

## The activity of nanomaterials in photocatalysis

Krichevskaya, Marina Proceedings 2023 / art. 23 <https://doi.org/10.3390/proceedings2023092023>

## Ag nanoparticles on mesoporous carbon support as cathode catalyst for anion exchange membrane fuel cell

Linge, Jonas Mart; Erikson, Heiki; Mooste, Marek; Piirsoo, Helle-Mai; **Kaljuvee, Tiit**; Kikas, Arvo; Aruväli, Jaan; Kisand, Vambola; Tamm, Aile; Kannan, Arunachala Mada; Tammeveski, Kaido International Journal of Hydrogen Energy 2023 / p. 11058-11070  
<https://doi.org/10.1016/j.ijhydene.2022.12.138> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Ag-ions play the main role in silver nanoparticles toxicity in the ciliate *Tetrahymena thermophila*

**Juganson, Katre**; Mortimer, Monika; Ivask, Angela; Pucciarelli, Sandra; Miceli, Cristina; Orupõld, Kaja; Kahru, Anne NanoImpact Conference : program and abstract Book 2017 / p. 67

## Ag-ions play the main role in silver nanoparticles toxicity in the ciliate *Tetrahymena thermophila* [Online resource]

**Juganson, Katre**; Mortimer, Monika; Ivask, Angela Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

## 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 <https://doi.org/10.1149/06409.0023ecst>  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

## 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](#)

## Antiviral efficacy of cerium oxide nanoparticles

Nefedova, Alexandra; Rausalu, Kai; Zusiinaite, Eva; Vanetsev, Alexander; **Rosenberg, Merilin**; Koppel, Kairi; Lilla, Stevin; Visnapuu, Meeri; Smits, Krisjanis; Kisand, Vambola Scientific reports 2022 / art. 18746, 16 p. : ill <https://doi.org/10.1038/s41598-022-23465-6>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Atomic layer deposition of high-k dielectrics on carbon nanoparticles

Tamm, Aile; **Koel, Mihkel**; **Peikolainen, Anna-Liisa** Thin solid films 2013 / p. 16-20 : ill <https://doi.org/10.1016/j.tsf.2012.09.071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Au ja Ag nanoosakeste saamiseks kasutatavate lähteainete HAuCl<sub>4</sub>·3H<sub>2</sub>O ja AgNO<sub>3</sub> termilise lagunemise uurimine

**Otto, Kairi**; Oja Acik, Ilona; Krunks, Malle; Tõnsuaadu, Kaia XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 55

## Bifunctional platinum-free mixed metal oxygen electrocatalysts based on naturally abundant peat

Teppor, Patrick; Jäger, Rutha; Härmä, Meelis; Aruväli, Jaan; **Volobujeva, Olga**; Koppel, Mirjam; Lust, Enn ECS Meeting Abstracts 2022 / p. 29-37 : ill <https://doi.org/10.1149/10807.0029ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

## Biocidal properties study of silver nanoparticles used for application in green housing

**Küünal, Siim**; **Kutti, Sander**; **Rauwel, Protima**; Guha, Mithu; Wragg, David; **Rauwel, Erwan** International nano letters 2016 / p. 191-197 : ill <https://doi.org/10.1007/s40089-016-0186-7>

## Biofabrication of zinc oxide nanoparticles with syzygium aromaticum flower buds extract and finding its novel application in controlling the growth and mycotoxins of *Fusarium graminearum*

Lakshmeesha, Thimappa Ramachandrapa; Kalagatur, Naveen Kumar; Mudili, Venkataramana; Mohan, Chakrabhavi Dhananjaya; Rangappa, Shobith; Prasad, Bangari Daruka; Ashwini, Bagepalli Shivaram; Hashem, Abeer; Alqarawi, Abdulaziz A.; **Gupta, Vijai Kumar** Frontiers in microbiology 2019 / art. 1244, 13 p. : ill <https://doi.org/10.3389/fmicb.2019.01244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Biological nanofactories : using living forms for metal nanoparticle synthesis

