

Adhesion of single-walled carbon nanotube thin films with different materials

Rajanna, Pramod M.; Luchkin, Sergey; Larionov, Konstantin; Grebenko, Artem; Popov, Zakhar; Sorokin, Pavel; **Danilson, Mati; Bereznev, Sergei**; Lund, Peter D.; Nasibulin, Albert The journal of physical chemistry letters 2020 / p. 504–509
<https://doi.org/10.1021/acs.jpcllett.9b03552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aerosol-assisted fine-tuning of optoelectrical properties of SWCNT films

Tsopenko, Alexey; Romanov, Stepan; Satco, Daria; **Volobujeva, Olga; Danilson, Mati** The journal of physical chemistry letters 2019 / p. 3961–3965 : ill <https://doi.org/10.1021/acs.jpcllett.9b01498> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An NMR and MD modeling insight into nucleation of 1,2-alkanediols : selective crystallization of lipase-catalytically resolved enantiomers from the reaction mixtures

Parve, Omar; Reile, Indrek; Parve, Jaan; Kasvandik, Sergo; **Kudrjašova, Marina; Tamp, Sven; Metsala, Andrus; Villo, Ly; Pehk, Tõnis**; Jarvet, Jüri; Vares, Lauri Journal of organic chemistry 2013 / p. 12795–12801 : ill <https://doi.org/10.1021/jo402189e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#) [Journal metrics at WOS](#)

Application of differential scanning calorimetry to study solvent swelling of kukersite oil shale macromolecular organic matter : a comparison with the fine-grained sample volumetric swelling method

Hruljova, Jelena; Järvik, Oliver; Oja, Vahur Energy & fuels 2014 / p. 840–847 : ill <https://doi.org/10.1021/ef401895u> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aqueous photocatalytic oxidation of doxycycline

Kritševskaja, Marina; Klauson, Deniss; Pronina, Natalja; Poljakova, Alissa; Preis, Sergei Abstracts of papers of the American Chemical Society. Vol. 245 2013 / [1] p

Aqueous photocatalytic oxidation of prednisolone

Klauson, Deniss; Pilnik-Sudareva, Jana; Budarnaja, Olga; Kritševskaja, Marina; Kuljasova, Julia; Käkinen, Aleksandr; Juganson, Katre; Preis, Sergei Abstracts of papers of the American Chemical Society. Vol. 245 2013 / [1] p

Asymmetric chemoenzymatic one-pot synthesis of α -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 organocatalytic wittig [2,3]-rearrangement of oxindoles

Ošeka, Maksim; Kimm, Mariliis; Kaabel, Sandra; Järving, Ivar; Rissanen, Kari; **Kanger, Tõnis** Organic letters 2016 / p. 1358–1361 : ill <https://doi.org/10.1021/acs.orglett.6b00291> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Asymmetric synthesis of congested spiro-cyclopentaneoxindoles via an organocatalytic cascade reaction

Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Lopp, Margus; Kanger, Tõnis Journal of organic chemistry 2013 / p. 8117–8122 : ill
<https://doi.org/10.1021/jo400822j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Asymmetric synthesis of congested spiro-cyclopentaneoxindoles via an organocatalytic cascade reaction

Noole, Artur; Kanger, Tõnis 248th ACS National Meeting and Exposition : August 10–14, 2014, San Francisco, CA : Chemistry and Global Stewardship 2014 / [1] p. : ill

Atomic structure, dynamics, changes in chemical bonding and semiconductor-metal transition in Sb₂Se₃ : A remarkable material for quantum networks and energy applications

Kassem, Mohammad; Benmore, Chris J.; Tverjanovich, Andrey; Bokova, Maria; Khomenko, Maxim; Usuki, Takeshi; Sokolov, Anton; Fontanari, Daniele; **Bereznev, Sergei**; Ohara, Koji ACS applied materials & interfaces 2025 / p. 17075–17095
<https://doi.org/10.1021/acsomega.5c00008>

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

Gawade, Prashant M.; Khose, Vaibhav N.; Badani, Purav M.; **Kaabel, Sandra; Borovkov, Victor** Journal of organic chemistry 2019 / p. 860–868 : ill <https://doi.org/10.1021/acs.joc.8b02507> [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](#)

Bio-templated aerogel fibers: heterogeneous spinodal architecting and in situ fibrillation of thermoplastic polyurethane-silica on nanostructured cellulose nanofiber scaffold for enhanced thermomechanical performance

