

Additive manufacturing of CoCrFeMnNi high-entropy alloy/AISI 316L stainless steel bimetallic structures

Sokkalingam, Rathinavelu; Chao, Zhao; Sivaprasad, Katakam; Muthupandi, Veerappan; Jayaraj, Jayamani; Ramasamy, Parthiban; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Advanced engineering materials 2023 / art. 2200341

<https://doi.org/10.1002/adem.202200341> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Annealing of frozen-in defects in ZnO

Nirk, Tiit; Lott, Kalju; Seeman, Viktor; Tünn, Leo; Viljus, Mart; Öpik, Andres Physica status solidi (c) 2016 / p. 590-593 : ill

<https://doi.org/10.1002/pssc.201510244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Asymmetric organocatalytic [2,3]-Wittig rearrangement of cyclohexanone derivatives

Kimm, Mariliis; Järving, Ivar; Ošeka, Maksim; Kanger, Tõnis European journal of organic chemistry 2021 / p. 3113–3120 : ill

<https://doi.org/10.1002/ejoc.202100435> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chemical purity of chemically sprayed thin films

Bijakina, Olga; Krunk, Malle; Mellikov, Enn EUROMAT 99. Volume 9, Interface controlled materials 2000 / p. 85-89

<https://onlinelibrary.wiley.com/doi/abs/10.1002/352760622X.ch14>

Chirogenesis in Zinc porphyrins : theoretical evaluation of electronic transitions, controlling structural factors and axial ligation

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

<https://doi.org/10.1002/cphc.202100345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions

Mohan, Mahendra Kothottil; Silenko, Oleg; Krasnou, Illia; Volobujeva, Olga; Kulp, Maria; Ošeka, Maksim; Lukk, Tiit;

Karpichev, Yevgen ChemSusChem 2024 / art. e202301588 <https://doi.org/10.1002/cssc.202301588>

Compensation of the baseline temperature fluctuations for autonomous CE–C4D instrument working in harsh environments

Drevinskas, Tomas; Telksnys, Laimutis; Maruška, Audrius; **Gorbatšova, Jelena**; **Kaljurand, Mihkel** Electrophoresis 2018 / p.

2877–2883 : ill <https://doi.org/10.1002/elps.201800132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Complex defects in ZnSe-based phosphors

Valdna, Vello; Durst, R.; Hiie, Jaan; Jones, L.; Kallavus, Urve Proc. Euromat '99. Vol. 13 2000 / p. 112-116

Control of p-type conductivity in CdTe by CdCl₂ vapor phase treatment

Hiie, Jaan; Valdna, Vello Proc. Euromat '99. Vol. 13 2000 / p. 261-266

Digital microfluidics platform for interfacing solid-liquid extraction column with portable capillary electropherograph for analysis of soil amino acids

Gorbatšova, Jelena; Jaanus, Martin; Vaher, Merike; **Kaljurand, Mihkel** Electrophoresis 2016 / p. 472-475 : ill

<https://doi.org/10.1002/elps.201500284> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Disordered lithium-rich oxyfluoride as a stable host for enhanced Li⁺ intercalation storage

Chen, Ruiyong; Ren, Shuhua; Knapp, Michael; Wang, Di; **Witter, Raiker**; Fichtner, Maximilian; Hahn, Horst Advanced energy

materials 2015 / p. 1-7 : ill <https://doi.org/10.1002/aenm.201401814> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of ultrasonic treatment on the defect structure of the Si-SiO₂ system

Kropman, Daniel; Seeman, Viktor; Dolgov, Sergei; Medvids, Arturs Physica Status Solidi (C) Current Topics in Solid State Physics

2016 / p. 793 - 797 <https://doi.org/10.1002/pssc.201600052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Electrochemical characterisation of Co@Co(OH)₂ core-shell nanoparticles and their aggregation in solution

