

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

Naseem, Taiba; Bibi, Fozia; Arif, Saira; Waseem, Muhammad Adnan; Haq, Sirajul; Azra, Mohamad Nor; **Liblik, Taavi**; Zekker, Ivar
Molecules 2022 / art. 7152, 16 p. : ill <https://doi.org/10.3390/molecules27217152> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ALD applied to conformal rare-earth coating of ZnO nanoparticles for low temperature thermal imaging applications

Rauwel, Erwan; Galeckas, Augustinas; Rauwel, Protima ECS transactions 2014 / p. 23-31 : ill <http://dx.doi.org/10.1149/06409.0023ecst>

Alleenoksiidi süntaas-lipoksügenaas liitvalgu rada on üldlevinud korallides

Löhelaid, Helike; Järving, Reet; Järving, Ivar; **Samel, Nigulas** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 84-85

Antibacterial and antiviral effects of Ag, Cu and Zn metals, respective nanoparticles and filter materials thereof against coronavirus SARS-CoV-2 and influenza A virus

Kubo, Anna-Liisa; Rausalu, Kai; Savest, Natalja; Žusinaite, Eva; Vasiliev, Grigory; **Viirsalu, Mihkel**; **Plamus, Tiia**; **Krumme, Andres**; Merits, Andres; Bondarenko, Olesja Pharmaceutics 2022 / art. 2549 : 19 p. : ill <https://doi.org/10.3390/pharmaceutics14122549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of thermal analysis in the preparation and characterization of super conducting YBa₂(Cu_{1-x}Crx)₄O₈ oxides

Nenartaviciene, G.; **Tõnsuaadu, Kaia**; Jasaitis, D.; Beganskiene, Aldona; Kareiva, Aivaras ESTAC 9 : 9th European Symposium on Thermal Analysis and Calorimetry : 27-31 August 2006, Krakow, Poland : [book of abstracts] 2006 / p. 255

Assessment of the hazard of nine (doped) lanthanides-based ceramic oxides to four aquatic species

Blinova, Irina; Vija, Heiki; Lukjanova, Aljona; **Muna, Marge**; Syvertsen-Wiig, Guttorm; Kahru, Anne Science of the total environment 2018 / p. 1171-1176 : ill <https://doi.org/10.1016/j.scitotenv.2017.08.274> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Calculations for XeOn (n=2-4) : could the xenon dioxide molecule exist?

Tamm, Toomas; Pyykkö, Pekka Journal of physical chemistry A 2000 / p. 3826-3828

Cleaning procedure for the screen-printed RuO₂ pH electrodes

Lazouskaya, Maryna; **Vetik, Iuliia**; Uppuluri, Kiranmai; Razmi, Nasrin; **Scheler, Ott** IEEE Sensors 2022 : Dallas, Texas, USA : 30 October 2022 - 02 November 2022 : Sensors 2022 conference proceedings 2022 / 4 p. : ill <https://doi.org/10.1109/SENSOR52175.2022.9967177> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Combined treatment of pharmaceutical effluents from medical ointment production

Kulik, Niina; **Trapido, Marina**; **Goi, Anna**; **Veressinina, Jelena**; **Munter, Rein** 2007 World Congress on Ozone and Ultraviolet Technologies : August 27-29, 2007, Los Angeles, California USA 2007 / p. Abs.61 <https://pubmed.ncbi.nlm.nih.gov/17897701/>

Deep-ultraviolet emitter : rare-earth-free ZnAl₂O₄ nanofibers via a simple wet chemical route

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Romet, Ivo; Del Campo, Adolfo; Gorni, Giulio; **Hussainova, Irina**; Fernandez, Jose Francisco; Nagirnyi, Vitali Inorganic Chemistry 2022 / p. 11886-11896 <https://doi.org/10.1021/acs.inorgchem.2c01646> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and technology of oxides-containing ceramic-based composites = Oksiide sisaldava komposiitkeraamika tehnoloogia

