

Adapting mechanochemical C–N bond forming reactions for greener synthesis of pharmaceuticals

Nikonovich, Tatsiana; Nallaparaju, Jagadeesh Varma; Mishra, Kamini Atindrakumar; Jarg, Tatsiana; Kudrjašova, Marina; Kananovich, Dzmitry; Aav, Riina GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / art. O21 : ill <https://fmdk.ut.ee/programm-2023/> <https://fmdk.ut.ee/wp-content/uploads/2023/05/Nikonovich.pdf>

Aerobic cascade oxidation of substituted cyclopentane-1, 2-diones using metalloporphyrin catalysts [Online resource]

Oja, Karolin; Borovkov, Victor; Kananovich, Dzmitry; Järving, Ivar; Lopp, Margus 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://fmdk.ut.ee/teesid-2018/>

Aerobic cascade oxidation of substituted cyclopentane-1,2-diones using metalloporphyrin catalysts

Maljutenko, Karolin; Borovkov, Victor; Kananovich, Dzmitry; Järving, Ivar; Lopp, Margus Tetrahedron 2018 / p. 661–664 : ill <https://doi.org/10.1016/j.tet.2017.12.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aerobic oxidations in asymmetric synthesis : catalytic strategies and recent developments

Kananovich, Dzmitry; Elek, Gabor Zoltan; Lopp, Margus; Borovkov, Victor Frontiers in chemistry 2021 / art. 614944 <https://doi.org/10.3389/fchem.2021.614944> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Alkyltitanium ate complexes generated from alkylmagnesium halides and titanium TADDOLate : NMR and computational study

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Amateur observers witness the return of Venus' cloud discontinuity

Kardasis, Emmanuel; Peralta, Javier; Kananovich, Dzmitry Atmosphere 2022 / art. 348 <https://doi.org/10.3390/atmos13020348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Asymmetric Kulinkovich hydroxycyclopropanation of alkenes mediated by titanium(IV) TADDOLate complexes

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Asymmetric synthesis of 2-amino-8-oxo-9,10-epoxydecanoic acid via cyclopropane cleavage strategy [Online resource]

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Asymmetric synthesis with titanacyclopentane reagents : From early results to the recent achievements

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Design and validation of novel chikungunya virus protease inhibitors

Das, Pratyush Kumar; Puusepp, Laura; Varghese, Finny S.; Utt, Age; Ahola, Tero; Kananovich, Dzmitry; Lopp, Margus; Merits, Andres; Karelson, Mati Antimicrobial agents and chemotherapy 2016 / p. 7382-7395 : ill <https://doi.org/10.1128/AAC.01421-16> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of mechanochemical c–n bond forming reactions

Dalidovich, Tatsiana; Mishra, Kamini Atindrakumar; Shalima, Tatsiana; Kudrjašova, Marina; Kananovich, Dzmitry; Aav, Riina GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 27 https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Development of new photocatalytic ring-opening reaction of cyclopropanols

Krech, Anastasiya; Ošeka, Maksim; Kananovich, Dzmitry BOSS XVII : Programme & Book of Abstracts 2022 / p. 132-132 https://books.google.ee/books/about/BOSS_XVII.html?id=dCuZwEACAAJ&redir_esc=y

Divergent access to histone deacetylase inhibitory cyclopeptides via a late-stage cyclopropane ring Cleavage strategy. Short synthesis of Chlamydocin

Elek, Gabor Zoltan; Koppel, Kaur; Zubrytski, Dzmitry M.; Konrad, Nele; Järving, Ivar; Lopp, Margus; Kananovich, Dzmitry Organic letters 2019 / p. 8473-8478 : ill <https://doi.org/10.1021/acs.orglett.9b03305> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Eestlased raputasid maakoores levinud metalle

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Enabling ring-opening reaction of cyclopropanols with decatungstate anion photocatalysis

Krech, Anastasiya; Kananovich, Dzmitry; Ošek, Maksim ISySyCat 2023 : International Symposium on Synthesis and Catalysis : Book of Abstracts 2023 / 1 p https://books.google.ee/books/about/ISySyCat_2023.html?id=wkVl0AEACAAJ&redir_esc=y

Enantioselective cyclopropanation of carboxylic esters with alkyl magnesium bromides in the presence of titanium(IV) (4R,5R)-TADDOLates

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Enantioselective one-pot synthesis of α,β -epoxy ketones via aerobic oxidation of cyclopropanols

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Facile and environmentally benign aerobic cascade oxidation of substituted cyclopentane-1,2-diones using metalloporphyrin catalysts [Online resource]

Maljutenko, Karolin; Borovkov, Victor; Kananovich, Dzmitry; Lopp, Margus 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/>

Facile synthesis of distally fluorinated ketones by copper-mediated oxidative ring cleavage of cyclopropanols

Konik, Yulia A.; Zubrytski, Dzmitry M.; **Gathergood, Nicholas; Kananovich, Dzmitry; Lopp, Margus** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 85 : ill http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf

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

A general approach to the synthesis of 5-S-functionalized pyrimidine nucleosides and their analogues

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A general approach to the synthesis of 5-S-functionalized pyrimidine nucleosides and their analogues

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Generation of mixed anhydrides via oxidative fragmentation of tertiary cyclopropanols with phenyliodine(III) dicarboxylates

