

**Adsorption of Cd<sup>2+</sup> by an ion-imprinted thiol-functionalized polymer in competition with heavy metal ions and organic acids**

Kong, Qiaoping; Xie, Binbin; **Preis, Sergei** RSC advances 2018 / p. 8950–8960 : ill <https://doi.org/10.1039/c7ra11811b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advances in characteristics analysis, measurement methods and modelling of flow dynamics in airlift reactors**

Zhang, Tao; Wei, Chaohai; Feng, Chunhua; **Preis, Sergei** Chemical engineering and processing : process intensification 2019 / art. 107633, 19 p. : ill <https://doi.org/10.1016/j.cep.2019.107633> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advances in the one-step synthesis of 2D and 3D sulfide materials grown by pulsed laser deposition assisted by a sulfur thermal cracker**

Esterlich, Joan Ramish; Affannoukoue, Kevin; **Kaupmees, Reelika**; Miakota, Denys; Engberg, Sara; **Grossberg-Kuusk, Maarja**; Schou, Jorgen; Canulescu, Stela Applied physics. A, Materials science & processing 2023 / art. 59, 8 p. : ill <https://doi.org/10.1007/s00339-022-06319-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Aerobic oxidations in asymmetric synthesis : catalytic strategies and recent developments**

**Kananovich, Dzmitry**; **Elek, Gabor** Zoltan; **Lopp, Margus**; **Borovkov, Victor** Frontiers in chemistry 2021 / art. 614944 <https://doi.org/10.3389/fchem.2021.614944> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of optical properties and structure of GaTe - CdTe nanocomposite**

Caraman, Iuliana; Untila, Dumitru; Evtodiev, Igor; Canter, Valeriu; **Spalatu, Nicolae**; Rusu, Dragos; Luchian, Efimia; Rotaru, Irina Chalcogenide letters 2015 / p. 683-692 : ill [https://chalcogen.ro/683\\_Caraman.pdf](https://chalcogen.ro/683_Caraman.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of photocatalytic performance of nanostructured pyrogenic titanium dioxide powders in view of their polydispersity and phase transition : critical anatase particle size as a factor for suppression of charge recombination**

Moiseev, Anna; **Kritševskaja, Marina**; Qi, Fei; Weber, Alfred; Deubener, Joachim Chemical engineering journal 2013 / p. 614-621 : ill <https://doi.org/10.1016/j.cej.2013.05.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Application of ultrasonic sprayed zirconium oxide dielectric in zinc tin oxide-based thin film transistor**

**Oluwabi, Abayomi** Titilope; **Katerski, Atanas**; Carlos, Emanuel; Branquinho, Rita; **Mere, Arvo**; **Krunks, Malle**; Fortunato, Elvira; Pereira, Luis; **Oja Acik, Ilona** Journal of materials chemistry C 2020 / p. 3730-3739 : ill <https://doi.org/10.1039/C9TC05127A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Aqueous photocatalytic oxidation of prednisolone**

**Klauson, Deniss**; **Pilnik-Sudareva, Jana**; **Pronina, Natalja**; **Budarnaja, Olga**; **Kritševskaja, Marina**; **Käkinen, Aleksandr**; **Juganson, Katre**; **Preis, Sergei** Central European journal of chemistry 2013 / p. 1620-1633 : ill <https://doi.org/10.2478/s11532-013-0290-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Asymmetric chemoenzymatic one-pot synthesis of  $\alpha$ -Hydroxy half-esters**

**Murre, Aleksandra**; **Erkman, Kristin**; **Järving, Ivar**; **Kanger, Tõnis** ACS Omega 2021 / p. 20686-20698 : ill <https://doi.org/10.1021/acsomega.1c02973> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Asymmetric cyclopropanation via an electro-organocatalytic cascade**

**Krech, Anastasiya**; **Laktsevich-Iskryk, Marharyta**; **Deil, Nora**; **Fokin, Mihhail**; **Kimm, Mariliis**; **Ošeka, Maksim** Chemical communications 2024 / 14026-14029 <https://doi.org/10.1039/D4CC05092D> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Atypical phase-change alloy Ga<sub>2</sub>Te<sub>3</sub> : atomic structure, incipient nanotectonic nuclei, multilevel writing**

Tverjanovich, Andrey; Khomenko, Maksym; Benmore, Chris; **Bereznev, Sergei**; Sokolov, Anton; Fontanari, Daniele; Kiselev, Aleksei; Lotin, Andrey; Bychkov, Eugene Journal of materials chemistry C 2021 / p. 17019-17032 <https://doi.org/10.1039/d1tc03850h> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: A deep learning system accurately classifies primary and metastatic cancers using passenger mutation patterns (Nature Communications, (2020), 11, 1, (728), 10.1038/s41467-019-13825-8)**

Jiao, Wei; Atwal, Gurnit; Polak, Paz; Karlic, Rosa; Cuppen, Edwin; Al-Shahrour, Fatima; Bailey, Peter J.; Biankin, Andrew V.; Boutros, Paul C.; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. 7573 <https://doi.org/10.1038/s41467-022-32329-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Combined burden and functional impact tests for cancer driver discovery using DriverPower (Nature Communications, (2020), 11, 1, (734), 10.1038/s41467-019-13929-1)**

Shuai, Shimin; Abascal, Federico; Amin, Samirkumar B.; Bader, Gary D.; Bandopadhyay, Pratiti; Barenboim, Jonathan; Beroukhim, Rameen; Bertl, Johanna; Boroevich, Keith A.; **Uusküla-Reimand, Liis** Nature Communications 2022 / art. 7571 <https://doi.org/10.1038/s41467-022-32343-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Divergent mutational processes distinguish hypoxic and normoxic tumours (Nature Communications, (2020), 11, 1, (737), 10.1038/s41467-019-14052-x)**

Bhandari, Vinayak; Li, Constance H.; Bristow, Robert G.; Boutros, Paul C.; Aaltonen, Lauri A.; Abascal, Federico; Abeshouse, Adam; Aburatani, Hiroyuki; Adams, David J.; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. nr. 7569

<https://doi.org/10.1038/s41467-022-32339-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Genomic footprints of activated telomere maintenance mechanisms in cancer (Nature Communications, (2020), 11, 1, (733), 10.1038/s41467-019-13824-9)**

Sieverling, Lina; Hong, Chen; Koser, Sandra D.; Ginsbach, Philip; Kleinheinz, Kortine; Hutter, Barbara; Braun, Delia M.; Cortés-Ciriano, Isidro; Xi, Ruibin; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. nr. 7574 <https://doi.org/10.1038/s41467-022-32328-7>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: High-coverage whole-genome analysis of 1220 cancers reveals hundreds of genes deregulated by rearrangement-mediated cis-regulatory alterations (Nature Communications, (2020), 11, 1, (736), 10.1038/s41467-019-13885-w)**

Zhang, Yiqun; Chen, Fengju; Fonseca, Nuno A.; He, Yao; Fujita, Masashi; Nakagawa, Hidewaki; Zhang, Zemin; Brazma, Alvis; Amin, Samirkumar B.; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. nr. 7572 <https://doi.org/10.1038/s41467-022-32333-w>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Inferring structural variant cancer cell fraction (Nature Communications, (2020), 11, 1, (730), 10.1038/s41467-020-14351-8)**

Cmero, Marek; Yuan, Ke; Ong, Cheng Soon; Schröder, Jan; Adams, David J.; Anur, Pavana; Beroukhim, Rameen; Boutros, Paul C.; Bowtell, David D. L.; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. nr. 7568 <https://doi.org/10.1038/s41467-022-32338-5>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Integrative pathway enrichment analysis of multivariate omics data (Nature Communications, (2020), 11, 1, (735), 10.1038/s41467-019-13983-9)**

Paczkowska, Marta; Barenboim, Jonathan; Sintupisut, Nardnisa; Fox, Natalie S.; Zhu, Helen; Abd-Rabbo, Diala; Mee, Miles W.;

Boutros, Paul C.; Abascal, Federico; **Uusküla-Reimand, Liis** Nature Communications 2022 / art. 7570 <https://doi.org/10.1038/s41467-022-32342-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Pathway and network analysis of more than 2500 whole cancer genomes (Nature Communications, (2020), 11, 1, (729), 10.1038/s41467-020-14367-0)**

Reyna, Matthew A.; Haan, David; Paczkowska, Marta; Verbeke, Lieven P. C.; Vazquez, Miguel; Kahraman, Abdullah; Pulido-Tamayo, Sergio; Barenboim, Jonathan; Wadi, Lina; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. nr. 7566

<https://doi.org/10.1038/s41467-022-32334-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Reconstructing evolutionary trajectories of mutation signature activities in cancer using TrackSig (Nature Communications, (2020), 11, 1, (731), 10.1038/s41467-020-14352-7)**

Rubanov, Yulia; Shi, Ruian; Harrigan, Caitlin F.; Li, Roujia; Wintersinger, Jeff; Sahin, Nil; Deshwar, Amit G.; Dentre, Stefan C.;

Leshchiner, Ignaty; **Uusküla-Reimand, Liis** Nature Communications 2022 / Art. nr. 7567 <https://doi.org/10.1038/s41467-022-32336-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Author Correction: Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples (Nature Communications, (2020), 11, 1, (4748), 10.1038/s41467-020-18151-y)**

Bailey, Matthew H.; Meyerson, William U.; Dursi, Lewis Jonathan; Wang, Liang-Bo; Dong, Guanlan; Liang, Wen-Wei; Weerasinghe, Amila; Li, Shantao; Li, Yize; **Uusküla-Reimand, Liis** Nature Communications 2020 / Art. nr. 6232 <https://doi.org/10.1038/s41467-020-20128-w>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Band gap engineering by cationic substitution in Sn(Zr1-xTix)Se3 alloy for bottom sub-cell application in solar cells**

Kondrotas, Rokas; Pakstas, Vidas; Franckevicius, Marius; Suchodolskis, Arturas; Tumenas, Saulius; Jasinskas, Vidmantas;

Juskenas, Remigijus; Krotkus, Arunas; **Muska, Katri; Kauk-Kuusik, Marit** Journal of materials chemistry A 2023 / p. 26488–26498 : ill <https://doi.org/10.1039/D3TA05550G> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**β-Asarone content and essential oil composition of Acorus calamus L. rhizomes from Estonia**

Raal, Ain; **Orav, Anne; Gretšušnikova, Tatjana** Journal of Essential Oil Research 2016 / p. 299 - 304

<https://doi.org/10.1080/10412905.2016.1147391> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Beneficial effects of stoichiometry and nanostructure for a LiBH4-MgH2 hydrogen storage system**

Hu, Jianjiang; **Witter, Raiker**; Shao, Huaiyu; Felderhoff, Michael; Fichtner, Maximilian Journal of materials chemistry A 2014 / p. 66-72

: ill <https://doi.org/10.1039/C3TA13775A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Binary RuO2–CuO electrodes outperform RuO2 electrodes in measuring the pH in food samples**

**Lazouskaya, Maryna; Vetik, Iuliia**; Tamm, Martti; Uppuluri, Kiranmai; **Scheler, Ott** ACS omega 2023 / p. 13275-13284

<https://doi.org/10.1021/acsomega.3c00538> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Binding between cyclohexanohemicucurbit[n]urils and polar organic guests**

**Ustrnul, Lukas**; Burankova, Tatsiana; Ören, Mario; **Juhhimenko, Kristina**; Ilmarinen, Jenni; Siilak, Kristjan; Mishra, Kamini Atindrakumar; Aav, Riina *Frontiers in chemistry* 2021 / art. 701028 <https://doi.org/10.3389/fchem.2021.701028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](#)

### **Bioremediation of lindane contaminated soil: Exploring the potential of Actinobacterial strains**

**Usmani, Zeba**; Kulp, Maria; Lukk, Tiit *Chemosphere* 2021 / art. 130468, 12 p. : ill <https://doi.org/10.1016/j.chemosphere.2021.130468> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **BOD/COD ratio as a probing index in the O/H/O process for coking wastewater treatment**

Wei, Gengrui; Wei, Tuo; Li, Zemin; Wei, Cong; Kong, Qiaopin; Guan, Xianghong; Qiu, Guanglei; Hu, Yun; Wei, Chaohai; Zhu, Shuang; Liu, Yu; **Preis, Sergei** *Chemical Engineering Journal* 2023 / art. 143257 <https://doi.org/10.1016/j.cej.2023.143257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **13C- and 15N-labeling of amyloid- $\beta$ and inhibitory peptides to study their interaction via nanoscale infrared spectroscopy**

Paul, Suman; Jenišťová, Adéla; Vosough, Faraz; **Berntsson, Elina**; Mörmann, Cecilia; Jarvet, Jüri; Gräslund, Astrid; Wärmländer, Sebastian K.T.S.; Barth, Andreas *Communications Chemistry* 2023 / art. 163 <https://doi.org/10.1038/s42004-023-00955-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Carbonation and leaching behaviors of cement-free monoliths based on high-sulfur fly ashes with the incorporation of amorphous calcium aluminate**

**Usta, Mustafa Cem**; Yörük, Can Rüstü; Uibu, Mai; Traksmaa, Rainer; Hain, Tiina; Gregor, Andre; Trikkell, Andres *ACS omega* 2023 / p. 29543–29557 : ill <https://doi.org/10.1021/acsomega.3c03286> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterisation of TiC-NiMo reinforced Ni-based hardfacing**

**Zikin, Arkadi**; Badisch, Ewald; **Hussainova, Irina**; Tomastik, C.; Danninger, Herbert *Surface & coatings technology* 2013 / p. 36-44 : ill <https://www.sciencedirect.com/science/article/pii/S0257897213001825> <https://doi.org/10.1016/j.surfcoat.2013.02.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterising local environments in high energy density Li-ion battery cathodes: A combined NMR and first principles study of LiFe<sub>0.9</sub>Co<sub>0.1</sub>xPO<sub>4</sub>**

