

Antimicrobial activity of commercial photocatalytic SaniTise™ Window glass

Kisand, Vambola; Visnapuu, Meeri; **Rosenberg, Merilin**; Danilian, Dmytro; Vlassov, Sergei; Kook, Mati; Lange, Sven; Pärna, Rainer; Ivask, Angela Catalysts 2022 / art. 197 <https://doi.org/10.3390/catal12020197> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Application of agricultural waste as heterogeneous catalysts for biodiesel production

Khan, Haris Mahmood; Iqbal, Tanveer; Yasin, Saima; Ali, Chaudhry Haider; Abbas, Muhammad Mujtaba; Jamil, Muhammad Asif; **Hussain, Abrar**; Soudagar, Manzoore Elahi M.; Rahman, Muhammad Muhtur Catalysts 2021 / art. 1215, 17 p. : ill <https://doi.org/10.3390/catal11101215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 cyclopropanation via an electro-organocatalytic cascade

Krech, Anastasiya; Laktsevich-Iskryk, Marharyta; Deil, Nora; Fokin, Mihhail; Kimm, Mariliis; Ošeka, Maksim Chemical communications 2024 / 14026-14029 <https://doi.org/10.1039/D4CC05092D> [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

Iskryk, Marharyta; Barysevich, Maryia; Ošeka, Maksim; Adamson, Jasper; Kananovich, Dzmitry Synthesis 2019 / p. 1935-1948 : ill <https://doi.org/10.1055/s-0037-1611709> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 tetrahydrofuran spirooxindoles

Trubitsin, 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–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 Addition-cyclization cascade of cyclopentane-1,2-dione with substituted α,β -unsaturated aldehydes

Pregel, Gert; Silm, Estelle; Kaabel, Sandra; Järving, Ivar; Rissanen, Kari; Lopp, Margus Synthesis 2017 / p. 3118-3125 : ill <https://doi.org/10.1055/s-0036-1588787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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](#)

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](#)

Cellular, extracellular and extracellular vesicular miRNA profiles of pre-ovulatory follicles indicate signaling disturbances in polycystic ovaries

Rooda, Ilmatar; Hasan, Mohammed Mehedi; Roos, Kristine; Viil, Janeli; Smolander, Olli-Pekka; Velthut-Meikas, Agne International journal of molecular sciences 2020 / art. 9550, 23 p. : ill <https://doi.org/10.3390/ijms21249550> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cobalt-containing nitrogen-doped carbon aerogels as efficient electrocatalysts for the oxygen reduction reaction

Kreek, Kristiina; Sarapuu, Ave; Samolberg, Lars; Joost, Urmas; **Mikli, Valdek**; **Koel, Mihkel**; Tammeveski, Kaido
ChemElectroChem 2015 / p. 2079-2088 : ill <https://doi.org/10.1002/celec.201500275> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

