones with morpholine derivatives**

Lippur, Kristin; Tiirik, Tõnis; Kudrjašova, Marina; Järving, Ivar; Lopp, Margus; Kanger, Tõnis Tetrahedron 2012 / p. 9550-9555 : ill <https://www.sciencedirect.com/science/article/pii/S004040201201472X>

**Amine catalyzed asymmetric epoxidation of alkenes**

Kanger, Tõnis; Kriis, Kadri; Lopp, Margus 14th European Symposium on Organic Chemistry (ESOC14) 2005 / p. 378

**Aminocatalysts are more environmentally friendly than hydrogen-bonding catalysts**

Sihtmäe, Mariliis; Silm, Estelle; Kriis, Kadri; Kahru, Anne; Kanger, Tõnis ChemSusChem 2022 / art. e202201045, 5 p. : ill <https://doi.org/10.1002/cssc.202201045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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](https://www.researchgate.net/publication/239729268_Anchimeric_Assistance_in_the_Case_of_Vicinal_Dimesylate_Formation_of_Enantiomeric_or_meso_-Bimorpholine)

**Application of chiral bifunctional halogen bond catalysts in glycosylation reactions**

Miller, Annette; Hunt, Kaarel Erik; Kriis, Kadri; Kanger, Tõnis Balticum Organicum Syntheticum (BOS 2022) : program and abstract book 2022 / p. 129 [Kogumik](#)

**Aromaatsete isotsüanaatide intramolekulaarsel tsükliatsioonis tekkinud kõrvalproduktide eraldamine ja identifitseerimine**

Schmidt, M.; Eek, Margus; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 156-157

**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

**Asutajadekaanid : eesmärk on anda inimestele võimalus oma tööd paremini teha**

Oorn, Arvo; Jervan, Gert; Kanger, Tõnis; Listra, Enn Mente et Manu 2016 / lk. 18-23 : fot [https://artiklid.elnet.ee/record=b2797132\\*est](https://artiklid.elnet.ee/record=b2797132*est)

**Asümmeetriline organokatalüütiline 1,4-dihüdropüridiinide süntees**

Noole, Artur; Borissova, Maria; Lopp, Margus; Kanger, Tõnis XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 64 : ill

**Asymmetric addition to aromatic unsaturated 1,4-diketones catalyzed by chichona alkaloid derivatives**

Žari, Sergei; Kudrjašova, Marina; Öeren, Mario; Tamm, Toomas; Lopp, Margus; Kanger, Tõnis BOS 2012 : International

**Asymmetric aminocatalytic Michael addition of cyclopropane-containing aldehydes to nitroalkenes**

Reitel, Kärt; Lippur, Kristin; Järving, Ivar; Kudrjašova, Marina; Lopp, Margus; Kanger, Tõnis Synthesis 2013 / p. 2679-2683 : ill <https://doi.org/10.1055/s-0033-1338704> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric Ca-catalyzed Wittig [2,3]-rearrangement of allyloxy 1,3-dicarbonyl compounds**

Lippur, Kristin; Kanger, Tõnis Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 106 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

**Asymmetric chemoenzymatic one-pot synthesis of  $\alpha$ -Hydroxy half-esters**

Murre, Aleksandra; Erkman, Kristin; Järving, Ivar; Kanger, Tõnis ACS Omega 2021 / p. 20686-20698 : ill <https://doi.org/10.1021/acsomega.1c02973> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric diastereoselective synthesis of spirocyclopropane derivatives of oxindole**

Ošeka, Maksim; Noole, Artur; Žari, Sergei; Öeren, Mario; Järving, Ivar; Lopp, Margus; Kanger, Tõnis European journal of organic chemistry 2014 / p. 3599-3606 : ill <https://doi.org/10.1002/ejoc.201402061> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric organocatalytic [2,3]-Wittig rearrangement = Asümmeetiline organokatalüütiline [2,3]-Wittigi ümberasetusreaktsioon**

Kimm, Mariliis 2021 [https://www.ester.ee/record=b5459027\\*est](https://www.ester.ee/record=b5459027*est) <https://digikogu.taltech.ee/et/Item/0cf615b8-e406-4531-905b-b97bd1daed83> <https://doi.org/10.23658/taltech.45/2021>

**Asymmetric organocatalytic [2,3]-Wittig rearrangement of cyclohexanone derivatives**

Kimm, Mariliis; Järving, Ivar; Ošeka, Maksim; Kanger, Tõnis European journal of organic chemistry 2021 / p. 3113-3120 : ill <https://doi.org/10.1002/ejoc.202100435> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric organocatalytic [2,3]-Wittig rearrangement of cyclohexanone derivatives**

Kimm, Mariliis; Ošeka, Maksim; Kanger, Tõnis GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 41 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Asymmetric organocatalytic aza-Michael reactions of isatin derivatives**

Žari, Sergei; Metsala, Andrus; Kudrjašova, Marina; Kaabel, Sandra; Järving, Ivar; Kanger, Tõnis Synthesis 2015 / p. 875-886 : ill <https://doi.org/10.1055/s-0034-1379956> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric organocatalytic cascade synthesis of tetrahydrofuranyl spirooxindoles**

Trubitsõn, Dmitri; Žari, Sergei; Kaabel, Sandra; Kudrjašova, Marina; Kriis, Kadri; Järving, Ivar; Pehk, Tõnis; Kanger, Tõnis Synthesis 2018 / p. 314-322 : ill <https://doi.org/10.1055/s-0036-1590918> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric organocatalytic Michael addition of cyclopentane-1,2-dione to alkylidene oxindole**

Silm, Estelle; Järving, Ivar; Kanger, Tõnis Beilstein Journal of Organic Chemistry 2022 / p. 167-173 <https://doi.org/10.3762/bjoc.18.18> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric organocatalytic Michael addition–cyclisation cascade of cyclopentane-1,2-dione with alkylidene malononitriles**

Silm, Estelle; Kaabel, Sandra; Järving, Ivar; Kanger, Tõnis Synthesis 2019 / p. 4198-4204 <https://doi.org/10.1055/s-0039-1690484> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Asymmetric organocatalytic Michael and aldol reactions mediated by cyclic amines = Asümmeetiline organokatalüütiline Michaeli ja aldoolreaktsioon tsükliliste amiinide toimetel**

Laars, Marju 2010 [http://www.ester.ee/record=b2635250\\*est](http://www.ester.ee/record=b2635250*est) <https://digi.lib.ttu.ee/i/?511>

**Asymmetric Organocatalytic Reactions of Cyclopentane-1,2-dione = Tsüklopentaan-1,2-diooni asümmeetrilised organokatalüütilised reaktsioonid**

Silm, Estelle 2022 <https://doi.org/10.23658/taltech.23/2022> <https://digikogu.taltech.ee/et/Item/106a2384-0619-453b-bd4d-4a6e6d237368> [https://www.ester.ee/record=b5499810\\*est](https://www.ester.ee/record=b5499810*est)

**Asymmetric organocatalytic synthesis of 3,3'-disubstituted oxindoles = Asümmeetiline organokatalüütiline 3,3'-diasendatud oksindoolide süntees**

Noole, Artur 2014 <https://digi.lib.ttu.ee/i/?1217> [https://www.ester.ee/record=b3201689\\*est](https://www.ester.ee/record=b3201689*est)

**Asymmetric organocatalytic synthesis of cyclopentanespirooxindoles**

Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Lopp, Margus; Kanger, Tõnis TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

#### **Asymmetric organocatalytic synthesis of spiro-cyclopropane oxindoles**

**Ošek, Maksim; Noole, Artur; Žari, Sergei; Kanger, Tõnis** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

#### **Asymmetric organocatalytic synthesis of spiro-cyclopropaneoindoles**

**Noole, Artur; Malkov, Andrei; Kanger, Tõnis** Synthesis 2013 / p. 2520-2524 : ill <https://doi.org/10.1055/s-0033-1338505> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asymmetric organocatalytic synthesis of spiro-cyclopropyloxindoles**