Omranpour, Hosseinali; Monfared, Ali Reza; Buahom, Piyapong; **Omranpour Shahreza, Babak**; Salehi, Amirmehdi; Rahmati, Reza; Park, Chul B. ACS applied materials and interfaces 2024 / p. 57981–57994 : ill <https://doi.org/10.1021/acsomega.4c14503> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CaCl₂, bisoxazoline, and malonate : a protocol for an asymmetric Michael reaction

Lippur, Kristin; Kaabel, Sandra; Järving, Ivar; Rissanen, Kari; Kanger, Tõnis Journal of organic chemistry 2015 / p. 6336-6341 : ill <https://doi.org/10.1021/acs.joc.5b00769> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Capillary electrophoresis sensitivity enhancement based on adaptive moving average method

Drevinskas, Tomas; Telksnys, Laimutis; Maruška, Audrius; Gorbatošova, Jelena; Kaljurand, Mihkel Analytical chemistry 2018 / p. 6773–6780 : ill <https://doi.org/10.1021/acs.analchem.8b00664> 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; Triikkel, 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

Characterization of ash melting of reed and wheat straw blend

Link, Siim; Yrjas, Patrik; Lindberg, Daniel; Triikkel, 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 bitter off-taste stimuli in sunflower press cake using the sensomics approach

Huseynli, Lachinkhanim; Gigl, Michael; Müller, Jasmin; Walser, Christoph; Frank, Oliver; Vene, Kristel; Dawid, Corinna Journal of agricultural and food chemistry 2025 / p. 23548-23559 <https://doi.org/10.1021/acs.jafc.5c07283>

Characterization of protein kinase ULK3 regulation by phosphorylation and inhibition by small molecule SU6668

Kasak, Lagle; Näks, Mihkel; Eek, Priit; Piirsoo, Alla; Bhadoria, Rohit; Starkov, Pavel; Saarma, Merilin; Kasvandik, Sergo; Piirsoo, Marko Biochemistry 2018 / p. 5456–5465 <https://doi.org/10.1021/acs.biochem.8b00356> 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; Hartlmüller, 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

Characterization of Uranyl (UO₂²⁺) ion binding to Amyloid Beta (Aβ) peptides : effects on Aβ structure and aggregation

Berntsson, Elina; Vosough, Faraz; Noormägi, Andra; Padari, Kärt; Asplund, Fanny; Gielnik, Maciej; Paul, Suman; Jarvet, Jüri; Tõugu, Vello; Palumaa, Peep ACS chemical neuroscience 2023 / p. 2618-2633 : ill <https://doi.org/10.1021/acscchemneuro.3c00130> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 <https://doi.org/10.1021/acs.orglett.3c02621> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Chiral recognition by supramolecular porphyrin-hemicucurbit[8]uril-functionalized gravimetric sensors

Magna, Gabriele; Šakarašvili, Marko; Stefanelli, Manuela; Giancane, Gabriele; Bettini, Simona; Valli, Ludovico; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina; Monti, Donato; Di Natale, Corrado; Paolesse, Roberto ACS applied materials and interfaces 2023 / p. 30674–30683 <https://doi.org/10.1021/acsaami.3c05177> 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

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.; Stivrínš, 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

Co-hydrothermal liquefaction of lignocellulosic biomass with kukersite oil shale

Akalin, Ece; Kim, Young-Min; Alper, Koray; Oja, Vahur Energy & fuels 2019 / p. 7424-7435 : ill <https://doi.org/10.1021/acs.energyfuels.9b01473> 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](#)

Correlation queries for mass spectrometry imaging

Suits, Frank; Fehniger, Thomas Edward; Végvári, Ákos; Marko-Varga, György; Horvatovich, Peter Analytical Chemistry 2013 / p. 4398 - 4404 <https://doi.org/10.1021/ac303658t> [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 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](#)

Detailed insight into the CZTS/CdS interface modification by air annealing in monograin layer solar cells

Kauk-Kuusik, Marit; Timmo, Kristi; Muska, Katri; Pilvet, Maris; Krustok, Jüri; Josepson, Raavo; Brammertz, Guy; Vermang, Bart; Danilson, Mati; Grossberg, Maarja ACS Applied Energy Materials 2021 / p. 12374–12382 <https://doi.org/10.1021/acsaem.1c02186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Developing Analytical Applications for Parahydrogen Hyperpolarization : Urinary Elimination Pharmacokinetics of Nicotine