Strobridge, Fiona C.; Middlemiss, Derek S.; Pell, Andrew J.; Leskes, Michal; Clément, Raphaële J.; Pourpoint, Frédérique; Lu, Zhongguang; Hanna, John V.; Pintacuda, Guido; **Samoson, Ago** *Journal of materials chemistry A* 2014 / p. 11948-11957 : ill <https://doi.org/10.1039/c4ta00934g> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of ash melting of reed and wheat straw blend**

**Link, Siim**; Yrjas, Patrik; Lindberg, Daniel; **Trikkell, Andres** *ACS omega* 2022 / p. 2137-2146 : ill <https://doi.org/10.1021/acsomega.1c05087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of protein-protein interfaces in large complexes by solid-state NMR solvent paramagnetic relaxation enhancements**

Öster, Carl; Kosol, Simone; Hartmüller, Christoph; Lamley, Jonathan M.; Iuga, Dinu; **Oss, Andres**; Org, Mai-Liis; Vanatalu, Kalju; **Samoson, Ago**; Madl, Tobias; Lewandowski, Jozef R. *Journal of the American Chemical Society* 2017 / p. 12165-12174 : ill <https://doi.org/10.1021/jacs.7b03875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chemistry as a practical science : Edward Caldin revisited**

**Mürsepp, Peeter** *Foundations of chemistry* 2016 / p. 113-123 <https://doi.org/10.1007/s10698-015-9244-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chemistry as a practical science (Edward Caldin revisited)**

**Mürsepp, Peeter** *Foundations of chemistry* 2016 / p. 213-223 <https://doi.org/10.1007/s10698-016-9257-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chiral hemicucurbit[8]uril as an anion receptor : selectivity to size, shape and charge distribution**

**Kaabel, Sandra**; Adamson, Jasper; Topic, Filip; Ören, Mario; Reimund, Mart; Prigorchenko, Elena; Löökene, Aivar; Aav, Riina *Chemical science* 2017 / p. 2184-2190 : ill <https://doi.org/10.1039/C6SC05058A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chromosome 19 annotations with disease speciation : a first report from the global research consortium**

Nilsson, Carol Lynn; Berven, Frode Steingrimsen; Selheim, Frode; Liu, Huiling; Moskal, Joseph R.; Kroes, Roger A.; Sulman, Erik P.; Conrad, Charles A.; Lang, Frederick F.; Andrén, Per Erik; Nilsson, Anna; Carlsohn, Elisabet; **Fehniger, Thomas Edward**;

**Lindberg, Henrik** Journal of Proteome Research 2013 / p. 135 - 150 <https://doi.org/10.1021/pr3008607> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Circular production, designing, and mechanical testing of polypropylene-based reinforced composite materials : statistical analysis for potential automotive and nuclear applications**

**Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Sergejev, Fjodor; Krasnou, Illia** Polymers 2023 / art. 3410, 30 p. : ill <https://doi.org/10.3390/polym15163410> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Climate effects on belowground tea litter decomposition depend on ecosystem and organic matter types in global wetlands**

Trevathan-Tackett, Stacey M.; Kepfer-Rojas, Sebastian; Malerba, Martino; Macreadie, Peter I.; Djukic, Ika; Zhao, Junbin; Young, Erica B.; York, Paul H.; **Štivrínš, Normunds** Environmental Science and Technology 2024 / p. 21589 - 21603  
<https://doi.org/10.1021/acs.est.4c02116> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Combined burden and functional impact tests for cancer driver discovery using DriverPower**

Shuai, Shimin; Abascal, Federico; Amin, Samirkumar B.; Bader, Gary D.; Bandopadhyay, Pratiti; Barenboim, Jonathan; Beroukhim, Rameen; Bertl, Johanna; Boroevich, Keith A.; **Uusküla-Reimand, Liis** Nature Communications 2020 / art. 734  
<https://doi.org/10.1038/s41467-019-13929-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comment on "Solitons in the Heimburg-Jackson model of sound propagation in lipid bilayers are enabled by dispersion of a stiff membrane" by M. Drab et al.**

**Peets, Tanel; Tamm, Kert; Engelbrecht, Jüri** The European physical journal E 2023 / art. 34 <https://doi.org/10.1140/epje/s10189-023-00299-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystaldiamond and Si(100) substrates**

**Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Volobujeva, Olga; Mere, Arvo; Raadik, Taavi** Diamond and related materials 2019 / p. 159-167 : ill <https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

**A constitutive function for the heat flux in short-fiber-reinforced composites**

**Herrmann, Heiko** Journal of non-equilibrium thermodynamics 2015 / p. 257-263 <https://doi.org/10.1515/jnet-2015-0005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Copper–zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method**

Montero, Jose; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana; Oja Acik, Ilona; Österlund, Lars** RSC advances 2021 / p. 10224–10234 <https://doi.org/10.1039/d1ra00691f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Co-pyrolysis of Estonian oil shale with polymer wastes**

**Pihl, Olga; Khaskhachikh, Vladimir; Kravetskaja, Julia; Niidu, Allan; Siirde, Andres** ACS omega 2021 / p. 31658–31666 : ill <https://doi.org/10.1021/acsomega.1c04188> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Corrigendum to Improvement in iron activation ability ofalachlor Fenton-like oxidation by ascorbic acid [Chem. Eng. J. 281 (2015) 566-574] Doi: 10.1016/j.cej.2015.06.115**

**Bolobajev, Juri; Trapido, Marina; Goi, Anna** Chemical Engineering Journal 2016 / p. 19 <https://doi.org/10.1016/j.cej.2015.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Corrosive changes and chemical composition of the orthodontic archwires' surface during treatment**

Petrov, Valeri G.; Terzieva, Stanimira D.; Lazarova, Tz I.; **Mikli, Valdek**; Andreeva, Laura A.; Stoyanova-Ivanova, Angelina K. Bulgarian Chemical Communications 2013 / p. 455 - 460  
[http://www.bcc.bas.bg/BCC\\_Volumes/Volume\\_45\\_Number\\_4\\_2013/Volume\\_45\\_Number\\_4\\_2013\\_PDF/BCC-45-4-2013\\_7.pdf](http://www.bcc.bas.bg/BCC_Volumes/Volume_45_Number_4_2013/Volume_45_Number_4_2013_PDF/BCC-45-4-2013_7.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

**Cu2ZnSnS4 monograin layer solar cells for flexible photovoltaic applications**

**Kauk-Kuusik, Marit; Timmo, Kristi; Pilvet, Maris; Muska, Katri; Danilson, Mati; Krustok, Jüri; Josepson, Raavo; Mikli, Valdek; Grossberg-Kuusk, Maarja** Journal of materials chemistry A 2023 / p. 23640-23652 <https://doi.org/10.1039/D3TA04541B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**CuInS2 solar cell absorber plasmonically modified by gold nanoparticles**

Repän, Taavi; Dolgov, Leonid; **Katerski, Atanas; Oja Acik, Ilona; Kärber, Erki; Mere, Arvo; Mikli, Valdek; Krunks, Malle**; Sildos, Ilmo Applied physics. A, Materials science & processing 2014 / p. 455-458 : ill <https://doi.org/10.1007/s00339-014-8681-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **CVD nanocrystalline multilayer graphene coated 3D-printed alumina lattices**

Ramírez, Cristina; **Shamshirgar, Ali Saffar**; Perez-Coll, Domingo; Osendi, María Isabel; Miranzo, Pilar; Tewari, Girish C.; Karppinen, Maarit; **Hussainova, Irina**; Belmonte, Manuel Carbon 2023 / p. 36-46 <https://doi.org/10.1016/j.carbon.2022.10.085> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cyclohexanohemicucurbit[8]uril inclusion complexes with heterocycles and selective extraction of sulfur compounds from water**

**Shalima, Tatsiana; Mishra, Kamini Atindrakumar**; Kaabel, Sandra; **Ustrnul, Lukas; Bartkova, Simona; Tõnsuaadu, Kaia; Heinmaa, Ivo; Aav, Riina** Frontiers in chemistry 2021 / art. 786746, 8 p. : ill <https://doi.org/10.3389/fchem.2021.786746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **De novo 3D structure determination from sub-milligram protein samples by solid-state 100 kHz MAS NMR spectroscopy**

Agarwal, Vipin; Penzel, Susanne; Szekely, Kathrin; Cadalbert, Riccardo; Testori, Emilie; **Oss, Andres; Past, Jaan; Samoson, Ago**; Ernst, Matthias; Böckmann, Anja; Meier, Beat H. Angewandte Chemie international edition 2014 / p. 12253-12256 : ill <https://doi.org/10.1002/anie.201405730> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A deep learning system accurately classifies primary and metastatic cancers using passenger mutation patterns**

Jiao, Wei; Atwal, Gurnit; Polak, Paz; Karlic, Rosa; Cuppen, Edwin; Al-Shahrour, Fatima; Bailey, Peter J.; Biankin, Andrew V.; Boutros, Paul C.; **Uusküla-Reimand, Liis** Nature Communications 2020 / art. 728, 12 p. : ill <https://doi.org/10.1038/s41467-019-13825-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Deep oxidative desulfurization of planar compounds over functionalized metal-organic framework UiO-66(Zr): An optimization study**

**Barghi, Bijan; Möistlik, Tanel; Raag, Anastassia**; Volokhova, Maria; Reile, Indrek; Seinberg, Liis; **Mikli, Valdek; Niidu, Allan** ACS omega 2024 / p. 23329-23338 <https://doi.org/10.1021/acsomega.3c09971> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Degradation of levofloxacin in aqueous solutions by Fenton, ferrous ion-activated persulfate and combined Fenton/persulfate systems**

**Epold, Irina; Trapido, Marina; Dulova, Niina** Chemical engineering journal 2015 / p. 452-462 : ill <https://doi.org/10.1016/j.cej.2015.05.054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Degradation of naproxen by ferrous ion-activated hydrogen peroxide, persulfate and combined hydrogen peroxide/persulfate processes : the effect of citric acid addition**

**Dulova, Niina; Kattel, Eneliis; Trapido, Marina** Chemical engineering journal 2017 / p. 254-263 : ill <https://doi.org/10.1016/j.cej.2016.07.006> [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](#)

### **Dehydration of AlPO4-34 studied by variable-temperature NMR, XRD and first-principles calculations**

Varlec, Jure; Krajnc, Andraž; **Vanatalu, Kalju; Oss, Andres; Samoson, Ago** New journal of chemistry 2016 / p. 4178-4186 : ill <https://doi.org/10.1039/c5nj02838h> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Design and applications of miniaturized, portable LED based colorimeter**

Drevinskas, Tomas; Maruška, Audrius; Gladkauskas, Eimantas; Telksnys, Laimutis; Girdauskas, Valdas; **Gorbatšova, Jelena; Kaljurand, Mihkel**; Ragažinskienė, Ona Chemija 2018 / p. 209 - 218 <https://doi.org/10.6001/chemija.v29i4.3836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development of in situ high resolution NMR: Proof-of-principle for a new (spinning) cylindrical mini-pellet approach applied to a Lithium ion battery**

**Mohammad, Irshad**; Cambaz, Musa Ali; **Samoson, Ago**; Fichtner, Maximilian; Witter, Raiker Solid state nuclear magnetic resonance 2024 / art. 101914 <https://doi.org/10.1016/j.ssnmr.2023.101914> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development of spray pyrolysis-synthesised Bi2O3 thin films for photocatalytic applications**

**Sydorenko, Jekaterina; Krunks, Malle; Katerski, Atanas**; Grzibovskis, Raitis; Vembris, Aivars; Mere, Arvo; **Spalatu, Nicolae; Oja Acik, Ilona** RSC advances 2024 / p. 19648-19657 <https://doi.org/10.1039/D4RA02907K> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development of yttrium-doped BaTiO3 for next-generation multilayer ceramic capacitors**

Tihti, Mohammed; Ibrahim, Jamal Eldin F. M.; Basyooni, Mohamed A.; En-Nadir, Redouane; Belaid, Walid; **Hussainova, Irina**; Kocserha, István ACS omega 2023 / p. 8448-8460 : ill <https://doi.org/10.1021/acsomega.2c07497> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dielectric relaxation and conduction mechanisms in sprayed TiO<sub>2</sub> thin films as a function of the annealing temperature**  
Juma, Albert Owino; Oja Acik, Ilona; Mere, Arvo; Krunk, Malle Applied physics. A, Materials science & processing 2016 / art. 359, p. 1-6 : ill <https://doi.org/10.1007/s00339-016-9874-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Direct competition of ATCUN peptides with human serum albumin for copper(II) ions determined by LC-ICP MS**  
Noormägi, Andra; Golubeva, Tatjana; Berntsson, Elina; Wärmländer, Sebastian K.T.S.; Tõugu, Vello; Palumaa, Peep ACS omega 2023 / p. 33912-33919 <https://doi.org/10.1021/acsomega.3c04649> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Divergent mutational processes distinguish hypoxic and normoxic tumours**  
Bhandari, Vinayak; Li, Constance H.; Bristow, Robert G.; Boutros, Paul C.; Aaltonen, Lauri A.; Abascal, Federico; Abeshouse, Adam; Aburatani, Hiroyuki; Adams, David J.; Uusküla-Reimand, Liis Nature Communications 2020 / art. 737, 10 p. : ill <https://doi.org/10.1038/s41467-019-14052-x> [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dye-decolorizing peroxidase of Streptomyces coelicolor (ScDyPB) exists as a dynamic mixture of kinetically different oligomers**

Pupart, Hegne; Vastšjonok, Darja; Lukk, Tiit; Väljamäe, Priit ACS Omega 2024 / p. 3866-3876 : ill <https://doi.org/10.1021/acsomega.3c07963> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dynamic chiral cyclohexanohemicucurbit[12]uril**