Srivastava, Shilpi; **Usmani, Zeba**; Atanasov, Atanas G.; Singh, Vinod Kumar; Singh, Nagendra Pratap; Abdel-Azeem, Ahmed M. Mini-Reviews in Medicinal Chemistry 2021 / p. 245 - 265 <https://doi.org/10.2174/1389557520999201116163012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Characterization of thermally treated anatase TiO<sub>2</sub> supplemented by oxygen adsorption measurements

**Kritševskaja, Marina**; Moiseev, Anna; Weber, Alfred; Deubener, Joachim 5th European Conference on Environmental Applications

of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 124 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

#### **CuInS<sub>2</sub> solar cell absorber plasmonically modified by gold nanoparticles**

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

#### **CuInS<sub>2</sub>-Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells : preparation by an in situ formation route, performance and stability issues**

Maiera, Eugen; Ratha, Thomas; Haas, Wernfried; Werzer, Oliver; Saf, Robert; Hofer, Ferdinand; Meissner, Dieter; **Volobujeva, Olga; Bereznev, Sergei; Mellikov, Enn**; Amenitsch, Heinz; Resel, Roland; Trimmel, Gregor Solar energy materials and solar cells 2011 / p. 1354-1361 : ill

#### **Cytotoxicity of metal-based nanoparticles in epithelial barrier models**

Titma, Tiina 2017 [http://www.ester.ee/record=b4662467\\*est](http://www.ester.ee/record=b4662467*est)

#### **Development of bacterial biosensors and human stem cell-based in vitro assays for the toxicological profiling of synthetic nanoparticles = Rekombinantsetel sensorbakteritel ja inimese tüvirakkudel põhinevate in vitro testide väljatöötamine sünteetiliste nanoosakeste toksikoloogiliseks uurimiseks**

Bondarenko, Olesja 2012 <https://digi.lib.ttu.ee/i/?794>

#### **Differential susceptibility of catheter biomaterials to biofilm-associated infections and their remedy by drug-encapsulated eudragit RL100 nanoparticles**

Pandey, Vivek Kumar; Srivastava, Kumar Rohit; Ajmal, Gufran; Thakur, Vijay Kumar; **Gupta, Vijai Kumar**; Upadhyay, Siddh Nath; Mishra, Pradeep Kumar International Journal of Molecular Sciences 2019 / Art. nr. 5110 <https://doi.org/10.3390/ijms20205110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Dissolution of silver nanowires and nanospheres dictates their toxicity to escherichia coli**

Visnapuu, Meeri; Joost, Urmas; **Juganson, Katre**; Künnis-Beres, Kai; Kahru, Anne; Kisand, Vambola; Ivask, Angela BioMed Research International 2013 / art. 819252 <https://doi.org/10.1155/2013/819252> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Doktoritöö: kahjurivabad ökomajad**

Kõik ärikinnisvarast : [ajalehe Äripäev lisa] 2022 / Lk. 12-13 : ill [https://www.ester.ee/record=b2050444\\*est](https://www.ester.ee/record=b2050444*est)

#### **Doping engineering for controlled hydration and mechanical properties in Portland cement mortar with ultra-low ZnO concentration**

Tamashiro, Jacqueline Roberta; de la Rubia, Miguel Angel; Rubio-Marcos, Fernando; **Rojas Hernandez, Rocio Estefania**; Silva, Lucas Henrique Pereira; de Paiva, Fabio Friol Guedes; Kinoshita, Angela; Terrades, Amparo Moragues Journal of building engineering 2023 / art. 107748 <https://doi.org/10.1016/j.job.2023.107748> [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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Ecotoxicological evaluation of shale fuel oils, metal-based nanoparticles and glyphosate formulations = Põlevikivikütteõlide, metalliliste nanoosakeste ja glüfosaadipõhiste herbitsiidide ökotoksikoloogilised uuringud**

**Kanarbik, Liina** 2017 <https://digi.lib.ttu.ee/i/?7180> [https://www.ester.ee/record=b4649796\\*est](https://www.ester.ee/record=b4649796*est)

#### **Eesti teadlaste loodud nanokangas tõrjub koroonaviirust [Võrguväljaanne]**

Oidermaa, Jaan-Juhan novaator.err.ee 2022 ["Eesti teadlaste loodud nanokangas tõrjub koroonaviirust"](https://www.ester.ee/record=b4649796*est)