**Noole, Artur; Ošek, Maksim; Malkov, Andrei; Lopp, Margus; Kanger, Tõnis** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014

#### **Asymmetric organocatalytic Wittig [2,3]-rearrangement**

**Ošek, Maksim; Kimm, Mariliis; Kanger, Tõnis** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 123 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

#### **Asymmetric organocatalytic wittig [2,3]-rearrangement of oxindoles**

**Ošek, Maksim; Kimm, Mariliis; Kaabel, Sandra; Järving, Ivar; Rissanen, Kari; Kanger, Tõnis** Organic letters 2016 / p. 1358-1361 : ill <https://doi.org/10.1021/acs.orglett.6b00291> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asymmetric oxidation of 1,2-cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Tetrahedron letters 2000 / 35, p. 6883-6887

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. 64

#### **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 oxidation of ketones**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Kriis, Kadri; Ilmarinen, Kaja; Pehk, Tõnis** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 124-137

#### **Asymmetric synthesis of 2,2'-bimorpholine and its 5,5'-substituted derivatives = 2,2'-bimorfoliini ja selle 5,5'-asendatud derivaatide asümmeetriline süntees**

**Lippur, Kristin** 2010 <https://digi.lib.ttu.ee/i/?476> [https://www.ester.ee/record=b2590092\\*est](https://www.ester.ee/record=b2590092*est)

#### **Asymmetric synthesis of 2,3,4-trisubstituted piperidines**

**Kriis, Kadri; Melnik, Triin; Lips, Kristiina; Juhanson, Ilona; Kanger, Tõnis** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 102 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

#### **Asymmetric synthesis of 2,3,4-trisubstituted piperidines**

**Kriis, Kadri; Melnik, Triin; Lips, Kristiina; Juhanson, Ilona; Kaabel, Sandra; Järving, Ivar; Kanger, Tõnis** Synthesis 2017 / p. 604-614 : ill <https://doi.org/10.1055/s-0036-1588299> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asymmetric synthesis of 2/alkyl-substituted 2-hydroxyglutaric acid [gamma]-lactones**

**Paju, Anne; Laos, Marit; Jõgi, Artur; Päri, Malle; Jäälaid, Raissa; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** Tetrahedron letters 2006 / 26, p. 4491-4493 <https://www.sciencedirect.com/science/article/pii/S004040390600726X>

**Asymmetric synthesis of 2-alkyl-substituted 2-hydroxyglutaric acid [gamma]-lactones: a simple access to dag-lactone template**

Laos, Marit; Jõgi, Artur; Päril, Malle; Jäälaid, Raissa; Paju, Anne; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 108

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

Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Kailas, Tiit; 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 2-benzyl- and 2-benzyloxymethyl g-lactone acids**

Laos, Marit; Jõgi, Artur; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus 14th European Symposium on Organic Chemistry (ESOC14) 2005 / p. 309

**Asymmetric synthesis of C2-symmetric bimorpholines and their application as chiral ligands in the transfer hydrogenation of aromatic ketones**

Kriis, Kadri 2003 <https://digi.lib.ttu.ee/i/74204>

**Asymmetric synthesis of congested spiro-cyclopentaneoxindoles via an organocatalytic cascade reaction**

Noole, Artur; Kanger, Tõnis 248th ACS National Meeting and Exposition : August 10-14, 2014, San Francisco, CA : Chemistry and Global Stewardship 2014 / [1] p. : ill

**Asymmetric synthesis of congested spiro-cyclopentaneoxindoles via an organocatalytic cascade reaction**

Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Lopp, Margus; Kanger, Tõnis Journal of organic chemistry 2013 / p. 8117-8122 : ill <https://doi.org/10.1021/jo4008223> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**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/bimorpholine complexes**

Kriis, Kadri; Kanger, Tõnis; Lopp, Margus International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 93 <https://www.sciencedirect.com/science/article/pii/S0957416604005245>

**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>

**Aza-Michael reactions of isatin imines : deeper insight and origin of the stereoselectivity**

Metsala, Andrus; Žari, Sergei; Kanger, Tõnis ChemCatChem 2016 / p. 2961-2967 : ill <https://doi.org/10.1002/cctc.201600584> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Aza-Michael reactions of isatin imines : role of S-π interactions**

Metsala, Andrus; Žari, Sergei; Lopp, Margus; Kanger, Tõnis Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 116 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

**Bimorpholine as an organocatalyst for asymmetric aldol condensation**

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

**3,3'-bimorpholine derivatives as a new class of organocatalysts for asymmetric Michael addition**

Mosse, Sarah; Laars, Marju; Kanger, Tõnis; Alexakis, Alexandre International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 122

**3,3'-bimorpholine derivatives as a new class of organocatalysts for asymmetric Michael addition**

Mosse, Sarah; Laars, Marju; Kriis, Kadri; Kanger, Tõnis; Alexakis, Alexandre Organic letters 2006 / p. 2559-2562 <https://pubs.acs.org/doi/10.1021/ol0607490>

**Bimorpholine-mediated enantioselective intramolecular and intermolecular aldol condensation**

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

**Bimorpholines as alternative organocatalysts in asymmetric aldol reactions**

Kriis, Kadri; Laars, Marju; Lippur, Kristin; Kanger, Tõnis Chimia 2007 / 5, p. 232-235 [https://www.chimia.ch/chimia/article/view/2007\\_232](https://www.chimia.ch/chimia/article/view/2007_232)

**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

**Bitsükloheptaanist asabitsükloheptaanini** : [ettekanne 14. okt. 2011 Eesti TA korraldatud akadeemik Paul Kogermani 120. sünniaastapäevale ja akadeemik Ülo Lille 80. sünnipäevale pühendatud seminaril "Orgaaniline-bioorgaaniline süntees"]  
**Kanger, Tõnis** Tallinna Tehnikaülikooli aastaraamat 2011 2012 / lk. 233-236 : fot

**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>

**C2-symmetric enantiomeric heterocycles : synthesis and application**

**Kanger, Tõnis; Kriis, Kadri**; Ausmees, Kerti; **Pehk, Tõnis; Lopp, Margus** 13th European Symposium on Organic Chemistry : September 10-15, 2003, Cavtat-Dubrovnik, Croatia : programme and abstracts 2003 / p. 342

**C2-symmetric enantiomeric heterocycles: synthetic strategies and applications**

**Kanger, Tõnis** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 38

[https://www.ester.ee/record=b1965984\\*est](https://www.ester.ee/record=b1965984*est)

**CaCl<sub>2</sub>, bisoxazoline, and malonate : a protocol for an asymmetric Michael reaction**

**Lippur, Kristin; Kaabel, Sandra; Järving, Ivar**; Rissanen, Kari; **Kanger, Tõnis** Journal of organic chemistry 2015 / p. 6336-6341 :

ill <https://doi.org/10.1021/acs.joc.5b00769> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Calcium fluor- and hydroxy-apatites modified or not as catalysts for C-C bond formation**

Gruselle, Michel; **Kanger, Tõnis**; Flambard, Alexandrine; **Kriis, Kadri; Mikli, Valdek; Maaten, Birgit; Tõnsuaadu, Kaia**

International Conference Catalysis in Organic Synthesis ICCOS-2012 : September 15-20, 2012, Moscow, Russia : book of abstracts 2012 / p. 190

**Calcium hydroxyapatites as efficient catalysts for the Michael C-C bond formation**

Gruselle, Michel; **Kanger, Tõnis**; Thouvenot, Rene; Flambard, Alexandrine; **Kriis, Kadri; Mikli, Valdek; Traksmäa, Rainer; Maaten, Birgit; Tõnsuaadu, Kaia** ACS catalysis 2011 / p. 1729-1733 : ill

**Calcium, Barium and Strontium apatites : a new generation of catalysts in the Biginelli reaction**

Ben Moussa, Sana; Lachheb, Jalel; Gruselle, Michel; **Maaten, Birgit; Kriis, Kadri; Kanger, Tõnis; Tõnsuaadu, Kaia**; Badraoui,

Bechir Tetrahedron 2017 / p. 6542-6548 : ill <https://doi.org/10.1016/j.tet.2017.09.051> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Calcium-catalyzed asymmetric reactions of 1,3-dicarbonyl compounds**

