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#### **Activation and reactivity of Estonian oil shale cyclone ash towards SO<sub>2</sub> binding**

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#### **Adsorption and kinetics studies of Cr (VI) by graphene oxide and reduced graphene oxide-zinc oxide nanocomposite**

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#### **Alcoholysis of primary amides in the presence of CF<sub>3</sub>SO<sub>3</sub>H**

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**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, Gurmit; 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)**

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#### Benzyne-mediated nonconcerted pathway toward synthesis of sterically crowded [5]- and [7]oxahelicenoids, stereochemical and theoretical studies, and optical resolution of helicenoids

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### **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>PO<sub>4</sub>**

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**ChemEASTry Europe, the status of the chemical sciences in a growing region**



**Gryko, Dorota; Szumna, Agnieszka; Aav, Riina; Soos, Tibor** Organic letters 2023 / p. 6237-6239

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**Osadchuk, Irina**; **Aav, Riina**; **Borovkov, Victor**; Clot, Eric ChemPhysChem 2021 / p. 1817-1833 : ill

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**Deep-ultraviolet emitter : rare-earth-free ZnAl<sub>2</sub>O<sub>4</sub> nanofibers via a simple wet chemical route**



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**Trubitsõn, Dmitri; Martõnova, Jevgenija; Erkman, Kristin; Metsala, Andrus;** Saame, Jaan; Köster, Kristjan; **Järving, Ivar;** Leito, Ivo; **Kanger, Tõnis** Synthesis 2020 / p. 1047-1059 <https://doi.org/10.1055/s-0039-1690751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitroolefins**

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#### **Enantioselective organocatalytic Michael addition–cyclization cascade of cyclopentane-1,2-dione with substituted (E)-2-oxobut-3-enates**

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#### **End-to-end multimodal sensor dataset collection framework for autonomous vehicles**

**Gu, Junyi;** Lind, Artjom; Chhetri, Tek Raj; **Bellone, Mauro; Sell, Raivo** Sensors 2023 / art. 6783, 25 p. : ill <https://doi.org/10.3390/s23156783> [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](#)

#### **Enhanced sensing properties of cobalt bis-porphyrin derivative thin films by a magneto-plasmonic-opto-chemical sensor**

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#### **Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO<sub>2</sub> thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis**

**Spiridonova, Jekaterina; Mere, Arvo; Krunks, Malle; Rosenberg, Merilin;** Kahru, Anne; **Danilson, Mati; Kritševskaja, Marina; Oja Acik, Ilona** Catalysts 2020 / 21 p. : ill <https://doi.org/10.3390/catal10091011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**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**

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**Enzymatic synthesis and polymerization of isosorbide-based monomethacrylates for high-Tg plastics**

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**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](#)

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**Ethane-bridged bisporphyrin conformational changes as an effective analytical tool for nonenzymatic detection of urea in the physiological range**

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**European research in focus : mechanochemistry for sustainable industry (COST Action MechSustInd)**

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**Evaluation of Estonian phosphate rock by flotation**

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**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

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**Evaluation of Zn<sup>2+</sup>- and Cu<sup>2+</sup>-binding affinities of native Cu,Zn-SOD1 and its G93A mutant by LC-ICP MS**

**Smirnova, Julia; Gavrilova, Julia; Noormägi, Andra; Valmsen, Karin; Pupart, Hegne;** Luo, Jinghui; **Tõugu, Vello; Palumaa,**

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**An evolutionary field theorem : evolutionary field optimization in training of power-weighted multiplicative neurons for nitrogen oxides-sensitive electronic nose applications**

Alagoz, Baris Baykant; Simsek, Ozlem Imik; Ari, Davut; **Tepljakov, Aleksei; Petlenkov, Eduard; Alimohammadi, Hossein**

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

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

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**Explainability and transparency of classifiers for air-handling unit faults using explainable artificial intelligence (XAI)**