#### **Effect of alkali ions (Na<sup>+</sup>, K<sup>+</sup>, Cs<sup>+</sup>) on reaction mechanism of CZTS nano-particles synthesis**

**Kumar, Suresh; Altosaar, Mare; Grossberg, Maarja; Mikli, Valdek** Superlattices and microstructures 2018 / p. 54-63 : ill <https://doi.org/10.1016/j.spmi.2018.02.019>

#### **Effect of alkali ions (Na<sup>+</sup>, K<sup>+</sup>, Cs<sup>+</sup>) on reaction mechanism of CZTS nano-particles synthesis [Online resource]**

**Kumar, Suresh; Altosaar, Mare; Grossberg, Maarja; Mikli, Valdek** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

#### **Effect of eutrophication on toxicity of metallic nanoparticles to daphnia magna [Online resource]**

**Muna, Marge**; Heinlaan, Margit; Blinova, Irina; Kahru, Anne Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1

### **The effect of heat treatment on the morphology and mobility of Au nanoparticles**

**Oras, Sven;** Vlassov, Sergei; Vigonski, Simon; Polyakov, Boris; Antsov, Mikk; Zadin, Vahur; Lõhmus, Rünno; Mougin, Karine  
Beilstein Journal of Nanotechnology 2020 / p. 61-67 <https://doi.org/10.3762/bjnano.11.6> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys**

Xi, Lixia; Guo, Shuang; **Prashanth, Konda Gokuldoss; Sarac, Baran; Eckert, Jürgen** Vacuum 2021 / art. 110405  
<https://doi.org/10.1016/j.vacuum.2021.110405> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrocatalytic oxidation of hydroxide ions by Co<sub>3</sub>O<sub>4</sub> and Co<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> nanoparticles both at particle ensembles and at the single particle level**

Xie, Ruo-Chen; Volokhova, Maria; Boldin, Aleksei; Seinberg, Liis; Tsujimoto, Masahiko; Yang, Minjun; Rasche, Bertold; Compton, Richard G. ChemElectroChem 2020 / p. 1261– 1276 : ill <https://doi.org/10.1002/celec.202000230>

### **Electrochemical characterisation of Co@Co(OH)<sub>2</sub> 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](#)

### **Electrodeposition of CdSe nanofibers as photo-active matrix for polymer solar cells**

**Kois, Julia; Bereznev, Sergei; Gurevits, Jelena; Mellikov, Enn; Öpik, Andres** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 122

### **Emerging trends in nanoparticle synthesis using plant extracts for biomedical applications**

**Rauwel, Protima; Rauwel, Erwan** Global journal of nanomedicine 2017 / art. 555562, p. 1-3  
<http://https://juniperpublishers.com/gjn/pdf/GJN.MS.ID.555562.pdf>

### **Erratum to Toxicity of two types of silver nanoparticles to aquatic crustaceans Daphnia magna and Thamnocephalus platyurus (Environ Sci Pollut Res, 10.1007/s11356-012-1290-5)**

Blinova, Irina; Niskanen, Jukka; Kajankari, Paula; **Kanarbik, Liina; Käkinen, Aleksandr;** Tenhu, Heikki; Penttinen, Olli-Pekka; Kahru, Anne Environmental Science and Pollution Research 2013 / p. 4293 <https://doi.org/10.1007/s11356-013-1734-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Evaluation of the biological effects of engineered nanoparticles on unicellular pro- and eukaryotic organisms = Sünteeiliste nanoosakeste bioloogiliste efektide hindamine üherakulistel pro- ja eukarüootsetel organismidel**

**Mortimer, Monika** 2011 [https://www.ester.ee/record=b2709099\\*est](https://www.ester.ee/record=b2709099*est)

### **Exposure of freshwater zooplankton to copper nanoparticles : toxicity and copper body burden**

**Muna, Marge;** Heinlaan, Margit; Vija, Heiki; Blinova, Irina; Kahru, Anne 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 33 [http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts\\_Book\\_EcoBalt\\_2016.pdf](http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf)