Mishra, Kamini Atindrakumar; Adamson, Jasper; Öeren, Mario; Kaabel, Sandra; Fomitšenko, Maria; Aav, Riina Chemical communications 2020 / p. 14645-14648 <https://doi.org/10.1039/D0CC06817A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An economic and sustainable approach to transform aluminosilicate-rich solid waste to functionally graded composite foam for high-temperature applications**

Pandey, Vaibhav; Yadav, Mayank Kumar; Panda, Saroja Kanta; Singh, Vinay Kumar Chemosphere 2023 / art. 139588, 12 p. : ill <https://doi.org/10.1016/j.chemosphere.2023.139588> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Editorial : Stimuli-responsive emissive organic and metal-organic compounds**

Chen, Zhao; Deng, Dian-Dian; Aav, Riina; Borovkov, Victor; Sun, Yue Frontiers in chemistry 2022 / art. 946617 <https://doi.org/10.3389/fchem.2022.946617> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of a shale oil-based additive on the properties of biodiesel fuel**

Vallbaum, Erko; Muoni, Rein; Soone, Jüri Solid fuel chemistry 2018 / p. 44 - 52 <https://doi.org/10.3103/S0361521918010093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of electrolyte composition on the surface characteristics of plasma electrolytic oxidation coatings over Ti40Nb alloy**

Lokeshkumar, E.; Premchand, C.; Palanivel, Manojkumar; Shishir, R.; Krishna, L. Rama; Prashanth, Konda Gokuldoss; Rameshbabu, Nagumothu Surface and coatings technology 2023 / art. 129591 <https://doi.org/10.1016/j.surfcoat.2023.129591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of iron ion on doxycycline photocatalytic and Fenton-based autocatalytic decomposition**

Bolobajev, Juri; Trapido, Marina; Goi, Anna Chemosphere 2016 / p. 220-226 : ill <https://doi.org/10.1016/j.chemosphere.2016.03.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of laser heat treatment on AlxTi1-xN-based PVD coatings, deposited on carbon and tool steel substrates**

Surženkov, Andrei; Viljus, Mart; Antonov, Maksim; Kübarsepp, Jakob; Juhani, Kristjan; Kulu, Priit; Vagiström, Heinar; Jankauskas, Vytenis; Leišys, Rimtautas; Bendikiene, Regita; Adoberg, Eron; Peetsalu, Priidu; Mere, Arvo; Gregor, Andre Surface and coatings technology 2022 / art. 128771 <https://doi.org/10.1016/j.surfcoat.2022.128771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of protein surface hydrophobicity and surface amines on soy adhesive strength**

Kallakas, Heikko; Plaza, Nayomi; Crooks, Casey; Turner, Derek; Gargulak, Mathew; Arvanitis, Matthew A.; Frihart, Charles R.; Hunt, Christopher G. Polymers 2024 / art. 202 <https://doi.org/10.3390/polym16020202> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effective cross-sectional method for timber frame assemblies - definition of coefficients and zero strength layers**

Tiso, Mattia; Just, Alar; Schmid, Joachim; Klippel, Michael Fire and materials 2018 / p. 897-913 : ill <https://doi.org/10.1002/fam.2645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge**

Tikker, Priit; Dulova, Niina; Kornev, Iakov; Preis, Sergei Chemical engineering journal 2021 / art. 128586 <https://doi.org/10.1016/j.cej.2021.128586> [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](#)

### Efficient lignin fractionation from Scots pine (*Pinus sylvestris*) using ammonium-based protic ionic liquid : process optimization and characterization of recovered lignin

Khan, Sharib; Rauber, Daniel; Shanmugam, Sabarathinam; Kay, Christopher W. M.; **Konist, Alar**; Kikas, Timo Polymers 2022 / art. 4637, 13 p. : ill <https://doi.org/10.3390/polym14214637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Efficient photoelectrocatalytic degradation of amoxicillin using nano-TiO<sub>2</sub> photoanode thin films : a comparative study with photocatalytic and electrocatalytic methods

Alaydaroos, Alia Husain; **Sydorenko, Jekaterina**; Palanisamy, Selvakumar; Chiesa, Matteo; Al Hajri, Ebrahim Chemosphere 2023 / art. 139629 <https://doi.org/10.1016/j.chemosphere.2023.139629> [Journal metrics at Scopus](#) [Article at Scopus](#)

### Electrochemical aziridination of internal alkenes with primary amines

**Ošek, Maksim**; Laudadio, Gabriele; van Leest, Nicolaas P.; Dyga, Marco; Bartolomeu, Aloisio de A.; Gooßen, Lukas J.; de Bruin, Bas; de Oliveira, Kleber T.; Noël, Timothy Chem 2021 / p. 255 - 266 <https://doi.org/10.1016/j.chempr.2020.12.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Electrospinning polyvinyl alcohol reinforced with chitin: The effect of the degree of acetylation

**Krumme, Andres**; Mendez, James D. Polymers 2024 / art. 1955 <https://doi.org/10.3390/polym16141955> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Enantioselective construction of acyclic quaternary carbon stereocenters : palladium-catalyzed decarboxylative allylic alkylation of fully substituted amide enolates

**Starkov, Pavel**; Moore, Jared T.; Duquette, Douglas C.; Stoltz, Brian M.; Marek, Ilan Journal of the American Chemical Society 2017 / p. 9615-9620 : ill <https://doi.org/10.1021/jacs.7b04086> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Enantioselective Michael addition to vinyl phosphonates via hydrogen bond-enhanced halogen bond catalysis

**Kaasik, Mikk**; **Martõnova, Jevgenija**; **Erkman, Kristin**; **Metsala, Andrus**; **Järving, Ivar**; **Kanger, Tõnis** Chemical science 2021 / p. 7561-7568 <https://doi.org/10.1039/D1SC01029H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Enhanced efficiency of hybrid amorphous silicon solar cells based on single-walled carbon nanotubes and polymer composite thin film

Rajanna, Pramod M.; Gilshteyn, Evgenia P.; Yagafarov, Timur; Alekseeva, Alena A.; Anisimov, Anton S.; Neumüller, Alex; Sergeev, Oleg; **Bereznev, Sergei**; **Maricheva, Jelena**; Nasibulin, Albert Nanotechnology 2018 / 10 p. : ill <https://doi.org/10.1088/1361-6528/aaa647> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Enhancement of photoluminescence of GaAsBi quantum wells by parabolic design of AlGaAs barriers

Pukiene, Simona; Karaliunas, Mindaugas; Jasinskas, A.; **Udal, Andres** Nanotechnology 2019 / art. 455001, 11 p. : ill  
<https://doi.org/10.1088/1361-6528/ab36f3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Enhancing NIR emission in ZnAl<sub>2</sub>O<sub>4</sub>:Nd,Ce nanofibers by co-doping with Ce and Nd: a promising biomarker material with low cytotoxicity

**Rojas Hernandez, Rocio Estefania**; Rubio-Marcos, Fernando; Gorni, Giulio; Marini, Carlo; **Danilson, Mati**; Pascual, Laura; Ichikawa, Rodrigo Uchida; **Hussainova, Irina**; Fernandez, Jose Francisco Journal of materials chemistry C 2021 / p. 657-670 : ill  
<https://doi.org/10.1039/D0TC04752J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Enzymatic synthesis and polymerization of isosorbide-based monomethacrylates for high-T<sub>g</sub> plastics

Matt, Livia; **Parve, Jaan**; **Parve, Omar**; Pehk, Tõnis; Liblikas, Ilme; Vares, Lauri; Jannasch, Patric ACS sustainable chemistry & engineering 2018 / p. 17382-17390 <https://doi.org/10.1021/acssuschemeng.8b05074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Erratum to: Long-haul optical transmission link using low-noise phase-sensitive amplifiers (Nature Communications, (2018), 9, 1, (2513), 10.1038/s41467-018-04956-5)

Olsson, Samuel L. I.; Eliasson, Henrik; **Astra, Egon**; Karlsson, Magnus; Andrekson, Peter A. Nature Communications 2018 / Art. nr. 3064 <https://doi.org/10.1038/s41467-018-05591-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

### Erratum: A feasible pathway to stabilize monoclinic and tetragonal phase coexistence in barium titanate-based ceramics (J. Mater. Chem. C (2022) 10 (17743–17756) DOI: 10.1039/D2TC04265G)

**Necib, Jallouli**; Lopez-Sanchez, Jesus; Rubio-Marcos, Fernando; Serrano, Aida; Navarro, Elena; Pena, Alvaro; Taoufik, Mnasri; Smari, Mourad; **Rojas Hernandez, Rocio Estefania**; Carmona, Noemi; Marín, Pilar Journal of materials chemistry C 2023 / p. 2397  
<https://doi.org/10.1039/d3tc90020g> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Erratum: Copper-zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method (RSC Advances (2021) 11 (10224–10234) DOI: 10.1039/D1RA00691F)**

Montero, José; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana; Oja Acik, Ilona**; Österlund, Lars RSC Advances 2021 / p. 13635 <https://doi.org/10.1039/d1ra90096j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of carbon aerogel-based solid-phase extraction sorbent for the analysis of sulfur mustard degradation products in environmental water samples**

Jõul, Piia; **Vaher, Merike; Kuhtinskaja, Maria** Chemosphere 2018 / p. 460–468 <https://doi.org/10.1016/j.chemosphere.2018.01.157> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of Estonian phosphate rock by flotation**

Yang, Xiaosheng; **Tamm, Kadriann; Piir, Indrek; Kuusik, Rein, keemik; Triikkel, Andres; Tõnsuaadu, Kaia** Minerals engineering 2021 / art. 107127, 10 p. : ill <https://doi.org/10.1016/j.mineng.2021.107127> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of zero-strength layer depths for timber members of floor assemblies with heat resistant cavity insulations**

**Tiso, Mattia; Just, Alar**; Schmid, Joachim; **Mäger, Katrin Nele**; Klippel, Michael Fire safety journal 2019 / p. 137–148 : ill <https://doi.org/10.1016/j.firesaf.2019.01.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Excitonic emission in heavily Ga-doped zinc oxide films grown on GaN**

Shteplyuk, I.; Khranovskyy, D.; Gogova, D.; **Danilson, Mati; Krunks, Malle** Journal of luminescence 2020 / art. 117265, 10 p. : ill <https://doi.org/10.1016/j.jlumin.2020.117265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Excitons in Mg(OH)<sub>2</sub> and Ca(OH)<sub>2</sub> from ab initio calculations**

Pishtshev, Aleksandr; Karazhanov, S. Zh.; **Klopov, Mihhail** Solid state communications 2014 / p. 11–15 : ill <https://doi.org/10.1016/j.ssc.2014.05.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental models to study drug distributions in tissue using MALDI mass spectrometry imaging**

Végvári, Ákos; **Fehniger, Thomas Edward**; Rezel, Melinda; Laurell, Thomas; Döme, Balázs; Jansson, Bo; Welinder, Charlotte; Marko-Varga, György Journal of Proteome Research 2013 / p. 5626 – 5633 <https://doi.org/10.1021/pr400581b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental observation of crack formation on surface of charring timber**

Rinta-Paavola, Aleks; **Ferrantelli, Andrea**; Hostikka, Simo Fire safety journal 2024 / art. 104231 <https://doi.org/10.1016/j.firesaf.2024.104231> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Exploring the potential of microbial biomass and microbial extracted oils in tribology: a sustainable frontier for environmentally acceptable lubricants**

Bernat, Szymon; Di Bartolomeo, Francesca; Armada, Sergio; Valaker, Emil; **Bonturi, Nemailla**; Koseto, Deni; Haugen, Tone; Kvernbraten, Ann-Karin; Stavarek, Petr; Vecer, Marek; Zelenka, Ladislav Green chemistry letters and reviews 2024 / art. 2330644 <https://doi.org/10.1080/17518253.2024.2330644> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Extraction of water-soluble phenols from shale-chemical process water**

Smirnova, A. A.; **Grigorieva, Larisa**; Ostroukhov, N. N. Solid fuel chemistry 2016 / p. 371–375 : ill <https://doi.org/10.3103/S0361521916060100> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fabrication of localized diamond-filled copper structures via selective laser melting and spark plasma sintering**

**Rahmani Ahranjani, Ramin; Karimi, Javad; Kamboj, Nikhil; Kumar, Rahul, 1993-**; Brojan, Miha; Tchórz, Adam; Skrabalak, Grzegorz; Lopes, Sergio Ivan Diamond and related materials 2023 / art. 109916 <https://doi.org/10.1016/j.diamond.2023.109916> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fast atomic charge calculation for implementation into a polarizable force field and application to an ion channel protein**

**Witter, Raiker**; Möllhoff, Margit; Koch, Frank-Thomas; **Sternberg, Ulrich** Journal of chemistry 2015 / p. 1–14 : ill <https://doi.org/10.1155/2015/908204> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Faster magic angle spinning reveals cellulose conformations in woods**

Yuan, Eric Chung-Yueh; Huang, Shing-Jong; Huang, Hung-Chia; Sinkkonen, Jari; **Oss, Andres; Org, Mai-Liis; Samoson, Ago**; Tai, Hwan-Ching; Chan, Jerry Chun Chung Chemical communications 2021 / p. 4110–4113 <https://doi.org/10.1039/D1CC01149A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A feasible pathway to stabilize monoclinic and tetragonal phase coexistence in barium titanate-based ceramics**

**Necib, Jallouli**; Lopez-Sanchez, Jesus; Rubio-Marcos, Fernando; Serrano, Aida; Navarro, Elena; Pena, Alvaro; Taoufik, Mnasri; Smari, Mourad; **Rojas Hernandez, Rocio Estefania**; Carmona, Noemi; Marín, Pilar Journal of materials chemistry C 2022 / p. 17743–17756 <https://doi.org/10.1039/D2TC04265G> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **Ferrocene introduced into 5-methylresorcinol-based organic aerogels**

