Acetylcholinesterase reactivators based on oxime-functionalized biodegradable ionic liquids
Karpichev, Yevgen; **Kapitanov, Illia**; **Gathergood, Nicholas** Military medical science letters 2018 / p. 87
https://www.mmsl.cz/artkey/mms-201888-0087_acetylcholinesterase-reactivators-based-on-oxime-functionalized-biodegradable-ionic-liquids.php

Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context
Usmani, Zeba; Sharma, Minaxi; **Karpichev, Yevgen** Renewable and sustainable energy reviews 2020 / art. 109965, 16 p. : ill
https://doi.org/10.1016/j.rser.2020.109965 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Aggregation properties of a series of novel L-phenylalanine derived surfactants
Naude, M.; **Kapitanov, Illia**; **Gathergood, Nicholas**; **Karpichev, Yevgen** Kyiv-Toulouse : IXth International Chemistry Conference "Kyiv-Toulouse" dedicated to the 100th anniversary of Fedir Babichev = IXth Conference Internationale de Chimie "Kyiv-Toulouse" dedie au 100eme anniversaire de Fedir Babichev : (Kyiv, 4-9 June 2017) : materials of reports and performances 2017 / p. 133 : ill

Amino acid-functionalized calix[4]resorcinarene solubilization by mono- and dicationic surfactants
Zakharova, Lucia Ya.; Serdyuk, Anna A.; Mirgorodskaya, Alla B.; **Karpichev, Yevgen** Journal of surfactants and detergents 2016 / p. 493-499 : ill https://doi.org/10.1007/s11743-016-1792-0 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Antibacterial activity of of L-Phenylalanine derived ionic liquids [Online resource]
Kusumahastuti, Dewi Kurnianingsih Arum; **Sihtmäe, Mariliis**; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Kahru, Anne 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/

Antibacterial Properties of Heteronium Lignin Containing Materials Against ESKAPE Pathogens
Mohan, Mahendra Kothottil; **Bragina, Olga**; **Mosjakina, Sofija**; **Raimundo, Jean-Manuel**; **Karpichev, Yevgen** ChemRxiv 2025
https://doi.org/10.26434/chemrxiv-2025-zmlgw-v2

Biobased natural deep eutectic system as versatile solvents : structure, interaction and advanced applications
Usmani, Zeba; Sharma, Minaxi; Tripathi, Manikant; **Lukk, Tiit**; **Karpichev, Yevgen**; Gathergood, Nicholas; Singh, Brahma N.; Thakur, Vijay Kumar; Tabatabaei, Meisam; Gupta, Vijai Kumar Science of the total environment 2023 / art. 163002
https://doi.org/10.1016/j.scitotenv.2023.163002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Biodegradability of deep eutectic solvents in treatment of pomace fruits
Usmani, Zeba; Husanu, Elena; **Gathergood, Nicholas**; Guazzelli, Lorenzo; Pomelli, Christian; **Karpichev, Yevgen** 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 156

Biodegradation studies of a series of dipeptide based ionic liquids and their transformation products [Online resource]
Raba, Grete; **Kapitanov, Illia**; **Karpichev, Yevgen**; Kümmerer, Klaus; **Vilu, Raivo**; **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/

Biodegradation studies of a series of dipeptide based ionic liquids and their transformation products
Raba, Grete; **Kapitanov, Illia**; **Karpichev, Yevgen**; Kümmerer, Klaus; Vilu, Raivo; Gathergood, Nicholas IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 25
https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf

Biofuels and Bioproducts from Lignocellulosic Materials : Biomaterials
2025 https://shop.elsevier.com/books/biofuels-and-bioproducts-from-lignocellulosic-materials/sharma/978-0-443-21606-0

Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions
Mohan, Mahendra Kothottil; **Silenko, Oleg**; **Krasnou, Illia**; **Volobujeva, Olga**; **Kulp, Maria**; **Ošeka, Maksim**; **Lukk, Tiit**; **Karpichev, Yevgen** ChemSusChem 2024 / art. e202301588 https://doi.org/10.1002/cssc.202301588 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions : preprint
Mohan, Mahendra Kothottil; **Silenko, Oleg**; **Krasnou, Illia**; **Volobujeva, Olga**; **Kulp, Maria**; **Ošeka, Maksim**; **Lukk, Tiit**; **Karpichev, Yevgen** ChemRxiv 2023 / 20 p https://doi.org/10.26434/chemrxiv-2023-w98xc