### **Exposure to sublethal concentrations of Co<sub>3</sub>O<sub>4</sub> and Mn<sub>2</sub>O<sub>3</sub> nanoparticles induced elevated metal body burden in Daphnia magna**

Heinlaan, Margit; **Muna, Marge; Juganson, Katre;** Oriekhova, Olena; Stoll, Serge; Kahru, Anne; Slaveykova, Vera Aquatic toxicology 2017 / p. 123-133 : ill <https://doi.org/10.1016/j.aquatox.2017.06.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Extracellular conversion of silver ions into silver nanoparticles by protozoan Tetrahymena thermophila**

**Juganson, Katre;** Mortimer, Monika; Iask, Angela; Kasemets, Kaja; Kahru, Anne Environmental Sciences: Processes and Impacts 2013 / p. 244 - 250 <https://doi.org/10.1039/c2em30731f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Fibrous alumina-based Ni-CeO<sub>2</sub> catalyst : synthesis, structure and properties in propane pre-reforming**

Potemkin, D. I.; **Aghayan, Marina; Kamboj, Nikhil Kumar; Hussainova, Irina** Materials letters 2018 / p. 35-37 : ill <https://doi.org/10.1016/j.matlet.2017.12.039> [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](#)

### **Growth of Co nanoparticles on a nanostructured [thetha]-Al<sub>2</sub>O<sub>3</sub> film on CoAl(100)**

Rose, V.; **Podgurski, Vitali**; David, Rudolf; Francy, R. Surface science 2007 / 3, p. 786-791 : ill

**Hazard evaluation of metal-based nanoparticles and lanthanides with freshwater microcrustaceans = Metalliliste nanoosakeste ja lantaniidide kahjulikkuse hindamine magevee pisivähkidega**

**Muna, Marge** 2019 <https://digi.lib.ttu.ee/i/?11634>

**Hazard evaluation of polystyrene nanoplastic with nine bioassays did not show particle-specific acute toxicity**

Heinlaan, Margit; Kasemets, Kaja; Aruoja, Villem; Blinova, Irina; Bondarenko, Olesja; Lukjanova, Aljona; Khosrovyan, Alla; Kurvet, Imbi; Pullerits, Mirjam; Sihtmäe, Mariliis; **Vasiliev, Grigory**; Vija, Heiki; Kahru, Anne Science of the total environment 2020 / art.

136073, 7 p. : ill <https://doi.org/10.1016/j.scitotenv.2019.136073> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at WOS](#)

**Hybrid nanocomposites and ultrastable metal nanoparticles studied for the development of applications in nanomedicine, water purification and energy harvesting**

**Rauwel, Erwan; Rauwel, Protima; Küüna, Siim**; Volobujeva, Olga; Ivask, Angela; Galeckas, Augustinas; Duqroquet, F.; Wragg, David EMN Meeting on Nanoparticles 2017 : May 9th to 13th, 2017 in San Sebastian, Spain 2017 / [1] p

**Incorporation of plasmonic Au nanoparticles inside the CdTe thin film absorber**

**Maticiu, Natalia; Spalatu, Nicolae; Katerski, Atanas**; Repan, T.; **Hiie, Jaan** NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013 / p. 341-342

**Increased efficiency inside the CdTe solar cell absorber caused by plasmonic metal nanoparticles**

Repän, Taavi; Pikker, Siim; Dolgov, Leonid; Loot, Ardi; **Hiie, Jaan**; **Krunks, Malle**; Sildos, Ilmo Energy procedia 2014 / p. 229-233 :

ill <https://doi.org/10.1016/j.egypro.2013.12.032> [Conference proceeding at Scopus](#) [Article at Scopus](#) [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](#)

**In-situ deposition of gold nanoparticles onto different substrates by chemical spray pyrolysis**

**Oja Acik, Ilona; Oyekoya, Gboyega Nathaniel; Mere, Arvo; Katerski, Atanas; Mikli, Valdek; Krunks, Malle** IOP conference

series : materials science and engineering 2015 / 5 p. : ill <https://doi.org/10.1088/1757-899X/77/1/012009> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Interaction of CuCl<sub>2</sub> with poly(ethylene glycol) under microwave radiation**