Reimets, Nele; Ausmees, Kerti; Vija, Sirje; Reile, Indrek Analytical chemistry 2021 / p. 9480-9485 : ill <https://doi.org/10.1021/acs.analchem.1c01281>

Developing mineral foam blocks from oil shale byproducts through accelerated carbonation

Thomas, Adheena; Yörük, Can Rüstü; Usta, Mustafa Cem; Pantšenko, Nata-Ly; Hain, Tiina; Uibu, Mai; Trikkel, Andres ACS omega 2025 / p. 47051-47064 <https://doi.org/10.1021/acsomega.5c05438>

Development of potent microtubule targeting agent by structural simplification of natural diazonamide

Kalnins, Toms; Vitkovska, V.; Kazak, M.; Zelencova-Gopejenko, D.; Ozola, M.; Narvaiss, N.; Makrecka-Kuka, M.; Domračeva, I.; Konrad, Nele; Aav, Riina Journal of medicinal chemistry 2024 / p. 9227-9259 <https://doi.org/10.1021/acs.jmedchem.4c00388> [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

Tiitih, 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](#)

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 access to histone deacetylase inhibitory cyclopeptides via a late-stage cyclopropane ring Cleavage strategy. Short synthesis of Chlamydocin

Elek, Gabor Zoltan; Koppel, Kaur; Zubryski, Dzmitry M.; Konrad, Nele; Järving, Ivar; Lopp, Margus; Kananovich, Dzmitry Organic letters 2019 / p. 8473-8478 : ill <https://doi.org/10.1021/acs.orglett.9b03305> [Journal metrics 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](#)

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 one-pot synthesis of α,β -epoxy ketones via aerobic oxidation of cyclopropanols

Elek, Gabor Zoltan; Borovkov, Victor; Lopp, Margus; Kananovich, Dzmitry Organic letters 2017 / p. 3544-3547 : ill
<https://doi.org/10.1021/acs.orglett.7b01519> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to electrophiles

Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus 248th ACS National Meeting and Exposition : August 10-14, 2014, San Francisco, CA : Chemistry and Global Stewardship 2014 / [1] p. : ill

Enantioselective organocatalytic Michael addition to unsaturated indolyl ketones

Trubitsin, Dmitri; Martõnova, Jevgenija; Kudrjašova, Marina; Erkman, Kristin; Järving, Ivar; Kanger, Tõnis Organic letters 2021 / p. 1820-1824 <https://doi.org/10.1021/acs.orglett.1c00222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enzymatic synthesis and polymerization of isosorbide-based monomethacrylates for high-Tg 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](#)

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

Buccolieri, Alessandro; Hasan, Mohammed; Bettini, Simona; Borovkov, Victor Analytical chemistry 2018 / p. 6952-6958 : ill
<https://doi.org/10.1021/acs.analchem.8b01230> [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; Rezeli, 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](#)

A fish perspective : detecting flow features while moving using an artificial lateral line in steady and unsteady flow

Chambers, Lily D.; Ježov, Jaas; Kruusmaa, Maarja Journal of the Royal Society Interface 2014 / p. 1-13 : ill
<https://doi.org/10.1098/rsif.2014.0467> [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

Brancaccio, 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](#)

Formulation and aerosol jet printing of nickel nanoparticle ink for high-temperature microelectronic applications and patterned graphene growth

McKibben, Nicholas; Curtis, Michael; Maryon, Olivia; Sawyer, Mone't; Lazouskaya, Maryna; Eixenberger, Josh; Deng, Zhangxian; Estrada, David ACS Applied Electronic Materials 2024 / p. 748 - 760 <https://doi.org/10.1021/acsaem.3c01175> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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; Krunk, 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](#)

Functionalization of CO₂-Derived Carbon Support as a Pathway to Enhancing the Oxygen Reduction Reaction Performance of Pt Electrocatalysts

Najafli, Erkin; Ratso, Sander; Foroozan, Amir; Noor, Navid; Higgins, Drew C.; Kruusenberg, Ivar Energy & fuels 2024 / p. 15601-15610 : ill <https://doi.org/10.1021/acs.energyfuels.4c02407>

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

Tihti, 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](#)

Functionally graded tunable microwave absorber with graphene-augmented alumina nanofibers