**Lippur, Kristin; Lopp, Margus; Kanger, Tõnis** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014

**Catalysts derived from sustainable natural and value added alkaloids from poppies**

**Silm, Estelle; Pata, Pille; Kruis, Jaqueline Cecilia; Sikerina, Anastassia; Pata, Ilar; Kanger, Tõnis; Gathergood, Nicholas**

IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 24

[https://www.unive.it/pag/fileadmin/user\\_upload/extra/SSGC/documenti/Book\\_of\\_abstracts\\_per\\_website\\_23\\_July.pdf](https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf)

**Catalysts derived from sustainable natural and value added alkaloids from poppies [Online resource]**

**Silm, Estelle; Pata, Pille; Kruis, Jaqueline Cecilia; Sikerina, Anastassia; Pata, Ilar; Kanger, Tõnis; Gathergood, Nicholas**

Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT

Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmtdk.ut.ee/teesid-2018/>

**Catalysts derived from sustainable natural and value added alkaloids from poppies [Online resource]**

**Silm, Estelle; Kanger, Tõnis; Gathergood, Nicholas** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja

tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmtdk.ut.ee/teesid/>

**Challenges in mechanistic investigation of a flexible aminocatalyst as demonstrated through enamine formation**

**Osadchuk, Irina; Kanger, Tõnis** ChemistryOpen 2025 / art. 2500116 <https://doi.org/10.1002/open.202500116> [https://chemistry-](https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/open.202500116)

[europe.onlinelibrary.wiley.com/doi/10.1002/open.202500116](https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/open.202500116)

**Chemoenzymatic synthesis and evaluation of 3-azabicyclo[3.2.0]heptane derivatives as dopaminergic ligands**

Reinart-Okugbeni, Reet; **Ausmees, Kerti; Kriis, Kadri; Werner, Franz**; Rinken, Ago; **Kanger, Tõnis** European journal of medicinal chemistry 2012 / p. 255-261 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0223523412004515>

#### **A comparative study of asymmetric Baeyer-Villiger oxidation of cyclic ketones**

**Kanger, Tõnis; Kriis, Kadri; Paju, Anne; Kallas, Kaja; Pehk, Tõnis; Lopp, Margus** 10th IUPAC Symposium on Organo-Metallic Chemistry directed towards Organic Synthesis : 18-22 July, 1999, Versailles (France) : final program 1999 / p. P232

#### **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

#### **Cu-modified hydroxy-apatite as catalyst for Glaser-Hay C-C homo-coupling reaction of terminal alkynes**

**Maaten, Birgit; Moussa, Jamal; Desmarets, Christophe; Gredin, Patrick; Beaunier, Patricia; Kanger, Tõnis; Tõnsuaadu, Kaia; Villemin, Didier; Gruselle, Michel** Journal of molecular catalysis A : chemical 2014 / p. 112-116 : ill

#### **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

#### **Cyclopentane-1,2-dione bis(tert-butyldimethylsilyl) enol ether in asymmetric organocatalytic Mukaiyama-Michael reactions**

**Reile, Indrek; Paju, Anne; Kanger, Tõnis; Järving, Ivar; Lopp, Margus** Tetrahedron letters 2012 / p. 1476-1478 : ill  
<https://www.sciencedirect.com/science/article/pii/S0040403912000767>

#### **Cyclopropane-containing compounds in organocatalytic Michael reaction**

**Reitel, Kärt; Kudrjašova, Marina; Lopp, Margus; Kanger, Tõnis** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 163

#### **Derivatisation of Grieco lactone**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Riismandel, A.; Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 55

#### **Designed whole-cell-catalysis-assisted synthesis of 9,11-secoosterols**

**Kõllo, Marek; Kasari, Marje; Kasari, Villu; Pehk, Tõnis; Järving, Ivar; Lopp, Margus; Jõers, Arvi; Kanger, Tõnis** Beilstein journal of organic chemistry 2021 / p. 581-588 <https://doi.org/10.3762/bjoc.17.52> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A DFT study of an organocatalytic enantioselective Mannich Reaction reveals that the enantiodetermining step is associated with the torsional degrees of freedom**

**Metsala, Andrus; Kriis, Kadri; Kaasik, Mikk; Kanger, Tõnis** Balticum Organicum Syntheticum (BOS 2024) : Book of Abstracts 2024 / art. P83, p. 102 [https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024\\_Abstract-Book.pdf](https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024_Abstract-Book.pdf)

#### **A DFT study of an organocatalytic enantioselective Mannich reaction under the sway of noncovalent interactions**

**Metsala, Andrus; Kriis, Kadri; Kanger, Tõnis** Journal of computational chemistry 2025 / art. e70159 <https://doi.org/10.1002/jcc.70159>

#### **Diastereoselective [2,3]-sigmatropic rearrangement of N-allyl ammonium ylides**

**Murre, Aleksandra; Erkman, Kristin; Kaabel, Sandra; Järving, Ivar; Kanger, Tõnis** Synthesis 2019 / p. 4183-4197  
<https://doi.org/10.1055/s-0039-1690185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Diastereoselective multicomponent cascade reaction for the synthesis of heterobicyclic heptanes**

**Kriis, Kadri; Ausmees, Kerti; Plado, Anita; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014

#### **Diastereoselective multicomponent cascade reaction leading to [3.2.0]-heterobicyclic compounds**

**Ausmees, Kerti; Kriis, Kadri; Pehk, Tõnis; Werner, Franz; Järving, Ivar; Lopp, Margus; Kanger, Tõnis** The journal of organic chemistry 2012 / p. 10680-10687 : ill <https://pubs.acs.org/doi/abs/10.1021/jo3019413>

#### **Diastereoselektiivne multikomponentne kaskaadreaktsioon**

**Kriis, Kadri; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 14

#### **Diastereoselective multicomponent cascade reaction leading to heterobicyclic heptanes**

**Ausmees, Kerti; Kriis, Kadri; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 51 <https://pubs.acs.org/doi/abs/10.1021/jo3019413>

**Direct asymmetric [alfa]-hydroxylation of 2-hydroxymethyl ketones**

Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus Tetrahedron 2002 / p. 7321-7326

**Direct asymmetric alpha-hydroxylation of beta-hydroxyketones**

Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis Tetrahedron letters 1997 / 28, p. 5051-5054

**Direct asymmetric alpha-hydroxylation of beta-hydroxyketones**

Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 79

**Direct asymmetric alpha-hydroxylation of beta-hydroxyketones**

Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus OMCOS 9 : 9th IUPAC Symposium Organometallic Chemistry, directed towards organic synthesis : final program 1997 / p. 373 <https://www.sciencedirect.com/science/article/abs/pii/S0040403997011027>

**Effect of the chiral catalyst in asymmetric Baeyer-Villiger oxidation of cyclic ketones**

Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Ilmarinen, Kaja; Pehk, Tõnis; Lopp, Margus International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. 51

**Efficiency of stereoselective [2,3]-sigmatropic rearrangement reactions = Stereoselektiivsete [2,3]-sigmatroopsete ümberasetusreaktsioonide efektiivsus**

Murre, Aleksandra 2023 <https://doi.org/10.23658/taltech.66/2023> <https://digikogu.taltech.ee/et/item/b5e0d31c-c48f-47ba-a629-b176661ae385> [https://www.ester.ee/record=b5645593\\*est](https://www.ester.ee/record=b5645593*est)

**Enantioselective catalytic synthesis of N-alkylated indoles**

Trubitsõn, Dmitri; Kanger, Tõnis Chiral Auxiliaries and Chirogenesis II 2021 / p. 1-30 <https://doi.org/10.3390/sym12071184> <https://doi.org/10.3390/books978-3-0365-1155-9>

**Enantioselective Catalytic Synthesis of N-alkylated Indoles**

Trubitsõn, Dmitri; Kanger, Tõnis Symmetry 2020 / art. 1184 ; 30 p.: ill <https://doi.org/10.3390/sym12071184> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective H-bond catalyzed spirocyclopropanation and Wittig [2,3]-rearrangement = Enantioselektiivne H-sideme katalüüsitud spirotsüklopropaneerimine ja Wittigi [2,3]-ümberasetusreaktsioon**