A compared study of esterified lignin for thermoplastic applications
Ho, Tran; **Mohan, Mahendra Kothottil**; **Köster, Carmen**; **Järvik, Oliver**; **Kulp, Maria**; **Karpichev, Yevgen** Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025“Baltic Polymer Symposium 2025” : Book of abstracts 2025 / p. 83 http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf

Crystal structure and magnetic properties of Peacock- Weakley type polyoxometalates Na9[Ln(W5O18)2] (Ln = Tm, Yb):

Rare example of Tm(III) SMM
Mariichak, Oleksandra; **Kaabel, Sandra**; **Karpichev, Yevgen**; Rozantsev, Georgiy M.; Radio, Serhii V.; Pichon, Celine Magnetochemistry 2020 / 14 p. : ill https://doi.org/10.3390/magnetochemistry6040053 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Degradation of organophosphate pesticides using pyridinium based functional surfactants
Sharma, Rahul; Gupta, Bhanushree; **Karpichev, Yevgen**; **Gathergood, Nicholas** ACS sustainable chemistry & engineering 2016 / p. 6962-6973 : ill https://doi.org/10.1021/acssuschemeng.6b01878 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of acetylcholinesterase reactivators and poly(ADP-ribose) polymerase inhibitors based on hydroxamic acids and oximes = Hüdroksaamhapetel ja oksiimidel põhinevate atsetüülkoliinesteraasi reaktivaatorite ja polü(ADP-riboos)polümeraasi inhibiitorite disain
Bondar, Denys 2023 https://doi.org/10.23658/taltech.73/2023 https://digikogu.taltech.ee/et/Item/633e5fb1-7de3-4b2d-92a2-119dfa70e7b6 https://www.ester.ee/record=b5645561*est

Design of AChE reactivators using versatile molecular platforms and nanodiamonds
Karpichev, Yevgen; **Kapitanov, Illia**; **Bondar, Denys**; Mochalin, Vadym 15th International Meeting on Cholinesterases, 9th International Conference on Paraoxonases : Programme and Book of Abstracts 2024 / p. 92 https://www.chepon2024.com/wp-content/uploads/2024/09/CHEPON2024_Book_of_Abstracts.pdf

Design of new phosphorylated amphiphilic calix[4]arenes
Silenko, Oleg; **Nagappa, Nandish M.**; Cherenok, Sergey; Kalchenko, Vitaly I.; **Karpichev, Yevgen** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 10 https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Design of sustainable ionic liquids based on l-phenylalanine and l-alanine dipeptides : synthesis, toxicity and biodegradation studies
Kapitanov, Illia; **Raba, Grete**; Špulak, Marcel; **Vilu, Raivo**; **Karpichev, Yevgen**; **Gathergood, Nicholas** Journal of Molecular Liquids 2023 / art. 121285 https://doi.org/10.1016/j.molliq.2023.121285 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design rules for environmental biodegradability of phenylalanine alkyl ester linked ionic liquids
Suk, Morten; Haiß, Annette; Westphal, Janin; Jordan, Andrew; Kellett, Andrew; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Kümmerer, Klaus Green chemistry 2020 / p. 4498–4508 https://doi.org/10.1039/D0GC00918K Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Designing mineralisable building blocks for greener solvents
Raba, Grete; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Vilu, Raivo**; **Gathergood, Nicholas** 8th IUPAC International Conference of Green Chemistry : Shangri-La Hotel, Bangkok, Thailand, 9-14 Sept 2018 : poster presentation abstracts 2018 / p. 87 http://www.greeniupac2018.com/download/8th%20IUPAC%20ICGC%202018_Program%20&%20Abstract%20Book_Poster%20Abstract.pdf