Shamshirgar, Ali Saffar; Rojas Hernandez, Rocio Estefania; Tewari, Girish C.; Fernandez, Jose Francisco; Ivanov, Roman; Karppinen, Maarit; Hussainova, Irina ACS applied materials & interfaces 2021 / p. 21613-21625
<https://doi.org/10.1021/acsaami.1c02899> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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, Päärn; Vlassov, Sergei; Kook, Mati; Rahn, 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](#)

GeTe₂ phase change material for terahertz devices with reconfigurable functionalities using optical activation

Konnikova, Maria R.; Khomenko, Maxim D.; Tverjanovich, Andrey S.; **Bereznev, Sergei**; Mankova, Anna A.; Parashchuk, Olga D.; Vasilevsky, Ivan S.; Ozheredov, Ilya A.; Shkurinov, Alexander P.; Bychkov, Eugene A. ACS applied materials & interfaces 2023 / p. 9638–9648 <https://doi.org/10.1021/acsaem.9b02039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Graphene-augmented nanofiber scaffolds trigger gene expression switching of four cancer cell types

Kazantseva, Jekaterina; **Ivanov, Roman**; Gasik, Michael; Neuman, Toomas; **Hussainova, Irina** ACS biomaterials science & engineering 2018 / p. 1622–1629 : ill <https://doi.org/10.1021/acsbomaterials.8b00228> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A Guide to biodetection in droplets

Bartkova, Simona; Zapotoczna, Marta; **Sanka, Immanuel**; **Scheler, Ott** Analytical chemistry 2024 / p. 9745–9755 <https://doi.org/10.1021/acs.analchem.3c04282> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Halo-1,2,3-triazolium salts as halogen bond donors for the activation of imines in dihydropyridinone synthesis

Kaasik, Mikko; **Metsala, Andrus**; **Kaabel, Sandra**; **Kriis, Kadri**; **Järving, Ivar**; **Kanger, Tõnis** Journal of organic chemistry 2019 / p. 4294–4303 : ill <https://doi.org/10.1021/acs.joc.9b00248> [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, Alexander; 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-Kyyny, 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](#)

Identification of active sites for oxygen reduction reaction on nitrogen- and sulfur-codoped carbon catalysts

Villemson, Karl Markus; **Kaare, Kätlin**; Raudsepp, Ragle; Käambre, Tanel; Šmits, Krišjānis; Wang, Pangpang; Kuzmin, Anton V.; Šutka, Andris; Shaiyana, Bagrat A.; Kruusenberg, Ivar Journal of physical chemistry C 2019 / p. 16065–16074 <https://doi.org/10.1021/acs.jpcc.9b00117>

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

Saar-Reismaa, Piret; Erme, Enn; **Vaher, Merike**; Kulp, Maria; Kaljurand, Mihkel; **Mazina-Šinkar, Jekaterina** Analytical chemistry 2018 / p. 6253–6258 : ill <https://doi.org/10.1021/acs.analchem.8b00911> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In vivo assessment of a triple periodic minimal surface based biomimetic gyroid as an implant material in a rabbit tibia model

Khan, Pearlin Amaan; Raheem, Ansheed A.; Kalirajan, Cheirnadurai; **Prashanth, Konda Gokuldoss**; Manivasagam, Geetha ACS Materials Au 2024 / p. 479–488 : ill <https://doi.org/10.1021/acsmaterialsau.4c00016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of A-Site Deficiency and Ca Concentration on the Electrical and Crystallographic Properties of (Nd_{0.2}Sr_{0.7-x}Cax)YTi_{0.95}Fe_{0.05}O_{3-δ}-Based Fuel Electrode for Solid Oxide Cells

Paydar, Sara; Kooser, Kuno; **Volobujeva, Olga**; Granroth, Sari; Nurk, Gunnar ACS Applied Energy Materials 2024 / p. 5745–5754 <https://doi.org/10.1021/acsaem.4c00824> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of the interface on the photoluminescence properties in ZnO carbon-based nanohybrids

Rauwel, Erwan; Galeckas, Augustinas; Rosario Soares, M.; **Rauwel, Protima** Journal of physical chemistry C 2017 / p. 14879–14887 : ill <https://doi.org/10.1021/acs.jpcc.7b03070> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interplay of monosaccharide configurations on the deacetylation with Candida Antarctica Lipase-m