Erkhova, Ludmila V.; Presniakov, Igor A.; Afanasov, Michail I.; Lemenovskiy, Dmitry A.; Yu, Haojie; Wang, Li; **Danilson, Mati; Koel, Mihkel** Polymers 2020 / art. 1582 ; 12 p. : ill <https://doi.org/10.3390/polym12071582> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A few-layered graphene on alumina nanofibers for electrochemical energy conversion**

**Hussainova, Irina; Ivanov, Roman**; Stamatin, Serban; Anoshkin, Ilya; Skou, Eivind; Nasibulin, Albert Carbon 2015 / p. 157-164 : ill <https://doi.org/10.1016/j.carbon.2015.03.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A finite element method for determining the mechanical properties of electrospun nanofibrous mats**

Sanchaniya, Jaymin Vrajlal; Lasenko, Inga; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri** Polymers 2024 / art. 852 <https://doi.org/10.3390/polym16060852> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Fire tests on glued-laminated timber beams with specific local material properties**

Fahmi, Reto; Klippel, Michael; **Just, Alar**; Ollinoc, A.; Frangi, Andrea Fire safety journal 2019 / p. 161-169 : ill <https://doi.org/10.1016/j.firesaf.2017.11.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Fluorene- and fluorenone-based molecules as electron-transporting SAMs for photovoltaic devices**

Svirskaitė, Lauryna Monika; Kasparavicius, Ernestas; Steponaitis, Matas; Grzibovskis, Raitis; Franckevicius, Marius; **Katerski, Atanas**; Naujokaitis, Arnas; Karazhanov, Smagul; Gopi, Sajeesh Vadakkedath; Aizstrauts, Arturs RSC advances 2024 / p. 14973-14981 <https://doi.org/10.1039/D4RA00964A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Formation and trapping of the thermodynamically unfavoured inverted-hemicucurbit[6]uril**

**Prigorchenko, Elena; Kaabel, Sandra; Narva, Triin; Baškir, Anastassia; Fomitšenko, Maria**; Adamson, Jasper; **Järving, Ivar**; Rissanen, Kari; **Tamm, Toomas; Aav, Riina** Chemical communications 2019 / p. 9307–9310 : ill <https://doi.org/10.1039/C9CC04990H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Formation of [4Fe-4S] clusters in the mitochondrial iron–sulfur cluster assembly machinery**

Branaccio, Diego; **Zovo, Kairit; Palumaa, Peep** Journal of the American Chemical Society 2014 / p. 16240-16250 : ill <https://doi.org/10.1021/ja507822j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Frequency conversion in lanthanide-doped sol-gel derived materials for energy applications**

Almeida, Rui M.; Sousa, N.; **Rojas Hernandez, Rocio Estefania**; Santos, Luis F. Journal of Sol-Gel science and technology 2020 / p. 520-529 : ill <https://doi.org/10.1007/s10971-020-05289-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Functionality and activity of Sol–Gel-Prepared Co and Fe co-Doped Lead-Free BTO for thermo-optical applications**

Tihtih, Mohammed; Ibrahim, Jamal Eldin F. M.; Basyooni, Mohamed A.; En-nadir, Redouane; **Hussainova, Irina**; Kocserha, Istvan ACS omega 2023 / p. 5003–5016 : ill <https://doi.org/10.1021/acsomega.2c07660> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Gas-phase photocatalytic degradation of acetone and toluene, and their mixture in the presence of ozone in continuous multi-section reactor as possible air post-treatment for exhaust from pulsed corona discharge**

**Kask, Maarja; Bolobajev, Juri; Kritševskaja, Marina** Chemical engineering journal 2020 / art. 125815, 9 p. : ill <https://doi.org/10.1016/j.cej.2020.125815> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Gas-phase photocatalytic oxidation of refractory VOCs mixtures : through the net of process limitations**

**Kritševskaja, Marina**; Preis, Sergei; Moiseev, Anna; **Pronina, Natalja**; Deubener, Joachim Catalysis today 2017 / p. 93-98 : ill <https://doi.org/10.1016/j.cattod.2016.03.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Genetic associations at 53 loci highlight cell types and biological pathways relevant for kidney function**

Pattaro, Cristian; Teumer, Alexander; Gorski, Mathias; Chu, Audrey Y.; Li, Man; Mijatovic, Vladan; Garnaas, Maija; Tin, Adrienne; Sorice, Rossella; Li, Yong; **Viigimaa, Margus** Nature Communications 2016 / art. 10023 <https://doi.org/10.1038/ncomms10023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Genomic footprints of activated telomere maintenance mechanisms in cancer**

Sieverling, Lina; Hong, Chen; Koser, Sandra D.; Ginsbach, Philip; Kleinheinz, Kortine; Hutter, Barbara; Braun, Delia M.; Cortés-Ciriano, Isidro; Xi, Ruibin; **Uusküla-Reimand, Liis** Nature Communications 2020 / art. 733, 13 p. ill <https://doi.org/10.1038/s41467-019-13824-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Globally invariant metabolism but density-diversity mismatch in springtails**

Potapov, Anton M.; Guerra, Carlos A.; van den Hoogen, Johan; Babenko, Anatoly; Bellini, Bruno C.; Berg, Matty P.; Chown, Steven L.; Deharveng, Louis; **Ivask, Mari**; Kuu, Anneli Nature communications 2023 / art. 674, 13 p. : ill., map <https://doi.org/10.1038/s41467-023-36216-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Green Chemistry and reconsidering simple analytical methods**

**Jõul, Piia; Kuhtinskaja, Maria; Vaher, Merike; Koel, Mihkel** Chimica Oggi = Chemistry today 2017 / p. 32-34 : ill  
<http://www.teknoscienze.com/chemistry-today/> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Growth dynamics of nanocrystalline diamond films produced by microwave plasma enhanced chemical vapor deposition in methane/hydrogen/air mixture : scaling analysis of surface morphology**

**Podgurski, Vitali; Bogatov, Andrei;** Sedov, V.; Sildos, Ilmo; **Mere, Arvo; Viljus, Mart;** Buijnsters, J. G.; Ralchenko, V. Diamond and related materials 2015 / p. 172-179 : ill <https://doi.org/10.1016/j.diamond.2015.07.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Hardness, corrosion behavior, and microstructural characteristics of a selective laser melted 17-4 PH steel : technical note**

Chaitanya, P.; Goud, R.; Raghavan, R.; Ramakrishna, M.; **Prashanth, Konda Gokuldoss; Gollapudi, S.** CORROSION : The Journal of Science and Engineering 2022 / p. 465-472 <https://doi.org/10.5006/3962> [Journal metrics at Scopus](#) [Article at scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Heterocomponent ternary supramolecular complexes of porphyrins: a review**

**Prigorchenko, Elena; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina** Journal of porphyrins and phthalocyanines 2019 / p. 1308-1325 : ill <https://doi.org/10.1142/S108842461930026X> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High and fast : NMR protein-proton side-chain assignments at 160 kHz and 1.2 GHz**

Callon, Morgane; Luder, Dominique; Malär, Alexander A.; Wiegand, Thomas; Římal, Václav; Lecoq, Lauriane; Böckmann, Anja; **Samoson, Ago;** Meier, Beat H. Chemical Science 2023 / p. 10824 - 10834 <https://doi.org/10.1039/d3sc03539e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High precision parabolic quantum wells grown using pulsed analog alloy grading technique: Photoluminescence probing and fractional-dimensional space approach**

Karaliunas, Mindaugas; Dudutiene, Evelina; Čerškus, Aurimas; Pagalys, Justas; Pūkiene, Simona; **Udal, Andres;** Butkute, Renata; Valušis, Gintaras Journal of luminescence 2021 / art. 118321, 9 p <https://doi.org/10.1016/j.jlumin.2021.118321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High temperature corrosion and remaining lifetime assessment of ferritic steel 13CrMo4-4 tubes in a convective superheater of a CFB oil shale boiler**

**Dedov, Andrei; Klevtsov, Ivan; Lausmaa, Toomas; Bojarinova, Tatjana** Corrosion science 2020 / art. 108311 <https://doi.org/10.1016/j.corsci.2019.108311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High temperature corrosion of boiler steels in hydrochloric atmosphere under oil shale ashes**

**Priss, Jelena;** Rojacz, Harald; **Klevtsov, Ivan; Dedov, Andrei;** Winkelmann, Horst; Badisch, Ewald Corrosion science 2014 / p. 36-44 : ill <https://doi.org/10.1016/j.corsci.2013.12.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High temperature electrical conductivity in undoped ceramic ZnO**

**Lott, Kalju; Nirk, Tiit;** Gorokhova, Elena; **Türn, Leo; Viljus, Mart; Öpik, Andres;** Vishnjakov, A. Crystal research and technology 2015 / p. 10-14 : ill <https://doi.org/10.1002/crat.201400138> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

**High-coverage whole-genome analysis of 1220 cancers reveals hundreds of genes deregulated by rearrangement-mediated cis-regulatory alterations**

Zhang, Yiqun; Chen, Fengju; Fonseca, Nuno A.; He, Yao; Fujita, Masashi; Nakagawa, Hidewaki; Zhang, Zemin; Brazma, Alvis; Amin, Samirkumar B.; **Uusküla-Reimand, Liis** Nature Communications 2020 / Art. nr. 736 <https://doi.org/10.1038/s41467-019-13885-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Highly active wood-derived nitrogen-doped carbon catalyst for the oxygen reduction reaction**

**Kaare, Kätlin;** Yu, Eric; Volperts, Aleksandrs; Dobeles, Galina; Zhurinsk, Aivars; Dyck, Alexaner; Niaura, Gediminas; Tamasauskaitė-Tamasiunaite, Loreta; Norkus, Eugenijus; Andrulevičius, Mindaugas; **Danilson, Mati;** Kruusenberg, Ivar ACS omega 2020 / p. 23578-23587 : ill <https://doi.org/10.1021/acsomega.0c01974> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Hydrogen solubility of shale oil containing polar phenolic compounds**

**Baird, Zachariah Steven;** Uusi-Kyyry, Petri; **Oja, Vahur;** Alopaeus, Ville Industrial and engineering chemistry research 2017 / p. 8738-8747 : ill <https://doi.org/10.1021/acs.iecr.7b00966> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Identifying the role of co-aggregation of Alzheimer's amyloid-β with amorphous protein aggregates of non-amyloid proteins**

Wu, Jinming; Österlund, Nicklas; Wang, Hongzhi; Sternke-Hoffmann, R.; **Pupart, Hegne;** Ilag, Leopold L.; Gräslund, Astrid; Luo, Jinghui Cell Reports Physical Science 2022 / art. 101028 <https://doi.org/10.1016/j.xcrp.2022.101028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of 1-butyl-3-methylimidazolium chloride on the electrospinning of cellulose acetate nanofibers**  
**Javed, Kashif; Krumme, Andres; Krasnou, Illia; Mikli, Valdek; Viirsalu, Mihkel; Plamus, Tiia; Vassiljeva, Viktoria; Tarasova, Elvira; Savest, Natalja;** Mendez, James D. Journal of macromolecular science, part A : pure and applied chemistry 2018 / p. 142-147 : ill <https://doi.org/10.1080/10601325.2017.1387861> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of alkali and silane treatment on hemp/PLA composites' performance : from micro to macro scale**  
**Alao, Percy Festus;** Marrot, Laetitia; Burnard, Michael David; Lavrič, Gregor; **Saarna, Mart; Kers, Jaan** Polymers 2021 / art. 851, 18 p. : ill <https://doi.org/10.3390/polym13060851> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Implications of plant growth promoting Klebsiella sp. CPSB4 and Enterobacter sp. CPSB49 in luxuriant growth of tomato plants under chromium stress**  
Gupta, Pratishta; Kumar, Vipin; Usmani, Zeba; Rani, Rupa; Chandra, Avantika; **Gupta, Vijai Kumar** Chemosphere 2020 / Art. nr. 124944 <https://doi.org/10.1016/j.chemosphere.2019.124944> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Importance of molecular symmetry for enantiomeric excess recognition by NMR**  
Norvaiša, Karolis; O'Brien, John E.; **Osadchuk, Irina;** Twamley, Brendan; **Borovkov, Victor;** Senge, Mathias O. Chemical communications 2022 / p. 5423-5426 <https://doi.org/10.1039/D2CC01319C> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improvement in iron activation ability of alachlor Fenton-like oxidation by ascorbic acid**  
**Bolobajev, Juri; Trapido, Marina; Goi, Anna** Chemical engineering journal 2015 / p. 566-574 : ill <https://doi.org/10.1016/j.cej.2015.06.115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**In situ production of low-modulus Ti-Nb alloys by selective laser melting and their functional assessment toward orthopedic applications**  
Singh, Neera; Srikanth, K. P.; Gopal, Vasanth; Rajput, Monika; Manivasagam, Geetha; **Prashanth, Konda Gokuldoss** Journal of Materials Chemistry B 2024 / p. 5982-5993 : ill <https://doi.org/10.1039/D4TB00379A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**In-depth analysis of transcriptomes in ovarian cortical follicles from children and adults reveals interfollicular heterogeneity**  
**Rooda, Ilmatar;** Hassan, Jasmin; Hao, Jie; Wagner, Magdalena; Moussaud-Lamodiere, Elisabeth; Jääger, Kersti; Ojala, Marjut; Knuus, Katri; Lindskog, Cecilia; Velthut-Meikas, Agne Nature communications 2024 / art. 6989 <https://doi.org/10.1038/s41467-024-51185-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Inferring structural variant cancer cell fraction**  
Cmero, Marek; Yuan, Ke; Ong, Cheng Soon; Schröder, Jan; Adams, David J.; Anur, Pavana; Beroukhim, Rameen; Boutros, Paul C.; Bowtell, David D. L.; **Uusküla-Reimand, Liis** Nature Communications 2020 / Art. nr. 730 <https://doi.org/10.1038/s41467-020-14351-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of biosurfactant on combined chemical–biological treatment of PCB-contaminated soil**  
**Viisimaa, Marika;** Karpenko, Oleksandr; Novikov, Volodymyr; **Trapido, Marina; Goi, Anna** Chemical engineering journal 2013 / p. 352-359 : ill <https://doi.org/10.1016/j.cej.2013.01.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of protic ionic liquid-based flame retardant on the flammability and water sorption of alkalized hemp fiber-reinforced PLA composites**  
**Alao, Percy Festus; Press, Raimond;** Ruponen, Jussi; **Mikli, Valdek; Kers, Jaan** Polymers 2023 / art. 3661 <https://doi.org/10.3390/polym15183661> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Integrative pathway enrichment analysis of multivariate omics data**  
Paczowska, Marta; Barenboim, Jonathan; Sintupisut, Nardnisa; Fox, Natalie S.; Zhu, Helen; Abd-Rabbo, Diala; Mee, Miles W.; Boutros, Paul C.; Abascal, Federico; **Uusküla-Reimand, Liis** Nature Communications 2020 / Art. nr. 735 <https://doi.org/10.1038/s41467-019-13983-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Interaction between the cesium cation and cesium carboxylates : an extended Cs<sup>+</sup> basicity scale**  
Mayeux, Charly; **Tammiku-Taul, Jaana;** Massi, Lionel; Gal, Jean-François; Burk, Peeter ChemPlusChem 2013 / p. 1195 - 1204 <https://doi.org/10.1002/cplu.201300181> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity**  
**Käkinen, Aleksandr;** Ding, Feng; Chen, Pengyu; Mortimer, Monika; Kahru, Anne; Ke, Pu Chun Nanotechnology 2013 / art. 345101 <https://doi.org/10.1088/0957-4484/24/34/345101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Intermolecular interaction of thermoresponsive poly(2-isopropyl-2-oxazoline) in solutions and interpolymer complex with fiber-forming polyethylene oxide**

