

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](#)

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](#)

An NMR spectroscopic investigation of functional group selectivity of lipase-catalysed reactions of 11-acetyl prostaglandins E1 and E2

Villo, Ly; Tamp, Sven; Vallikivi, Imre; Järving, Ivar; Pehk, Tõnis; Parve, Omar Proceedings of the 9th International Symposium on Biocatalysis and Biotransformations - (Biotrans 2009) Held in Bern, Switzerland 5-9 July 2009 2010 / p. 66

Apatites based catalysts : a tentative classification

Gruselle, Michel; Tõnsuaadu, Kaia; Gredin, Patrick; Len, Christophe Molecular catalysis 2022 / art. 112146
<https://doi.org/10.1016/j.mcat.2022.112146> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 207

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 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://fmdtk.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 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 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 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

Ošeka, 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](#)

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

Atom economy, biodegradation, catalysis and green toxicology : tools for the delivery of green chemistry based on ionic liquids [Online resource]

Gathergood, Nicholas Abstracts : ICCE 2017 Oslo : 16th International Conference on Chemistry and the Environment : Oslo, Norway, 18-22 June 2017 / art. 171, p. [155] http://icce2017.org/downloads/Abstraktsamling_16_06_17.pdf

Atom economy, catalysis and green toxicology : tools for the delivery of sustainable chemistry based on ionic liquids

Gathergood, Nicholas 2nd Green and Sustainable Chemistry Conference : 14-17 May 2017, Berlin, Germany : abstracts 2017 / p. [O4.6]

Atom economy, catalysis and green toxicology : tools for the delivery of sustainable chemistry based on ionic liquids

Gathergood, Nicholas 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 47 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Biomass-derived graphene-like catalyst material for oxygen reduction reaction

Kaare, Kätlin; Yu, Eric; Käämbre, Tanel; Volperts, Aleksandrs; Dobeles, Galina; Zhurinsk, Aivars; Niaura, Gediminas; Tamasauskaitė-Tamasiunaite, Loreta; Norkus, Eugenijus; Kruusenberg, Ivar ChemNanoMat 2021 <https://doi.org/10.1002/cnma.202000615>

Biomorpholines 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

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; Traksmas, Rainer; Maaten, Birgit; Tõnsuaadu, Kaia ACS catalysis 2011 / p. 1729-1733 : ill

Catalytic asymmetric synthesis of g-lactone acids

Paju, Anne; Niidu, Allan; Lumi, Priit; Matkevits, Katharina; Oja, Karolin; Pehk, Tõnis; Lopp, Margus Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010

Catalytic effect of oil shale ash on CO₂ gasification of leached wheat straw and reed chars

Link, Siim; Tran, Khanh-Quang; Bach, Quang-Vu; Yrjas, Patrik; Rosin, Argo Energy 2018 / p. 906-913
<https://doi.org/10.1016/j.energy.2018.04.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Catalytic ozonation as a means for degradation of resistant compounds

Trapido, Marina; Veressina, Jelena; Munter, Rein Abstracts of the International Conference "Eco-Balt 2004" 2004 / p. 15-16

Catalytic ozonation of m-dinitrobenzene

Trapido, Marina; Veressina, Jelena; Munter, Rein; Kallas, Juha Ozone : science and engineering 2005 / 5, p. 359-363 : ill

Catalytic ozonation of trimethoprim in aqueous solution by in situ generated hydrous manganese oxide

Goi, Anna; Bolobajev, Juri 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 330 https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf

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-europe.onlinelibrary.wiley.com/doi/10.1002/open.202500116>

ChemEASTry Europe, the status of the chemical sciences in a growing region

Gryko, Dorota; Szumna, Agnieszka; Aav, Riina; Soos, Tibor The journal of organic chemistry 2023 / p. 12165-12167
<https://doi.org/10.1021/acs.joc.3c01805> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ChemEASTry Europe, the status of the chemical sciences in a growing region