Hunt, Kaarel Erik; **Miller, Annette**; **Liias, Kristin**; **Jarg, Tatsiana**; **Kriis, Kadri**; **Kanger, Tõnis** Journal of organic chemistry 2025 / p. 663–671 <https://doi.org/10.1021/acs.joc.4c02582>

Introducing interlayer electrolytes : toward room-temperature high-potential solid-state rechargeable fluoride ion batteries

Mohammad, Irshad; **Witter, Raiker**; **Fichtner, Maximilian**; **Reddy, M. Anji** ACS Applied Energy Materials 2019 / p. 1553–1562 : ill

<https://doi.org/10.1021/acsaem.8b02166> [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](#)

Ionic liquids for silica modification : assessment by capillary zone electrophoresis

Borissova, Maria; Koel, Mihkel; Kaljurand, Mihkel Ionic liquids. IV, Not just solvents anymore 2007 / p. 35-46 : ill

Iron triad-based bimetallic M-N-C nanomaterials as highly active bifunctional oxygen electrocatalysts

Alam, Mahboob; Ping, Kefeng; Danilson, Mati; Mikli, Valdek; Käärrik, Maike; Leis, Jaan; Aruväli, Jaan; Paiste, Päärn; Rähn, Mihkel; Sammelselg, Väino; Tammesveski, Kaido; Haller, Steffen; Kramm, Ulrike Ingrid; **Starkov, Pavel;** Kongi, Nadezda ACS Applied Energy Materials 2024 / p. 4076 - 4087 <https://doi.org/10.1021/acsaem.4c00366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kinetic Modeling of Deep Oxidative Desulfurization over Functionalized UiO-66 from a Model Fuel Using Complex Reaction Theory

Barghi, Bijan; Möistlik, Tanel; Panov, Deniss; Raag, Anastassia; Järvik, Oliver; Niidu, Allan ACS Omega 2025 / p. 15947-15958 <https://doi.org/10.1021/acsomega.4c06722>

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](#)

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](#)

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](#)

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](#)

Modular synthesis of (Borylmethyl)silanes through orthogonal functionalization of a carbon atom

Chowdhury, Rajdip; **Elek, Gábor Zoltán;** Meana-Baamonde, B.; Mendoza, Abraham Organic letters 2023 / p. 1935-1940 : ill <https://doi.org/10.1021/acs.orglett.3c00474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecular weight distributions and average molecular weights of pyrolysis oils from oil shales : literature data and measurements by size exclusion chromatography (SEC) and atmospheric solids analysis probe mass spectroscopy (ASAP MS) for oils from four different deposits

Järvik, Oliver; Oja, Vahur Energy & fuels 2017 / p. 328-339 : ill <https://doi.org/10.1021/acs.energyfuels.6b02452> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecular weight parameters of oil shale pyrolysis products

Oja, Vahur 246th ACS National Meeting and Exposition, September 8-12, 2013, Indianapolis, Indiana : [book of abstracts] 2013 / [1] p

Molecular weight parameters of oil shale pyrolysis products

Oja, Vahur Energy & Fuels Preprints : presented at the 246th ACS National Meeting & Exhibition 2013 2013 / p. 656-657

Molecularly imprinted polymer integrated with a Surface Acoustic Wave technique for detection of sulfamethizole

Ayankojo, Akinrinade George; Tretjakov, Aleksei; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Rappich, Jörg; Furchner, Andreas; Hinrichs, Karsten; **Sõritski, Vitali** Analytical chemistry 2016 / p. 1476-1484 : ill <https://doi.org/10.1021/acs.analchem.5b04735> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multifunctional catalysts in the asymmetric Mannich reaction of malononitrile with N-Phosphinoylimines : coactivation by halogen bonding versus hydrogen bonding

Kriis, Kadri; Martõnov, Harry; Miller, Annette; Erkman, Kristin; Järving, Ivar; Kaasik, Mikk; Kanger, Tõnis The journal of organic chemistry 2022 / p. 7422-7435 : ill <https://doi.org/10.1021/acs.joc.2c00674> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nanoparticulate dielectric overlayer for enhanced electric fields in a capacitive deionization device

Laxman, Karthik; Kimoto, Daiki; **Sahakyan, Armen**; Dutta, Joydeep ACS applied materials and interfaces 2018 / 8 p. : ill. <https://doi.org/10.1021/acsami.7b16540> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nanostructured fluorite-type fluorides as electrolytes for fluoride ion batteries