Voltšihhin, Nikolai 2014 https://www.ester.ee/record=b4438763*est

Determination of carcinoembryonic antigen as a tumor marker using a novel graphene-based label-free electrochemical immunosensor

Jozghorbani, Maryam; Fathi, Mojtaba; Kazemi, Sayed Habib; **Alinejadian, Navid** Analytical biochemistry 2021 / art. 114017 <https://doi.org/10.1016/j.ab.2020.114017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ecotoxicity of nanosized magnetite to crustacean Daphnia magna and duckweed Lemna minor

Blinova, Irina; **Kanarbik, Liina**; Irha, Natalja; Kahru, Anne Hydrobiologia 2017 / p. 141-149 : ill <https://doi.org/10.1007/s10750-015-2540-6>

Electrospinning of nanofibrous composites with cellulose acetate, ionic liquids and graphene oxide =

Tselluloosatsetaadi, ioonsete vedelike ja grafeenoksiidi nanokiuliste komposiitide elektroketrus

Javed, Kashif 2019 <https://digi.lib.ttu.ee/i/?12424>

Emission of sulphur dioxide by thermooxidation of Estonian oil shale and coal

Kaljuvee, Tiit; **Kuusik, Rein**, **keemik**; **Veiderma, Mihkel** Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 3, p. 199-208: ill

Faktikontroll : Grafeenoksiidi sisaldus vaktsiinides on ülemaailmse levikuga vale, mis ka Eestis vaibuda ei taha [Võrguväljaanne]

Raudsik, Heliis epl.delfi.ee 2022 "[FAKTIKONTROLL | Grafeenoksiidi sisaldus vaktsiinides on ülemaailmse levikuga vale, mis ka Eestis vaibuda ei taha](#)."

Hierarchical nanostructures of ZnO obtained by spray pyrolysis

Dedova, Tatjana; Krunks, Malle; Oja Acik, Ilona; Klauson, Deniss; Volobujeva, Olga; Mere, Arvo Materials chemistry and physics 2013 / p. 69-75 : ill

High temperature behavior of NiO-based oxygen carriers for chemical looping combustion

Kuusik, Rein, keemik; Triikkel, Andres; Lyngfelt, Anders; Mattisson, Tobias Energy procedia 2009 / p. 3885-3892 : ill

Homogeneous deposition of copper oxide on mesoporous 1D alumina nanofibres by combustion approach

Kirakosyan, Khachatur; Aghayan, Marina; Rodriguez, Miguel Angel; **Taleb, Masoud; Hussainova, Irina** Proceedings of the Estonian Academy of Sciences 2016 / p. 97-100 : ill https://artiklid.elnet.ee/record=b2768206*est

Hot and cold regions during accumulative roll bonding of Al/Al₂O₃ nanofibre composites

Pramono, Agus; Kollo, Lauri; Veinthal, Renno Proceedings of the Estonian Academy of Sciences 2016 / p. 132-137 : ill https://artiklid.elnet.ee/record=b2768216*est

Influence of electrolyte scaffold microstructure and loading of MIEC material on the electrochemical performance of RSOC fuel electrode

Maide, Martin; Lillmaa, Kadi; Salvan, Laur Kristjan; Möller, Priit; Uibu, Mai; Lust, Enn; Nurk, Gunnar Fuel Cells 2018 / p. 789-799 <https://doi.org/10.1002/fuce.201800087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of Ni concentration on electrochemical and crystallographic properties of La_{0.25}Sr_{0.25}Ca_{0.4}Ti_{1-x}Ni_xO_{3-δ} solid oxide fuel cell anode

Korjus, Ove; Möller, Priit; Kooser, Kuno; Käämbre, Tanel; Volobujeva, Olga; Nerut, Jaak; Kotkas, S.; Lust, Enn; Nurk, Gunnar Journal of Power Sources 2021 / Art. n.r 229739 <https://doi.org/10.1016/j.jpowsour.2021.229739> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of soft modes in the local dynamics of defects (SrTiO₃)