Tverjanovich, Andrey; Grevtsev, A. S.; **Bereznev, Sergei** Materials research express 2017 / art. 015006, p. 1-6 : ill

<https://doi.org/10.1088/2053-1591/aa52d0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity**

**Käkinen, Aleksandr**; Ding, Feng; Chen, Pengyu; Mortimer, Monika; Kahru, Anne; Ke, Pu Chun Nanotechnology 2013 / art. 345101

<https://doi.org/10.1088/0957-4484/24/34/345101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Investigation of planetary milling for nano-silicon carbide reinforced aluminium metal matrix composites**

**Kollo, Lauri**; Leparoux, Marc; Bradbury, Christopher R.; Jäggi, Christian; Carreno-Morelli, Efrain; Rodriguez-Arbaizar, Mikel Journal

of alloys and compounds 2010 / p. 394-400 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0925838809018738>

**Investigations on new carbon-based nanohybrids combining carbon nanotubes and metal oxide nanoparticles**

**Rauwel, Protima**; Galeckas, Augustinas; **Salumaa, Martin**; Duqroquet, Frederiquet; **Rauwel, Erwan** 4th International Conference

on Competitive Materials and Technology Processes : Miskolc-Lillafüred, Hungary, October 3-7, 2016 : book of abstracts 2016 / p.

250 [http://www.ic-cmtp4.eu/doc/book\\_of\\_abstract\\_iccmtp4.pdf](http://www.ic-cmtp4.eu/doc/book_of_abstract_iccmtp4.pdf)

**Investigations on new carbon-based nanohybrids combining carbon nanotubes, HfO<sub>2</sub> and ZnO nanoparticles**

**Rauwel, Protima**; Galeckas, Augustinas; **Salumaa, Martin**; **Aasna, Andres**; Duqroquet, Frederiquet; **Rauwel, Erwan** IOP

conference series : materials science and engineering 2017 / art. 012064, p. 1-5 : ill <https://doi.org/10.1088/1757-899X/175/1/012064>

[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Low-cost plasmonic solar cells prepared by chemical spray pyrolysis**

**Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo**; Sildos, Ilmo; **Krunks, Malle** The Beilstein journal of

nanotechnology 2014 / p. 2398-2402 : ill <https://doi.org/10.3762/bjnano.5.249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal](#)

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

**Magnetic nanomaterials synthesis and functionalization for biomedical applications = Magnetiliste nanomaterjalide**

**süntees ja funktsionaliseerimine biomeditsiiniliste rakenduste jaoks**

**Volokhova, Maria** 2022 <https://doi.org/10.23658/taltech.39/2022> <https://digikogu.taltech.ee/et/Item/49b92f4b-d0cd-4544-8a64-83ca27bf2aa3>

[https://www.ester.ee/record=b5507318\\*est](https://www.ester.ee/record=b5507318*est)

### **Magnetic studies on spinel ferrite nanoparticles and bulk samples synthesized by citrate combustion route**

Dimri, Mukesh C.; Khanduri, H.; Agarwal, P.; Garg, V.; **Mere, A.**; Stern R. DAE Solid State Physics symposium 2019, 18–22 December 2019, Jodhpur, India 2020 / art. 030517 <https://doi.org/10.1063/5.0016823> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

Grevtsev, A. S.; Goncharenko, I. Yu.; **Bereznev, Sergei** Russian journal of applied chemistry 2014 / p. 671-675 : ill <https://doi.org/10.1134/S1070427214060019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanisms of toxic action of silver nanoparticles in the protozoan Tetrahymena thermophila : from gene expression to phenotypic events**

**Juganson, Katre**; Mortimer, Monika; Ivask, Angela; Pucciarelli, Sandra; Miceli, Cristina; Orupöld, Kaja; Kahru, Anne Environmental pollution 2017 / p. 481-489 : ill <https://doi.org/10.1016/j.envpol.2017.03.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Metal oxide nanoparticles embedded in rare-earth matrix for low temperature thermal imaging applications**

