

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

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

Amphiphilic glycosylated block copolypeptides as macromolecular surfactants in the emulsion polymerization of styrene

Jacobs, Jaco; Gathergood, Nicholas; Heuts, Johan P. A.; Heise, Andreas Polymer chemistry 2015 / p. 4634-4640 : ill

<https://doi.org/10.1039/C5PY00548E> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Antibacterial activity of 24 L-phenylalanine derived surface-active ionic liquids (SAILs) towards two clinically relevant pathogens

Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; Gathergood, Nicholas; Kahru, Anne Journal of international scientific publications : ecology & safety 2019 / p. 16-28 : ill <https://www.scientific-publications.net/en/article/1001856/>

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://fmdtk.ut.ee/teesid-2018/>

Application of ethane-bridged bis-porphyrin structural motif for effective supramolecular chirogenesis, sensor development, and light harvesting systems

Borovkov, Victor; Gathergood, Nicholas 229th ECS Meeting : May 29 - June 2, 2016, San Diego, CA : abstract book 2016 / art. 836

Application of octaethylporphyrin structural motif for supramolecular chirogenesis

Borovkov, Victor; Gathergood, Nicholas Eighth [i.e. Ninth] International Conference on Porphyrins and Phthalocyanines (ICPP-9) : July 3-8, 2016, Nanjing, China 2016 / p. 33 <http://www.icpp-spp.org/icpp9/BOOKofABSTRACTS.pdf>

Atom economy, biodegradation, catalysis and green toxicology : tools for the delivery of green chemistry based on ionic liquids [Online resource]

Gathergood, Nicholas Abstracts : ICCE 2017 Oslo : 16th International Conference on Chemistry and the Environment : Oslo, Norway, 18-22 June 2017 2017 / art. 171, p. [155] http://icce2017.org/downloads/Abstraktsamling_16_06_17.pdf

Atom economy, catalysis and green toxicology : tools for the delivery of sustainable chemistry based on ionic liquids

Gathergood, Nicholas 2nd Green and Sustainable Chemistry Conference : 14-17 May 2017, Berlin, Germany : abstracts 2017 / p. [O4.6]

Atom economy, catalysis and green toxicology : tools for the delivery of sustainable chemistry based on ionic liquids

Gathergood, Nicholas 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 47 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Benign by design - designing chemicals and pharmaceuticals for environmental biodegradation

Kümmerer, Klaus; Gathergood, Nicholas GSC8 : 8th International Conference on Green and Sustainable Chemistry, 23-26 July 2017, Melbourne, Australia : abstract book 2017 / p. 43 <http://www.racicongress.com/downloads/abstracts/GSC8-abstract-book.pdf>

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 of ionic liquids - a critical review

Jordan, Andrew; Gathergood, Nicholas Chemical Society reviews 2015 / p. 8200-8237 : ill <https://doi.org/10.1039/c5cs00444f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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://fmdtk.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

Biorefinery : value added chemicals [Online resource]

Gathergood, Nicholas The Bioeconomy in Transition Workshop Gela : 25-27 May 2017, Gela, Sicily, Italy 2017
<http://www.bioeconomy-in-transition.eu/about-workshop/>

Biotechnological advances for restoring degraded land for sustainable development

Tripathi, Vishal; Edrisi, Sheikh Adil; Chen, Bin; **Gupta, Vijai Kumar; Vilu, Raivo; Gathergood, Nicholas;** Abhilash, P.C. Trends in biotechnology 2017 / p. 847-859 : ill <https://doi.org/10.1016/j.tibtech.2017.05.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

C3-symmetric opioid scaffolds are pH-responsive DNA condensation agents

McStay, Natasha; Molphy, Zara; Coughlan, Alan; Cafolla, Attilio; McKee, Vickie; **Gathergood, Nicholas;** Kellett, Andrew Nucleic acids research 2017 / p. 527-540 : ill <https://doi.org/10.1093/nar/gkw1097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Catalysts derived from sustainable natural and value added alkaloids from poppies