De novo 3D structure determination from sub-milligram protein samples by solid-state 100 kHz MAS NMR spectroscopy
Agarwal, Vipin; Penzel, Susanne; Szekely, Kathrin; Cadalbert, Riccardo; Testori, Emilie; **Oss, Andres**; **Past, Jaan**; **Samoson, Ago**;
Ernst, Matthias; Böckmann, Anja; Meier, Beat H. Angewandte Chemie international edition 2014 / p. 12253-12256 : ill
<https://doi.org/10.1002/anie.201405730> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Degradation of antibiotic vancomycin by UV photolysis and pulsed corona discharge combined with extrinsic oxidants
Nikitin, Dmitri; Kaur, Balpreet; **Preis, Sergei**; **Dulova, Niina** Catalysts 2023 / art. 466, 16 p. : ill <https://doi.org/10.3390/catal13030466>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dehydration of AlPO₄-34 studied by variable-temperature NMR, XRD and first-principles calculations
Varlec, Jure; Krajnc, Andraž; **Vanatalu, Kalju**; **Oss, Andres**; **Samoson, Ago** New journal of chemistry 2016 / p. 4178-4186 : ill
<https://doi.org/10.1039/c5nj02838h> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Differential susceptibility of catheter biomaterials to biofilm-associated infections and their remedy by drug-encapsulated eudragit RL100 nanoparticles
Pandey, Vivek Kumar; Srivastava, Kumar Rohit; Ajmal, Gufran; Thakur, Vijay Kumar; **Gupta, Vijai Kumar**; Upadhyay, Siddh Nath;
Mishra, Pradeep Kumar International Journal of Molecular Sciences 2019 / Art. nr. 5110 <https://doi.org/10.3390/ijms20205110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Diversity in TAF proteomics : consequences for cellular differentiation and migration
Kazantseva, Jekaterina; **Palm, Kaia** International journal of molecular sciences 2014 / p. 16680-16697 : ill
<https://doi.org/10.3390/ijms150916680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic chiral cyclohexanohemicucurbit[12]uril
Mishra, Kamini Atindrakumar; **Adamson, Jasper**; **Öeren, Mario**; **Kaabel, Sandra**; **Fomitšenko, Maria**; **Aav, Riina** Chemical communications 2020 / p. 14645–14648 <https://doi.org/10.1039/D0CC06817A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Editorial overview : a closer look on green developments in analytical chemistry: green analytical chemistry is going mainstream
Koel, Mihkel; **Kaljurand, Mihkel** Current Opinion in Green and Sustainable Chemistry 2021 / Art. 100541
<https://doi.org/10.1016/j.cogsc.2021.100541> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemical characterisation of Co@Co(OH)₂ core-shell nanoparticles and their aggregation in solution
Xie, Ruo-Chen; Batchelor-McAuley, Christopher; **Rauwel, Erwan**; Rauwel, Protima; Compton, Richard G. ChemElectroChem 2020 / p. 4259 - 4268 <https://doi.org/10.1002/celec.202001199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electroreduction of oxygen on carbide-derived carbon supported Pd catalysts
Lüsi, Madis; Erikson, Heiki; Sarapuu, Ave; Merisalu, Mado; Rähn, Mihkel; Treshchalov, Alexey; Paiste, Päärn; Käärik, Maike; Leis, Jaan; Sammelselg, Väino; **Kaljuvee, Tiit**; Tammeveski, Kaido GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 57 : ill <https://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf> <https://doi.org/10.1002/celec.201902136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrospun carbon nanofibre-based catalysts prepared with Co and Fe phthalocyanine for oxygen reduction in acidic medium
Muuli, Kaur; Mooste, Marek; Akula, Srinu; **Gudkova, Viktoria**; Otsus, Markus; Kikas, Arvo; Aruväli, Jaan; Treshchalov, Alexey; Kisand, Vambola; **Krumme, Andres** ChemElectroChem 2023 / art. e202300131, 12 p. : ill <https://doi.org/10.1002/celec.202300131>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrospun polyacrylonitrile-derived Co and Fe containing nanofibre catalysts for oxygen reduction reaction at the alkaline membrane fuel cell cathode
Mooste, Marek; Kibena-Pöldsepp, Elo; **Vassiljeva, Viktoria**; Kikas, Arvo; Käärik, Maike; Kozlova, Jekaterina; Kisand, Vambola; Külaviir, Marian; Cavaliere, S.; Leis, Jaan; **Krumme, Andres**; Sammelselg, Väino; Holdcroft, Steven; Tammeveski, Kaido ChemCatChem 2020 / p. 4568–4581 : ill <https://doi.org/10.1002/cctc.202000658> [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 construction of acyclic quaternary carbon stereocenters : palladium-catalyzed decarboxylative allylic alkylation of fully substituted amide enolates

Starkov, Pavel; Moore, Jared T.; Duquette, Douglas C.; Stoltz, Brian M.; Marek, Ilan Journal of the American Chemical Society 2017 / p. 9615-9620 : ill <https://doi.org/10.1021/jacs.7b04086> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enantioselective N-Alkylation of Nitroindoles under Phase-Transfer Catalysis

Trubitsin, 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 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–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](#)

Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO₂ thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis

Spiridonova, Jekaterina; **Mere, Arvo**; **Krunks, Malle**; **Rosenberg, Merilin**; Kahru, Anne; **Danilson, Mati**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Catalysts 2020 / 21 p. : ill <https://doi.org/10.3390/catal10091011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Faster magic angle spinning reveals cellulose conformations in woods

Yuan, Eric Chung-Yueh; Huang, Shing-Jong; Huang, Hung-Chia; Sinkkonen, Jari; **Oss, Andres**; **Org, Mai-Liis**; **Samoson, Ago**; Tai, Hwan-Ching; Chan, Jerry Chun Chung Chemical communications 2021 / p. 4110–4113 <https://doi.org/10.1039/D1CC01149A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Formation and trapping of the thermodynamically unfavoured inverted-hemicucurbit[6]uril

Prigorchenko, Elena; **Kaabel, Sandra**; **Narva, Triin**; **Baškir, Anastassia**; **Fomitšenko, Maria**; Adamson, Jasper; **Järving, Ivar**; Rissanen, Kari; **Tamm, Toomas**; **Aav, Riina** Chemical communications 2019 / p. 9307–9310 : ill <https://doi.org/10.1039/C9CC04990H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Formation of [4Fe-4S] clusters in the mitochondrial iron–sulfur cluster assembly machinery

Brancaccio, Diego; **Zovo, Kairit**; **Palumaa, Peep** Journal of the American Chemical Society 2014 / p. 16240-16250 : ill <https://doi.org/10.1021/ja507822j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Gas-phase photocatalytic oxidation of refractory VOCs mixtures : through the net of process limitations

Kritševskaja, Marina; Preis, Sergei; Moiseev, Anna; **Pronina, Natalja**; Deubener, Joachim Catalysis today 2017 / p. 93-98 : ill <https://doi.org/10.1016/j.cattod.2016.03.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hydroxamic acids as PARP-1 inhibitors : molecular design and anticancer activity of novel phenanthridinones

Bondar, Denys; **Bragina, Olga**; Lee, Ji Young; Semenyuta, Ivan; **Järving, Ivar**; Brovarets, Volodymyr; Wipf, Peter; Bahar, Ivet; **Karpichev, Yevgen** Helvetica chimica acta 2023 / art. e202300133, 26 p. : ill <https://doi.org/10.1002/hlca.202300133> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Importance of molecular symmetry for enantiomeric excess recognition by NMR

Norvaiša, Karolis; O'Brien, John E.; **Osadchuk, Irina**; Twamley, Brendan; **Borovkov, Victor**; Senge, Mathias O. Chemical communications 2022 / p. 5423-5426 <https://doi.org/10.1039/D2CC01319C> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Importance of the micro-lattice structure of selective laser melting processed Mo/Mo(x)S(x+1) composite: Corrosion studies on the electrochemical performance in aqueous solutions

Alinejadian, Navid; Kazemi, Sayed Habib; **Grossberg-Kuusik, Maarja**; **Kollo, Lauri**; Odnevall, Inger Charlotta; **Prashanth, Konda Gokuldoss** Materials today chemistry 2022 / art. 101219 <https://doi.org/10.1016/j.mtchem.2022.101219> [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

Kulinkovich, Oleg G.; Kananovich, Dzmitry G.; **Lopp, Margus**; Snieckus, Victor *Advanced synthesis and catalysis* 2014 / p. 3615-3626 : ill <https://doi.org/10.1002/adsc.201400480> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interaction of tannic acid with ferric iron to assist 2,4,6-trichlorophenol catalytic decomposition and reuse of ferric sludge as a source of iron catalyst in Fenton-based treatment

Bolobajev, Juri; **Trapido, Marina**; **Goi, Anna** *Applied catalysis B : environmental* 2016 / p. 75-82 : ill

<https://doi.org/10.1016/j.apcatb.2016.01.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Iron and cobalt phthalocyanine embedded electrospun carbon nanofiber-based catalysts for anion exchange membrane fuel cell cathode