**Rauwel, Erwan**; Galeckas, Augustinas; **Rauwel, Protima**; Hansen, P.-A.; Wragg, David; Nilsen, Ola; Fjellvag, H. Materials research express 2016 / p. 1-11 : ill <https://doi.org/10.1088/2053-1591/3/5/055010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Microstructure formation and mechanical performance of micro-nanoscale ceramic reinforced aluminum matrix composites manufactured by laser powder bed fusion**

Xi, Lixia; Feng, Lili; Gu, Dongdong; **Prashanth, Konda Gokuldoss**; Kaban, Ivan; Wang, Ruiqi; Xiong, Ke; Sarac, Baran; Eckert, Jürgen Journal of alloys and compounds 2023 / art. 168803 <https://doi.org/10.1016/j.jallcom.2023.168803> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modification of light absorption in thin CuInS<sub>2</sub> films by sprayed Au nanoparticles**

**Katerski, Atanas**; Kärber, Erki; **Oja Acik, Ilona**; Dolgov, Leonid; **Mere, Arvo**; Sildos, Ilmo; **Mikli, Valdek**; **Krunks, Malle** Nanoscale research letters 2014 / p. 1-6 : ill <https://doi.org/10.1186/1556-276X-9-494> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modification of light absorption in thin CuInS<sub>2</sub> films by sprayed gold nanoparticles**

**Mere, Arvo**; **Katerski, Atanas**; **Oja Acik, Ilona**; Dolgov, Leonid; Sildos, Ilmo; **Krunks, Malle** NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013

### **NanoE-Tox: new and in-depth database concerning ecotoxicity of nanomaterials**

**Juganson, Katre**; Ivask, Angela; Blinova, Irina; Mortimer, Monika; Kahru, Anne Beilstein Journal of Nanotechnology 2015 / p. 1788 - 1804 <https://doi.org/10.3762/bjnano.6.183> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Nanomaterial synthesis and study for biomedicine and cancer treatment**

**Rauwel, Erwan** International Conference and Exhibition on Nanomedicine and Drug Delivery : May 29-31, 2017, Osaka, Japan 2017 / [1] p

### **Nanomaterial synthesis and study for biomedicine and cancer treatment**

**Rauwel, Erwan** Journal of pharmaceutics & drug delivery research 2017 / p. 55 <http://dx.doi.org/10.4172/2325-9604-C1-020>

### **Natural water as the test medium for Ag and CuO nanoparticle hazard evaluation : an interlaboratory case study**

Heinlaan, Margit; **Muna, Marge**; Knöbel, Melanie Environmental pollution 2016 / p. 689-699 : ill <https://doi.org/10.1016/j.envpol.2016.06.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New methodology for the antifungal testing of surfactant-free silver metal nanoparticles for applications in green housing**

**Küüna, Siim**; **Kutti, Sander**; **Rauwel, Protima**; Wragg, David; **Hussainova, Irina**; **Rauwel, Erwan** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 133-138 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.133> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **NiO and WO<sub>3</sub> coreduction by combined reducers Mg/C and preparation of W-Ni alloy [Online resource]**

Zakaryan, Marieta; **Aydinyan, Sofiya**; Kharatyan, Suren Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L03 [http://2018.cimtec-congress.org/abstracts\\_focused\\_session\\_cb-10](http://2018.cimtec-congress.org/abstracts_focused_session_cb-10)

### **Noble metal nanoparticles for improvement of fluorescent and photovoltaic materials**

Dolgov, Leonid; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle**; **Mikli, Valdek** The international summer school "Nanotechnology: from fundamental research to innovations" and International research and practice conference "Nanotechnology and nanomaterials" (NANO-2013), 25 August-1 September, 2013, Bukovel, Ukraine : book of abstracts 2013 / p. 352

**A novel approach for synthesizing silver nanoparticles with antibacterial and cytotoxic activities using the leaf extract of hydroponically grown *Moringa oleifera***

Aghajanyan, Anush; Timotina, Marina; Manutsyan, Tatevik; Harutyunyan, Ani; Ginovyan, Mikayel; Schubert, Robin; **Aydinyan, Sofiya**; Trchounian, Karen; Gabrielyan, Lilit; Gabrielyan, Liana Scientific Reports 2025 / art. 16637 <https://doi.org/10.1038/s41598-025-01023-0>