Silm, Estelle; Pata, Pille; Kruis, Jaqueline Cecilia; Sikerina, Anastassia; Pata, Illar; **Kanger, Tõnis; Gathergood, Nicholas** IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 24
https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf

Catalysts derived from sustainable natural and value added alkaloids from poppies [Online resource]

Silm, Estelle; Pata, Pille; Kruis, Jaqueline Cecilia; Sikerina, Anastassia; Pata, Illar; **Kanger, Tõnis; 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://fmdtk.ut.ee/teesid-2018/>

Catalysts derived from sustainable natural and value added alkaloids from poppies [Online resource]

Silm, Estelle; Kanger, Tõnis; Gathergood, Nicholas Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmdtk.ut.ee/teesid/>

Chiral ionic liquids : effect of symmetry and stereochemistry on toxicity and biodegradation

Gathergood, Nicholas Symmetry : culture and science 2017 / p. 179-182 : ill <http://journal-scs.symmetry.hu/content-pages/volume-28-number-2-pages-161-240-2017/>

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 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

Ecotoxicity profiling of a library of 24 l-phenylalanine derived surface-active ionic liquids (SAILs)

Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; Arooja, Villem; **Gathergood, Nicholas;** Kahru, Anne Sustainable chemistry and pharmacy 2021 / art. 100369, 10 p <https://doi.org/10.1016/j.scp.2020.100369> [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

Ecotoxicological profiling and antibacterial potency of a series of 24 L-phenylalanine based SAILs = 24 L-fenüüalaniini-põhise ioonvedeliku ökotoksikoloogiline ja antibakteriaalne iseloomustamine

Kusumahastuti, Dewi Kurnianingsih Arum 2021 <https://doi.org/10.23658/tallinn.30/2021> https://www.ester.ee/record=b5436547*est <https://digikogu.taltech.ee/et/Item/bae0391e-b57c-476d-acda-6cd147ee55d0>

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](#)

Efficient defect-driven cation exchange beyond the nanoscale semiconductors toward antibacterial functionalization

Polivtseva, Svetlana; Volobujeva, Olga; Kuznietsov, Ivan; Kaupmees, Reelika; Danilson, Mati; Krustok, Jüri; Molaiyan, Palanivel; Hu, Tao; Lassi, Ulla; **Klopov, Mihhail;** van Gog, Heleen; van Huis, Marijn A.; Kaur, Harleen; Ivask, Angela; Rosenberg, Merilin; Gathergood, Nicholas; Ni, Chaoying; **Grossberg-Kuusk, Maarja** ACS applied materials & interfaces 2024 / p. 62871-62882 <https://doi.org/10.1021/acsami.4c11425> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Efficient DNA condensation by a C3-symmetric codeine scaffold

McStay, Natasha; Reilly, Anthony M.; **Gathergood, Nicholas;** Kellett, Andrew ChemPlusChem 2019 / p. 38–42 : ill <https://doi.org/10.1002/cplu.201800480> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enantioselective Tsuji-Trost reactions in low toxicity ionic liquids

Ghavre, Mukund; Quilty, Brid; **Gathergood, Nicholas** Current green chemistry 2016 / p. 181-189 : ill <https://doi.org/10.2174/2213346103666160728115628>

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](#)

Facile synthesis of distally fluorinated ketones by copper-mediated oxidative ring cleavage of cyclopropanols

Konik, Yulia A.; Zubrytski, Dzmitry M.; **Gathergood, Nicholas; Kananovich, Dzmitry; Lopp, Margus** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 85 : ill http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf

Food waste : challenges and opportunities for enhancing the emerging bio-economy

Morone, Piergiuseppe; Koutinas, Apostolis; **Gathergood, Nicholas;** Arshadi, Mehrdad; Matharu, Avtar Journal of cleaner production 2019 / p. 10-16 <https://doi.org/10.1016/j.jclepro.2019.02.258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Green profiling of aprotic versus protic ionic liquids : synthesis and microbial toxicity of analogous structures