Ošeka, Maksim 2017 [http://www.ester.ee/record=b4752914\\*est](http://www.ester.ee/record=b4752914*est) <https://digi.lib.ttu.ee/i/?9226>

**Enantioselective Henry reaction catalyzed by Cull salt and biperidine**

Noole, Artur; Lippur, Kristin; Metsala, Andrus; Lopp, Margus; Kanger, Tõnis The journal of organic chemistry 2010 / p. 1313-1316 <https://pubmed.ncbi.nlm.nih.gov/20095538/>

**Enantioselective Michael addition to vinyl phosphonates via hydrogen bond-enhanced halogen bond catalysis**

Kaasik, Mikk; Martõnova, Jevgenija; Erkman, Kristin; Metsala, Andrus; Järving, Ivar; Kanger, Tõnis Chemical science 2021 / p. 7561-7568 <https://doi.org/10.1039/D1SC01029H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective N-alkylation of 3-cyanoindole [Online resource]**

Trubitsõn, Dmitri; Kanger, Tõnis Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmdtk.ut.ee/teesid-2018/>

**Enantioselective N-alkylation of indole derivatives [Online resource]**

Trubitsõn, Dmitri; Kanger, Tõnis Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdtk.ut.ee/teesid-2019/>

**Enantioselective N-Alkylation of Nitroindoles under Phase-Transfer Catalysis**

Trubitsõn, Dmitri; Martõnova, Jevgenija; Erkman, Kristin; Metsala, Andrus; Saame, Jaan; Köster, Kristjan; Järving, Ivar; Leito, Ivo; Kanger, Tõnis Synthesis 2020 / p. 1047-1059 <https://doi.org/10.1055/s-0039-1690751> [Journal metrics at Scopus](#) [Article at WOS](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective N-functionalization of indole derivatives**

Trubitsõn, Dmitri; Kanger, Tõnis GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 84 : ill <http://fmdtk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Enantioselective organocatalytic aza-ene-type domino reaction leading to 1,4-dihydropyridines**

Noole, Artur; Borissova, Maria; Lopp, Margus; Kanger, Tõnis The journal of organic chemistry 2011 / p. 1538-1545 <https://pubs.acs.org/doi/10.1021/jo200095e>

**Enantioselective organocatalytic Michael addition of aldehydes to [beta]-nitrostyrenes**

**Laars, Marju; Ausmees, Kerti; Uudsemaa, Merle; Tamm, Toomas; Kanger, Tõnis; Lopp, Margus** The journal of organic chemistry 2009 / p. 3772-3775 <https://pubs.acs.org/doi/full/10.1021/jo900322h>

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to electrophiles**

**Preegel, Gert; Noole, Artur; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to electrophiles**

**Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** 248th ACS National Meeting and Exposition : August 10-14, 2014, San Francisco, CA : Chemistry and Global Stewardship 2014 / [1] p. : ill

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitro olefins**

**Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitroolefins**

**Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** Synthesis 2014 / p. 2595-2600 : ill <https://doi.org/10.1055/s-0034-1378374> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective organocatalytic Michael addition to unsaturated indolyl ketones**

**Trubitsõn, Dmitri; Martõnova, Jevgenija; Kudrjašova, Marina; Erkman, Kristin; Järving, Ivar; Kanger, Tõnis** Organic letters 2021 / p. 1820-1824 <https://doi.org/10.1021/acs.orglett.1c00222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective organocatalytic Michael addition–cyclization cascade of cyclopentane-1,2-dione with substituted (E)-2-oxobut-3-enates**

**Preegel, Gert; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** Synthesis 2015 / p. 3805-3812 : ill <https://doi.org/10.1055/s-0035-1560347> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective organocatalytic synthesis of n-alkylated indoles**

**Trubitsõn, Dmitri; Kanger, Tõnis** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 34 [https://fmt.dk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmt.dk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Enantioselective organocatalytic synthesis of oxa-spirooxindole derivatives**

**Trubitsõn, Dmitri; Žari, Sergei; Kudrjašova, Marina; Lippur, Kristin; Ošeka, Maksim; Kanger, Tõnis** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 161 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

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

**Kriis, Kadri; Kanger, Tõnis; Laars, Marju; Kailas, Tiit; 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](https://www.researchgate.net/publication/237887633_Enantioselective_Synthesis_of_Wieland-Miescher_Ketone_through_Bimorpholine-Catalyzed_Organocatalytic_Aldol_Condensation)

**Enantioselectiivne Henry reaktsioon N-iPr-bipiperidiini - Cu(OAc)<sub>2</sub> H<sub>2</sub>O kompleksi katalüüsil**

**Noole, Artur; Kanger, Tõnis** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 59

**Enzymatic ways for desymmetrization of malonic derivatives**

**Murre, Aleksandra; Erkman, Kristin; Kanger, Tõnis** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 64 : ill <http://fmt.dk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Faculty of Science : [Tallinn University of Technology]**

2012 [https://www.ester.ee/record=b2890162\\*est](https://www.ester.ee/record=b2890162*est)

**Fragment-based QSAR approach for novel indole-like TrkA receptor antagonist**

**Tammiku-Taul, Jaana; Dobchev, Dimitar Atanasov; Karelson, Mati; Timmusk, Tõnis; Park, Rahel; Jaanson, Kaur; Luberg, Kristi; Kananovich, Dzmitry; Noole, Artur; Kanger, Tõnis; Lopp, Margus** 8th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources (CMTPI-2015) : Chios, Greece, June 21-25, 2015 : book of abstracts 2015 / p. 68

**Halo-1,2,3-triazolium salts as halogen bond donors for the activation of imines in dihydropyridinone synthesis**

**Kaasik, Mikk; Metsala, Andrus; Kaabel, Sandra; Kriis, Kadri; Järving, Ivar; Kanger, Tõnis** Journal of organic chemistry 2019 / p. 4294–4303 : ill <https://doi.org/10.1021/acs.joc.9b00248> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Halogeenside võib võimendada kaugete aatomite interaktsioone**

**Metsala, Andrus; Kaasik, Mikk; Kanger, Tõnis; Lopp, Margus** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 28 [https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

### **Halogen-Bonding Organocatalysis - New Opportunities for Asymmetric Synthesis**

**Kaasik, Mikk; Kanger, Tõnis** Asymmetric Organocatalysis: New Strategies, Catalysts, and Opportunities. Vol. 1 2022 / p. 203-224 <https://doi.org/10.1002/9783527832217.ch6>

### **Halotriazolium salts as organocatalysts in aza-Diels-Alder reaction [Online resource]**

**Kaasik, Mikk; Kriis, Kadri; Kanger, Tõnis** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

### **Highly enantio- and diastereoselective generation of two quaternary centers in spirocyclopropanation of oxindole derivatives**

**Noole, Artur; Sucman, Natalia S.; Kabeshov, Mikhail A.; Kanger, Tõnis; Macaev, Fliur Z.; Malkov, Andrei** Chemistry : a European journal 2012 / p. 14929–14933 : ill <https://pubmed.ncbi.nlm.nih.gov/23112107/>

### **Indooli derivaatide enantioselektiivne N-alküleerimine**

**Trubitsõn, Dmitri; Kudrjašova, Marina; Kanger, Tõnis** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 42 : ill [https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

### **Influence of protonation upon the conformations of biperidine, bismorpholine, and their derivatives**

**Uudsemaa, Merle; Laars, Marju; Kriis, Kadri; Tamm, Toomas; Lopp, Margus; Kanger, Tõnis** Chemical physics letters 2009 / 1/3, p. 92-96 <https://www.sciencedirect.com/science/article/abs/pii/S0009261409001857>

### **Interplay of monosaccharide configurations on the deacetylation with Candida Antarctica Lipase-m**

**Hunt, Kaarel Erik; Miller, Annette; Liias, Kristin; Jarg, Tatsiana; Kriis, Kadri; Kanger, Tõnis** Journal of organic chemistry 2025 / p. 663-671 <https://doi.org/10.1021/acs.joc.4c02582>

