

### 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](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

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### 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](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>

### Crystal structure and magnetic properties of Peacock- Weakley type polyoxometalates Na<sub>9</sub>[Ln(W<sub>5</sub>O<sub>18</sub>)<sub>2</sub>] (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 = Hüdoksaamhapetel ja oksiididel 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](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](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://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdtk.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](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://fmdtk.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](#)

### (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](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](#)

### **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](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 | [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/>

### **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://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.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 I. [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; Käärrik, 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](#)

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**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>

## **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**

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## **Structure modification and applications of sustainable ionic liquids-based molecular platforms = Jätkusuutlike ioonvedelikepõhiste molekulaarsete platvormide struktuuri muutmise ja rakendused**

**Kapitanov, Illia** 2024 [https://www.ester.ee/record=b5712448\\*est](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**

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