Xie, Ruo-Chen; Batchelor-McAuley, Christopher; **Rauwel, Erwan**; Rauwel, Protima; Compton, Richard G. ChemElectroChem 2020 /

p. 4259 - 4268 <https://doi.org/10.1002/celec.202001199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemical hydroxylation of electron-rich arenes in continuous flow

Kooli, Anni; Wesenberg, Lars; Beslać, Marko; **Krech, Anastasiya**; **Lopp, Margus**; Noël, Timothy; **Ošeka, Maksim** European

journal of organic chemistry 2022 / art. e202200540 <https://doi.org/10.1002/ejoc.202200011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental studies of ZnS-based phosphors

Valdna, Vello; Durst, R.; **Mere, Arvo** Proc. Euromat '99. Vol. 13 2000 / p. 117-120

Fabrication, control and properties of nanocrystalline copper

Kommel, Lembit; Kübarsepp, Jakob; Veinthal, Renno; Traksmäa, Rainer Nano-architected and nanostructured materials : fabrication, control and properties 2004 / p. 27-37 : ill

Hydroxyapatite-based catalysts in organic synthesis

Gruselle, Michel; **Tõnsuaadu, Kaia**; Gredin, Patrick; Len, Christophe Design and applications of hydroxyapatite-based catalysts 2022 / chapter 10 <https://doi.org/10.1002/9783527830190.ch10>

Ligand-tailored divergence of copper-catalyzed aerobic oxidation of cyclopropanols

Zavalinich, Viktoriya A.; **Elek, Gabor Zoltan; Vailhe, Pauline**; Novikau, Ilya; Syakhovich, Vitaly; Kirillov, Alexander M.; **Lopp, Margus; Masiuk, Uladzimir; Kananovich, Dzmitry** Advanced synthesis & catalysis 2024 / p. 4485-4496
<https://doi.org/10.1002/adsc.202400490>

Mechanochemical nucleophilic substitution of alcohols via isouronium intermediates

Dalidovich, Tatsiana; Nallaparaju, Jagadeesh Varma; Shalima, Tatsiana; Aav, Riina; Kananovich, Dzmitry ChemSusChem 2022 / art. e202102286 <https://doi.org/10.1002/cssc.202102286> [Journal metrics at Scopus](#) [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](#)

Multiscale investigation of sodium-ion battery anodes: analytical techniques and applications

Schäfer, David; Hankins, Kie; Allion, Michelle; Krewer, Ulrike; Karcher, Franziska; Derr, Laurin; Schuster, Rolf; Maibach, Julia; Mück, Stefan; Kramer, Dominik; **Samoson, Ago; Witter, Raiker** Advanced energy materials 2024 / 37 p
<https://doi.org/10.1002/aenm.202302830>

Novel lipophilic fluorophores with highly acidity-dependent two-photon response

Rammo, Matt; Trummel, Aleksander; Uudsemaa, Merle; Pahapill, Jüri; Petritsenko, Katrin; Sildoja, Meelis-Mait; Stark, Charles William; Selberg, Sigrid; Leito, Ivo; Palmi, Kristi; Adamson, Jasper; Rebane, Aleksander Chemistry : a European journal 2022 / p. e202103707 <https://doi.org/10.1002/chem.202103707>

Optoelectronic properties of CdTe thin films

Valdna, Vello EUROMAT 99. Volume 9, Interface controlled materials 2000 / p. 90-95 : ill
<https://onlinelibrary.wiley.com/doi/abs/10.1002/352760622X.ch15>

A photochemical organocatalytic strategy for the α -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](#)

Photoelectric and photoluminescence properties of CdTe-GaTe composite

Caraman, Iuliana; **Spalatu, Nicolae**; Evtodiev, Igor; Untila, Dumitru; Leontie, Liviu; Caraman, Mihail Physica status solidi (b) 2016 / p. 2515-2522 : ill <https://doi.org/10.1002/pssb.201600485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Polypyrrole electrodeposition on inorganic semiconductors CuInSe₂ and CuInS₂ for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; **Kois, Julia; Mellikov, Enn; Öpik, Andres** Electronic Phenomena in Organic Solids : Prague, Czech Republic, July 14-18, 2002 2004 / p. 287-292 : ill

