

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 / p. 144–155 <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

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

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 tekivate 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

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

Asymmetric chemoenzymatic one-pot synthesis of α -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://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

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 <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

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

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-cyclopropanoxindoles

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

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

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

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; Päre, 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

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

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

CaCl₂, 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

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

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

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 <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

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

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

Enantioselectiivne Henry reaktsioon N-iPr-bipiperidiini - Cu(OAc)₂ H₂O 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

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

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; Macaeve, 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

Trubitsin, Dmitri; Kudrjašova, Marina; Kanger, Tõnis XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 42 : ill 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://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 hüdriidülekanega 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 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.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

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

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

Orgaanilise keemia nomenklatuuri põhimõtted

Kanger, Tõnis 2010 https://www.ester.ee/record=b2615236*est

Orgaanilise keemia nomenklatuuri põhimõtted

Kanger, Tõnis 2012 http://www.ester.ee/record=b2615236*est

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

Orgaanilise keemia praktikum : laboratoorsed tööd. I
2009 http://www.ester.ee/record=b2508636*est

Orgaanilise keemia praktikum : laboratoorsed tööd. I
2004 http://www.ester.ee/record=b1905872*est

Orgaanilise keemia praktikum : laboritehnika
2004 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

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 β - and γ -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://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

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

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 H₂O 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

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

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

Study of the asymmetric organocatalyzed [3+2] annulation of cyclopropenone and β -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'-piperidiny)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-secoesterol 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-secoesterols intermediates

Aav, Riina 2005 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

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

Synthesis of the AB-ring of 9,11-secoesterols

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

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

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

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 γ -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

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://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 reagendiga

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

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 α -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

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://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

Wittig [2,3]-rearrangement as a formal asymmetric alkylation of α -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 α -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