Gryko, Dorota; Szumna, Agnieszka; Aav, Riina; Soos, Tibor Organic letters 2023 / p. 6237-6239
<https://doi.org/10.1021/acs.orglett.3c02621> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A chemoenzymatic synthesis of deoxy sugar esters involving stereoselective acetylation of hemiacetals catalyzed by CALB

Villo, Ly; Kreen, Malle; Metsala, Andrus; Tamp, Sven; Lille, Ülo; Pehk, Tõnis; Parve, Omar; Kudrjašova, Marina Journal of molecular catalysis B : enzymatic 2011 / p. 44-51 <https://www.sciencedirect.com/science/article/abs/pii/S1381117710002511>

Chiral ionic liquids : effect of symmetry and stereochemistry on toxicity and biodegradation

Gathergood, Nicholas Symmetry : culture and science 2017 / p. 179-182 : ill <http://journal-scs.symmetry.hu/content-pages/volume-28-number-2-pages-161-240-2017/>

Chirogenesis in asymmetric synthesis and catalysis

Kananovich, Dzmitry; Lopp, Margus Chirogenesis in Chemical Science 2023 / p. 169-240 : ill https://doi.org/10.1142/9789811259227_0004 https://www.ester.ee/record=b5748359*est

Chirogenesis in Chemical Science

2023 <https://doi.org/10.1142/12915> https://www.ester.ee/record=b5748359*est

Cobalt and nitrogen co-doped peat derived carbon based catalysts for oxygen reduction

Jäger, Rutha; Teppor, Patrick; Härk, Eneli; Härmas, Meelis; Adamson, Anu; Paalo, Maarja; Volobujeva, Olga; Kikas, Arvo; Kochovski, Zdravko; Romann, Tavo ECS Transactions 2020 / p. 605-613 : ill <https://doi.org/10.1149/09707.0605ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

Condensation of methylolphenols

Christjanson, Peep; Köösel, Arne-Enn; Suurpere, Aime Oil shale 1999 / 4, p. 369-376: ill https://artiklid.elnet.ee/record=b1002756*est

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

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

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

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 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>

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

Electrocatalysis of oxygen reduction by iron-containing nitrogen-doped carbon aerogels in alkaline solution

Sarapuu, Ave; Kreek, Kristiina; Kisand, Kaarel; Kook, Mati; Uibu, Mai; Koel, Mihkel; Tammeveski, Kaido Electrochimica acta 2017 / p. 81-88 : ill <https://doi.org/10.1016/j.electacta.2017.01.157> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enantio-differentiating hydrogenation of alkyl 3-oxobutanoates over tartaric acid-modified Ni catalyst: Enthalpy-entropy compensation effect as a tool for elucidating mechanistic features

Osawa, Tsutomu; Wakasugi, Masahiro; Kizawa, Tomoko; Borovkov, Victor; Inoue, Yoshihisa Molecular catalysis 2018 / p. 131-136 : ill <https://doi.org/10.1016/j.mcat.2018.02.023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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 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 to unsaturated indolyl ketones

Trubitsin, 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 Tsuji-Trost reactions in low toxicity ionic liquids

Ghavre, Mukund; Quilty, Brid; **Gathergood, Nicholas** Current green chemistry 2016 / p. 181-189 : ill <https://doi.org/10.2174/2213346103666160728115628>

Enantioselectivne 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

Heterocomponent ternary supramolecular complexes of porphyrins: a review

Prigorchenko, Elena; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina Journal of porphyrins and phthalocyanines 2019 / p. 1308-1325 : ill <https://doi.org/10.1142/S108842461930026X> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Highly active wood-derived nitrogen-doped carbon catalyst for the oxygen reduction reaction

Kaare, Kätlin; Yu, Eric; Volperts, Aleksandrs; Dobeles, Galina; Zhurinsk, Aivars; Dyck, Alexaner; Niaura, Gediminas; Tamasauskaitė-Tamasiunaite, Loreta; Norkus, Eugenijus; Andrulevičius, Mindaugas; **Danilson, Mati;** Kruusenberg, Ivar ACS omega 2020 / p. 23578-23587 : ill <https://doi.org/10.1021/acsomega.0c01974> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hydroxyapatite-based catalysts in organic synthesis