Designing N-substituted arylhydroxamic acids as catalytic acetylcholinesterase reactivators
Bondar, Denys; **Velihina, Yevheniia**; **Karpichev, Yevgen** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 16 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Development of Functional Composite Cu(II)-Polyoxometalate/PLA with Antimicrobial Properties
Duvanova, Ella; **Krasnou, Illia**; **Krumme, Andres**; **Mikli, Valdek**; **Rozantsev, Georgiy M.**; **Radio, Serhii V.**; **Karpichev, Yevgen** Molecules 2022 / art. 2510 https://doi.org/10.3390/molecules27082510 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Developments in enzyme and microalgae based biotechniques to remediate micropollutants from aqueous systems - a review
Usmani, Zeba; Sharma, Minaxi; **Lukk, Tiit**; **Karpichev, Yevgen** Critical reviews in environmental science and technology 2022 / p. 1684-1729 https://doi.org/10.1080/10643389.2020.1862551 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Direct conversion of lignin into antibacterial carbon nanomaterials without organofunctionalization
Mikhraliieva, Albina; **Bragina, Olga**; Zaitsev, Volodymyr; **Karpichev, Yevgen** Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025“Baltic Polymer Symposium 2025” : Book of abstracts 2025 / p. 52 http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf

(Eco)toxicological and Antibacterial Effects of 24 L-Phenylalanine Derived Ionic Liquids against Marine and Clinically Relevant Bacteria
Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; **Kapitanov, Illia**; **Karpichev, Yevgen**; Kahru, Anne; Gathergood, Nicholas IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 74 https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf

Effect of structure of polycyclic aromatic substrates on solubilization capacity and size of cationic monomeric and gemini 14-s-14 surfactant aggregates
Serdyuk, Anna A.; Mirgorodskaya, Alla B.; **Kapitanov, Illia**; **Gathergood, Nicholas**; **Karpichev, Yevgen** Colloids and surfaces A : physicochemical and engineering aspects 2016 / p. 613-622 : ill https://doi.org/10.1016/j.colsurfa.2016.09.068 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Enhanced Detection of Biological Warfare Agents Using MALDI-ToF Mass Spectrometry Integrated with Artificial Intelligence
Bentahir, Mostafa; Dolias, Georges; **Karpichev, Yevgen**; Ioannidis, Konstantinos; **Udal, Andres**; Fernandez Velasco, Leticia Medical Biodefense Conference 2025

An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes
Pandya, Subhashree Jayesh; **Kapitanov, Illia**; **Usmani, Zeba**; Sahu, Reshma; Sinha, Deepak; **Gathergood, Nicholas**; Ghosh, Kallol K.; **Karpichev, Yevgen** Journal of molecular liquids 2020 / art. 112857 https://doi.org/10.1016/j.molliq.2020.112857 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Green oxidation for valorization of biomass
Shevchenko, Nadiia; **Kananovich, Dzmitri**; **Karpichev, Yevgen** ISySyCat 2025 : International Symposium on Synthesis and Catalysis : Book of Abstracts 2025 / art. P19, p. 179 https://isysycat2025.events.chemistry.pt/book-of-abstracts

A greener approach to hydrolyse ionic liquids
Sudheer, Surya; **Raba, Grete**; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Vilu, Raivo**; **Gupta, Vijai Kumar**; **Gathergood, Nicholas** Basic & Clinical Pharmacology & Toxicology 2018 International Conference on Biotechnology and Bioengineering (ICBB2018) : 24-26 October 2018, Budapest, Hungary 2018 / p. 21 https://doi.org/10.1111/bcpt.13165

Greener protocol for chloromethylation of lignin and its diverse applications
Mohan, Mahendra Kothottil; **Karpichev, Yevgen** 2024 MRS Spring Meeting & Exhibit : abstract book 2024 / 1 p https://www.mrs.org/docs/default-source/meetings-events/spring-meetings/2024/2024-mrs-spring-meeting-abstract-program-3-28-2024.pdf?sfvrsn=d2ef1b09_10

Hydroxamic acids as PARP-1 inhibitors : molecular design and anticancer activity of novel phenanthridinones
Bondar, Denys; **Bragina, Olga**; Lee, Ji Young; Semenyuta, Ivan; **Järving, Ivan**; 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