Amirova, Alina; Rodchenko, Serafim; Kurlykin, Mikhail; Tenkovtsev, Andrey; **Krasnou, Illia**; **Krumme, Andres**; Filippov, Alexander  
Journal of applied polymer science 2020 / art. 49708, 8 p <https://doi.org/10.1002/app.49708> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

### **Internal variables as a tool for extending Navier-Stokes equations**

**Berezovski, Arkadi** Journal of non-equilibrium thermodynamics 2022 / p. 1-14 <https://doi.org/10.1515/jnet-2021-0089> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of different free image analysis software for high-throughput droplet detection**

**Sanka, Immanuel**; **Bartkova, Simona**; **Pata, Pille**; **Smolander, Olli-Pekka**; **Scheler, Ott** ACS omega 2021 / p. 22625-22634 : ill <https://doi.org/10.1021/acsomega.1c02664> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of efficient alkali treatment and the effect of flame retardant on the mechanical and fire performance of frost-retted hemp fiber reinforced PLA**

**Alao, Percy Festus**; **Press, Raimond**; **Kallakas, Heikko**; **Ruonen, Jussi**; **Poltimäe, Triinu**; **Kers, Jaan** Polymers 2022 / art. 2280 <https://doi.org/10.3390/polym14112280> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **K<sub>2</sub>CO<sub>3</sub>-containing composite sorbents based on a ZrO<sub>2</sub> aerogel for reversible CO<sub>2</sub> capture from ambient air**

Veselovskaya, Janna; **Derevshchikov, Vladimir**; Shalygin, Anton S.; Yatsenko, Dmitry Microporous and Mesoporous Materials 2021 / art. 110624 <https://doi.org/10.1016/j.micromeso.2020.110624> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Kinking in semiconductor nanowires : a review**

Vlassov, Sergei; **Oras, Sven**; Polyakov, Boris; Butanovs, Edgars; Kyritsakis, Andreas; Zadin, Veronika Crystal growth & design 2022 / p. 871-892 <https://doi.org/10.1021/acs.cgd.1c00802> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Large azobenzene acrocycles : formation and detection by NMR and MS methods**

Roithmeyer, Helena; **Uudsemaa, Merle**; Trummal, Aleksander; **Brük, Mari-Liis**; Krämer, Sebastian; **Reile, Indrek**; Rjabovs, Vitalijs; Palmi, Kirsti; **Rammo, Matt**; **Aav, Riina**; Kalenius, Elina; Adamson, Jasper Supramolecular Chemistry 2022 / p. 77-86 <https://doi.org/10.1080/10610278.2023.2230334> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity**

**Saffarshamshirgar, Ali**; **Rojas Hernandez, Rocio Estefania**; **Mikli, Valdek**; **Karppinen, Maarit**; **Hussainova, Irina** Carbon 2020 / p. 634-645 <https://doi.org/10.1016/j.carbon.2020.06.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Li@C<sub>60</sub> thin films : characterization and nonlinear optical properties**

Wolf, Mathias; Toyouchi, Shuichi; **Walke, Peter R.**; Umemoto, Kazuki; Masuhara, Akito; Fukumura, Hiroshi; Takano, Yuta; Yamada, Michio; Hirai, Kenji; Fron, Eduard; Uji-I, Hiroshi RSC Advances 2021 / p. 389 - 394 <https://doi.org/10.1039/d1ra08051b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Lithiation-driven structural transition of VO<sub>2</sub>F into disordered rock-salt Li<sub>x</sub>VO<sub>2</sub>F**

Chen, Ruiyong; Maawad, Emad; Knapp, Michael; Ren, Shuhua; Beran, Premysl; **Witter, Raiker**; Hempelmann, Rolf RSC advances 2016 / p. 65112-65118 : ill <https://doi.org/10.1039/c6ra14276a> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Long-haul optical transmission link using low-noise phase-sensitive amplifiers**

Olsson, Samuel L. I.; Eliasson, Henrik; **Astra, Egon**; Karlsson, Magnus; Andrekson, Peter Avo Nature communications 2018 / art. 2513, 7 p. : ill <https://doi.org/10.1038/s41467-018-04956-5> [Eesti 27 aastat internetis välismaailmaga: teadlaste uus andmeedastustehnoloogia](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Main physicochemical factors affecting the aqueous carbonation of oil shale ash**

**Uibu, Mai**; **Kuusik, Rein**, **keemik** Minerals engineering 2014 / p. 64-70 : ill <https://doi.org/10.1016/j.mineng.2013.10.013> [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](#)

### **Material properties of clay and lime plaster for structural fire design**

**Liblik, Johanna**; Küppers, Judith; **Just, Alar**; **Maaten, Birgit**; **Pajusaar, Siim** Fire and materials 2021 / p. 355-365 : ill <https://doi.org/10.1002/fam.2798> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **Materials properties of magnesium and calcium hydroxides from first-principles calculations**

Pishtshev, Aleksandr; Karazhanov, S. Zh.; **Klopov, Mihail** Computational materials science 2014 / p. 693-705 : ill

<https://doi.org/10.1016/j.commat.2014.07.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanical activation of magnesium silicates for mineral carbonation, a review**

Li, Jiajie; **Hitch, Michael William** Minerals engineering 2018 / p. 69-83 : ill <https://doi.org/10.1016/j.mineng.2018.08.034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanical properties of aluminum, zirconium, hafnium and tantalum oxides and their nanolaminates grown by atomic layer deposition**

Jõgiaas, Taivo; Zabels, Roberts; Tamm, Aile; Merisalu, Maido; **Hussainova, Irina** Surface and coatings technology 2015 / p. 36-42 :

ill <https://doi.org/10.1016/j.surfcoat.2015.10.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanism of a microwave-assisted polyol synthesis of nanosize CuInSe<sub>2</sub> particles and their optical and photoelectric properties**

Grevtsev, A. S.; Goncharenko, I. Yu.; **Bereznev, Sergei** Russian journal of applied chemistry 2014 / p. 671-675 : ill

<https://doi.org/10.1134/S1070427214060019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanochemical birch reduction with low reactive alkaline earth metals**

**Nallaparaju, Jagadeesh Varma; Satsi, Riin; Merzhyievskiy, Danylo; Jarg, Tatsiana; Aav, Riina; Kananovich, Dzmitry**

Angewandte Chemie international edition 2024 / art. e202319449 <https://doi.org/10.1002/anie.202319449> [Journal metrics at Scopus](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanochemical synthesis of amides with uronium-based coupling reagents : a method for hexa-amidation of biotin[6]uril**

**Dalidovich, Tatsiana; Mishra, Kamini Atindrakumar; Shalima, Tatsiana; Kudrjašova, Marina; Kananovich, Dzmitry; Aav, Riina** ACS sustainable chemistry & engineering 2020 / p. 15703-15715 : ill <https://doi.org/10.1021/acssuschemeng.0c05558> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanochemically driven covalent self-assembly of a chiral mono-biotinylated hemicucurbit[8]uril**

**Suut-Tuule, Elina; Jarg, Tatsiana; Tikker, Priit; Lootus, Ketren-Marlein; Martõnova, Jevgenija; Reitalu, Rauno; Ustrnül, Lukas; Ward, Jas S.; Rjabovs, Vitalijs; Shubin, Kirill; Nallaparaju, Jagadeesh Varma; Vendelin, Marko; Preis, Sergei; Öeren, Mario; Rissanen, Kari; Kananovich, Dzmitry; Aav, Riina** Cell reports physical science 2024 / art. 102161

<https://doi.org/10.1016/j.xcrp.2024.102161> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanochemistry-amended Barbier reaction as an expedient alternative to Grignard synthesis**

**Varma Nallaparaju, Jagadeesh; Nikonovich, Tatsiana; Jarg, Tatsiana; Merzhyievskiy, Danylo; Aav, Riina; Kananovich, Dzmitry** Angewandte Chemie international edition 2023 / art. e202305775 <https://doi.org/10.1002/anie.202305775> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanosynthesis of a bifunctional FeNi-N-C oxygen electrocatalyst via facile mixed-phase templating and preheating-pyrolysis**

Kosimov, Akmal; Yusibova, Gulnara; Wojsiat, Ivan Tito; Aruväli, Jaan; Käärik, Maike; Leis, Jaan; Paaver, Peeter; Vlassov, Sergei; Kikas, Arvo; Kisand, Vambola; Piirsoo, Helle-Mai; Kukli, Kaupo; Heinmaa, Ivo; **Kaljuvee, Tiit**; Kongi, Nadezda Journal of Materials Chemistry A 2023 / p. 335 - 342 <https://doi.org/10.1039/d3ta04580c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mercury ion binding to apolipoprotein E variants ApoE2, ApoE3, and ApoE4 : similar binding affinities but different structure induction effects**

**Berntsson, Elina; Sardis, Merlin; Noormägi, Andra; Jarvet, Jüri; Roos, Per M.; Tõugu, Vello**; Gräslund, Astrid; Wärmländer, Sebastian K.T.S. ACS omega 2022 / p. 28924-28931 <https://doi.org/10.1021/acsomega.2c02254> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Metabolism control in 3D-printed living materials improves fermentation**

Butelmann, Tobias; Priks, Hans; Parent, Zoel; Johnston, Trevor G.; Tamm, Tarmo; Nelson, Alshakim; **Lahtvee, Petri-Jaan; Kumar, Rahul, 1978-** ACS Applied Bio Materials 2021 / p. 7195-7203 <https://doi.org/10.1021/acsabm.1c00754> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Metal-doped organic aerogels for photocatalytic degradation of trimethoprim**

**Bolobajev, Juri; Kask, Maarja; Kreek, Kristiina; Kulp, Maria; Koel, Mihkel; Goi, Anna** Chemical engineering journal 2019 / p. 120-128 : ill <https://doi.org/10.1016/j.cej.2018.09.127> [Tehnikaülikooli teadlaste meetod aitab puhastada reovett antibiootikumijääkidest](#) <https://keskkonnatehnika.ee/reovee-puhastamine-kasutades-aerogeele/> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A method for producing conductive graphene biopolymer nanofibrous fabrics by exploitation of an ionic liquid dispersant in electrospinning**

**Javed, Kashif; Krumme, Andres; Viirsalu, Mihkel; Krasnou, Illia; Plamus, Tiia; Vassiljeva, Viktoria; Tarasova, Elvira; Savest, Natalja; Mere, Arvo; Mikli, Valdek; Danilson, Mati; Kaljuvee, Tiit; Lange, Sven** Carbon 2018 / p. 148-156 : ill

<https://doi.org/10.1016/j.carbon.2018.08.034> <https://novaator.err.ee/873101/ttu-teadlaste-arendatud-tselluloosikangaga-saab-vajadusel-laadida-telefoni> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Microfluidic screening of antibiotic susceptibility at a single-cell level shows the inoculum effect of cefotaxime on: E. coli**

Postek, Witold; Gargulinski, Pawel; **Scheler, Ott**; Kaminski, Tomasz S.; Garstecki, Piotr Lab on a Chip 2018 / p. 3668 - 3677

<https://doi.org/10.1039/c8lc00916c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Microstructure and high temperature tribological behaviour of self-lubricating Ti-TiBx composite doped with Ni-Bi**

**Kumar, Rahul, 1993-; Torres, Hector; Aydinyan, Sofiya; Antonov, Maksim; Varga, Markus; Rodríguez Ripoll, Manel;**

**Hussainova, Irina** Surface and coatings technology 2022 / art. 128827 <https://doi.org/10.1016/j.surfcoat.2022.128827> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Microstructured continua and scaling for wave motion**

**Engelbrecht, Jüri** Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali 2013 / art. A8

<https://doi.org/10.1478/AAPP.91S1A8> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Mineral and heavy metal composition of oil shale ash from oxyfuel combustion**

**Konist, Alar; Nešumajev, Dmitri; Baird, Zachariah Steven; Anthony, Edward J.; Maasikmets, Marek; Järvik, Oliver** ACS Omega

2020 / p. 32498–32506 : ill <https://doi.org/10.1021/acsomega.0c04466> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**M–N–C materials as heterogeneous catalysts for organic transformations**