Gruselle, Michel; **Tõnsuaadu, Kaia;** Gredin, Patrick; Len, Christophe Design and applications of hydroxyapatite-based catalysts 2022 / chapter 10 <https://doi.org/10.1002/9783527830190.ch10>

Identification of active sites for oxygen reduction reaction on nitrogen- and sulfur-codoped carbon catalysts

Villemson, Karl Markus; **Kaare, Kätlin;** Raudsepp, Ragle; Käämbre, Tanel; Šmits, Krišjānis; Wang, Pangpang; Kuzmin, Anton V.; Šutka, Andris; Shaiyan, Bagrat A.; Kruusenberg, Ivar Journal of physical chemistry C 2019 / p. 16065-16074 <https://doi.org/10.1021/acs.jpcc.9b00117>

Influence of A-site modifications on the properties of La_{0.21}Sr_{0.74-x}CaxTi_{0.95}Fe_{0.05}O_{3-δ} based fuel electrode for solid oxide cell

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga;** Granroth, Sari; Lust, Enn; Nurk, Gunnar Journal of The Electrochemical Society 2023 / art. 054502, 10 p. : ill <https://doi.org/10.1149/1945-7111/acd084> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Inseneriensusmoloogia - tööstuskatalüüsi tulevikusuund

Köstner, Ado Tehnika ja Tootmine 1977 / lk. 344-347 https://www.ester.ee/record=b1073047*est

Investigation of 11R-lipoxygenase quaternary structure

Eek, Priit; Põldemaa, Kaspar; Kasvandik, Sergio; **Järving, Ivar; Samel, Nigulas** Book of abstracts : 6th European Workshop on Lipid Mediators (6EWLM), Goethe University in Frankfurt am Main, Germany, September 27-30, 2016 2016 / p. 112 http://workshop-lipid.eu/pictures/Abstract%20book-6EWLM_160926.pdf

Keemiline kineetika : õppevahend. 2, Katalüüs

Talts, Erika 1973 https://www.ester.ee/record=b1300207*est

Lipase-catalysed acylation of prostanoids

Parve, Omar; **Järving, Ivar; Martin, Ivar; Metsala, Andrus; Vallikivi, Imre; Aidnik, Madis; Pehk, Tõnis;** Samel, Nigulas Bioorganic & medicinal chemistry letters 1999 / p. 1853-1858: ill

Lipase-catalysed derivatisation of prostanoids

Parve, Omar; **Vallikivi, Imre;** Martin, Ivar; Järving, Ivar; Samel, Nigulas 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P179

Lipase-catalysed enantioselective hydrolysis : interpretation of the kinetic results in terms of frontier orbital localisation

Parve, Omar; **Vallikivi, Imre;** Metsala, Andrus; **Lille, Ülo;** Tõugu, Vello; Sikk, Peeter; **Käämbre, Tuuli;** Vija, Heiki; **Pehk, Tõnis** Tetrahedron 1997 / 13, p. 4889-4900

Lipase-catalysed enantioselective hydrolysis of bicyclo[3.2.0]heptanol esters in supercritical carbon dioxide

Parve, Omar; **Vallikivi, Imre**; Lahe, Lilja; Metsala, Andrus; **Lille, Ülo**; Tõugu, Vello; Vija, Heiki; **Pehk, Tõnis** Bioorganic & medicinal chemistry letters 1997 / 7, p. 811-816

Lipase-catalysed reactions of prostaglandins

Vallikivi, Imre 2004 https://www.ester.ee/record=b1990575*est

Metal-catalyzed degradation of cellulose in ionic liquid media

Aid, Tiina; Koel, Mihkel; Lopp, Margus; **Vaher, Merike** Inorganics 2018 / art. 78, 11 p. : ill <https://doi.org/10.3390/inorganics6030078>
[Journal metrics at Scopus](#) [Article at Scopus](#)

Multifunctional chiral hydrogen and halogen bond containing catalysts in glycosylation reactions