Muuli, Kaur; Sokka, Andri; Mooste, Marek; Lilloja, Jaana; **Gudkova, Viktoria**; Käärik, Maike; Otsus, Markus; Kikas, Arvo; Kisand, Vambola; Tamm, Aile; Leis, Jaan; **Krumme, Andres** *Journal of Catalysis* 2023 / p. 117-130 <https://doi.org/10.1016/j.jcat.2023.04.008>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kinetic resolution of epoxy alcohols with the Sharpless Ti-isopropoxide/tartaric ester complex

Maljutenko, Karolin; **Paju, Anne**; **Järving, Ivar**; Pehk, Tõnis; **Lopp, Margus** *Tetrahedron : asymmetry* 2016 / p. 608-613 : ill

<https://doi.org/10.1016/j.tetasy.2016.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Zavalinich, Viktoriya 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](#)

Lipase-catalyzed stereoresolution of long-chain 1,2-alkanediols: a screening of preferable reaction conditions

Parve, Jaan; Reile, Indrek; **Aid, Tiina**; **Kudrjašova, Marina**; **Müürisepp, Aleksander-Mati**; Vallikivi, Imre; **Villo, Ly**; **Aav, Riina**; Pehk, Tõnis; Vares, Lauri; **Parve, Omar** *Journal of molecular catalysis B : enzymatic* 2015 / p. 60-69 : ill

<https://doi.org/10.1016/j.molcatb.2015.03.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

LXXLL peptide converts transportan 10 to a potent inducer of apoptosis in breast cancer cells

Tints, Kairit; Prink, Madis; Neuman, Toomas; **Palm, Kaia** *International journal of molecular sciences* 2014 / p. 5680-5698 : ill

<https://doi.org/10.3390/ijms15045680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanochemical birch reduction with low reactive alkaline earth metals

Nallaparaju, Jagadeesh Varma; **Satsi, Riin**; **Merzhyevskyi, Danylo**; **Jarg, Tatsiana**; **Aav, Riina**; **Kananovich, Dzmitry**

Angewandte Chemie international edition 2024 / art. e202319449 <https://doi.org/10.1002/anie.202319449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Varma Nallaparaju, Jagadeesh; **Nikonovich, Tatsiana**; **Jarg, Tatsiana**; **Merzhyevskyi, Danylo**; **Aav, Riina**; **Kananovich, Dzmitry** *Angewandte Chemie international edition* 2023 / art. e202305775 <https://doi.org/10.1002/anie.202305775>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metals in ALS TDP-43 pathology

Koski, Lassi; Ronnevi, Cecilia; **Berntsson, Elina**; Wärmländer, Sebastian K.T.S.; Roos, Per M. *International Journal of Molecular Sciences* 2021 / Art. nr. 12193 <https://doi.org/10.3390/ijms222212193>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mutual Lewis acid-base interactions of cations and anions in ionic liquids

Holzweber, Markus; **Koel, Mihkel** *Chemistry : a European journal* 2013 / p. 288-293 : ill <https://doi.org/10.1002/chem.201201978>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Non-invasive assessment of skin surface proteins of psoriasis vulgaris patients in response to biological therapy

Orro, Kadri; Salk, Kristiina; Merkulova, Anna; Abram, Kristi; Karelson, Maire; Traks, Tanel; Neuman, Toomas; Spee, Pieter; Kingo, Külli *International Journal of Molecular Sciences* 2023 / art. 16248 <https://doi.org/10.3390/ijms242216248>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On the pH Dependency of the Catalysis by a Lytic Polysaccharide Monooxygenase from the Fungus *Trichoderma reesei*

Kuusk, Silja; **Lipp, Maarja**; Mahajan, Surabhi; Välijamäe, Priit *ACS Catalysis* 2024 / p. 13408-13419 : ill

<https://doi.org/10.1021/acscatal.4c03041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous toluene by gas-phase pulsed corona discharge in air-water mixtures followed by photocatalytic exhaust air cleaning

Kask, Maarja; **Kritševskaja, Marina**; **Preis, Sergei**; **Bolobajev, Juri** *Catalysts* 2021 / art. 549, 11 p. : ill