**Meas, Molika;** Machlev, Ram; **Köse, Ahmet; Tepljakov, Aleksei; Loo, Lauri;** Levron, Yoash; **Petlenkov, Eduard; Belikov, Juri**

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**Exploring different synthesis parameters for the preparation of metal-nitrogen-carbon type oxygen reduction catalysts**

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**Exploring the limits of early predictive maintenance in wind turbines applying an anomaly detection technique**

Jankauskas, Mindaugas; Serackis, Artūras; Šapurov, Martynas; Pomarnacki, Raimondas; Baskys, Algirdas; Hyunh, Van Khang;

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**Extension of the DSC method to measuring vapor pressures of narrow boiling range oil cuts**

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### **Extraction of bioactive compounds from *Dipsacus fullonum* leaves using deep eutectic solvents**

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### **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,

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### **Fabrication, potentiometric characterization, and application of screen-printed RuO<sub>2</sub> pH electrodes for water quality testing**

Uppuluri, Kiranmai; Lazouskaya, Maryna; Szwagierczak, Dorota; Zaraska, Krzysztof; Tamm, Martti Sensors 2021 / art. 5399, 15 p. : ill

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

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### **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,

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### **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;

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### **FedBranched : leveraging federated learning for anomaly-aware load forecasting in energy networks**

Manzoor, Habib Ullah; Khan, Ahsan Raza; Flynn, David; Alam, Muhammad Mahtab; Akram, Muhammad; Imran, Muhammad Ali;

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### **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,

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### **Ferrocene-modified resorcinol-formaldehyde aerogels**

Panova, L.V.; Lemenovskii, D.A.; Afanasov, M.I.; Krut'ko, D.P.; Popkov, M.A.; Burlutskiy, R.O.; Brusova, M.M.; Koel, Mihkel;

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

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### **Fingerprinting postblast explosive residues by portable capillary electrophoresis with contactless conductivity detection**

Kobrin, Eeva-Gerda; Lees, Heidi; Fomitšenko, Maria; Kuban, Petr; Kaljurand, Mihkel Electrophoresis 2014 / p. 1165-1172 : ill

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### **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

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### **First principles simulations of phenol and methanol detector based on pristine graphene nanosheet and armchair graphene nanoribbons**

Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas Sensors 2019 / art. 2731, 14 p. : ill <https://doi.org/10.3390/s19122731>

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

Svirskaitė, Lauryna Monika; Kasparavicius, Ernestas; Steponaitis, Matas; Grzibovskis, Raitis; Franckevicius, Marius; Katerski,

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**Fluorescence, electrophoretic and chromatographic fingerprints of herbal medicines and their comparative chemometric analysis**

**Mazina, Jekaterina; Vaher, Merike; Kuhtinskaja, Maria;** Porõvkina, Larisa; **Kaljurand, Mihkel** Talanta 2015 / p. 233-246 : ill <https://doi.org/10.1016/j.talanta.2015.02.050> [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**

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**Formation of Ca-Zn-Na phosphate bioceramic material in thermal processing of EDTA sol-gel precursor**

**Bogdanoviciene, Irma;** Cepenko, Marina; **Traksmaa, Rainer;** Kareiva, Aivars; **Tõnsuaadu, Kaia** Journal of Thermal Analysis and Calorimetry 2015 / p. 107-114 : ill <https://doi.org/10.1007/s10973-015-4507-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Forward and backward walking : multifactorial characterization of gait parameters**

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**4.9 % efficient Sb2S3 solar cells from semi-transparent absorbers with fluorene-based thiophene terminated hole conductors**

**Mandati, Sreekanth; Juneja, Nimish; Katerski, Atanas;** Jegorove, Aiste; Grzibovskis, Raitis; Vembris, Aivars; **Dedova, Tatjana; Spalatu, Nicolae;** Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** ACS Applied Energy Materials 2023 / p. 3822–3833 <https://doi.org/10.1021/acsaem.2c04097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fractional Fourier transform-based signal separation for ultrasonic guided wave inspection of plates**