Rongeat, Carine; Reddy, M. Anji; **Witter, Raiker**; Fichtner, Maximilian Journal of Physical Chemistry C 2013 / p. 4943 - 4950 <https://doi.org/10.1021/jp3117825> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New chiral cyclohexylhemicucurbit[6]uril

Aav, Riina; Shmatova, Elena; Reile, Indrek; **Borissova, Maria**; Topic, Filip; Rissanen, Kari Organic letters 2013 / p. 3786-3789 : ill <https://doi.org/10.1021/ol401766a> [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 CO₂

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](#)

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

Ivanova, Larisa; Rausalu, Kai; **Ošeka, 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](#)

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](#)

Optimization of La_{0.2}Sr_{0.7}-xCa xTi_{0.95}Fe_{0.05}O₃-δ fuel electrode stoichiometry for solid oxide fuel-cell application

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga**; Granroth, Sari; Lust, Enn; Nurk, Gunnar ACS Applied Energy Materials 2022 / p. 10119 - 10129 <https://doi.org/10.1021/acsaem.2c01808> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phase transformations in porous materials studied by in situ solid-state NMR spectroscopy and in situ X-ray diffraction

Paula, Carolin; Wissner, Dorothea; Rangus, Mojca; **Vanatalu, Kalju**; **Oss, Andres**; **Org, Mai-Liis**; **Samoson, Ago**; Hartmann, M. The journal of physical chemistry C 2020 / p. 19136–19145 : ill <https://doi.org/10.1021/acs.jpcc.0c05921> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photoreflectance and photoluminescence study of antimony selenide crystals

Kondrotas, Rokas; Nedzinskas, Ramunas; **Krustok, Jüri**; **Grossberg-Kuusk, Maarja**; Talaikis, Martynas; Tumėnas, Saulius; Suchodolskis, Arturas; Žaltauskas, Raimundas; Sereika, Raimundas ACS Applied Energy Materials 2022 / p. 14769-14778 <https://doi.org/10.1021/acsaem.2c02131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at Scopus](#)

Physicochemical Properties Predict Retention of Antibiotics in Water-in-Oil Droplets

Ruszczak, Artur; Jankowski, Pawel; Vasantham, Shreyas K.; **Scheler, Ott**; Garstecki, Piotr Analytical chemistry 2023 / p. 1574–1581 : ill <https://doi.org/10.1021/acs.analchem.2c04644> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials

Laanesoo, Siim; Bonjour, Olivier; **Parve, Jaan**; **Parve, Omar**; Matt, Livia; Vares, Lauri; Jannasch, Patric Biomacromolecules 2021 / p. 640-648 <https://doi.org/10.1021/acs.biomac.0c01474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Postdeposition processing of SnS thin films and solar cells : prospective strategy to obtain large, sintered, and doped SnS grains by recrystallization in the presence of a metal halide flux

Spalatu, Nicolae; Hiie, Jaan; Kaupmees, Reelika; **Volobujeva, Olga**; **Krustok, Jüri**; **Oja Acik, Ilona**; **Krunks, Malle** ACS applied materials & interfaces 2019 / p. 17539–17554 : ill <https://doi.org/10.1021/acsami.9b03213> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Prediction of flue gas composition and comparative overall process evaluation for air and oxyfuel combustion of Estonian oil shale, using aspen plus process simulation

Yörük, Can Rüstü; Trikkel, Andres; Kuusik, Rein, keemik Energy & fuels 2016 / p. 5893-5900 : ill

<https://doi.org/10.1021/acs.energyfuels.6b00022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Process optimization for catalytic oxidation of dibenzothiophene over UiO-66-NH₂ 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](#)

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](#)

Reaction mechanism in mixtures of apatite and additional minerals with phosphoric acid at heating

Veiderma, Mihkel; Põldme, Meeme; Põldme, Juta; Tõnsuaadu, Kaia International Conference on Phosphorus Chemistry at Duke University, Durham, North Carolina, June 1-5, 1981 : abstracts 1981 / p. [?]