Miller, Annette; Hunt, Kaarel Erik 13th Paul Walden Symposium : Program and abstracts 2023 / p. 51 https://walden.osi.lv/wp-content/uploads/2023/09/Abstract_book_Walden_2023.pdf

NMR monitoring of lipase-catalyzed reactions of prostaglandins : preliminary estimation of reaction velocities

Vallikivi, Imre; Järving, Ivar; **Pehk, Tõnis**; Samel, Nigulas; Tõugu, Vello; **Parve, Omar** Journal of molecular catalysis B : enzymatic 2004 / p. 15-19 : ill

A novel approach to fabricate Si3N4 by selective laser melting

Minasyan, Tatevik; Liu, Le; Aghayan, Marina; Kollo, Lauri; Kamboj, Nikhil Kumar; Aydinyan, Sofiya; Hussainova, Irina Ceramics international 2018 / p. 13689-13694 : ill <https://doi.org/10.1016/j.ceramint.2018.04.208> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oksüdatsiooni stereospetsiifilisus arahhidoonhappe C-15 juures tsüklooksügenaasi katalüüsis

Valmsen, Karin; Järving, Reet; Järving, Ivar; **Samel, Nigulas** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 156

Organocatalytic asymmetric addition of malonates to unsaturated 1,4-diketones

Žari, Sergei; Kailas, Tiiu; 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 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

Oxygen electroreduction on platinum nanoparticles activated electrodes deposited onto D-glucose derived carbon support in 0.1 M KOH

Taleb, Masoud; Nerut, Jaak; Tooming, Tauno; Thomborg, Thomas; Lust, Enn Journal of The Electrochemical Society 2016 / p. F1251-F1257 <https://doi.org/10.1149/2.1051610jes> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxygen reduction on silver nanoparticles supported on carbide-derived carbons

Linge, Jonas Mart; Erikson, Heiki; Merisalu, Maido; **Kaljuvee, Tiit** Journal of the electrochemical society 2018 / p. F1199-F1205 <https://doi.org/10.1149/2.0711814jes> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A photochemical organocatalytic strategy for the α -alkylation of ketones by using radicals

Spinnato, Davide; Schweitzer-Chaput, Bertrand; Goti, Giulio; **Ošeka, Maksim**; Melchiorre, Paolo Angewandte Chemie international Edition 2020 / p. 9485 - 9490 <https://doi.org/10.1002/anie.201915814> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Potential of electric discharge plasma methods in abatement of volatile organic compounds originating from food industry

Preis, Sergei; Klauson, Deniss; Gregor, Andre Journal of environmental management 2013 / p. 125-138 <https://doi.org/10.1016/j.jenvman.2012.10.042> [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](#)

Quantifying graphitic edge exposure in graphene-based materials and its role in oxygen reduction reactions

Stamatin, Serban; **Hussainova, Irina**; Ivanov, Roman; Colavita, Paula E. ASC catalysis 2016 / p. 5215-5221 : ill <https://doi.org/10.1021/acscatal.6b00945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A quantitative method for analysis of mixtures of homologues and stereoisomers of hemicucurbiturils that allows us to follow their formation and stability

Fomitšenko, Maria; Peterson, Anna; Reile, Indrek; Cong, Hang; **Kaabel, Sandra; Prigorchenko, Elena; Järving, Ivar; Aav, Riina** New journal of chemistry 2017 / p. 2490-2497 : ill <https://doi.org/10.1039/C6NJ03050E> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Rapid catalytic water disinfection from earth abundant Ca₂Fe₂O₅ brownmillerite

Vanags, Mārtiņš; Mežule, Linda; Spule, Arnita; Kostjukovs, Juris; Šmits, Krišjānis; Tamm, Aile; Juhna, Talis; Vihodceva, Svetlana; Käämbre, Tanel; **Vasiliev, Grigory** Advanced sustainable systems 2021 / art. 2100130, 10 p. : ill <https://doi.org/10.1002/adsu.202100130> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Redox reactivity at silver microparticle-glassy carbon contacts under a coating of polymer of intrinsic microporosity (PIM)

