

### **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)

### **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/>

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

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### **Application of octaethylporphyrin structural motif for supramolecular chirogenesis**

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

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### **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

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### **Biodegradation studies of a series of dipeptide based ionic liquids and their transformation products [Online resource]**

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### **Biodegradation studies of a series of dipeptide based ionic liquids and their transformation products**

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[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)

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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  
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### **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/>

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**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/>

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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](#)

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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](#)

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**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)

### **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](https://www.unive.it/pag/fileadmin/user_upload/extra/SSGC/documenti/Book_of_abstracts_per_website_23_July.pdf)

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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**

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>

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

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**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](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](#)

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**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**

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**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**

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**Opioid architectures as new DNA binding molecules**

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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*

**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**

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**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](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  $\gamma$ -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  $\gamma$ -(Acyloxy)Carboxylic Acids and  $\gamma$ -Lactones Features the Switch of Stereopreference of CalB Along Sodium  $\gamma$ -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**

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