Reduced state of iridium PCP pincer complexes in electrochemical CO₂ 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](#)

Remote activation of the nucleophilicity of isatin

Žari, Sergei; Kudrjašova, Marina; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis Organic letters 2014 / p. 1740-1743 : ill

<https://doi.org/10.1021/ol500421k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Saturn-shaped ice burst pattern and fast basal binding of an ice-binding protein from an Antarctic bacterial consortium

Kaleda, Aleksei; Haleva, Lotem; Sarusi, Guy Langmuir 2019 / p. 7337-7346 : ill <https://doi.org/10.1021/acs.langmuir.8b01914> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sb₂S₃ thin-film solar cells fabricated from an antimony ethyl xanthate based precursor in air

Eensalu, Jako Siim; Mandati, Sreekanth; Don, Christopher H.; Finch, Harry; Dhanak, Vinod R.; Major, Jonathan D.; Grzibovskis,

Raitis; Tamm, Aile; Ritslaid, Peeter; **Josepson, Raavo;** Käämbre, Tanel; Vembris, Aivars; **Spalatu, Nicolae; Krunks, Malle; Oja**

Acik, Ilona ACS applied materials & interfaces 2023 / p. 42622-42636 <https://doi.org/10.1021/acsami.3c08547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective acetylation of unprotected thioglycosides and fully unprotected monosaccharides with Candida antarctica lipase-B

Hunt, Kaarel Erik; Miller, Annette; Jarg, Tatsiana; Kriis, Kadri; Kanger, Tonis ACS omega 2025 / p. 20047-20053

<https://doi.org/10.1021/acsomega.5c02467>

Selectively enhanced 1H-1H correlations in proton-detected solid-state NMR under ultrafast MAS conditions

Zhang, Zhengfeng; **Oss, Andres; Org, Mai-Liis; Samoson, Ago;** Li, Mingyue; Tan, Huan; Su, Yongchao; Yang, Jun The journal of

physical chemistry letters 2020 / p. 8077–8083 : ill <https://doi.org/10.1021/acs.jpclett.0c02412> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SET-LRP of bio- and petroleum-sourced methacrylates in aqueous alcoholic mixtures

Moreno, Adrian; Bensabeh, Nabil; **Parve, Jaan;** Ronda, Juan C.; Cádiz, Virginia; Galià, Marina; Vares, Lauri; Lligadas, Gerard;

Percec, Virgil Biomacromolecules 2019 / p. 1816 - 1827 <https://doi.org/10.1021/acs.biomac.9b00257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Ermolovich, Yuri; Barysevich, Maryia V.; Adamson, Jasper; Rogova, Oksana; **Kaabel, Sandra; Järving, Ivar; Gathergood,**

Nicholas; Kananovich, Dzmitry Organic letters 2019 / p. 969-973 : ill <https://doi.org/10.1021/acs.orglett.8b03955> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid electrolytes for fluoride ion batteries : ionic conductivity in polycrystalline tysonite-type fluorides

Rongeat, Carine; Reddy, M. Anji; **Witter, Raiker;** Fichtner, Maximilian ACS applied materials and interfaces ACS applied materials &

interfaces 2014 / p. 2103-2110 : ill <https://doi.org/10.1021/am4052188> [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](#)

Stereodivergent assembly of 2,6-cis- and -trans-tetrahydropyrans via base-mediated oxa-michael cyclization : the key role of the TMEDA additive

Masiuk, Uladzimir; Faletrov, Yaroslav; **Kananovich, Dzmitry;** Mineyeva, Iryna The journal of organic chemistry 2023 / p. 355-370 <https://doi.org/10.1021/acs.joc.2c02382> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stereospecific synthesis of cyclic sulfite esters with sulfur-centered chirality via diastereoselective strategy and intramolecular H-Bonding assistance

Hu, Xiaoyun; Yin, Zhongyou; Guo, Jianxin; Adamson, Jasper; Fujiki, Michiya; **Borovkov, Victor** Journal of Organic Chemistry 2021 / p. 379 - 387 <https://doi.org/10.1021/acs.joc.0c02147> [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](#)

Surface-active thermally responsive hydrogels by emulsion sedimentation for smart window applications

Timusk, Martin; Locs, Janis; Kangur, Triin; Kasikov, Aarne; **Kurnitski, Jarek;** Šutka, Andris ACS applied polymer materials 2023 / p. 5937-5950 : ill <https://doi.org/10.1021/acsapm.3c00600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sustainable co2-derived nanoscale carbon support to a platinum catalyst for oxygen reduction reaction