Zubrytski, Dzmitry M.; **Elek, Gabor Zoltan; Lopp, Margus; Kananovich, Dzmitry** Molecules 2020 / art. 140 <https://doi.org/10.3390/molecules26010140> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Green chemistry tools in mechanochemistry

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Highly diastereoselective chelation-controlled 1,3-anti-allylation of (S)-3-(Methoxymethyl)hexanal enabled by hydrate of scandium triflate

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A highly stereoselective route to medium-ring-sized trans-alkenolides via oxidative fragmentation of bicyclic oxycyclopropane precursors : application to the synthesis of (+)-recifeiolide

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How reliable is internal standard method in monitoring mechanochemical synthesis? A case study of triphenylmethane in HPLC-UV-MS analysis of hemicucurbit[n]urils

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HPLC-MS as a tool for screening mechanochemical synthesis of macrocycles

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Indole-like Trk receptor antagonists

Tammiku-Taul, Jaana; Park, Rahel; Jaanson, Kaur; Luberg, Kristi; Dobchev, Dimitar Atanasov; Kananovich, Dzmitry; Noole, Artur; Mandel, Merle; Kaasik, Allen; **Lopp, Margus; Timmusk, Tõnis;** Karelson, Mati European journal of medicinal chemistry 2016 / p. 541-552 : ill <https://doi.org/10.1016/j.ejmech.2016.06.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Insight into the mechanism and stereochemistry of the transformations of alkyltitanium ate-complexes. An enhanced enantioselectivity in the cyclopropanation of the carboxylic esters with titanacyclopentane reagents

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Ligand-tailored divergence of copper-catalyzed aerobic oxidation of cyclopropanols. Application to the practical synthesis of β -aminoketones and β -enaminones

Zavalinich, Viktoryia A.; **Elek, Gabor Zoltan; Vailhe, Pauline;** Novikau, Ilya; Syakhovich, Vitaly; Kirillov, Alexander M.; **Lopp, Margus; Masiuk, Uladzimir; Kananovich, Dzmitry** Advanced synthesis & catalysis 2024 / p. 4485-4496 <https://doi.org/10.1002/adsc.202400490> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanochemical barbiere-type grignard addition reactions of organic halides

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Mechanochemical birch reduction with low reactive alkaline earth metals

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Mechanochemical C–N bond forming reactions in the synthesis of active pharmaceutical ingredients

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Mechanochemical conversion of 1,2,3-trichloropropane into homoallylic alcohols

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Mechanochemical nucleophilic substitution of alcohols via isouronium intermediates

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Mechanochemical synthesis of amides with uronium-based coupling reagents : a method for hexa-amidation of biotin[6]JuriI

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Mechanochemically driven covalent self-assembly of a chiral mono-biotinylated hemicurbit[8]JuriI

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Mechanochemistry-amended Barbier reaction as an expedient alternative to Grignard synthesis

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Novel analogues of the Chikungunya virus protease inhibitor: molecular design, synthesis, and biological evaluation

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Porphyrin-based (chir)optical sensing of amino-functionalized thiourea organocatalysts

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Preparation of stereochemically pure E- and Z-alkenoic acids and their methyl esters from bicyclo[n.1.0]alkan-1-ols : application in the synthesis of insect pheromones

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Protecting-group-free mechanosynthesis of amides from hydroxycarboxylic acids : application to the synthesis of imatinib

Nikonovich, Tatsiana; Jarg, Tatsiana; Martõnova, Jevgenija; Kudrjašov, Artjom; Merzhyevskiy, Danylo; Kudrjašova, Marina; Gallou, Fabrice; Aav, Riina; Kananovich, Dzmitry RSC Mechanochemistry 2024 / p. 189–195 <https://doi.org/10.1039/D4MR00006D>

Protecting-Group-Free mechanosynthesis of amides from hydroxycarboxylic acids : application to the synthesis of Imatinib : preprint

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Quest for asymmetric Kulinkovich cyclopropanation: from the reaction mechanism towards enhanced enantioselectivity

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Quest for asymmetric Kulinkovich reaction: from mechanism towards enhanced enantioselectivity

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Recent advances in asymmetric synthesis via cyclopropanol intermediates

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Ring-opening coupling reaction of cyclopropanols with electrophilic alkenes enabled by decatungstate as photoredox catalyst

Krech, Anastasiya; **Yakimchyk, Viktoryia**; **Jarg, Tatsiana**; **Kananovich, Dzmitry**; **Ošek, Maksim** Advanced synthesis & catalysis 2024 / p. 91-100 <https://doi.org/10.1002/adsc.202300939> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ring-opening coupling reaction of cyclopropanols with electrophilic alkenes enabled by decatungstate as photoredox catalyst

Krech, Anastasiya; **Kananovich, Dzmitry**; **Ošek, Maksim** PHOTOCAT 24 : School of Photochemistry : from Photocatalysis to Photobiology : Book of Abstract 2024 / p. 67

Short synthesis of chlamydocin and related histone deacetylase inhibitors via late-stage cyclopropane ring cleavage strategy [Online resource]

Elek, Gabor Zoltan; **Koppel, Kaur**; **Lopp, Margus**; **Kananovich, Dzmitry** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p.: ill <http://fmdk.ut.ee/teesid-2019/>

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Simple access to β -trifluoromethyl-substituted ketones via copper-catalyzed ring-opening trifluoromethylation of substituted cyclopropanols

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Site-selective and stereoselective C–H functionalization of N-Cyclopropylamides via a directed remote metalation strategy

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