Reid, Joshua E.S.J.; Prydderch, Hannah; Spulak, Marcel; Shimizu, Seishi; Walker, Adam J.; **Gathergood, Nicholas** Sustainable Chemistry and Pharmacy 2018 / p. 17-26 <https://doi.org/10.1016/j.scp.2017.11.001> [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>

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](#)

Mandelic acid derived ionic liquids: synthesis, toxicity and biodegradability

Prydderch, Hannah; Haiß, Annette; Spulak, Marcel; Quilty, Brid; Kümmerer, Klaus; Heise, Andreas; **Gathergood, Nicholas** RSC advances 2017 / p. 2115-2126 : ill <https://doi.org/10.1039/c6ra25562k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new class of prophylactic metallo-antibiotic possessing potent anti-cancer and anti-microbial properties

Ude, Ziga; Kavanagh, Kevin; Twamley, Brendan; Pour, Milan; **Gathergood, Nicholas;** Kellett, Andrew; Marmion, Celine J. Dalton Transactions 2019 / p. 8578 - 8593 <https://doi.org/10.1039/c9dt00250b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Non-toxic and ultra-small biosilver nanoclusters trigger apoptotic cell death in fluconazole-resistant *Candida albicans* via Ras signaling

Prakteeksha; Singh, Braj R.; **Gupta, Vijai Kumar**; Deeba, Farah; Gathergood, Nicholas *Biomolecules* 2019 / art. 47, 23 p. : ill <https://doi.org/10.3390/biom9020047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On the way to greener ionic liquids : identification of a fully mineralizable phenylalanine-based ionic liquid

Haiss, Annette; Jordan, Andrew; Westphal, Janin; Logunova, Evgenia; **Gathergood, Nicholas**; Kümmerer, Klaus *Green chemistry* 2016 / p. 4361-4373 : ill <https://doi.org/10.1039/c6gc00417b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Opioid architectures as new DNA binding molecules

McStay, Natasha; Molphy, Zara; **Gathergood, Nicholas**; Kellett, Andrew *Symmetry : culture and science* 2017 / p. 195-198 : ill <http://journal-scs.symmetry.hu/content-pages/volume-28-number-2-pages-161-240-2017/>

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

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](#)

Porphyrinoid based supramolecular probes for chirality sensing

Borovkov, Victor; **Gathergood, Nicholas** *Symmetry : culture and science* 2017 / p. 175-178 : ill <http://journal-scs.symmetry.hu/content-pages/volume-28-number-2-pages-161-240-2017/>

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>

Production of microbial lipids from optimized waste office paper hydrolysate, lipid profiling and prediction of biodiesel properties

Nair, Anu Sadasivan; Al-Bahry, Saif; **Gathergood, Nicholas**; Tripathi, Bhumi Nath; Sivakumar, Nallusamy *Renewable Energy* 2020 / p. 124 - 134 <https://doi.org/10.1016/j.renene.2019.12.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Role of bacterial-fungal consortium for enhancement in the degradation of industrial dyes

Mawad, Asmaa M.M.; Hesham, Abd El-Latif; Yousef, Naiema M.H.; Shoreit, Ahmed Abdelfattah Mohamed; **Gathergood, Nicholas**; **Gupta, Vijai Kumar** *Current genomics* 2020 / p. 283 - 294 <https://doi.org/10.2174/1389202921999200505082901> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Safer chemicals : reducing toxicity and improving biodegradability [Online resource]

Gathergood, Nicholas 3rd EuCheMS Congress on Green and Sustainable Chemistry : 3-6 September 2017, University of York : [oral abstracts] 2017 / p. PL4 <https://www.york.ac.uk/chemistry/research/green/events/3eugsc/>