Najafli, Erkin; Ratso, Sander; Ivanov, Yuri P.; Gatalo, Matija; Pavko, Luka; **Yörük, Can Rüstü; Walke, Peter;** Divitini, Giorgio; Hodnik, Nejc; Kruusenberg, Ivar ACS Applied Nano Materials 2023 / p. 5772-5780 : ill <https://doi.org/10.1021/acsanm.3c00208> [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 metrics at WOS](#) [Article at WOS](#)

Synthesis control of charge separation at anatase TiO2 thin films studied by transient surface photovoltage spectroscopy

Dittrich, Thomas; **Sydorenko, Jekaterina; Spalatu, Nicolae;** Nickel, Norbert H.; **Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** ACS applied materials & interfaces 2022 / p. 43163-43170 <https://doi.org/10.1021/acsami.2c09032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of fast fluoride-ion-conductive fluorite-type Ba1-xSbxF2+x (0.1 ≤ x ≤ 0.4) : a potential solid electrolyte for fluoride-ion batteries

Mohammad, Irshad; Chable, Johann; **Witter, Raiker;** Fichtner, Maximilian; Reddy, M. Anji ACS applied materials and interfaces ACS applied materials & interfaces 2018 / p. 17249-17256 : ill <https://doi.org/10.1021/acsami.8b04108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ZnO/TiO2/Sb2S3 core-shell nanowire heterostructure for extremely thin absorber solar cells

Parize, Romain; **Katerski, Atanas; Gromöko, Inga;** Rapenne, Laetitia; Roussel, Hervé; **Kärber, Erki;** Appert, Estelle; **Krunks, Malle;** Consonni, Vincent Journal of physical chemistry C 2017 / p. 9672-9680 : ill <https://doi.org/10.1021/acs.jpcc.7b00178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tailor-made supramolecular chirogenic system based on Cs-symmetric rigid organophosphoric acid host and amino alcohols : mechanistic studies, bulkiness effect, and chirality sensing

Hasan, Mohammed; Khose, Vaibhav N.; Pandey, Anita D.; **Borovkov, Victor;** Karnik, Anil V. Organic Letters 2016 / p. 440 - 443 <https://doi.org/10.1021/acs.orglett.5b03477> [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](#)

The template-assisted wet-combustion synthesis of fibrous nickel-based catalyst for carbon dioxide methanation and methane steam reforming

Aghayan, Marina; Potemkin, D. I.; Rubio-Marcos, Fernando; Uskov, S. I.; Snytnikov, N.; **Hussainova, Irina** ACS applied materials and interfaces ACS applied materials & interfaces 2017 / p. 43553-43562 : ill <https://doi.org/10.1021/acsami.7b08129> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Theoretical investigation of a parallel catalytic cycle in CO₂ hydrogenation by (PNP)IrH₃

Osadchuk, Irina; Tamm, Toomas; Ahlquist, Marten S. G. Organometallics 2015 / p. 4932-4940 : ill

<https://doi.org/10.1021/acs.organomet.5b00448> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Treatment of landfill leachate by Fenton-based process in batch reactor with ferric sludge reuse

Dulova, Niina; Kattel, Eneliis; Trapido, Marina Abstracts of papers of the American Chemical Society. Vol. 250 2015 / [1] p

Two catalytic methods of an asymmetric wittig [2,3]-rearrangement

Ošeka, Maksim; Kimm, Mariliis; Järving, Ivar; Lippur, Kristin; Kanger, Tõnis Journal of organic chemistry 2017 / p. 2889-2897 :

ill <https://doi.org/10.1021/acs.joc.6b02786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[2,3]-Wittig rearrangement as a formal asymmetric alkylation of α-branched ketones

Kimm, Mariliis; Ošeka, Maksim; Kaabel, Sandra; Metsala, Andrus; Järving, Ivar; Kanger, Tõnis Organic letters 2019 / p. 4976-

4980 <https://doi.org/10.1021/acs.orglett.9b01495> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Unusual defect-related room-temperature emission from WS₂ 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](#)

Use of ionic liquids in oil shale processing

Koel, Mihkel Ionic liquids IIIB : fundamentals, progress, challenges, and opportunities : transformations and processes 2005 / p. 72-82

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](#)

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

Allen, David T.; Carrier, D. Julie; Gong, Jinlong; Gathergood, Nicholas ACS sustainable chemistry & engineering 2019 / p. 1-2

<https://doi.org/10.1021/acssuschemeng.8b06549>