### **Investigation of the synthesis of hydroxylated cyclopentanediones**

**Niidu, Allan; Paju, Anne; Eek, Margus; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 116

### **loonsele vedelikule seotud biperidiini derivaadi süntees ja rakendus organokatalüüsis**

**Reitel, Kärt; Kudrjašova, Marina; Kanger, Tõnis** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 86 : ill

### **(2S,2'S)- ja (3S,3'S)-bimorfoliini süntees**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 60-61

### **12 uut positsiooni**

**Salupere, Andrus; Sergejev, Fjodor; Kallaste, Kadri; Pihel, Hele-Riin; Tärnov, Külle; Anton, Maia-Liisa; Annus, Ivar; Kanger, Tõnis; Kerikmäe, Tanel; Illing, Sven; Uutar, Aivar** Mente et Manu 2020 / lk. 54-59 : portr [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)  
<https://dea.digar.ee/article/AKmentetmanu/2020/09/0/21.1>

### **Keemiateadlased: taaskasutus saab alata ka molekulaarselt tasandilt**

**Murre, Aleksandra; Kanger, Tõnis** novaator.err.ee 2024 [Keemiateadlased: taaskasutus saab alata ka molekulaarselt tasandilt](https://novaator.err.ee/2024/09/04/keemiateadlased-taaskasutus-saab-alata-ka-molekulaarselt-tasandilt)

### **Ketoonide hüdriidülekandega taandamine Rh(I)/kiraalne diamiin kompleksi manulusel**

**Kriis, Kadri; Kanger, Tõnis; Lopp, Margus** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 44

### **Kiraalsete asendatud tsüklopentanoonide süntees**

**Ausmees, Kerti; Kütt, Kristel; Kanger, Tõnis** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 24

### **Kiraalsete C2-sümmeetriliste bisasiridiinide süntees**

**Kanger, Tõnis; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 43-44

### **3-alküül-1,2-tsüklopentaandioonide asümmeetriline oksüdatsioon**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 102-103

### **3-asabitsüklo[3.2.0]heptaani derivaatide stereoselektiivne süntees**

**Kriis, Kadri; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 46 : ill

### **3-bensüüloksümetüül-1,2-tsüklopentaandiooni süntees ja asümmeetriline oksüdatsioon**

**Laos, Marit; Paju, Anne; Kanger, Tõnis; Lopp, Margus; Pehk, Tõnis** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 52-53

### **[Lõpetajad 2018 : rektori ja dekaanide kõned]**

**Aaviksoo, Jaak; Kanger, Tõnis; Jervan, Gert; Oorn, Arvo; Listra, Enn; Leiger, Roomet** Mente et Manu 2018 / lk. 16-31 : portr

[https://ttu.ee/public/m/mente-et-manu/MM\\_02\\_2018/mobile/index.html#p=6](https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6) [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est)  
<http://dea.digar.ee/publication/AKmenteetmanu>

### **[Lõpetajad 2019 : rektori ja dekaanide soovid]**

**Aaviksoo, Jaak; Jervan, Gert; Kanger, Tõnis; Listra, Enn; Oorn, Arvo; Leiger, Roomet** Mente et Manu 2019 / lk. 18-35 : fot

[https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est) [https://www.ttu.ee/public/m/mente-et-manu/MM\\_03\\_2019/mobile/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_03_2019/mobile/index.html)

### **Matemaatika-loodusteaduskond 2010**

**Kanger, Tõnis** Tallinna Tehnikaülikooli aastaraamat 2010 2011 / lk. 25-26

### **Michael-addition/cyclization of cyclopentane-1,2-dione to alkylidenemalononitriles [Online resource]**

**Silm, Estelle; Kanger, Tõnis** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p.: ill <http://fntdk.ut.ee/teesid-2019/>

### **Mild oxidation of substituted bicyclo[4.4.0]dec-10-en-3-one**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 9th Meeting on Stereochemistry : Prague, Czech Republic, June 15-18, 2001 : book of abstracts 2001 / p. 95

[https://www.researchgate.net/publication/228068775\\_OXIDATION\\_OF\\_SUBSTITUTED\\_BICYCLO440DECEN-3-ONES](https://www.researchgate.net/publication/228068775_OXIDATION_OF_SUBSTITUTED_BICYCLO440DECEN-3-ONES)

### **Modified calcium apatites as new catalysts in organic synthesis**

**Tõnsuaadu, Kaia; Gruselle, Michel; Moussa, Jamal; Villemin, Didier; Maaten, Birgit; Kanger, Tõnis** International Symposium on Inorganic and Environmental Materials 2013 : program and abstracts, October 27-31, 2013, Rennes, France 2013 / p. 277

### **Morfoliini derivaatidega asendatud kinoloonide süntees**

**Lippur, Kristin; Kudrjašova, Marina; Kanger, Tõnis** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 57 : ill

### **Multifunctional catalysts in the asymmetric Mannich reaction of malononitrile with N-Phosphinoylimines : coactivation by halogen bonding versus hydrogen bonding**

**Kriis, Kadri; Martõnov, Harry; Miller, Annette; Erkman, Kristin; Järving, Ivar; Kaasik, Mikk; Kanger, Tõnis** The journal of organic chemistry 2022 / p. 7422-7435 : ill <https://doi.org/10.1021/acs.joc.2c00674> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **N-allüülammooniumüliidide Stevensi [2,3]-ümberasetusreaktsioon**

**Murre, Aleksandra; Erkman, Kristin; Kanger, Tõnis** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 29 : ill [https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

### **NMR study of the remote activation of the nucleophilicity of isatin imines**

**Kudrjašova, Marina; Žari, Sergei; Pehk, Tõnis; Kanger, Tõnis** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014 / p. 87

### **A novel diastereoselective multicomponent cascade reaction**

**Kriis, Kadri; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. 117 <https://pubs.acs.org/doi/10.1021/ol1005714>

### **A novel diastereoselective multicomponent cascade reaction**

**Kriis, Kadri; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** Organic letters 2010 / p. 2230-2233  
<https://doi.org/10.1021/ol1005714>

### **Orgaaniline keemia : õpik kõrgkoolidele**

Carey, Francis A; Giuliano, Robert M 2014 [http://www.ester.ee/record=b3084143\\*est](http://www.ester.ee/record=b3084143*est)

### **Orgaanilise keemia nomenklatuuri põhimõtted**

**Kanger, Tõnis** 2010 [https://www.ester.ee/record=b2615236\\*est](https://www.ester.ee/record=b2615236*est)

### **Orgaanilise keemia nomenklatuuri põhimõtted**

**Kanger, Tõnis** 2012 [http://www.ester.ee/record=b2615236\\*est](http://www.ester.ee/record=b2615236*est)

**Orgaanilise keemia nomenklatuuri põhimõtted**  
Kanger, Tõnis 2024 [https://www.ester.ee/record=b5653582\\*est](https://www.ester.ee/record=b5653582*est)

**Orgaanilise keemia praktikum : laboratoorsed tööd. I**  
2009 [http://www.ester.ee/record=b2508636\\*est](http://www.ester.ee/record=b2508636*est)

**Orgaanilise keemia praktikum : laboratoorsed tööd. I**  
2004 [http://www.ester.ee/record=b1905872\\*est](http://www.ester.ee/record=b1905872*est)

**Orgaanilise keemia praktikum : laboritehnika**  
2004 [https://www.ester.ee/record=b1994262\\*est](https://www.ester.ee/record=b1994262*est)

**Organic and carbon aerogels containing rare-earth metals : their properties and application as catalysts**  
Kreek, Kristiina; Kriis, Kadri; Maaten, Birgit; Uibu, Mai; Mere, Arvo; Kanger, Tõnis; Koel, Mihkel Journal of non-crystalline solids 2014 / p. 43-48 : ill <https://doi.org/10.1016/j.jnoncrysol.2014.07.021> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Organocatalytic asymmetric addition of malonates to unsaturated 1,4-diketones**  
Žari, Sergei; Kailas, Tiit; 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/>