Safer chemicals: reducing toxicity and improving biodegradability

Gathergood, Nicholas Royal Society of Chemistry Molten Salts Discussion group Summer Research Meeting : 24-26th July, Downing College, University of Cambridge : Schedule and presentations 2018 / p. 12 https://cdn.website-editor.net/09bf8897834e4f9bbfbef1fe6289cd3f/files/uploaded/MSDG%2520Summer%25202018%2520programme_hDwkQAcrT1mzpiHIUaRJ.pdf

Scalable lipase-catalyzed synthesis of (R)-4-(Acyloxy)pentanoic acids from racemic γ -valerolactone

Parve, Jaan; **Kudrjašova, Marina**; **Shalima, Tatsiana**; **Villo, Ly**; Liblikas, Ilme; Reile, Indrek; Pehk, Tõnis; **Gathergood, Nicholas**; **Aav, Riina**; Vares, Lauri; **Parve, Omar** *ACS sustainable chemistry & engineering* 2021 / p. 1494-1499 <https://doi.org/10.1021/acssuschemeng.0c07918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Site-selective and stereoselective C–H functionalization of N-Cyclopropylamides via a directed remote metalation strategy

Ermolovich, Yuri; **Barysevich, Maryia V.**; Adamson, Jasper; Rogova, Oksana; **Kaabel, Sandra**; **Järving, Ivar**; **Gathergood, Nicholas**; **Kananovich, Dzmitry** *Organic letters* 2019 / p. 969-973 : ill <https://doi.org/10.1021/acs.orglett.8b03955> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stereoselective Synthesis of γ -(Acyloxy)Carboxylic Acids and γ -Lactones Features the Switch of Stereopreference of CalB Along Sodium γ -Hydroxycarboxylate Homologues

Parve, Jaan; Kudrjašova, Marina; Shalima, Tatsiana; Villo, Ly; Ferschel, Moonika; Niidu, Allan; Liblikas, Ilme; Reile, Indrek; Aav, Riina; Gathergood, Nicholas; Vares, Lauri; Pehk, Tõnis; Parve, Omar European journal of organic chemistry 2023 / art. e202201329 <https://doi.org/10.1002/ejoc.202201329> 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 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 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

Symmetry : culture and science. Vol. 28, No. 2, Symmetry and asymmetry phenomena in chemical, green, and related sciences : a thematic issue

2017 <http://journal-scs.symmetry.hu/content-pages/volume-28-number-2-pages-161-240-2017/>

Symmetry and asymmetry phenomena in chemical, green, and related sciences

Borovkov, Victor; Gathergood, Nicholas Symmetry : culture and science 2017 / p. 165-166 <http://journal-scs.symmetry.hu/content-pages/volume-28-number-2-pages-161-240-2017/>

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 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

The design of safer chemicals : Are mineralisable compounds an achievable goal?

Gathergood, Nicholas IUPAC Postgraduate Summer School on Green Chemistry : 7-13 July 2018, Venice - Italy : book of abstracts 2018 / p. 20-21 https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf

Toxicity and bio-acceptability in the context of biological processes in ionic liquid media

Prydderch, Hannah; Heise, Andreas; Gathergood, Nicholas Ionic liquids in the biorefinery concept : challenges and perspectives 2016 / p. 168-201 <https://doi.org/10.1039/9781782622598-00168> Article collection metrics at Scopus Article at Scopus 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

When can ionic liquids be considered readily biodegradable? Biodegradation pathways of pyridinium, pyrrolidinium and ammonium-based ionic liquids

Deng, Y.; Beadham, I.; Ghavre, Mukund; Costa Gomes, M. F.; **Gathergood, Nicholas** Green chemistry 2015 / p. 1479-1491 : ill
<http://dx.doi.org/10.1039/C4GC01904K>

Why wasn't my ACS Sustainable Chemistry & Engineering manuscript sent out for review?

Allen, David T.; Carrier, D. Julie; Gong, Jinlong; **Gathergood, Nicholas** ACS sustainable chemistry & engineering 2019 / p. 1-2
<https://doi.org/10.1021/acssuschemeng.8b06549>