Hydroxamic acids as potential antidotes for op poisoning
Bondar, Denys; **Karpichev, Yevgen** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 10 l Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Ionic liquid based pretreatment of lignocellulosic biomass for enhanced bioconversion
Usmani, Zeba; Sharma, Minaxi; Gupta, Pratishtha; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Bhat, Rajeev; **Gupta, Vijai Kumar** Bioresource technology 2020 / art. 123003, 13 p https://doi.org/10.1016/j.biortech.2020.123003 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ligniin – puidutööstuse prügist tulevikumaterjaliks
Vaaks, Eveliis Trialoog 2025 https://trialoog.taltech.ee/ligniin-puidutoostuse-prugist-tulevikumaterjaliks/

Lignin valorization via chloromethylation as a versatile approach towards sustainable materials
Mohan, Mahendra Kothottil; **Karpichev, Yevgen** Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025“Baltic Polymer Symposium 2025” : Book of abstracts 2025 / p. 38 http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf

Mixed oxime-functionalized IL/16-s-16 Gemini surfactants system: physicochemical study and structural transitions in the presence of promethazine as a potential chiral pollutant
Pandya, Subhashree Jayesh; **Kapitanov, Illia**; **Borovkov, Victor**; Ghosh, Kallol K.; **Karpichev, Yevgen** Chemosensors 2022 / art. 46 https://doi.org/10.3390/chemosensors10020046 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Molecular interactions between novel synthesized biodegradable ionic liquids with antidepressant drug
Banjare, Manoj Kumar; Beherac, Kamalakanta; Banjare, Ramesh Kumar; Pandey, Siddharth; Ghosh, Kallol K.; **Karpichev, Yevgen** Chemical Thermodynamics and Thermal Analysis 2021 / art. 100012, 12 p https://doi.org/10.1016/j.ctta.2021.100012

Nanodiamonds as a platform for biomedical application
Bondar, Denys; **Karpichev, Yevgen** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 23 https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

New antimicrobial CU(II)-polyotungstate/polylactic acid films

Duvanova, Ella; **Krasnou, Illia**; Knyzhnyk, Ivan; Radio, Serhii V.; **Karpichev, Yevgen** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 15 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

A new generation of N-heterocyclic carbene (NHC) gold-selenolato complexes as potent anticancer agents: distinct synthetic routes and evaluation in 2D and 3D cancer models
Arnaut, Pierre; Bracho Pozsoni, Nestor; **Bondar, Denys**; Lippmann, Petra; Boschuk, Susanne; Semenyuta, Ivan; Bhandary, Subhrajyoti; Van Hecke, Kristof; **Karpichev, Yevgen**; Cavarzerani, Enrico Chemical Science 2025 / p. 17221-17231 https://doi.org/10.1039/d5sc04490a

N-substituted arylhydroxamic acids as acetylcholinesterase reactivators
Bondar, Denys; **Kapitanov, Illia**; Pulkrabkova, Lenka; Soukup, Ondrej; Jun, Daniel; Botelho, Fernanda D.; Franca, Tanos C.C.; Kuca, Kamil; **Karpichev, Yevgen** Chemico-Biological Interactions 2022 / art. 110078, 13 p. : ill https://doi.org/10.1016/j.cbi.2022.110078 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimizing post-treatment strategies for enhanced oxygen reduction/evolution activity in Co–N–C electrocatalyst
Yusibova, Gulnara; Ping, Kefeng; Käärik, Maike; Leis, Jaan; Aruväli, Jaan; Šmits, Krišjānis; Käämbre, Tanel; Kisand, Vambola; **Karpichev, Yevgen**; Tammeveski, Kaido; Kongi, Nadezda International Journal of Hydrogen Energy 2024 / p. 398-406 https://doi.org/10.1016/j.ijhydene.2024.07.388 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Oxime functionalized surfactants in pH-responsive mixed micellar assemblies : physicochemical properties and esterolytic reactivity
Kapitanov, Illia; Mirgorodskaya, Alla B.; Zakharova, Lucia Y.; **Gathergood, Nicholas**; **Karpichev, Yevgen** Kyiv-Toulouse : IXth International Chemistry Conference "Kyiv-Toulouse" dedicated to the 100th anniversary of Fedir Babichev = IXth Conference Internationale de Chimie "Kyiv-Toulouse" dedie au 100eme anniversaire de Fedir Babichev : (Kyiv, 4-9 June 2017) : materials of reports and performances 2017 / p. 131