**Organocatalytic asymmetric addition to unsaturated 1,4-dicarbonyl compounds = Organokatalüütiline asümmeetriline liitumine küllastumata 1,4-dikarbonüülühendite**  
Žari, Sergei 2015 [https://www.ester.ee/record=b4503689\\*est](https://www.ester.ee/record=b4503689*est)

**Organocatalytic asymmetric Michael addition to cyclopropyl derivatives = Tsüklopropaani derivaatide asümmeetriline organokatalüütiline Michaeli liitumisreaktsioon**  
Reitel, Kärt 2019 <https://digi.lib.ttu.ee/i/?11505>

**Organocatalytic asymmetric synthesis of 3-chlorooxindoles bearing adjacent quaternary-tertiary centers**  
Noole, Artur; Järving, Ivar; Werner, Franz; Lopp, Margus; Malkov, Andrei; Kanger, Tõnis Organic letters 2012 / p. 4922-4925 : ill <https://pubs.acs.org/doi/10.1021/ol302245b>

**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>

**Organocatalytic asymmetric synthesis of trisubstituted pyrrolidines via a cascade reaction**  
Noole, Artur; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 144 <https://www.sciencedirect.com/science/article/pii/S0957416612000912>

**Organocatalytic conjugate addition of cyclopropylacetaldehyde derivatives to nitro olefins : en route to  $\beta$ - and  $\gamma$ -amino acids**  
Kaasik, Mikk; Noole, Artur; Reitel, Kärt; Järving, Ivar; Kanger, Tõnis European journal of organic chemistry 2015 / p. 1745-1753 : ill <https://doi.org/10.1002/ejoc.201403387> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Organocatalytic enantioselective domino reactions leading to polysubstituted n-heterocycles**  
Kanger, Tõnis SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 44

**Organocatalytic enantioselective synthesis of N-alkylated indoles = Organokatalüütiline enantioselektiivne N-alküleeritud indoolide süntees**  
Trubitsõn, Dmitri 2021 [https://www.ester.ee/record=b5459634\\*est](https://www.ester.ee/record=b5459634*est) <https://digikogu.taltech.ee/et/Item/0f4eb334-fce4-4178-9d7c-eac98677e646> <https://doi.org/10.23658/taltech.46/2021>

**Organocatalytic enantioselective transformations via diamines**  
Laars, Marju; Kanger, Tõnis; Kriis, Kadri; Lippur, Kristin; Lopp, Margus 15th European Symposium on Organic Chemistry : ESOC15 : 8-13 July 2007, Dublin (Ireland) : abstracts 2007 / ? p

**Organocatalytic glycosylation reactions with phosphate donor**  
Tali, Kerli; Kanger, Tõnis Balticum Organicum Syntheticum (BOS 2024) : Book of Abstracts 2024 / art. P132, p. 151 [https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024\\_Abtract-Book.pdf](https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024_Abtract-Book.pdf)

**Organokatalüütilised enantioselektiivsed reaktsioonid kiraalsete amiinide toimel**  
Laars, Marju; Kriis, Kadri; Lippur, Kristin; Lopp, Margus; Kanger, Tõnis XXX Eesti keemiapäevad : teaduskonverentsi teesid =

**Os-catalyzed dihydroxylation : an efficient method for desymmetrization of 2-allyl-2-methyl-1,3-cyclopentanedione**

**Raudla, Kristin; Lopp, Margus; Aav, Riina; Kanger, Tõnis; Pehk, Tõnis** OMCOS 13 : 13th IUPAC International Symposium on Organometallic Chemistry directed towards Organic Synthesis : 17-21 July 2005, Geneva Switzerland : book of abstracts 2005 / p. P-478

**Otsene beeta-hüdrosüketoone asümmeetriline alfa-hüdrosüleerimine**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis** XXIII Eesti keemiapäevad : teaduskonverentsi efekannete referaadid 1997 / lk. 70

**Oxidation of 3-alkyl-1,2-cyclopentanediones : synthesis of lactone acids and spirodilactones**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis** 13th European Symposium on Organic Chemistry : September 10-15, 2003, Cavtat-Dubrovnik, Croatia : programme and abstracts 2003 / p. 101

**Oxidation of cyclobutanones with the modified Sharpless catalyst**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 62

**Oxidation of cyclobutanones with the modified Sharpless catalyst**

**Kanger, Tõnis; Kriis, Kadri; Paju, Anne; Pehk, Tõnis; Lopp, Margus** OMCOS 9 : 9th IUPAC Symposium on Organometallic Chemistry, directed towards organic synthesis : final program 1997 / p. 362

**Oxidation of cyclobutanones with the modified sharpless catalyst. 2, Effect of chiral ligand**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 32

**Oxidation of cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 53

**Oxidation of cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P102

**Oxidation of substituted bicyclo[4.4.0]decen-3-ones**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 138-146 [https://artiklid.elnet.ee/record=b1007942\\*est](https://artiklid.elnet.ee/record=b1007942*est)

**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

**Phosphine-free nonaromatic catalytic system for asymmetric transfer reduction of aromatic ketones**

**Kanger, Tõnis; Kriis, Kadri; Lopp, Margus** Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 26

**pKa calculation for monoprotonated piperidine, biperidine and their derivatives in H<sub>2</sub>O and MeCN**

**Uudsemaa, Merle; Kanger, Tõnis; Lopp, Margus; Tamm, Toomas** Chemical physics letters 2010 / p. 83-86 <https://www.sciencedirect.com/science/article/pii/S000926140901519X>

**Primary amines as heterogeneous catalysts in an enantioselective [2,3]-Wittig rearrangement reaction**

**Murre, Aleksandra; Mikli, Valdek; Erkman, Kristin; Kanger, Tõnis** iScience 2023 / art. 107822, 18 p. : ill <https://doi.org/10.1016/j.isci.2023.107822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Protocol for the preparation of primary amine-containing catalysts on the resin**

**Murre, Aleksandra; Erkman, Kristin; Kanger, Tõnis** STAR protocols 2024 / art. 102933, 26 p. : ill <https://doi.org/10.1016/j.xpro.2024.102933> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Quantum chemical calculation procedure for the c-c bond forming reactions**

**Metsala, Andrus; Kaasik, Mikk; Kriis, Kadri; Kanger, Tõnis; Kimm, Mariliis** Balticum Organicum Synthetium (BOS 2022) : program and abstract book 2022 / p. 127 [Kogumik](#)

**rac-2,2'-Bipiperidine-1,1'-diium dibromide**

**Laars, Marju; Ausmees, Kerti; Kudrjašova, Marina; Kanger, Tõnis; Werner, Franz** Acta crystallographica section E : structure reports online 2011 / p. o1324 [https://www.researchgate.net/publication/51490648\\_rac-22%27-Bipiperidine-11%27-dium\\_dibromide](https://www.researchgate.net/publication/51490648_rac-22%27-Bipiperidine-11%27-dium_dibromide)

**Reaction path scans : Aza-Michael reactions of isatin imines**

**Metsala, Andrus; Žari, Sergei; Kanger, Tõnis** Computational and theoretical chemistry 2017 / p. 30-40 : ill  
<https://doi.org/10.1016/j.comptc.2017.07.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Regio- and stereoselective synthesis of chiral dihydroxyketones**

**Niidu, Allan; Paju, Anne; Eek, Margus; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A70

**Remote activation of isatin for efficient asymmetric aza-Michael reactions**

**Žari, Sergei; Kudrjašova, Marina; Ilmarinen, Kaja; Pehk, Tõnis; Kanger, Tõnis** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

**Remote activation of the nucleophilicity of isatin**

**Žari, Sergei; Kudrjašova, Marina; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** Organic letters 2014 / p. 1740-1743 : ill  
<https://doi.org/10.1021/ol500421k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rh(II)/chiral diamine induced transfer hydrogenation of ketones**

**Kanger, Tõnis; Kriis, Kadri; Lopp, Margus** OMCOS 13 : 13th IUPAC International Symposium on Organometallic Chemistry directed towards Organic Synthesis : 17-21 July 2005, Geneva Switzerland : book of abstracts 2005 / p. P-323