**Peng, Chengxiang; Annus, Paul; Rist, Marek; Land, Raul; Ratassepp, Madis** Sensors 2024 / art. 7564 <https://doi.org/10.3390/s24237564> [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**

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

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**Fused hybrid linkers for metal–organic framework-derived bifunctional oxygen electrocatalysts**

**Ping, Kefeng;** Braschinsky, Alan; **Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo;** Aruväli, Jaan; Paiste, Pääm; Vlassov, Sergei; Kook, Mati; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Kongi, Nadežda; **Starkov, Pavel** ACS Applied Energy Materials 2020 / p. 152–157 : ill <https://doi.org/10.1021/acsaem.9b02039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A gas chromatograph for citizen science**

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**Gasification and liquefaction of solid fuels by hydrothermal conversion methods**

**Kruusement, Kristjan; Luik, Hans;** Waldner, Maurice; Vogel, Frederic; **Luik, Lea** Journal of analytical and applied pyrolysis 2014 / p. 265-273 : ill <https://doi.org/10.1016/j.jaap.2014.04.006> [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**

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### **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](#)

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### **Generation of mixed anhydrides via oxidative fragmentation of tertiary cyclopropanols with phenyliodine(III) dicarboxylates**

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### **Glassy GaS: transparent and unusually rigid thin films for visible to mid-IR memory applications**

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### **Graphene-ceramic hybrid nanofibers for ultrasensitive electrochemical determination of ascorbic acid**

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

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**Bondar, Denys; Bragina, Olga;** Lee, Ji Young; Semenyuta, Ivan; **Järving, Ivar;** Brovarets, Volodymyr; Wipf, Peter; Bahar, Ivet; **Karpichev, Yevgen** Helvetica chimica acta 2023 / art. e202300133, 26 p. : ill <https://doi.org/10.1002/hlca.202300133> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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### Identifying the role of co-aggregation of Alzheimer's amyloid- $\beta$ with amorphous protein aggregates of non-amyloid proteins

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### 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

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Gouadria, Hamida; Mourad, Smari; Mnasri, Taoufik; **Necib, Jallouli;** López Sánchez, Jesús; Marín, Pilar; Jamale, Atul P.; Ben Younes, Rached Inorganic chemistry communications 2023 / art. 110241 <https://doi.org/10.1016/j.inoche.2022.110241> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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#### In situ determination of illegal drugs in oral fluid by portable capillary electrophoresis with deep UV excited fluorescence detection

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#### 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](#)

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**Tammiku-Taul, Jaana**; **Park, Rahel**; **Jaanson, Kaur**; **Luberg, Kristi**; **Dobchev, Dimitar Atanasov**; **Kananovich, Dzmitry**; **Noole, Artur**; Mandel, Merle; Kaasik, Allen; **Lopp, Margus**; **Timmusk, Tõnis**; Karelson, Mati European journal of medicinal chemistry 2016 / p. 541-552 : ill <https://doi.org/10.1016/j.ejmech.2016.06.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Cmero, Marek; Yuan, Ke; Ong, Cheng Soon; Schröder, Jan; Adams, David J.; Anur, Pavana; Beroukhir, 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 alkali iodide fluxes on Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin powder properties and performance of solar cells

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### **One-step carbon nanotubes grafting with styrene-co-acrylonitrile by reactive melt blending for electrospinning of conductive reinforced composite membranes**

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**Porphyrin-based hybrid nanohelices : cooperative effect between molecular and supramolecular chirality on amplified optical activity**

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**Portable automated handheld sample collection-preparation instrument for airborne volatile substances**

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**Portable fully automated oral fluid extraction device for illegal drugs**

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**A post-deposition annealing approach for organic residues control in TiO<sub>2</sub> and its impact on Sb<sub>2</sub>Se<sub>3</sub>/TiO<sub>2</sub> device performance**

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**Self-assembly of chiral cyclohexanohemicucurbit[n]urils with bis(Zn porphyrin): size, shape, and time-dependent binding**

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**Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications**

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