He, Daping; **Rauwel, Erwan;** Malpass-Evans, Richard; Carta, Mariolino Journal of solid state electrochemistry 2017 / p. 2141-2146 : ill <https://doi.org/10.1007/s10008-017-3534-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ring-opening cross-coupling of cyclopropanols with electrophilic alkenes via photoinduced charge transfer facilitated by decatungstate catalyst

Krech, Anastasiya 13th Paul Walden Symposium : Program and abstracts 2023 / p. 44 https://walden.osi.lv/wp-content/uploads/2023/09/Abstract_book_Walden_2023.pdf

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 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 (2S,2'S)-bimorpholine N,N'-quaternary salts as chiral phase transfer catalysts

Lippur, Kristin; Kanger, Tõnis; Kriis, Kadri; Kailas, Tiit; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Tetrahedron: asymmetry 2007 / p. 137-141

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>

The journal of organic chemistry

2023 <https://pubs.acs.org/toc/joc/88/17>

The modelling and kinetic investigation of the lipase-catalysed acetylation of stereoisomeric prostaglandins

Vallikivi, Imre; Fransson, Linda; Hult, Karl; **Järving, Ivar; Pehk, Tõnis; Samel, Nigulas; Tõugu, Vello; Villo, Ly; Parve, Omar** Journal of molecular catalysis B : enzymatic 2005 / p. 62-69 : ill

The template-assisted wet-combustion synthesis of fibrous nickel-based catalyst for carbon dioxide methanation and methane steam reform

Aghayan, Marina; Potemkin, D. I.; Rubio-Marcos, Fernando; **Hussainova, Irina** ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 419 : ill <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

The template-assisted wet-combustion synthesis of fibrous nickel-based catalyst for carbon dioxide methanation and methane steam reforming

Aghayan, Marina; Potemkin, D. I.; Rubio-Marcos, Fernando; Uskov, S. I.; Snytnikov, N.; **Hussainova, Irina** ACS applied materials and interfaces ACS applied materials & interfaces 2017 / p. 43553-43562 : ill <https://doi.org/10.1021/acsami.7b08129> [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](#)

Tunable calcium-apatites as solid catalysts for classical organic reactions

Gruselle, Michel; Tõnsuaadu, Kaia Current organic chemistry 2017 / p. 688-697 : ill

<https://doi.org/10.2174/1385272821666161219155302> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tunneling-percolation behavior of graphene-encapsulated whiskers as electroconductive fillers for ceramics

Hussainova, Irina; Ivanov, Roman; Kale, Sudhir S.; Jasiuk, Iwona Short fibre reinforced cementitious composites and ceramics 2019 / p. 131-139 https://doi.org/10.1007/978-3-030-00868-0_9 Article collection metrics at Scopus Article at Scopus

Unconventional oil contaminated industrial effluent treatment by catalyzed hydrogen peroxide and sodium persulfate

Dulova, Niina; Kattel, Eneliis; Viisimaa, Marika; Goi, Anna; Klauson, Deniss; Trapido, Marina; Saluste, Alar; Tenno, Taavo Proceedings of the 7th International Conference on Environmental Science and Technology, June 9-13, 2014, Houston, Texas, USA 2014 / p. 262-268

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

Water delignification by advanced oxidation processes : homogeneous and heterogeneous Fenton and H₂O₂ photo-assisted reactions

Makhotkina, O.; Preis, Sergei; Parkhomchuk, E. Applied catalysis B : environmental 2008 / 3/4, p. 821-826 : ill <https://www.sciencedirect.com/science/article/pii/S0926337308002348>

Изучение кинетики и катализа реакции этерификации фенола хлорокисью фосфора

Schmidt, Ludvig; Talts, Erika; Johannes, Ellen Журнал общей химии 1963 / с. 1280-1285 https://www.ester.ee/record=b1251398*est