Oxime-functionalized nanodiamonds as a platform for treatment of organophosphate poisoning
Karpichev, Yevgen; **Bondar, Denys**; **Starkov, Pavel**; Heinmaa, Ivo Artificial Intelligence for Material Design, Processing and Characterizations November 21 - November 30, 2020 : SYMPOSIUM S.CT01 : abstract book 2020 / S.NM01.10.06, p. 658 Meeting abstracts

Physicochemical properties and esterolytic reactivity of oxime functionalized surfactants in pH-responsive mixed micellar system
Kapitanov, Illia; Mirgorodskaya, Alla B.; Valeeva, Farida G.; **Gathergood, Nicholas**; **Karpichev, Yevgen** Colloids and surfaces A : physicochemical and engineering aspects 2017 / p. 143-159 : ill https://doi.org/10.1016/j.colsurfa.2017.04.039 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Poly(ADP-Ribose) polymerase (PARP) inhibitors for cancer therapy: Advances, challenges, and future directions
Bondar, Denys; **Karpichev, Yevgen** Biomolecules 2024 / art. 1269 https://doi.org/10.3390/biom14101269 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Pretreatment of plant feedstocks and agrofood waste using ionic liquids
Usmani, Zeba; Sharma, Minaxi; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Bhat, Rajeev; Gupta, Vijai Kumar Recent developments in bioenergy research 2020 / p. 393-413 https://doi.org/10.1016/B978-0-12-819597-0.00021-0

Pyridyl-3-boronic acids as catalysts for valorization of biomass
Shevchenko, Nadiia; **Kananovich, Dzmitry**; **Karpichev, Yevgen** EcoBalt2025 : Book of abstracts 2025 / p. 127 https://ecobalt.ftmc.lt/wp-content/uploads/2025/10/EcoBalt2025_Book_of_Abstracts_V1-cor1_2025-10-24.pdf

Regioselective functionalization of the para-positions at the Calix[4]arene upper rim
Yesypenko, Oleksandr A.; **Trybrat, Oleksandr**; **Karpichev, Yevgen**; Kalchenko, Vitaly I. Current organic chemistry 2023 / p. 510-525 https://doi.org/10.2174/1385272827666230524120812 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Roheline keemia pakkus lahenduse tugevate närvimürkide tõrjumiseks = Эстонские ученые разрабатывают "зеленый" антидот против "Новичка" и VX
novaator.err.ee 2024 Roheline keemia pakkus lahenduse tugevate närvimürkide tõrjumiseks Эстонские ученые разрабатывают "зеленый" антидот против "Новичка" и VX

Structure modification and applications of sustainable ionic liquids-based molecular platforms = Jätkusuutlike ioonvedelikepõhiste molekulaarsete platvormide struktuuri muutmine ja rakendused
Kapitanov, Illia 2024 https://www.ester.ee/record=b5712448*est https://doi.org/10.23658/taltech.66/2024 https://digikogu.taltech.ee/et/Item/c58bf69b-bd9a-4dd4-83e8-c9d6a609a7df

Supramolecular systems based on novel amphiphiles and a polymer : aggregation and selective solubilization
Gabdrakhmanov, Dinar; Samarkina, Darya; Krylova, Evgeniya; **Kapitanov, Illia**; **Karpichev, Yevgen** Journal of surfactants and

detergents 2019 / p. 865-874 : ill https://doi.org/10.1002/jsde.12257 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Surface active ionic liquids (SAILs) : to squeeze between biodegradability and toxicity constrains
Karpichev, Yevgen; **Kapitanov, Illia**; **Gathergood, Nicholas** Kyiv-Toulouse : IXth International Chemistry Conference "Kyiv-Toulouse" dedicated to the 100th anniversary of Fedir Babichev = IXth Conference Internationale de Chimie "Kyiv-Toulouse" dedie au 100eme anniversaire de Fedir Babichev : (Kyiv, 4-9 June 2017) : materials of reports and performances 2017 / p. 30 : ill

Sustainable formulations from biomass : making lignin processing greener
Karpichev, Yevgen Current chemical problems (CCP-2024) : book of abstracts 2024 / p. 80