**(R,R)- and (S,S)-N,N'-dimethyl-1,2-diphenylene-1,2-diamine, (1,2-ethanediamine, N,N'-dimethyl-1,2-diphenyl-, [R-(R\*,R\*)]- and [S-(R\*,R\*)]-)**

Alexakis, Alexandre; Aujard, I.; **Kanger, Tõnis**; Mangeney, P. Organic syntheses 1998 / p. 23-36

**Selective deprotection of ester groups in pyranoses with Candida Antarctica Lipase-B**

**Hunt, Kaarel Erik; Vilu, Raivo; Kanger, Tõnis** Balticum Organicum Syntheticum (BOS 2024) : Book of Abstracts 2024 / art. P41, p. 60 [https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024\\_Abstract-Book.pdf](https://boschem.eu/bos2024/wp-content/uploads/sites/5/2024/07/BOS2024_Abstract-Book.pdf)

**A short enantioselective synthesis of homocitric acid [gamma]lactone and 4-hydroxyhomocitric acid [gamma]lactones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Eek, Margus; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 118

**A short enantioselective synthesis of homocitric acid-[gamma]-lactone and 4-hydroxy-homocitric acid-[gamma]-lactones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Eek, Margus; Lopp, Margus** Tetrahedron 2004 / p. 9081-9084  
<https://www.sciencedirect.com/science/article/abs/pii/S0040402004012736>

**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](#)

**Stevens [2,3]-rearrangement of N-allyl ammonium ylides**

**Murre, Aleksandra; Erkman, Kristin; Kanger, Tõnis** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

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

**Study of the asymmetric organocatalyzed [3+2] annulation of cyclopropenone and  $\beta$ -keto ester**

**Reitel, Kärt; Kriis, Kadri; Järving, Ivar; Kanger, Tõnis** Chemistry of heterocyclic compounds 2018 / p. 929-933 : ill  
<https://doi.org/10.1007/s10593-018-2372-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Supramolecular halogen bonds in asymmetric catalysis**

**Kaasik, Mikk; Kanger, Tõnis** Frontiers in chemistry 2020 / art. 599064, 18 p. : ill <https://doi.org/10.3389/fchem.2020.599064> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synthesis and biological activity of bimorpholine and its carbanucleoside**

**Ausmees, Kerti; Selyutina, Anastasia; Kütt, Kristel; Lippur, Kristin; Pehk, Tõnis; Lopp, Margus; Žusinaite, Eva; Merits, Andres; Kanger, Tõnis** Nucleosides, nucleotides and nucleic acids 2011 / p. 897-907  
<https://www.tandfonline.com/doi/full/10.1080/15257770.2011.621919>

**Synthesis and characterisation of chiral triazole-based halogen-bond donors: halogen bonds in the solid state and in**

## **solution**

**Kaasik, Mikk; Kaabel, Sandra; Kriis, Kadri; Järving, Ivar; Aav, Riina;** Rissanen, Kari; **Kanger, Tõnis** Chemistry - a European journal 2017 / p. 7337-7344 : ill <https://doi.org/10.1002/chem.201700618> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Synthesis and characterization of chiral triazole-based halogen bond donors [Online resource]**

**Kaasik, Mikk; Kaabel, Sandra; Kriis, Kadri; Järving, Ivar; Aav, Riina;** Rissanen, Kari; **Kanger, Tõnis** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

## **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 use of 3,3'-bimorpholine derivatives in asymmetric Michael addition and intramolecular aldol reaction**

Sulzer-Mosse, Sarah; **Laars, Marju; Kriis, Kadri; Kanger, Tõnis;** Alexakis, Alexandre Synthesis 2007 / 11, p. 1729-1732 <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2007-965966>

## **Synthesis of 1-methylbicyclo[3.3.0]octane-3,4,8-trione**

**Raudla, Kristin; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 122

## **Synthesis of 2,2'-bimorpholines and their biological activity**

**Lippur, Kristin;** Merits, Andres; **Lopp, Margus; Kanger, Tõnis** Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. ?

## **Synthesis of 2-(2'-piperidinyl)pyridine derivatives and their use as ligands in asymmetric Henry and aza-Henry reactions**

**Noole, Artur; Kanger, Tõnis** 16th European Symposium on Organic Chemistry (ESOC 2009) : Prague, 12-16 July 2009 / p. 422

## **Synthesis of (2S,2''S)- and (3S,3''S)-bimorpholine**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : BOS 2002, Vilnius 2002 / p. P036

## **Synthesis of (2S,2'S)- and (3R,3'R)-bimorpholine**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 9th Meeting on Stereochemistry : Prague, Czech Republic, June 15-18, 2001 : book of abstracts 2001 / p. 143

## **Synthesis of (2s,2'S)-bimorpholine**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 173-179

## **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 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 6'-galactosyllactose, a deviant human milk oligosaccharide, with the aid of Candida antarctica lipase-B**

**Hunt, Kaarel Erik;** Garcia-Sosa, Alfonso T.; **Shalima, Tatsiana;** Maran, Uko; **Vilu, Raivo; Kanger, Tõnis** Organic & biomolecular chemistry 2022 / p. 4724-4735 <https://doi.org/10.1039/D2OB00550F> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Synthesis of 9,11-secosterol D-ring synthon**

**Aav, Riina; Kanger, 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 9,11-secosterols intermediates**

**Aav, Riina** 2005 [http://www.ester.ee/record=b2041634\\*est](http://www.ester.ee/record=b2041634*est)

## **Synthesis of bicyclo[3.3.0]octanes - interdediates for substituted cyclopentanes**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 15th European Symposium on Organic Chemistry : ESOC15 : 8-13 July 2007, Dublin (Ireland) : abstracts 2007 / p. 65

**Synthesis of chiral bifunctional halogen bond donor catalysts and their application in asymmetric cascade reaction**  
**Martõnov, Harry; Kriis, Kadri; Kanger, Tõnis** Balticum Organicum Syntheticum (BOS 2022) : program and abstract book 2022 / p. 120 [Kogumik](#)

**Synthesis of chiral C2-symmetric bisaziridines**

**Kanger, Tõnis;** Ausmees, Kerti; **Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : BOS 2002, Vilnius 2002 / p. P032

**Synthesis of chiral epoxyalkynes**

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

**Synthesis of chiral triazole-based halogen bond donors**

**Kaasik, Mikk; Kaabel, Sandra; Kriis, Kadri; Järving, Ivar; Kanger, Tõnis** Synthesis 2019 / p. 2128-2135 : ill  
<https://doi.org/10.1055/s-0037-1610864> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synthesis of heterobicyclo[3.2.0]heptane derivatives via multicomponent cascade reaction =**

**Heterobitsüklo[3.2.0]heptaanide süntees multikomponentse kaskaadreaktsiooniga**

**Ausmees, Kerti** 2013 [http://www.ester.ee/record=b3034700\\*est](http://www.ester.ee/record=b3034700*est)

**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 substituted cyclopentanones from 2-oxabicyclo[3.3.0]oct-6-en-3-one**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 1, p. 3-13

**Synthesis of the AB-ring of 9,11-secoesterol**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P1 [https://www.researchgate.net/publication/228068773\\_Synthesis\\_of\\_the\\_AB-Ring\\_of\\_911-Secosterols](https://www.researchgate.net/publication/228068773_Synthesis_of_the_AB-Ring_of_911-Secosterols)

**Synthesis of the AB-ring of 9,11-secosterols**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Synlett 2000 / No. 4, p. 529-531  
[https://www.researchgate.net/publication/228068773\\_Synthesis\\_of\\_the\\_AB-Ring\\_of\\_911-Secosterols](https://www.researchgate.net/publication/228068773_Synthesis_of_the_AB-Ring_of_911-Secosterols)

**Synthesis of triazole-based halogen-bond donors**

**Kaasik, Mikk; Kriis, Kadri; Kaabel, Sandra; Kanger, Tõnis** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 81 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