Изучение кинетики и катализа реакции этерификации фенола хлорокисью фосфора

Schmidt, Ludvig; Talts, Erika; Johannes, Ellen Сборник статей по химии и химической технологии. 8 1962 / с. 163-182 https://www.ester.ee/record=b2181584*est <https://digikogu.taltech.ee/et/Item/6ec4da4c-96e0-445e-b789-9dde4bb0db38>

Исследование каталитической деструкции углеводородов и кислородных соединений : (сообщение IV)

Siirak, Maare; Raudsepp, Hugo Сборник статей по химии и химической технологии. 17 1967 / с. 51-58 https://www.ester.ee/record=b2182175*est <https://digikogu.taltech.ee/et/Item/7729329c-fcb4-4227-8663-3a21bf5c78ff>

Исследование каталитической деструкции углеводородов и кислородных соединений : (сообщение III)

Raudsepp, Hugo; Siirak, Maare Сборник статей по химии и химической технологии. 17 1967 / с. 39-49 : илл https://www.ester.ee/record=b2182175*est <https://digikogu.taltech.ee/et/Item/7729329c-fcb4-4227-8663-3a21bf5c78ff>

Исследование каталитической окислительной деструкции углеводородов и кислородных соединений.

Сообщение 1 : Исследование каталитического окисления пентана на катализаторе VO₂ в газовой фазе

Raudsepp, Hugo; Einborn, Illi Технология органических веществ. 1 1969 / с. 73-84 : илл https://www.ester.ee/record=b1337236*est <https://digikogu.taltech.ee/et/Item/d6e3c08c-1c99-48a8-ae34-e91a3f1c8d0d>

Исследование каталитической окислительной деструкции углеводородов и кислородных соединений.

Сообщение 2 : Исследование каталитического окисления некоторых карбоновых кислот кислородом воздуха в газовой фазе на катализаторе двуокиси ванадия

Raudsepp, Hugo; Uibopuu, Helvi Технология органических веществ. 1 1969 / с. 85-93 : илл https://www.ester.ee/record=b1337236*est <https://digikogu.taltech.ee/et/Item/d6e3c08c-1c99-48a8-ae34-e91a3f1c8d0d>

Исследование процессов каталитической деструкции углеводородов и кислородных соединений : (сообщение V)

Siirak, Maare; Raudsepp, Hugo Сборник статей по химии и химической технологии. 18 1968 / с. 29-36 : илл https://www.ester.ee/record=b2182210*est <https://digikogu.taltech.ee/et/Item/da497296-14c1-45a6-b8d9-501e8c574070>

Катализ нитрозирования формальдегидом

Raja, Kristi; Kann, Jüri Технология пищевых производств. 6 1976 / с. 71-75 https://www.ester.ee/record=b1182279*est <https://digikogu.taltech.ee/et/Item/b776e312-51e7-4e92-af0d-41e1141cf2af>

Каталитическая реакция оксиметилирования. Сообщение 1 : Реакция одноатомных фенолов с формальдегидом в присутствии NaOH

Kiisler, Karl; Kose, Anne; Kaps, Tiit; Christjanson, Peep Технология органических веществ. 8 1976 / с. 93-99 : илл https://www.ester.ee/record=b1475761*est <https://digikogu.taltech.ee/et/Item/38b2a836-99da-4b82-8058-1c2084a10575>

Кинетика и катализ реакции этилдихлорфосфата с фенолом

Schmidt, Ludvig; Talts, Erika; Johannes, Ellen Сборник статей по химии и химической технологии. 10 1964 / с. 289-298 https://www.ester.ee/record=b2181961*est <https://digikogu.taltech.ee/et/Item/9569e6db-150a-42c8-bf3b-765725dfd969>

Микроморфология пироуглерода, формирующегося в индифферентных и каталитических условиях

Aarna, Agu; Žirjakov, Juri Горючие Сланцы 1987 / с. 181-187 : илл https://www.ester.ee/record=b1072685*est

Прикладные вопросы биоорганического катализа

1981 https://www.ester.ee/record=b1345163*est <https://digikogu.taltech.ee/et/Item/8ddb0fc6-18e7-45ab-baea-c94e3b5e53a6>