

Acetylcholinesterase reactivators based on oxime-functionalized biodegradable ionic liquids

Karpichev, Yevgen; Kapitanov, Illia; Gathergood, Nicholas Military medical science letters 2018 / p. 87

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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

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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

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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.

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Antibacterial activity of of L-Phenylalanine derived ionic liquids [Online resource]

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Antibacterial Properties of Heteronium Lignin Containing Materials Against ESKAPE Pathogens

Mohan, Mahendra Kothottil; Bragina, Olga; Mosjakina, Sofija; Raimundo, Jean-Manuel; Karpichev, Yevgen ChemRxiv 2025

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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.;

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Biodegradability of deep eutectic solvents in treatment of pomace fruits

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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

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Biofuels and Bioproducts from Lignocellulosic Materials : Biomaterials

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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;

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Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions : preprint

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A compared study of esterified lignin for thermoplastic applications

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Rare example of Tm(III) SMM

Mariichak, Oleksandra; **Kaabel, Sandra; Karpichev, Yevgen**; Rozantsev, Georgiy M.; Radio, Serhii V.; Pichon, Celine
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Degradation of organophosphate pesticides using pyridinium based functional surfactants

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Design of acetylcholinesterase reactivators and poly(ADP-ribose) polymerase inhibitors based on hydroxamic acids and oximes = Hüdroksaamhapetel ja oksiimidel pöhinevate atsetüülkoliinesteraasi reaktivaatorite ja polü(ADP-riboos)polümeraasi inhibiitorite disain

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Design of AChE reactivators using versatile molecular platforms and nanodiamonds

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Design of sustainable ionic liquids based on L-phenylalanine and L-alanine dipeptides : synthesis, toxicity and biodegradation studies

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Design rules for environmental biodegradability of phenylalanine alkyl ester linked ionic liquids

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Designing mineralisable building blocks for greener solvents

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Designing N-substituted arylhydroxamic acids as catalytic acetylcholinesterase reactivators

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Developments in enzyme and microalgae based biotechniques to remediate micropollutants from aqueous systems - a review

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Direct conversion of lignin into antibacterial carbon nanomaterials without organofunctionalization

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(Eco)toxicological and Antibacterial Effects of 24 L-Phenylalanine Derived Ionic Liquids against Marine and Clinically Relevant Bacteria

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Effect of structure of polycyclic aromatic substrates on solubilization capacity and size of cationic monomeric and gemini 14-s-14 surfactant aggregates

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Enhanced Detection of Biological Warfare Agents Using MALDI-ToF Mass Spectrometry Integrated with Artificial Intelligence

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An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes

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Green oxidation for valorization of biomass

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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](#)

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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

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

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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

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Pretreatment of plant feedstocks and agrofood waste using ionic liquids

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Regioselective functionalization of the para-positions at the Calix[4]arene upper rim

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Surface active ionic liquids (SAILs) : to squeeze between biodegradability and toxicity constrains

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Synthesis and antibacterial properties of lignin-based amino and quaternary ammonium surfactants

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Synthesis and antibacterial properties of lignin-based quaternary ammonium and phosphonium salts

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