<https://doi.org/10.3390/catal11050549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxygen reduction on catalysts prepared by pyrolysis of electrospun styrene- acrylonitrile copolymer and multi-walled carbon nanotube composite fibres

Mooste, Marek; KibenaIPöldsepp, Elo; Matisen, Leonard; **Vassiljeva, Viktoria**; **Krumme, Andres** Catalysis letters 2018 / p. 1815–1826 : ill <https://doi.org/10.1007/s10562-018-2392-6> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paper microzones as a route to greener analytical chemistry

Kaljurand, Mihkel Current Opinion in Green and Sustainable Chemistry 2019 / p. 15-18 <https://doi.org/10.1016/j.cogsc.2019.03.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A phenotypic approach to probing cellular outcomes using heterobivalent constructs

Bhadoria, Rohit; **Ping, Kefeng**; **Lohk, Christer**; **Järving, Ivar**; **Starkov, Pavel** Chemical Communications 2020 / p. 4216 - 4219 <https://doi.org/10.1039/c9cc09595k> <https://pubs.rsc.org/en/content/articlelanding/2020/cc/c9cc09595k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photocatalytic degradation of different VOCs in the gas-phase over TiO₂ thin gilms prepared by ultrasonic spray pyrolysis

Dundar, Ibrahim; **Kritševskaja, Marina**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** Catalysts 2019 / art. 915 ; 18 p. : ill <https://doi.org/10.3390/catal9110915> [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](#)

Photoredox-catalyzed direct C–H monofluoromethylation of heteroarenes

Ramkumar, Nagarajan; Plantus, Ketrina; Ozola, Melita; Mishnev, Anatoly; Nikolajeva, Vizma; Senkovs, Maris; **Ošeka, Maksim**; Veliks, Janis New journal of chemistry 2023 / p. 20642-20652 <https://doi.org/10.1039/D3NJ04313D> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Plantago major and Plantago lanceolata Exhibit Antioxidant and Borrelia burgdorferi Inhibiting Activities

Laanet, Pille-Riin; **Bragina, Olga**; **Jõul, Piia**; **Vaher, Merike** International journal of molecular sciences 2024 / art. 7112 <https://doi.org/10.3390/ijms25137112> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preparation of fibril nuclei of beta-amyloid peptides in reverse micelles

Lin, Yen-Ling; Cheng, Yu-Sheng; **Org, Mai-Liis**; **Oss, Andres**; **Samoson, Ago** Chemical communications 2018 / p. 10459–10462 : ill <https://doi.org/10.1039/C8CC05882B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Propolis nanofibers : development and effect against SARS-CoV-2 virus and S. aureus, S. enterica bacteria

Zelca, Zane; **Krumme, Andres**; Kukle, Silvija; **Krasnou, Illia** Materials today chemistry 2023 / art. 101749 <https://doi.org/10.1016/j.mtchem.2023.101749> [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 metics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reduced state of iridium PCP pincer complexes in electrochemical CO₂ hydrogenation

Osadchuk, Irina; **Tamm, Toomas**; Ahlquist, Marten S. G. ACS catalysis 2016 / p. 3834-3839 : ill <https://doi.org/10.1021/acscatal.6b01233> [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; **Yakimchyk, Viktoryia**; **Jarg, Tatsiana**; **Kananovich, Dzmitry**; **Ošeka, 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](#)

Safeguarding female reproductive health against endocrine disrupting chemicals-The FREIA project

Duursen, Majorie B.M. van; Boberg, Julie; Christiansen, Sofie; Jääger, Kersti; Salumets, Andres; **Velthut-Meikas, Agne** International journal of molecular sciences 2020 / art. 3215 <https://doi.org/10.3390/ijms21093215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective performance of sol–gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants

Klauson, Deniss; Budarnaja, Olga; Stepanova, Kristina; Kritševskaja, Marina; Dedova, Tatjana; Käkinen, Aleksandr; Preis, Sergei Kinetics and catalysis 2014 / p. 47-55 : ill <https://doi.org/10.1134/S0023158414010030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Serum levels and removal by haemodialysis and haemodiafiltration of tryptophan-derived uremic toxins in ESKD patients

Paats, Joosep; Adoberg, Annika; Arund, Jürgen; Fridolin, Ivo; Leis, Liisi; Luman, Merike; Pilt, Kristjan; Uhlin, Nils Fredrik Arne International journal of molecular sciences 2020 / art. 1522, 19 p. : ill <https://doi.org/10.3390/ijms21041522> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts

Kazimova, Nargiz; Ping, Kefeng; Alam, Mahboob; Danilson, Mati; Merisalu, Maido; Aruväli, Jaan; Paiste, Päärn; Käärik, Maike; Mikli, Valdek; Leis, Jaan; Tammeveski, Kaido; Starkov, Pavel; Kongi, Nadežda Journal of catalysis 2021 / p. 178–187 <https://doi.org/10.1016/j.jcat.2021.01.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Kananovich, Dzmitry; Konik, Yulia A.; Zubrytski, Dzmitry M.; Järving, Ivar; Lopp, Margus Chemical communications 2015 / p. 8349-8352 : ill <https://doi.org/10.1039/c5cc02386f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Size-control by anion templating in mechanochemical synthesis of hemicucurbiturils in the solid state

Kaabel, Sandra; Stein, Robin S.; Fomitšenko, Maria; Järving, Ivar; Frišćic, Tomislav; Aav, Riina Angewandte Chemie international edition 2019 / p. 6230-6234 : ill <https://doi.org/10.1002/anie.201813431> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid-state NMR of a protein in a precipitated complex with a full-length antibody

Lamley, Jonathan M.; Iuga, Dinu; Öster, Carl; Sass, Hans-Juergen; Rogowski, Marco; Oss, Andres; Past, Jaan; Reinhold, Andres; Grzesiek, Stephan; Samoson, Ago; Lewandowski, Jozef R. Journal of the American Chemical Society 2014 / p. 16800-16806 : ill <https://doi.org/10.1021/ja5069992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass: Comparison of capillary electrophoresis and chromatographic analysis

Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel Catalysis today 2014 / p. 18-24 : ill <https://doi.org/10.1016/j.cattod.2013.08.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Supramolecular chirogenesis in a sterically hindered porphyrin: a critical theoretical analysis

Osadchuk, Irina; Luts, Hanna-Elisa; Norvaiša, Karolis; Borovkov, Victor; Senge, Mathias O. Chemistry : a European journal 2023 / art. e202302275 <https://doi.org/10.1002/chem.202302275> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Supramolecular chirogenesis in zinc porphyrins by enantiopure hemicucurbit[n]urils (n = 6, 8)

Ustrnul, Lukas; Kaabel, Sandra; Burankova, Tatsiana; Martõnova, Jevgenija; Konrad, Nele; Borovkov, Victor; Aav, Riina Chemical communications 2019 / p. 14434-14437 : ill <https://doi.org/10.1039/c9cc07150d> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 cobalt and nitrogen co-doped peat-derived carbon catalysts for oxygen reduction in acidic media

Jäger, Rutha; Teppor, Patrick; Paalo, Maarja; Härmas, Meelis; Adamson, Anu; Volobujeva, Olga; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmas, Riinu; Aruväli, Jaan; Kikas, Arvo; Lust, Enn Catalysts 2021 / art. 715 <https://doi.org/10.3390/catal11060715> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and quantitative analysis of diastereomeric linked ester conjugates with remote stereocenters using high field NMR and chiral HPLC

Doyle, Eva; Parve, Jaan; Kudrjašova, Marina; Tamp, Sven; Müürisepp, Aleksander-Mati; Villo, Ly; Vares, Lauri; Pehk, Tõnis; Parve, Omar Chirality 2013 / p. 793-798 : ill <https://doi.org/10.1002/chir.22217> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of chiral triazole-based halogen bond donors