Kristoffel, Nikolai; Klopov, Mihhail Physica status solidi. B, Basic solid state physics 1989 / p. K119-K121 https://www.ester.ee/record=b1198778*est

Influence of temperature on the performance of Nafion coated RuO₂ based pH electrodes

Uppuluri, Kiranmai; Lazouskaya, Maryna; Szwagierczak, Dorota; Zaraska, Krzysztof 2021 IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS), Manchester, United Kingdom 2021 / 4 p <https://doi.org/10.1109/FLEPS51544.2021.9469758>

Interaction of fungus with titanium oxide surface

Binauskiene, E.; Lugauskas, Albinas; Krunks, Malle; Oja Acik, Ilona; Jasulaitiene, Vitalija; Šaduikis, G. 9th National Lithuanian Conference : Vilnius, October 16, 2009 2009 / p. 88

K₂CO₃-containing composite sorbents based on a ZrO₂ aerogel for reversible CO₂ 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](#)

Magnetic properties of functional oxides = Funktsionaalsete oksiidide magnetilised omadused

Khanduri, Himani 2013 https://www.ester.ee/record=b2954989*est

Molekulide XeOn (n=2-4) arvutused : kas ksenoonidioksiidi molekul võiks eksisteerida? = Calculations for XeOn (n=2-4): could the xenon dioxide molecule exist?

Tamm, Toomas; Pyykkö, P. XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 166

Nafion as a protective membrane for screen-printed pH-sensitive ruthenium oxide electrodes

Lazouskaya, Maryna; Tamm, Martti; Scheler, Ott; Uppuluri, Kiranmai; Zaraska, Krzysztof 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276822>

Nickel oxide films by chemical spray : effect of deposition temperature and solvent type on structural, optical, and surface properties

Chen, Zengjun; Dedova, Tatjana; Oja Acik, Ilona; Danilson, Mati; Krunks, Malle Applied surface science 2021 / art. 149118 <https://doi.org/10.1016/j.apsusc.2021.149118> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NiO reduction by Mg plus C combined reducer at high heating rates

Zakaryan, Marieta; Nazaretyan, K.T.; **Aydinyan, Sofiya**; Kharatyan, Suren Journal of thermal analysis and calorimetry 2021 / p. 1811-1817 : ill <https://doi.org/10.1007/s10973-020-10148-5> [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](#)

Relations between metal ion characteristics and adsorption performance of graphene oxide: A comprehensive experimental and theoretical study

Kong, Qiaoping; **Preis, Sergei**; Li, Leli; Luo, Pei; Wei, Cong; Li, Zemin; Hu, Yun; Wei, Chaohai Separation and purification technology 2020 / art. 115956 : 8 p. : ill <https://doi.org/10.1016/j.seppur.2019.115956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases

Wang, Zhi; **Prashanth, Konda Gokuldoss**; Zhang, W.W. Powder technology 2019 / p. 733-737 : ill <https://doi.org/10.1016/j.powtec.2018.11.093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Research of the possibility of producing finely divided materials from natural raw materials for reactive powder concretes by mechanochemistry

Abramov, M.A.; Stepanov, E.G.; **Goljandin, Dmitri**; Dobrokhotoy, V.B. Journal of physics : conference series 2019 / art. 012023, 5 p. : ill <https://doi.org/10.1088/1757-899X/666/1/012023> [Conference proceedings at Scopus](#) [Article at Scopus](#)

RUO₂-Nafion electrodes for pH measurement in milk

Lazouskaya, Maryna; **Scheler, Ott**; Uppuluri, Kiranmai; Zaraska, Krzysztof; Tamm, Martti 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 131

Solution combustion synthesis of MnFeCoNiCu and (MnFeCoNiCu)₃O₄ high entropy materials and sintering thereof