**Synthesis of vicinal amino alcohols from tartaric ester**

**Ausmees, Kerti; Kulper, Kärt; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 54

**Synthesis, characterisation and catalytic activity of enantiopure triazole based halogen bond donors = Enantiomeerselt puhaste triasooli-põhiste halogeensideme doonorite süntees, iseloomustamine ja katalüütiline aktiivsus**

**Kaasik, Mikk** 2020 <https://digikogu.taltech.ee/et/Item/4a5fa759-84c8-45b0-ade1-a1a887b8e91b>

**Synthesis, characterization and catalytic activity of enantiopure triazole-based halogen bond donors**

**Kaasik, Mikk; Kaabel, Sandra; Metsala, Andrus; Peterson, Anna; Kriis, Kadri; Järving, Ivar; Aav, Riina;** Rissanen, Kari; Adamson, Jasper; **Kanger, Tõnis** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 35 : ill  
<http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Tallinna Tehnikaülikooli matemaatika-loodusteaduskonnast**

**Kanger, Tõnis** Horisont 2012 / lk. 4 : portr [https://artiklid.elnet.ee/record=b2545700\\*est](https://artiklid.elnet.ee/record=b2545700*est)

**Tallinna tehnikaülikooli uus nägu**

**Oorn, Arvo; Jervan, Gert; Listra, Enn; Kanger, Tõnis** Sirp 2017 / lk. 33-35 : portr <http://www.sirp.ee/s1-artiklid/c21-teadus/tallinna-tehnikaülikooli-uus-nagu/>

**Teaduspreemia keemia ja molekulaarbioloogia [p.o. molekulaarbioloogia] alal tööde tsükli "Uued asümmeetrilised reaktsioonid ja nende katalüsaatorid" eest : Margus Lopp, Anne Paju, Tõnis Kanger**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis** Eesti Vabariigi teaduspreemiad 2004 2004 / lk. 36-46 : ill., fot

**3-Alkyl-1,2-cyclopentanediones by Negishi cross-coupling of a 3-bromo-1,2-cyclopentanedione silyl enol ether with alkylzinc reagents : an approach to 2-substituted carboxylic acid  $\gamma$ -lactones, homocitric and lycoperdic acids**  
**Paju, Anne; Kostomarov, Diana; Matkevits, Katharina; Laos, Marit; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** Tetrahedron 2015 / p. 9313-9320 : ill <https://doi.org/10.1016/j.tet.2015.10.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**3-Chlorooxindoles : versatile starting materials for asymmetric organocatalytic synthesis of spirooxindoles**  
**Noole, Artur; Ošeka, Maksim; Pehk, Tõnis; Öeren, Mario; Järving, Ivar; Elsegood, Mark R. J.; Malkov, Andrei; Lopp, Margus; Kanger, Tõnis** Advanced synthesis and catalysis 2013 / p. 829-835 : ill [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Total synthesis of vicine and convicine**

**Hunt, Kaarel Erik;** Krišciunaite, Tiina; **Vilu, Raivo; Kanger, Tõnis** 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 78  
[https://tftak.eu/foodbalt/assets/files/Foodbalt\\_Book\\_of\\_Abstacts.pdf](https://tftak.eu/foodbalt/assets/files/Foodbalt_Book_of_Abstacts.pdf)

**Transesterification of monosaccharides with Candida antarctica lipase-B and their use in the synthesis of human milk oligosaccharides = Monosahhariidide ümberesterdamine Candida antarctica lipaas-B abil ja nende kasutamine rinnapiima oligosahhariidide sünteesis**

**Hunt, Kaarel Erik** 2025 [https://www.ester.ee/record=b5750735\\*est](https://www.ester.ee/record=b5750735*est) <https://digikogu.taltech.ee/et/Item/27bed832-f63e-4d97-ba29-f816dbe16e43> <https://doi.org/10.23658/taltech.45/2025>

#### **Tsükliliste ketoonide võrdlev Baeyer-Villiger'i asümmeetriline oksüdeerimine**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Ilmarinen, Kaja; Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 58-59

#### **1,2-tsükloalkaandioonide asümmeetriline oksüdatsioon**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 124-125

#### **Tsüklobutanoonide oksüdatsioon Sharplessi modifitseeritud reagentiga**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 56

#### **Tsüklopentaan-1,2-diooni asümmeetriline organokatalüütiline Michaeli liitumise/tsükliseerimise kaskaadreaktsioon alkülideenmalononitrilidele**

**Silm, Estelle; Kanger, Tõnis** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 38  
[https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

#### **Tunable chiral triazole-based halogen bond donors : assessment of donor strength in solution with nitrogen-containing acceptors**

**Peterson, Anna; Kaasik, Mikk; Metsala, Andrus; Järving, Ivar; Adamson, Jasper; Kanger, Tõnis** RSC advances 2019 / p. 11718-11721 : ill <https://doi.org/10.1039/c9ra01692a> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Two catalytic methods of an asymmetric wittig [2,3]-rearrangement**

**Ošeka, Maksim; Kimm, Mariliis; Järving, Ivar; Lippur, Kristin; Kanger, Tõnis** Journal of organic chemistry 2017 / p. 2889-2897 : ill <https://doi.org/10.1021/acs.joc.6b02786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **[2,3]-Wittig rearrangement as a formal asymmetric alkylation of $\alpha$ -branched ketones**

**Kimm, Mariliis; Ošeka, Maksim; Kaabel, Sandra; Metsala, Andrus; Järving, Ivar; Kanger, Tõnis** Organic letters 2019 / p. 4976-4980 <https://doi.org/10.1021/acs.orglett.9b01495> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **(2R,2'R)- ja (3S,3'S)-bimorfoliini süntees**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 62-63

#### **Two-step synthesis of homochiral monoaminals of tricarbonylphthalaldehydechromium complex**

Rose-Munch, F.; Gagliardini, V.; Perrotey, A.; Tranchier, J.-P.; Rose, E.; Mangeney, A.; **Kanger, Tõnis**; Vaissermann, J. J. Chem. Soc., Chem. Commun 1999 / p. 2061-2062 [https://www.researchgate.net/publication/244538618\\_Two-step\\_synthesis\\_of\\_homochiral\\_monoaminals\\_of\\_tricarbonylphthalaldehydechromium\\_complex](https://www.researchgate.net/publication/244538618_Two-step_synthesis_of_homochiral_monoaminals_of_tricarbonylphthalaldehydechromium_complex)

#### **Unexpected direction of the reaction of ethyl 2-(diethylphosphono)propionate with 2,2-disubstituted-1,3-cyclopentanediones**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 53

**Unexpected reactivity of ethyl 2-(diethylphosphono)propionate toward 2,2-disubstituted-1,3-cyclopentanediones**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Phosphorus, sulfur and silicon 2005 / p. 1739-1748

<https://www.tandfonline.com/doi/full/10.1080/10426500590885309>

**Uued asümmeetrilised reaktsioonid ja nende katalüsaatorid**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis** Mente et Manu 2004 / 9. märts, lk. 3 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

[https://artiklid.elnet.ee/record=b1018852\\*est](https://artiklid.elnet.ee/record=b1018852*est)

**Uued asümmeetrilised reaktsioonid ja nende katalüsaatorid**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis** Tallinna Tehnikaülikooli aastaraamat 2004 2005 / lk. 203-209 : ill

**Uurija-professor Tõnis Kanger uurib spetsiifiliste rinnapiima kiudainete sünteesi**

**Kanger, Tõnis** Mente et Manu 2022 / lk. 30-31 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Wittig [2,3]-rearrangement as a formal asymmetric alkylation of  $\alpha$ -branched cyclopentanones**

**Kimm, Mariliis; Ošeka, Maksim; Kanger, Tõnis** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

**Wittigi [2,3]-ümberasetusreaktsioon kui  $\alpha$ -hargnenud tsüklopentanoonide formaalne asümmeetriline alküleerimismeetod**

**Kimm, Mariliis; Ošeka, Maksim; Kanger, Tõnis** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 18 : ill

**9,11-sekosterooli AB-ringi süntees**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 12-13