

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]

Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; Kapitanov, Illia; Karpichev, Yevgen; Gathergood, Nicholas;

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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

<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

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

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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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Karpichev, Yevgen ChemRxiv 2023 / 20 p <https://doi.org/10.26434/chemrxiv-2023-w98xc>

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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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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

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

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

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

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Oxime functionalized surfactants in pH-responsive mixed micellar assemblies : physicochemical properties and esterolytic reactivity

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Sustainable ionic liquids-based molecular platforms for designing acetylcholinesterase reactivators

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Sustainable molecular platforms based on L-phenylalanine derivatives : from ionic liquids to systems for biomedical applications

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Sustainable phenylalanine-derived sails for solubilization of polycyclic aromatic hydrocarbons

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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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Synthesis and antimicrobial activity profiling of library of L-Phenylalanine derived ionic liquids

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Synthesis of amphiphilic pentaerythritol-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" dédiée 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

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TalTech chemists find green solution to neutralize Novichok-like nerve agents

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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
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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](#)

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>