Ring-opening coupling reaction of cyclopropanols with electrophilic alkenes enabled by decatungstate as photoredox catalyst

Krech, Anastasiya; Yakimchyk, Viktoriya; Jarg, Tatsiana; Kananovich, Dzmitry; Ošek, Maksim Advanced synthesis & catalysis 2024 / p. 91-100 <https://doi.org/10.1002/adsc.202300939> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shortfall of B3LYP in reproducing NMR JCH couplings in some isomeric epoxy structures with strong stereoelectronic effects : a benchmark study on DFT functionals

Adamson, Jasper; Nazarski, Ryszard B.; Jarvet, Jüri; Pehk, Tõnis; **Aav, Riina** ChemPhysChem 2018 / p. 631-642 : ill
<https://doi.org/10.1002/cphc.201701125> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spent Li-ion battery graphite turned into valuable and active catalyst for electrochemical oxygen reduction

Liivand, Kerli; Kazemi, Maryam; **Walke, Peter; Mikli, Valdek**; Macdonald, Digby D.; Kruusenberg, Ivar ChemSusChem 2021 / p. 1103-1111 <https://doi.org/10.1002/cssc.202002742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stress relaxation mechanism by strain in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Seeman, Viktor; Dolgov, Sergei; Heinmaa, Ivo; Medvid, Artur Physica Status Solidi (C) Current Topics in Solid State Physics 2016 / p. 790 - 792 <https://doi.org/10.1002/pssc.201600051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A structurally flexible halide solid electrolyte with high ionic conductivity and air processability

Karkera, Guruprakash; Soans, Mervyn; Akbaş, Ayça; **Witter, Raiker**; Euchner, Holger; Diemant, Thomas; Cambaz, Musa Ali; Meng, Zhen; Dasari, Bosubabu; Chandrappa, Shivaraju Guddehalli; Menezes, Prashanth W.; Fichtner, Maximilian Advanced energy materials 2023 / art. 2300982 <https://doi.org/10.1002/aenm.202300982> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Subchronic oral and inhalation toxicities : a challenging attempt for modeling and prediction

Dobchev, Dimitar A.; Tulp, Indrek; **Karelson, Gunnar**; Tamm, Tarmo; Tamm, Kaido; **Karelson, Mati** Molecular informatics 2013 / p. 793-801 : ill <https://doi.org/10.1002/minf.201300033> [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](#)

The study of the fermentative growth of Saccharomyces cerevisiae S288C using auxo-accelerostat technique

Kasemets, Kaja; Nisamedtinov, Ildar; **Abner, Kristo**; Paalme, Toomas Modern multidisciplinary applied microbiology : exploiting microbes and their interactions 2006 / p. 756-760 : ill <https://doi.org/10.1002/9783527611904.ch135>

25-Propyloxy-26,27-dibenzoyloxy-calix[4]arene as precursor for the synthesis of inherently chiral calixarenes

Trybrat, Oleksandr; Yesypenko, Oleksandr; Shishkina, Svitlana; Rusanov, Eduard; **Karpichev, Yevgen**; **Kalchenko, Vitali** European Journal of Organic Chemistry 2021 / p. 3912-3919 <https://doi.org/10.1002/ejoc.202100624> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wear-resistant composite coatings, surface engineering

Kulu, Priit; **Zimakov, Sergei** Euromat '99. Vol. 11 2000 / p. 144-145

Vinyl phosphonates as photopharmacological agents : laser-induced cis-trans isomerization and butyrylcholinesterase activity

Bikbaeva, Gulia; Egorova, Anastasia; Sonin, Nikolai; Pilip, Anna; Kolesnikov, Ilya; Pankin, Dmitrii; **Boroznjak, Roman**; Manshina, Alina ChemPhotoChem 2023 / art. e202300131 <https://doi.org/10.1002/cptc.202300131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)