**Ping, Kefeng; Bhadoria, Rohit; Starkov, Pavel; Kongi, Nadezda** Coordination Chemistry Reviews 2023 / art. 215412

<https://doi.org/10.1016/j.ccr.2023.215412> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Modelling the fire resistance of cross-laminated timber rib panels**

Kleinhenz, Miriam; Palma, Pedro; **Just, Alar; Frangi, Andrea** Fire and Materials 2024 / P. 725 - 736 <https://doi.org/10.1002/fam.3226>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Molecularly imprinted polymer-based electrochemical sensor for the detection of azoxystrobin in aqueous media**

**Nguyen, Vu Bao Chau; Reut, Jekaterina; Rappich, Jörg; Hinrichs, Karsten; Söritski, Vitali** Polymers 2024 / art. 1394

<https://doi.org/10.3390/polym16101394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multiscale study of carbon dioxide chemisorption in the plug flow adsorber of the anesthesia machine**

**Derevshchikov, Vladimir; Kazakova, Evgenia; Yatsenko, Dmitry; Veselovskaya, Janna** Separation science and technology 2021 /

p. 485-497 <https://doi.org/10.1080/01496395.2020.1723029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Nano-scale sulfurization of the Cu<sub>2</sub>ZnSnSe<sub>4</sub> crystal surface for photovoltaic applications**

**Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Mikli, Valdek; Kaupmees, Reelika; Danilson, Mati; Grossberg,**

**Maarja** Journal of materials chemistry A 2019 / p. 24884-24890 : ill <https://doi.org/10.1039/C9TA08020A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**New homologues of chiral cyclohexylhemicucurbit[n]urils**

**Fomitšenko, Maria; Shmatova, Elena; Öeren, Mario; Järving, Ivar; Aav, Riina** Supramolecular chemistry 2014 / p. 698-703 : ill

<https://doi.org/10.1080/10610278.2014.926362> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**New oxacalix[4]arene carboxylate detects viologen in protic media**

**Peterson, Anna; Ludvig, Mari-Liis; Martõnova, Jevgenija; Kaabel, Sandra; Fomitšenko, Maria; Aav, Riina** Supramolecular

chemistry 2020 / p. 313–319 : ill <https://doi.org/10.1080/10610278.2019.1659269> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Nickel and nitrogen-doped bifunctional ORR and HER electrocatalysts derived from CO<sub>2</sub>**

**Rommel, Anna-Liis; Ratso, Sander; Divitini, Giorgio; Danilson, Mati; Mikli, Valdek; Uibu, Mai; Aruväli, Jaan; Kruusenberg, Ivar** ACS

Sustainable Chemistry and Engineering 2022 / p. 134-145 <https://doi.org/10.1021/acssuschemeng.1c05250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The non-catalytic role of DNA polymerase epsilon in replication initiation in human cells**

**Vipat, Sameera Anant; Gupta, Dipika; Jonchhe, Sagun; Anderspuk, Hele; Rothenberg, Eli; Moiseeva, Tatiana** Nature

communications 2022 / art. 7099 <https://doi.org/10.1038/s41467-022-34911-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Non-equilibrium grain boundaries with excess energy in graphene**

**Romanov, A. E.; Kolesnikova, A. L.; Orlova, T. S.; Hussainova, Irina; Bougrov, V. E.; Valiev, R. Z.** Carbon 2015 / p. 223-231 : ill

**Nonlinear machine learning pattern recognition and bacteria-metabolite multilayer network analysis of perturbed gastric microbiome**

Duran, Claudio; Ciucci, Sara; Palladini, Alessandra; Ijaz, Umer Z.; Zippo, Antonio G.; Sterbini, Francesco Paroni; Masucci, Luca; Cammarota, Giovanni; Ianiro, Gianluca; **Spuul, Pirjo**; Schroeder, Michael Nature communications 2021 / art. 1926, 22 p  
<https://doi.org/10.1038/s41467-021-22135-x> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Novel analogues of the Chikungunya virus protease inhibitor: molecular design, synthesis, and biological evaluation**

Ivanova, Larisa; Rausalu, Kai; **Ošek, Maksim**; **Kananovich, Dzmitry**; Žusinaite, Eva; Tammiku-Taul, Jaana; **Lopp, Margus**; Merits, Andres; Karelson, Mati ACS omega 2021 / p. 10884–10896 <https://doi.org/10.1021/acsomega.1c00625> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A novel bisphosphonate-based solid phase method for effective removal of chromium(III) from aqueous solutions and tannery effluents**

Alanne, Aino-Liisa; Tuikka, Matti; **Tönsuaadu, Kaia** RSC advances 2013 / p. 14132-14138 : ill <https://doi.org/10.1039/C3RA41501E> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A novel method to enhance the mechanical properties of polyacrylonitrile nanofiber mats: an experimental and numerical investigation**

Sanchaniya, Jaymin Vrajla; Lasenko, Inga; Vijayan, Vishnu; Smogor, Hilary; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri** Polymers 2024 / art. 992 <https://doi.org/10.3390/polym16070992> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Novel softwood lignin esters as advanced filler to PLA for 3D printing**

ACS omega 2024 / p. 44559-44567 <https://doi.org/10.1021/acsomega.4c06680> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**On the pH Dependency of the Catalysis by a Lytic Polysaccharide Monooxygenase from the Fungus Trichoderma reesei**

Kuusk, Silja; **Lipp, Maarja**; Mahajan, Surabhi; Väljamäe, Priit ACS Catalysis 2024 / p. 13408-13419 : ill  
<https://doi.org/10.1021/acscatal.4c03041> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**On the physical background of nerve pulse propagation : heat and energy**

Engelbrecht, Jüri; Tamm, Kert; **Peets, Tanel** Journal of non-equilibrium thermodynamics 2021 / p. 343-353 : ill  
<https://doi.org/10.1515/jnet-2021-0007> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Optical spectroscopy methods for the characterization of sol-gel materials**

Marques, Ana C.; **Rojas Hernandez, Rocio Estefania**; Almeida, Rui M. Journal of Sol-Gel science and technology 2021 / 43 p. : ill  
<https://doi.org/10.1007/s10971-021-05592-0> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Optimization of mechanical strength of titania fibers fabricated by direct drawing**

Hanschmid, Kelli; Tätte, Tanel; **Hussainova, Irina** Applied physics. A, Materials science & processing 2013 / p. 663-671 : ill  
<https://doi.org/10.1007/s00339-013-7601-y> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Ozone-assisted degradation of 2-methoxyethanol in a prototype plug flow photocatalytic reactor**

**Altof, Kristen**; **Krichevskaya, Marina**; **Preis, Sergei**; **Tähemaa, Toivo**; **Bolobajev, Juri** Chemical engineering journal 2024 / art. 148488 <https://doi.org/10.1016/j.cej.2023.148488> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Oxidation of aqueous bisphenols A and S by pulsed corona discharge : impacts of process control parameters and oxidation products identification**

**Tikker, Priit**; **Nikitin, Dmitri**; **Preis, Sergei** The chemical engineering journal 2022 / art. 135602  
<https://doi.org/10.1016/j.cej.2022.135602> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Oxidative degradation of emerging micropollutant acesulfame in aqueous matrices by UVA-induced H<sub>2</sub>O<sub>2</sub>/Fe<sup>2+</sup> and S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/Fe<sup>2+</sup> processes**

**Kattel, Eneliis**; **Trapido, Marina**; **Dulova, Niina** Chemosphere 2017 / p. 528-536 : ill  
<https://doi.org/10.1016/j.chemosphere.2016.12.104> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Oxygen reduction on catalysts prepared by pyrolysis of electrospun styrene- acrylonitrile copolymer and multi-walled carbon nanotube composite fibres**

Mooste, Marek; KibenaIPöldsepp, Elo; Matisen, Leonard; **Vassiljeva, Viktoria**; **Krumme, Andres** Catalysis letters 2018 / p. 1815–1826 : ill <https://doi.org/10.1007/s10562-018-2392-6> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Pathway and network analysis of more than 2500 whole cancer genomes**

Reyna, Matthew A.; Haan, David; Paczkowska, Marta; Verbeke, Lieven P. C.; Vazquez, Miguel; Kahraman, Abdullah; Pulido-Tamayo, Sergio; Barenboim, Jonathan; Wadi, Lina; Dhingra, Priyanka; **Uusküla-Reimand, Liis** Nature Communications 2020 / art. 729

**Pentakis(trifluoromethyl)benzenediazonium cation : a useful building block for the synthesis of trifluoromethyl-substituted derivatives**

Kütt, Agnes; **Werner, Franz**; Kaljurand, Ivari; Leito, Ivo; Koppel, Ilmar A. ChemPlusChem 2013 / p. 932 - 936

<https://doi.org/10.1002/cplu.201300160/> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Perovskite QDs embedded in polymer as a wavelength-shifting layer for UV-sensitized silicon sensors**

Sosna-Glebska, Aleksandra; Rezek, Bohuslav; Ukraintsev, Egor; **Sibinski, Maciej** Journal of luminescence 2024 / art. 120618

<https://doi.org/10.1016/j.jlumin.2024.120618> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A phenotypic approach to probing cellular outcomes using heterobivalent constructs**

**Bhadoria, Rohit**; Ping, Kefeng; Lohk, Christer; Järving, Ivar; Starkov, Pavel Chemical Communications 2020 / p. 4216 - 4219

<https://doi.org/10.1039/c9cc09595k> <https://pubs.rsc.org/en/content/articlelanding/2020/cc/c9cc09595k> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A photochemical organocatalytic strategy for the  $\alpha$ -alkylation of ketones by using radicals**

Spinnato, Davide; Schweitzer-Chaput, Bertrand; Goti, Giulio; **Ošek, Maksim**; Melchiorre, Paolo Angewandte Chemie international

Edition 2020 / p. 9485 - 9490 <https://doi.org/10.1002/anie.201915814> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Photoredox-catalyzed direct C–H monofluoromethylation of heteroarenes**

Ramkumar, Nagarajan; Plantus, Ketrina; Ozola, Melita; Mishnev, Anatoly; Nikolajeva, Vizma; Senkovs, Maris; **Ošek, Maksim**;

Veliks, Janis New journal of chemistry 2023 / p. 20642-20652 <https://doi.org/10.1039/D3NJ04313D> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Physical–mechanical properties and morphology of filled low-density polypropylene: comparative study on calcium carbonate with oil shale and coal ashes**

**Krasnou, Illia**; Nadeem, Faisal; Gregor, Andre; Yörük, Can Rüstü; Krumme, Andres Journal of Vinyl and Additive Technology

2022 / p. 94-103 : ill <https://doi.org/10.1002/vnl.21869> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Physicochemical characterization on clinically retrieved TriTanium orthodontic archwires**

Stoyanova-Ivanova, Angelina; Ilievska, Ivana; Petrova, Violeta P.; Gueorgieva, M.; Petrov, Valeri G.; Andreeva, Laura A.; Zaleski,

Andrzej Janusz; **Mikli, Valdek** Bulgarian Chemical Communications 2018 / p. 73 - 79

[http://www.bcc.bas.bg/bcc\\_volumes/Volume\\_50\\_Special\\_F\\_2018/P73-79\\_Pages%20from%20BCC\\_50\\_Spls\\_F\\_2018.pdf](http://www.bcc.bas.bg/bcc_volumes/Volume_50_Special_F_2018/P73-79_Pages%20from%20BCC_50_Spls_F_2018.pdf) Journal metrics at Scopus Article at Scopus

**Plant macrofossil evidence for an early onset of the Holocene summer thermal maximum in northernmost Europe**

Väilänta, Minna M.; Salonen, J. Sakari; Heikkilä, Maija P.; **Amon, Leeli**; Helmens, Karin F.; Klimaschewski, Andrea; Kuhry, Peter;

Kultti, Seija; **Poska, Anneli**; Shala, Shyhrete; **Veski, Siim**; Birks, Hilary H. Nature Communications 2015 / art. 6809

<https://doi.org/10.1038/ncomms7809> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Plasmonic TiO<sub>2</sub>:Au composite layers deposited in situ by chemical spray pyrolysis**

**Oja Acik, Ilona**; **Oyekoya, Gboyega Nathaniel**; **Mere, Arvo**; Loot, Ardi; Dolgov, Leonid; **Mikli, Valdek**; **Krunks, Malle**; Sildos, Ilmo

Surface and coatings technology 2015 / p. 27-31 : ill <https://doi.org/10.1016/j.surfcoat.2015.01.036> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Practical indicators for risk of airborne transmission in shared indoor environments and their application to COVID-19 outbreaks**

Peng, Zhang; Pineda Rojas, Andrea L.; Kropff, Emilio; **Kurnitski, Jarek** Environmental science & technology 2022 / p. 1125-1137

<https://doi.org/10.1021/acs.est.1c06531> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Preparation and characterization of lignin-derived carbon aerogels**

**Jõul, Piia**; Järvik, Oliver; Lees, Heidi; Kallavus, Urve; Koel, Mihkel; Lukk, Tiit Frontiers in chemistry 2023 / art. 1326454

<https://doi.org/10.3389/fchem.2023.1326454> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Preparation of a surface-grafted protein-selective polymer film by combined use of controlled/living radical photopolymerization and microcontact imprinting**

**Kidakova, Anna**; Reut, Jekaterina; Rappich, Jörg; **Öpik, Andres**; **Sõritski, Vitali** Reactive and functional polymers 2018 / p. 47-56

<https://doi.org/10.1016/j.reactfunctpolym.2018.02.004> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Preparation of fibril nuclei of beta-amyloid peptides in reverse micelles**

Lin, Yen-Ling; Cheng, Yu-Sheng; **Org, Mai-Liis**; **Oss, Andres**; **Samoson, Ago** Chemical communications 2018 / p. 10459–10462 :

ill <https://doi.org/10.1039/C8CC05882B> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS



### **Preparation of thermoplastic cellulose esters in [mTBNH][OAC] ionic liquid by transesterification reaction**

Tarasova, Elvira; Savale, Nutan Bharat; Krasnou, Illia; Kudrjašova, Marina; Rjabovs, Vitalijs; Reile, Indrek; Vares, Lauri; Kallakas, Heikko; Kers, Jaan; Krumme, Andres Polymers 2023 / art. 3979 <https://doi.org/10.3390/polym15193979> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Procedure for implementing new materials to the component additive method**

Mäger, Katrin Nele; Just, Alar; Schmid, Joachim; Werther, Norman; Klippel, Michael; Brandon, Daniel; Frangi, Andrea Fire safety journal 2019 / p. 149-160 : ill <https://doi.org/10.1016/j.firesaf.2017.09.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Process optimization for catalytic oxidation of dibenzothiophene over UiO-66-NH<sub>2</sub> by using a response surface methodology**

Barghi, Bijan; Jürisoo, Martin; Volokhova, Maria; Seinberg, Liis; Reile, Indrek; Mikli, Valdek; Niidu, Allan ACS omega 2022 / p. 16288-16297 : ill <https://doi.org/10.1021/acsomega.1c05965> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Production of isotropic coke from shale tar at various parameters of the delayed coking process**

Nazarenko, Maxim; Saltykova, Svetlana; Rudko, Viacheslav; Pihl, Olga ACS omega 2021 / p. 22173-22179 : ill <https://doi.org/10.1021/acsomega.1c02842> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Pulsed laser deposition of chalcogenide sulfides from multi- and single-component targets: the non-stoichiometric material transfer**

Schou, Jorgen; Gansukh, Mungunshagai; Ettlinger, Rebecca B.; Cazzaniga, Andrea; Grossberg, Maarja; Kauk-Kuusik, Marit; Canulescu, Stela Applied physics. A, Materials science & processing 2018 / Art. nr. 78 <https://doi.org/10.1007/s00339-017-1475-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Quantifying graphitic edge exposure in graphene-based materials and its role in oxygen reduction reactions**

Stamatin, Serban; Hussainova, Irina; Ivanov, Roman; Colavita, Paula E. ASC catalysis 2016 / p. 5215-5221 : ill <https://doi.org/10.1021/acscatal.6b00945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A quantitative method for analysis of mixtures of homologues and stereoisomers of hemicucurbiturils that allows us to follow their formation and stability**

Fomitšenko, Maria; Peterson, Anna; Reile, Indrek; Cong, Hang; Kaabel, Sandra; Prigorchenko, Elena; Järving, Ivar; Aav, Riina New journal of chemistry 2017 / p. 2490-2497 : ill <https://doi.org/10.1039/C6NJ03050E> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reactivity of aliphatic dicarboxylic acids in wet air oxidation conditions**

Kaldas, Kristiina; Preegel, Gert; Muldma, Kati; Lopp, Margus Industrial & engineering chemistry research 2019 / p. 10855-10863 : ill <https://doi.org/10.1021/acs.iecr.9b01643> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reconstructing evolutionary trajectories of mutation signature activities in cancer using TrackSig**

Rubanov, Yulia; Shi, Ruian; Harrigan, Caitlin F.; Li, Roujia; Wintersinger, Jeff; Sahin, Nil; Deshwar, Amit G.; Dentre, Stefan C.; Leshchiner, Ignaty; Uusküla-Reimand, Liis Nature Communications 2020 / Art. nr. 731 <https://doi.org/10.1038/s41467-020-14352-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reduced state of iridium PCP pincer complexes in electrochemical CO<sub>2</sub> hydrogenation**

Osadchuk, Irina; Tamm, Toomas; Ahlquist, Marten S. G. ACS catalysis 2016 / p. 3834-3839 : ill <https://doi.org/10.1021/acscatal.6b01233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples**

Bailey, Matthew H.; Meyerson, William U.; Dursi, Lewis Jonathan; Wang, Liang-Bo; Dong, Guanlan; Liang, Wen-Wei; Weerasinghe, Amila; Li, Shantao; Kelso, Sean; Vijay Raghavan, Krishnaswamy Nature Communications 2020 / Art. nr. 4748 <https://doi.org/10.1038/s41467-020-18151-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reuse of ferric sludge as an iron source for the Fenton-based process in wastewater treatment**

Bolobajev, Juri; Kattel, Eneliis; Viisimaa, Marika; Goi, Anna; Trapido, Marina; Tenno, Taavo; Dulova, Niina Chemical engineering journal 2014 / p. 8-13 : ill <https://doi.org/10.1016/j.cej.2014.06.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of mineral carbonation technologies to sequester CO<sub>2</sub>**

Sanna, Aimaro; Uibu, Mai; Caramanna, Giorgio; Kuusik, Rein, keemik; Maroto-Valer, M. Mercedes Chemical Society reviews 2014 / p. 8049-8080 : ill <https://doi.org/10.1039/C4CS00035H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review of the extraction of key metallic values from black shales in relation to their geological and mineralogical properties**

Vind, Johannes; **Tamm, Kadriann** Minerals Engineering 2021 / art. 107271 <https://doi.org/10.1016/j.mineng.2021.107271> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](#)

### **Selective performance of sol–gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants**

**Klauson, Deniss; Budarnaja, Olga; Stepanova, Kristina; Kritševskaja, Marina; Dedova, Tatjana; Käkinen, Aleksandr; Preis, Sergei** Kinetics and catalysis 2014 / p. 47-55 : ill <https://doi.org/10.1134/S0023158414010030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sex differences in oncogenic mutational processes**

Li, Constance H.; Prokopec, Stephenie D.; Sun, Ren X.; Yousif, Fouad; Schmitz, Nathaniel; Al-Shahrour, Fatima; Atwal, Gurnit; Bailey, Peter J.; Biankin, Andrew V.; **Uusküla-Reimand, Liis** Nature Communications 2020 / Art. nr. 4330 <https://doi.org/10.1038/s41467-020-17359-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Simple access to $\beta$ -trifluoromethyl-substituted ketones via copper-catalyzed ring-opening trifluoromethylation of substituted cyclopropanols**

Kananovich, Dzmitry; Konik, Yulia A.; Zubrytski, Dzmitry M.; **Järving, Ivar; Lopp, Margus** Chemical communications 2015 / p. 8349-8352 : ill <https://doi.org/10.1039/c5cc02386f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Size-control by anion templating in mechanochemical synthesis of hemicucurbiturils in the solid state**

**Kaabel, Sandra;** Stein, Robin S.; **Fomitšenko, Maria; Järving, Ivar;** Friščic, Tomislav; **Aav, Riina** Angewandte Chemie international edition 2019 / p. 6230-6234 : ill <https://doi.org/10.1002/anie.201813431> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Small-scale assessment method for the fire resistance of historic plaster system and timber structures**

**Liblik, Johanna; Just, Alar** Fire and materials 2023 / p. 62–74 : ill <https://doi.org/10.1002/fam.3069> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Solid-state heteronuclear multiple-quantum spectroscopy under a magic-angle spinning frequency of 150 kHz**

Yuan, Eric Chung-Yueh; Chen, Po-Wen; Huang, Shing-Jong; **Org, Mai-Liis; Samoson, Ago;** Chan, Jerry Chun Chung Journal of the Chinese Chemical Society 2022 / p. 1449-1461 <https://doi.org/10.1002/jccs.202200063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Solid-state NMR of a protein in a precipitated complex with a full-length antibody**

Lamley, Jonathan M.; Iuga, Dinu; Öster, Carl; Sass, Hans-Juergen; Rogowski, Marco; **Oss, Andres; Past, Jaan; Reinhold, Andres;** Grzesiek, Stephan; **Samoson, Ago;** Lewandowski, Jozef R. Journal of the American Chemical Society 2014 / p. 16800-16806 : ill <https://doi.org/10.1021/ja5069992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Solution combustion synthesis of nanostructured molybdenum carbide**

Kirakosyan, Hasmik; Nazaretyan, K.T.; Mnatsakanyan, R.A.; **Aydinyan, Sofiya;** Kharatyan, Suren Journal of nanoparticle research 2018 / art. 214, 11 p. : ill <https://doi.org/10.1007/s11051-018-4312-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sonolytic degradation of chlorophene enhanced by Fenton-mediated oxidation and H•-scavenging effect**

**Bolobajev, Juri; Goi, Anna** Chemical engineering journal 2017 / p. 904-914 : ill <https://doi.org/10.1016/j.cej.2017.07.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Spray pyrolysis deposition and characterization of highly c-axis oriented hexagonal ZnS nanorod crystals**

**Dedova, Tatjana; Gromõko, Inga; Krunks, Malle; Mikli, Valdek; Grossberg, Maarja;** Sildos, Ilmo; Utt, Kathriin; **Vessart, Risto; Unt, Tarmo** Crystal research and technology 2015 / p. 85-92 : ill <https://doi.org/10.1002/crat.201400172> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Squeezing formaldehyde into C60 fullerene**

Vyas, Vijayesh K.; Bacanu, George Razvan; Soundararajan, Murari; Marsden, Elizabeth S.; **Jafari, Tanzeeha;** Shugai, Anna; Light, Mark E.; Nagel, Urmas; Rõõm, Toomas; Levitt, Malcolm H.; Whitby, Richard J. Nature Communications 2024 / art. 2515 <https://doi.org/10.1038/s41467-024-46886-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structural, optical and electrical properties of zno thin films doped with al, v and nb, deposited by r.f. magnetron sputtering**

Lovchinov, Konstantin; Petrov, Miroslav; Angelov, Orlin; Nichev, Hristo; **Mikli, Valdek; Dimova-Malinovska, Doriana** Nanoscience advances in CBRN agents detection, information and energy security : Proceedings of the NATO Advanced Study Institute on

**Structure and electrochemical properties of Na<sub>2</sub>±xV<sub>3</sub>P<sub>2</sub>O<sub>13</sub> (x = 0 and 1): a promising cathode material for sodium-ion batteries**

Reddy, M. Anji; Euchner, Holger; **Witter, Raiker**; Clemens, Oliver Journal of materials chemistry A 2018 / p. 6947-6958 : ill  
<https://doi.org/10.1039/C8TA00588E> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Structure and function of microbial community associated with phenol co-substrate in degradation of benzo[a]pyrene in coking wastewater**

Wu, Haizhen; Wang, Ming; Zhu, Shuang; **Preis, Sergei** Chemosphere 2019 / p. 128-138 : ill  
<https://doi.org/10.1016/j.chemosphere.2019.04.117> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Study of the curing mechanism of metal alkoxide liquid threads for the synthesis of metal oxide fibers or microtubes**

Part, Marko; Hanschmidt, Kelli; Jögi, Jakob; **Rauwel, Erwan**; Seisenbaeva, Gulaim A.; Kessler, Vadim G.; Tätte, Tanel RSC advances 2014 / p. 12545-1255 : ill <https://doi.org/10.1039/c3ra47924b> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Substitution of the Methionine Axial Ligand of the T1 copper for the fungal-like Phenylalanine Ligand (M298F) causes local structural perturbations that lead to thermal instability and reduced catalytic efficiency of the small Laccase from Streptomyces coelicolor A3(2)**

**Zovo, Kairit; Pupart, Hegne**; Van Wieren, Arie; Gillilan, Richard E.; **Lukk, Tiit** ACS omega 2022 / p. 6184-6194  
<https://doi.org/10.1021/acsomega.1c06668> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass: Comparison of capillary electrophoresis and chromatographic analysis**

Hyvärinen, S.; Mikkola, J.-P.; Murzin, D. Yu.; **Vaher, Merike; Kaljurand, Mihkel; Koel, Mihkel** Catalysis today 2014 / p. 18-24 : ill  
<https://doi.org/10.1016/j.cattod.2013.08.015> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Sui Generis helicene-based supramolecular chirogenic system : enantioselective sensing, solvent control, and application in chiral group transfer reaction**

**Hasan, Mohammed**; Khose, Vaibhav N.; Mori, Takuzo; **Borovkov, Victor**; Karnik, Anil V. ACS omega 2017 / p. 592-598 : ill  
<https://doi.org/10.1021/acsomega.6b00522> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Supramolecular chirogenesis in chemical and related sciences : editorial**

Sun, Yue; **Aav, Riina; Borovkov, Victor** Frontiers in chemistry 2021 / art. 679332 <https://doi.org/10.3389/fchem.2021.679332> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Supramolecular chirogenesis in zinc porphyrins by enantiopure hemicucurbit[n]urils (n = 6, 8)**

**Ustrnul, Lukas; Kaabel, Sandra**; Burankova, Tatsiana; **Martõnova, Jevgenija; Konrad, Nele; Borovkov, Victor; Aav, Riina** Chemical communications 2019 / p. 14434-14437 : ill <https://doi.org/10.1039/c9cc07150d> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Supramolecular chirogenesis in zinc porphyrins: complexation with enantiopure thiourea derivatives, binding studies and chirality transfer mechanism**

**Konrad, Nele**; Meniailava, Darya; **Osadchuk, Irina**; Adamson, Jasper; **Hasan, Mohammed**; Clot, Eric; **Aav, Riina; Borovkov, Victor; Kananovich, Dzmitry** Journal of porphyrins and phthalocyanines 2020 <https://doi.org/10.1142/S108842461950192X> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Supramolecular halogen bonds in asymmetric catalysis**

**Kaasik, Mikk; Kanger, Tõnis** Frontiers in chemistry 2020 / art. 599064, 18 p. : ill <https://doi.org/10.3389/fchem.2020.599064> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Suprastars of chemistry : editorial**

Xiao, Tangxin; James, Tony D.; **Borovkov, Victor**; Castellano, Ronald K.; Deng, Chao Frontiers in Chemistry 2022 / art. 932508  
<https://doi.org/10.3389/fchem.2022.932508> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Sustainable fabrication of polypropylene-postconsumer cotton composite materials : circularity, characterization, mechanical testing, and tribology**

**Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Viljus, Mart; Krasnou, Illia** Materials today sustainability 2023 / art. 100344, 16 p. : ill <https://doi.org/10.1016/j.mtsust.2023.100344> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Synthesis and antibacterial properties of novel quaternary ammonium lignins**

**Mohan, Mahendra Kothottil**; Kaur, Harleen; Rosenberg, Merilin; **Duvanova, Ella; Lukk, Tiit**; Ivask, Angela; **Karpichev, Yevgen** ACS omega 2024 / p. 39134-39145 : ill <https://doi.org/10.1021/acsomega.4c06000> Journal metrics at Scopus Article at Scopus Journal

**Synthesis and investigation of thermo-induced gelation of partially cross-linked poly-2-isopropyl-2-oxazoline in aqueous media**

Amirova, Alina; Rodchenko, Serafim; Kurlykin, Mikhail; Tenkovtsev, Andrey; **Krasnou, Illia; Krumme, Andres**; Filippov, Alexander Polymers 2020 / art. 698, 13 p. : ill <https://doi.org/10.3390/polym12030698> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synthesis of solid resorcinol–formaldehyde resin modified with styrene with the use of a shale phenol fraction with a boiling temperature higher than 270°C**

**Jurkeviciute, Ana; Grigorieva, Larisa**; Vassiljev, Vassili Solid fuel chemistry 2016 / p. 64–68  
<https://doi.org/10.3103/S0361521916010122> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Zero valent boron activated ozonation for ultra-fast degradation of organic pollutants : atomic orbital matching, oxygen spillover and intra-electron transfer**

Zhang, Fengzhen; Kong, Qiaoping; **Preis, Sergei** The chemical engineering journal 2022 / art. 134674  
<https://doi.org/10.1016/j.cej.2022.134674> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**ZnO nanowires for solar cells : a comprehensive review**

Consonni, Vincent; Briscoe, Joe; **Kärber, Erki** Nanotechnology 2019 / art. 362001, 41 p : ill <https://doi.org/10.1088/1361-6528/ab1f2e>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Temperature and pressure dependence of density of a shale oil and derived thermodynamic properties**

Baird, Zachariah Steven; Uusi-Kyyny, Petri; Järvik, Oliver; **Oja, Vahur**; Alopaeus, Ville Industrial & engineering chemistry research 2018 / p. 5128-5135 <https://doi.org/10.1021/acs.iecr.7b05018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Temperature changes accompanying signal propagation in axons**

**Tamm, Kert; Engelbrecht, Jüri; Peets, Tanel** Journal of non-equilibrium thermodynamics 2019 / p. 277–284 : ill  
<https://doi.org/10.1515/jnet-2019-0012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Temperature-dependent photoreflectance of SnS crystals**

**Raadik, Taavi; Grossberg, Maarja; Raudoja, Jaan; Traksmaa, Rainer; Krustok, Jüri** Journal of physics and chemistry of solids 2013 / p. 1683-1685 : ill <https://doi.org/10.1016/j.jpcs.2013.06.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Template synthesis of titanium dioxide coatings and determination of their photocatalytic activity by aqueous oxidation of humic acid**

**Budarnaja, Olga; Klauson, Deniss; Dedova, Tatjana; Kärber, Erki; Viljus, Mart; Preis, Sergei** Kinetics and catalysis 2014 / p. 688-694 : ill <https://doi.org/10.1134/S0023158414050036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Template-controlled synthesis of chiral cyclohexylhemicucurbit[8]uril**

**Prigorchenko, Elena; Öeren, Mario; Kaabel, Sandra; Fomitšenko, Maria**; Reile, Indrek; **Järving, Ivar; Tamm, Toomas**; Topic, Filip; Rissanen, Kari; **Aav, Riina** Chemical communications 2015 / p. 10921-10924 : ill <https://doi.org/10.1039/c5cc04101e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Templating effects in the dynamic chemistry of Cucurbiturils and Hemicucurbiturils**

**Kaabel, Sandra; Aav, Riina** Israel journal of chemistry 2018 / p. 296–313 : ill <https://doi.org/10.1002/ijch.201700106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Tensile and surface wettability properties of the solvent cast cellulose fatty acid ester films**

**Kallakas, Heikko; Kattamanchi, Tanuj; Kilumets, Catherine**; Tarasova, Elvira; Krasnou, Illia; Savest, Natalja; **Ahmadian, Iman; Kers, Jaan**; Krumme, Andres Polymers 2023 / art. 2677 <https://doi.org/10.3390/polym15122677> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effect of Ag alloying of Cu<sub>2</sub>(Zn,Cd)SnS<sub>4</sub> on the monograin powder properties and solar cell performance**

**Timmo, Kristi; Altosaar, Mare; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi; Josepson, Raavo; Krustok, Jüri; Kauk-Kuusik, Marit** Journal of materials chemistry A 2019 / p. 24281-24291 : ill  
<https://doi.org/10.1039/C9TA07768E> TTÜ teadlased tõstsid uue põlvkonna päikesepaneelide tõhusust [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effect of Zinc Oxide on DLP hybrid composite manufacturability and mechanical-chemical resistance**

Baroninš, Janis; **Antonov, Maksim**; Abramovskis, Vitalijs; Rautmane, Aija; Lapkovskis, Vjaceslavs; Bockovs, Ivans; Goel, Saurav; Kumar Thakur, Vijay; Shishkin, Andrei Polymers 2023 / art. 4679, p. 1–19 <https://doi.org/10.3390/polym15244679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **A thermomechanical explanation for the topology of crack patterns observed on the surface of charred wood and particle fibreboard**

Baroudi, Djebbar; **Ferrantelli, Andrea**; Li, Kai Yuan; Hostikka, Simo Combustion and flame 2017 / p. 206-215 : ill  
<https://doi.org/10.1016/j.combustflame.2017.04.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Thermomechanical surface instability at the origin of surface fissure patterns on heated circular MDF samples**

**Ferrantelli, Andrea**; Baroudi, Djebbar; Yuan Li, Kai; Khakalo, Sergei Fire and materials 2019 / p. 707-716  
<https://doi.org/10.1002/fam.2722> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis**

Ye, Guojie; Luo, Pei; Zhao, Yasi; Qiu, Guanglei; Hu, Yun; **Preis, Sergei**; Wei, Chaohai Chemosphere 2020 / art. 126767, 12 p  
<https://doi.org/10.1016/j.chemosphere.2020.126767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Timescales of methane seepage on the Norwegian margin following collapse of the Scandinavian Ice Sheet**

Cremiere, Antoine; **Lepland, Aivo**; Chand, Shyam; **Martma, Tõnu** Nature communications 2016 / p. 1-10 : ill  
<https://doi.org/10.1038/ncomms11509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tire processing using pyrolysis and hydrogenation methods**

**Pihl, Olga**; Soone, Jüri; **Kekiševa, Ljudmilla**; Kaev, Mihkel Solid fuel chemistry 2013 / p. 183-192  
<https://doi.org/10.3103/S0361521913030063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Towards adaptive method for peak migration time correction : discretization period in electropherograms**

Drevinskas, Tomas; Maruška, Audrius; Naujokaitytė, Gintarė; Telksnys, Laimutis; **Kaljurand, Mihkel**; Stanys, Vidmantas; Cowles, John; Gorbatoeva, Jelena Chemija 2020 / p. 146-155 : ill <https://doi.org/10.6001/CHEMIJA.V31I3.4288> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transfer of modified gut viromes improves symptoms associated with metabolic syndrome in obese male mice**

Mao, Xiaotian; Larsen, Sabina Birgitte; Zachariassen, Line Sidsel Fisker; Brunse, Anders; **Adamberg, Signe**; Mejia, Josue Leonardo Castro; Larsen, Frej; **Adamberg, Kaarel**; Nielsen, Dennis Sandris; Hansen, Axel Kornerup; Hansen, Camilla Hartmann Friis; Rasmussen, Torben Sølbeck Nature communications 2024 / art. 4704 <https://doi.org/10.1038/s41467-024-49152-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transition-metal- and nitrogen-doped carbide-derived carbon/carbon nanotube composites as cathode catalysts for anion-exchange membrane fuel cells**

Lilloja, Jaana; Kibena-Pöldsepp, Elo; Sarapuu, Ave; Douglin, John C.; Käärik, Maike; Kozlova, Jekaterina; **Paiste, Päärn**; Kikas, Arvo; Aruväli, Jaan; Leis, Jaan ACS catalysis 2021 / p. 1920-1931 <https://doi.org/10.1021/acscatal.0c03511> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transparent TiO<sub>2</sub> thin films with high photocatalytic activity for indoor air purification**

**Sydorenko, Jekaterina**; Mere, Arvo; Krunk, Malle; Krichevskaya, Marina; Oja Acik, Ilona RSC advances 2022 / p. 35531-35542 <https://doi.org/10.1039/D2RA06488J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Treatment of landfill leachate by continuously reused ferric oxyhydroxide sludge-activated hydrogen peroxide**

**Kattel, Eneliis**; Trapido, Marina; Dulova, Niina Chemical engineering journal 2016 / p. 646-654 : ill  
<https://doi.org/10.1016/j.cej.2016.06.135> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tribological behavior of carbon nanofibers deposited on hard nanocomposite (nc-Ti1-xAlxN)/(a-Si3N4) coating**

**Kimmari, Eduard**; Podgurski, Vitali; Simunin, M.; Adoberg, Eron; Surženkov, Andrei; Viljus, Mart; Hartelt, M.; Wäsche, R.; Sildos, Ilmo; Kulu, Priit Surface & coatings technology 2013 / p. 21-25 : ill <https://doi.org/10.1016/j.surfcoat.2013.03.011>  
<https://www.sciencedirect.com/science/article/pii/S0257897213002636?via%3Dihub> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tribological behavior of Ni-based self-lubricating claddings containing sulfide of nickel, copper, or bismuth at temperatures up to 600 °C**

**Kumar, Rahul**, 1993-; Torres, Hector; **Aydinyan, Sofiya**; **Antonov, Maksim**; Varga, Markus; **Hussainova, Irina**; Rodríguez Ripoll, Manel Surface and coatings technology 2023 / art. 129270, 14 p. : ill <https://doi.org/10.1016/j.surfcoat.2023.129270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tribological performances of ZrC-Ni and TiC-Ni cermet reinforced PTA hardfacings at elevated temperatures**

**Yung, Der-Liang**; Zikin, Arkadi; **Hussainova, Irina**; Danninger, Herbert; Badisch, Ewald; Gavrilovic, A. Surface and coatings technology 2017 / p. 497-505 : ill <https://doi.org/10.1016/j.surfcoat.2016.11.099> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tunable chiral triazole-based halogen bond donors : assessment of donor strength in solution with nitrogen-containing**

#### acceptors

**Peterson, Anna; Kaasik, Mikk; Metsala, Andrus; Järving, Ivar;** Adamson, Jasper; **Kanger, Tõnis** RSC advances 2019 / p. 11718–11721 : ill <https://doi.org/10.1039/c9ra01692a> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Two-photon voltmeter for measuring a molecular electric field

Rebane, Aleksander; Wicks, Geoffrey; Drobizhev, Mikhail; Cooper, Thomas; Trummal, Aleksander; **Uudsemaa, Merle** Angewandte Chemie - International Edition 2015 / p. 7582 - 7586 <https://doi.org/10.1002/anie.201502157> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Unsubstituted oxacalix[n]arenes (n=4 and 8): a conformational study in solution and solid state and interaction studies with aromatic guests

**Peterson, Anna; Kaabel, Sandra; Kahn, Iiris;** Pehk, Tõnis; **Aav, Riina;** Adamson, Jasper ChemistrySelect 2018 / p. 9091 - 9095 <https://doi.org/10.1002/slct.201801590> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Unusual defect-related room-temperature emission from WS<sub>2</sub> monolayers synthesized through a potassium-based precursor

**Walke, Peter R.; Kaupmees, Reelika; Grossberg-Kuusk, Maarja; Krustok, Jüri** ACS omega 2023 / p. 37958-37970 <https://doi.org/10.1021/acsomega.3c03476> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Validation of climate model-inferred regional temperature change for late-glacial Europe

Heiri, Oliver; Brooks, Stephen J.; **Amon, Leeli; Veski, Siim** Nature communications 2014 / p. 1-7 : ill <https://doi.org/10.1038/ncomms5914> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Vapor pressures of phenolic compounds found in pyrolysis oil

**Mozaffari, Parsa; Järvik, Oliver; Baird, Zachariah Steven** Journal of chemical & engineering data 2020 / p. 5559–5566 <https://doi.org/10.1021/acs.jced.0c00675> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Versatile graphene-alumina nanofibers for microwave absorption and EMI shielding

Saffar Shamshirgar, Ali; Alvarez, Maria Fernandez; Del Campo, Adolfo; Fernandez, Jose Francisco; Rojas Hernandez, Rocio Estefania; Ivanov, Roman; Rosen, Johanna; **Hussainova, Irina** Carbon 2023 / art. 118057 <https://doi.org/10.1016/j.carbon.2023.118057> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Wet air oxidation of oil shales: kerogen dissolution and dicarboxylic acid formation

**Kaldas, Kristiina; Preegel, Gert; Muldma, Kati; Lopp, Margus** ACS omega 2020 / p. 22021–22030 <https://doi.org/10.1021/acsomega.0c01466> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Visualizing ribbon-to-ribbon heterogeneity of chemically unzipped wide graphene nanoribbons by silver nanowire-based tip-enhanced raman scattering microscopy

Inose, Tomoko; Toyouchi, Shuichi; Hara, Shinnosuke; Sugioka, Shoji; **Walke, Peter R.;** Oyabu, Rikuto; Fortuni, Beatrice; Peeters, Wannes; Usami, Yuki; Hirai, Kenji Small 2024 / art. 2301841, 10 p. : ill <https://doi.org/10.1002/sml.202301841> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)