Sustainable ionic liquids-based molecular platforms for designing acetylcholinesterase reactivators
Kapitanov, Illia; **Karpichev, Yevgen**; Gathergood, Nicholas; Spulak, Marcel; Pour, Milan; Soukup, Ondrej; Marek, Jan; Jun, Daniel; Novak, Martin; Diz de Almeida, Joyce S. F.; Costa Franca, Tanos C.; Kuca, Kamil Chemico-Biological Interactions 2023 / art. 110735 https://doi.org/10.1016/j.cbi.2023.110735 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sustainable molecular platforms based on L-phenylalanine derivatives : from ionic liquids to systems for biomedical applications
Kapitanov, Illia; **Karpichev, Yevgen** Current chemical problems (CCP-2024) : book of abstracts 2024 / p. 79

Sustainable phenylalanine-derived sails for solubilization of polycyclic aromatic hydrocarbons
Kapitanov, Illia; **Sudheer, Surya**; **Yadav, Toshikee**; Ghosh, Kallol K.; Gathergood, Nicholas; **Gupta, Vijai Kumar**; **Karpichev, Yevgen** Molecules 2023 / art. 4185 : ill https://doi.org/10.3390/molecules28104185 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synergistic antibacterial effect of copper and silver nanoparticles and their mechanism of action
Vasiliev, Grigory; Kubo, Anna-Liisa; Vija, Heiki; Kahru, Anne; **Bondar, Denys**; **Karpichev, Yevgen**; Bondarenko, Olesja Scientific reports 2023 / art. 9202, 15 p. : ill https://doi.org/10.1038/s41598-023-36460-2 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis and antibacterial properties of lignin-based amino and quaternary ammonium surfactants
Kothottil Mohan, Mahendra; **Duvanova, Ella**; **Lukk, Tiit**; **Karpichev, Yevgen** 5th International Caparica Symposium on Nanoparticles, Nanomaterials and Applications 2022 : book of abstracts 2022 / p. 208

Synthesis and antibacterial properties of lignin-based quaternary ammonium and phosphonium salts
Mohan, Mahendra Kothottil; Kaur, Harleen; **Duvanova, Ella**; Rosenberg, Merilin; Dahlem, Marcos; Ivask, Angela; Raimundo, Jean-Manuel; **Lukk, Tiit**; **Karpichev, Yevgen** International Conference EcoBalt 2023 "Chemicals&Environment" 2023 / 2 p. https://doi.org/10.3390/proceedings2023092058

Synthesis and antibacterial properties of novel quaternary ammonium lignins
Mohan, Mahendra Kothottil; Kaur, Harleen; Rosenberg, Merilin; **Duvanova, Ella**; **Lukk, Tiit**; Ivask, Angela; **Karpichev, Yevgen** ACS omega 2024 / p. 39134-39145 : ill https://doi.org/10.1021/acsomega.4c06000 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis and antimicrobial activity profiling of library of L-Phenylalanine derived ionic liquids
Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Kahru, Anne Encountering global challenges through innovation on science, technology, engineering, and mathematics (STEM), and education 2017 / p. 142 http://fmipa.undiksha.ac.id/iconmns2017/files/confbookiconmns17.pdf

Synthesis and biodegradation studies of a series of novel L-phenylalanine derived ionic liquids
Kapitanov, Illia; Jordan, Andrew; Haiss, Annette; Špulak, Marcel; **Karpichev, Yevgen**; **Raba, Grete**; **Gupta, Vijai Kumar**; **Vilu, Raivo**; Kümmerer, Klaus; **Gathergood, Nicholas** 20th European Symposium on Organic Chemistry ESOC 2017 : July 2-6, 2017, Cologne, Germany : abstracts 2017 / p. OMSC009 : ill