Aydinyan, Sofiya; Kirakosyan, Hasmik; Sargsyan, Armen; **Volobujeva, Olga**; Kharatyan, Suren Ceramics International 2022 / p. 20294-20305 : ill <https://doi.org/10.1016/j.ceramint.2022.03.310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spectral interferences in argon plasma on elemental analysis of rare earth elements oxides by ICP-AES

Paama, L.; Perämäki, P.; Pärnoja, E. 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 103

Spectroscopic and phase-stabilisation properties of pure and rare-earth ions activated ZrO₂ and HfO₂

Lange, Sven 2010 https://www.ester.ee/record=b2592707*est

Spektraalsed häired argoonplasma haruldaste muldmetallide oksiidide analüüsil ICP-AES meetodil

Paama, L.; Perämäki, P.; Pärnoja, E. XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 94

Structural and electrical characterisation of high-k ZrO₂ thin films deposited by chemical spray pyrolysis method

Oluwabi, Abayomi Titilope; **Acik, Ilona Oja**; **Katerski, Atanas**; **Mere, Arvo**; **Krunks, Malle** Thin Solid Films 2018 / p. 129 - 136 <https://doi.org/10.1016/j.tsf.2018.07.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Study of oxygen vacancy dynamics in Sc-doped ceria with NMR techniques = Hapniku vakantsi dünaamika uurimine Sc-lisandiga tseeriumdioksiidis TMR abil

Pöder, Reio 2015 https://www.ester.ee/record=b4494538*est

The antisymmetric stretching frequency of BO₂

Lomp, Peeter-Egil; Stepanov, N.; Simkin, V.; Dementjev, A. Eesti NSV Teaduste Akadeemia toimetised. Keemia = Proceedings of Academy of Sciences of the Estonian SSR. Chemistry = Известия Академии наук Эстонской ССР. Химия 1985 / lk. 231-234 https://www.ester.ee/record=b1264984*est <https://www.etera.ee/zoom/19206/view?page=1&p=separate&tool=info>

Изучение действия катализаторов при реакции хлорокиси фосфора с фенолом

Raudsepp, Hugo; **Piiraja, Eduard** Сборник статей по химии и технологии горючего сланца. 4 1958 / с. 183-206 : илл https://www.ester.ee/record=b2181270*est <https://digikogu.taltech.ee/et/Item/9e663eaf-55f5-4ab2-9ec1-85514c07981d>

Изучение механизма и кинетика реакции хлорокиси фосфора с фенолом

Raudsepp, Hugo; **Piiraja, Eduard** Сборник статей по химии и технологии горючего сланца. 4 1958 / с. 166-182 : илл https://www.ester.ee/record=b2181270*est <https://digikogu.taltech.ee/et/Item/9e663eaf-55f5-4ab2-9ec1-85514c07981d>

Изучение механизма и кинетики реакции резорцина с фенилоксифосфорилдихлоридом

Piiraja, Eduard; Raudsepp, Hugo Сборник статей по химии и технологии горячего сланца. 4 1958 / с. 207-225 : илл
https://www.ester.ee/record=b2181270*est <https://digikogu.taltech.ee/et/Item/9e663eaf-55f5-4ab2-9ec1-85514c07981d>

Исследование действия катализаторов при конденсации резорцина с фенилоксифосфорилдихлоридом
Raudsepp, Hugo; Piiraja, Eduard Сборник статей по химии и технологии горячего сланца. 4 1958 / с. 226-241 : илл
https://www.ester.ee/record=b2181270*est <https://digikogu.taltech.ee/et/Item/9e663eaf-55f5-4ab2-9ec1-85514c07981d>

Vacuum hot pressing of oxide dispersion strengthened ferritic stainless steels : effect of al addition on the microstructure and properties