Kaasik, Mikk; Kaabel, Sandra; Kriis, Kadri; Järving, Ivar; Kanger, Tõnis Synthesis 2019 / p. 2128-2135 : ill

Synthesis of cyclic 3-aryl-substituted 1,2-dicarbonyl compounds via Suzuki cross-coupling reactions

Lopušanskaja, Eleana; Paju, Anne; Järving, Ivar; Lopp, Margus Synthesis 2018 / p. 1883-1890 : ill <https://doi.org/10.1055/s-0036-1591543> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis, in silico and in vitro evaluation of novel oxazolopyrimidines as promising anticancer agents

Velihina, Yevheniia; Scattolin, Thomas; Bondar, Denys Helvetica chimica acta 2020 / art. e2000169, 14 p. : ill <https://doi.org/10.1002/hlca.202000169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Template synthesis of titanium dioxide coatings and determination of their photocatalytic activity by aqueous oxidation of humic acid

Budarnaja, Olga; Klauson, Deniss; Dedova, Tatjana; Kärber, Erki; Viljus, Mart; Preis, Sergei Kinetics and catalysis 2014 / p. 688-694 : ill <https://doi.org/10.1134/S0023158414050036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Template-controlled synthesis of chiral cyclohexylhemicucurbit[8]uril

Prigorchenko, Elena; Öeren, Mario; Kaabel, Sandra; Fomitšenko, Maria; Reile, Indrek; Järving, Ivar; Tamm, Toomas; Topic, Filip; Rissanen, Kari; Aav, Riina Chemical communications 2015 / p. 10921-10924 : ill <https://doi.org/10.1039/c5cc04101e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The role of initial oligomers in amyloid fibril formation by human stefin B

Taler-Verčič, Ajda; Kirsipuu, Tiina; Friedemann, Merlin; Noormägi, Andra; Smirnova, Julia; Palumaa, Peep International journal of molecular sciences 2013 / p. 18362-18384 : ill <https://doi.org/10.3390/ijms140918362> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermomyces lanuginosus lipase with closed lid catalyzes elimination of acetic acid from 11-acetyl-prostaglandin E2

Villo, Ly; Metsala, Andrus; Tamp, Sven; Parve, Jaan; Vallikivi, Imre; Järving, Ivar; Nigulas, Samel; Lille, Ülo; Pehk, Tõnis; Parve, Omar ChemCatChem 2014 / p. 1998-2010 : ill <https://doi.org/10.1002/cctc.201400019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thickness effect on photocatalytic activity of TiO₂ thin films fabricated by ultrasonic spray pyrolysis

Dundar, Ibrahim; Mere, Arvo; Mikli, Valdek; Krunk, Malle; Oja Acik, Ilona Catalysts 2020 / art. 1058 <https://doi.org/10.3390/catal10091058> [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](#)

Titanium dioxide sol-gel-coated expanded clay granules for use in photocatalytic fluidized-bed reactor

Pronina, Natalja; Klauson, Deniss; Moiseev, Anna; Deubener, Joachim; Kritševskaja, Marina Applied catalysis B : environmental 2015 / p. 117-123 : ill <https://doi.org/10.1016/j.apcatb.2014.10.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transition-metal- and nitrogen-doped carbide-derived carbon/carbon nanotube composites as cathode catalysts for anion-exchange membrane fuel cells

Lilloja, Jaana; Kibena-Pöldsepp, Elo; Sarapuu, Ave; Douglin, John C.; Käär, Maike; Kozlova, Jekaterina; Paiste, Päärn; Kikas, Arvo; Aruväli, Jaan; Leis, Jaan ACS catalysis 2021 / p. 1920-1931 <https://doi.org/10.1021/acscatal.0c03511> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Two-photon voltmeter for measuring a molecular electric field

Rebane, Aleksander; Wicks, Geoffrey; Drobizhev, Mikhail; Cooper, Thomas; Trummel, Aleksander; Uudsemaa, Merle Angewandte Chemie - International Edition 2015 / p. 7582 - 7586 <https://doi.org/10.1002/anie.201502157> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)