Synthesis and in vitro anticancer evaluation of functionalized 5-(4-piperazin-1-yl)-2-aryloxazoles and 5-(4-arylsulfonyl)piperazin-1-yl)-2-phenyloxazoles
Severin, Oleksandr; Pilyo, Stepan; Moskvina, Viktoriia; Shablykina, Olga; **Karpichev, Yevgen**; Brovarets, Volodymyr Chemistry of heterocyclic compounds 2024 / p. 68-74 https://doi.org/10.1007/s10593-024-03295-2 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis of a series of amino acid derived ionic liquids and tertiary amines : green chemistry metrics including microbial toxicity and preliminary biodegradation data analysis
Jordan, Andrew; Haiss, Annette; Spulak, Marcel; **Karpichev, Yevgen**; Kümmerer, Klaus; **Gathergood, Nicholas** Green chemistry 2016 / p. 4374-4392 : ill https://doi.org/10.1039/c6gc00415f Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis of amphiphilic pentaerithritol-based chelate ligands for transition metal complexes
Mariichak, Oleksandra Y.; **Kapitanov, Illia**; Radio, Serhii V.; **Gathergood, Nicholas**; **Karpichev, Yevgen** Kyiv-Toulouse : IXth International Chemistry Conference "Kyiv-Toulouse" dedicated to the 100th anniversary of Fedir Babichev = IXth Conference Internationale de Chimie "Kyiv-Toulouse" dedie au 100eme anniversaire de Fedir Babichev : (Kyiv, 4-9 June 2017) : materials of reports and performances 2017 / p. 136 : ill

Synthesis, self-assembly, bacterial and fungal toxicity, and preliminary biodegradation studies of a series of l-phenylalanine-derived surface-active ionic liquids
Kapitanov, Illia; Jordan, Andrew; **Karpichev, Yevgen**; **Gathergood, Nicholas** Green chemistry 2019 / p. 1777–1794 : ill https://doi.org/10.1039/c9gc00030e Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

TalTech chemists find green solution to neutralize Novichok-like nerve agents
news.err.ee 2024 TalTech chemists find green solution to neutralize Novichok-like nerve agents

Thiacalix[4]arene phosphoric acids. Synthesis, structure, and inhibition of glutathione S-transferases
Silenko, Oleg; Cherenok, Serhii; **Karpichev, Yevgen** Phosphorus, sulfur, and silicon and the related elements 2022 / p. 538-541 https://doi.org/10.1080/10426507.2021.2011877 journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Toxicity profiling of 24 l-phenylalanine derived ionic liquids based on pyridinium, imidazolium and cholinium cations and varying alkyl chains using rapid screening Vibrio fischeri bioassay
Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Kahru, Anne Ecotoxicology and environmental safety 2019 / p. 556-565 : ill https://doi.org/10.1016/j.ecoenv.2018.12.076 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Toxicological effects of 24 L-Phenylalanine derived ionic liquids against marine and clinically relevant bacteria
Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; **Kapitanov, Illia**; **Karpichev, Yevgen**; **Gathergood, Nicholas**; Kahru, Anne 8th IUPAC International Conference of Green Chemistry : Shangri-La Hotel, Bangkok, Thailand, 9-14 Sept 2018 : poster presentation abstracts 2018 / p. 13
http://www.greeniupac2018.com/download/8th%20IUPAC%20ICGC%202018_Program%20&%20Abstract%20Book_Poster%20Abstract.pdf

Tuning ester derivatives of organosolv vs technical lignin for improved thermoplastic materials
Mohan, Mahendra Kothottil; **Ho, Thi Thuy Tran**; **Köster, Carmen**; **Järvik, Oliver**; **Kulp, Maria**; **Karpichev, Yevgen** Faraday Discussions 2025 https://doi.org/10.1039/d5fd00068h

25-Propyloxy-26,27-dibenzoyloxy-calix[4]arene as precursor for the synthesis of inherently chiral calixarenes
Trybrat, Oleksandr; Yesypenko, Oleksandr; Shishkina, Svitlana; Rusanov, Eduard; **Karpichev, Yevgen**; **Kalchenko, Vitali** European Journal of Organic Chemistry 2021 / p. 3912-3919 https://doi.org//10.1002/ejoc.202100624 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Noormets, Helen Trialoog 2025 https://trialoog.taltech.ee/ukraina-teadusandekus-rikastab-taltechi-laborit/

Unlocking bifunctional electrocatalytic performance of Co-MOF-Derived catalysts for ORR and OER
Yusibova, Gulnara; Kongi, Nadežda; **Karpichev, Yevgen** 244th ECS Meeting, Gothenburg, Sweden, October 8-12, 2023 2023 / p. I01E-2036 https://ecs.confex.com/ecs/244/meetingapp.cgi/Paper/180269