Ganesan, Dharmalingam; Sellamuthu, Prabhukumar; **Prashanth, Konda Gokuldoss** Journal of Manufacturing and Materials Processing 2020 / art. 93 <https://doi.org/10.3390/jmmp4030093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Влияние атмосферы, содержащей SO₂, на процесс высокотемпературной коррозии железа в присутствии золы сланцев, сульфатной и хлоридной смесей

Talimets, Ellen Процессы и аппараты химической технологии и технология неорганических веществ. 2 1971 / с. 87-95 : илл
https://www.ester.ee/record=b1531303*est <https://digikogu.taltech.ee/et/Item/ae6e2dd0-3320-48ce-b2bc-5254c0336474/>

Исследование каталитической дегидрогенизации гексана на окисях ванадия (сообщение I)

Raudsepp, Hugo; Siirak, Maare Сборник статей по химии и химической технологии. 16 1966 / с. 21-29
https://www.ester.ee/record=b2182131*est <https://digikogu.taltech.ee/et/Item/f8f6923a-790f-42fd-a717-a9a0681d4df5>

Исследование каталитической окислительной деструкции углеводородов и кислородных соединений.

Сообщение 14. Исследование каталитического окисления циклоалканов над двуокисью ванадия

Mikkal, Maret-Elo; Raudsepp, Hugo Технология органических веществ. 6 1974 / с. 11-18 https://www.ester.ee/record=b1446922*est
<https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

Исследование каталитической окислительной деструкции углеводородов и кислородных соединений.

Сообщение 16. Исследование каталитического окисления пропилена кислородом воздуха в газовой фазе на катализаторе двуокиси ванадия

Raudsepp, Hugo; Jaagusoo, Marika; Ester, T. Технология органических веществ. 6 1974 / с. 27-33 : илл
https://www.ester.ee/record=b1446922*est <https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

Исследование каталитической окислительной деструкции углеводородов и кислородных соединений.

Сообщение 17. Исследование окисления пентенов кислородом воздуха на двуокиси ванадия

Raudsepp, Hugo; Einborn, Illi Технология органических веществ. 6 1974 / с. 35-41 : илл https://www.ester.ee/record=b1446922*est
<https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

Исследование каталитической окислительной деструкции углеводородов и кислородных соединений. Сообщение 15. Исследование каталитического окисления изобутилена кислородом воздуха в газовой фазе на катализаторе двуокиси ванадия

Raudsepp, Hugo; Jaagusoo, Marika Технология органических веществ. 6 1974 / с. 19-26 : илл
https://www.ester.ee/record=b1446922*est <https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

Исследование окисления некоторых углеводородов на катализаторе двуокиси ванадия : автореферат... кандидата технических наук (05.17.04)

Einborn, Illi 1973 http://www.ester.ee/record=b3555390*est

Локальная динамика кристалла SrTiO₃ с дефектами

Klorov, Mihhail; Kristoffel, Nikolai Физика твердого тела 1988 / с. 3357-3361 https://www.ester.ee/record=b1258896*est

О высокотемпературной коррозии стали в присутствии сульфатов и оксидов серы

Arumeel, Edgar; Vilbok, Heinrich; Siirde, Aino; Unt, Lilia Процессы и аппараты химической технологии и технологии неорганических веществ. 1 1969 / с. 105-109 https://www.ester.ee/record=b1304968*est <https://digikogu.taltech.ee/et/Item/776d7a60-8e51-4e74-b6db-8995a4e621b0/>

Окисление ароматических соединений применением четырехоксида рутения

Karik, Hergi Технология органических веществ. 3 1970 / с. 71-76 : илл https://www.ester.ee/record=b1475714*est
<https://digikogu.taltech.ee/et/Item/fcbf4feb-b620-4ce2-afd4-b68afd951e1/>

Экспериментальное исследование термического сопротивления окисной пленки методом регулярного теплового режима

Vinogradova, V.; Anson, Pavel XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов). Электротехника и энергетика 1970 / с. 106-107 https://www.ester.ee/record=b1379483*est