**A novel high-strength Al-based nanocomposite reinforced with Ti-based metallic glass nanoparticles produced by powder metallurgy**

Zhang, W.W.; Hu, Y.; **Prashanth, Konda Gokuldoss** Materials science and engineering : A 2018 / p. 34-41 . ill <https://doi.org/10.1016/j.msea.2018.07.082>

**A novel method for comparison of biocidal properties of nanomaterials to bacteria, yeasts and algae**

**Suppi, Sandra**; Kasemets, Kaja; Ivask, Angela; Künnis-Beres, Kai; Sihtmäe, Mariliis; Kurvet, Imbi; Aruoja, Villem; Kahru, Anne Journal of Hazardous Materials 2015 / p. 75 - 84 <https://doi.org/10.1016/j.jhazmat.2014.12.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oil shale phenol-derived aerogels as supports for palladium nanoparticles**

**Perez-Caballero, Fernando**; **Peikolainen, Anna-Liisa**; **Uibu, Mai**; Herbert, M.; Galindo, A.; Montilla, F.; **Koel, Mihkel** Oil shale 2009 / 1, p. 28-39 : ill [https://artiklid.elnet.ee/record=b1141307\\*est](https://artiklid.elnet.ee/record=b1141307*est)

**One step synthesis of pure cubic and monoclinic HfO<sub>2</sub> nanoparticles : effects of temperature and ambient on the photoluminescent properties**

Rauwel, Protima; Galeckas, Augustinas; **Rauwel, Erwan** ECS transactions 2015 / p. 19-28 <https://doi.org/10.1149/06444.0019ecst> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Optimisation of plant mediated synthesis of silver nanoparticles by common weed *Plantago major* and their antimicrobial properties**

**Küüna, Siim**; Visnapuu, Meeri; **Volobujeva, Olga**; Soares Rosario, Maria; **Rauwel, Protima**; **Rauwel, Erwan** IOP Conference Series : Materials Science and Engineering 2019 / art. 012003 <https://doi.org/10.1088/1757-899X/613/1/012003> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Organic nanoparticle-based combinatory approaches for gene therapy**

Singh, Brahma N.; Prateeksha; **Gupta, Vijai Kumar**; Chen, Jieyin; Atanasov, Atanas G. Trends in biotechnology 2017 / p. 1121-1124 <https://doi.org/10.1016/j.tibtech.2017.07.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxygen electroreduction on platinum nanoparticles activated electrodes deposited onto D-glucose derived carbon support in 0.1 M KOH**

**Taleb, Masoud**; Nerut, Jaak; Tooming, Tauno; Thomberg, Thomas; Lust, Enn Journal of The Electrochemical Society 2016 / p. F1251-F1257 <https://doi.org/10.1149/2.1051610jes> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxygen electroreduction on platinum nanoparticles deposited onto D-glucose derived carbon**

**Taleb, Masoud**; Nerut, Jaak; Tooming, Tauno; Thomberg, Thomas; Jänes, Alar; Lust, Enn Journal of the Electrochemical Society 2015 / p. F651 - F660 <https://doi.org/10.1149/2.0231507jes> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxygen reduction on silver nanoparticles supported on carbide-derived carbons**

Linge, Jonas Mart; Erikson, Heiki; Merisalu, Maido; **Kaljuvee, Tiit** Journal of the electrochemical society 2018 / p. F1199–F1205 <https://doi.org/10.1149/2.0711814jes> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Photocatalytic activity of quenched flame-synthesized titania nanoparticles**

**Klauson, Deniss**; Hauser, G. I.; **Kritševskaja, Marina**; Moiseev, Anna; Weber, Alfred; Deubener, Joachim 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 199 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

**Plant extract mediated synthesis of nanoparticles : chapter 14**

**Küüna, Siim**; **Rauwel, Protima**; **Rauwel, Erwan** Emerging applications of nanoparticles and architecture nanostructures : current prospects and future trends 2018 / p. 411–446 <https://doi.org/10.1016/B978-0-323-51254-1.00014-2>

**Plant mediated syntheses of silver nanoparticles using common weed (*Plantago Major* L.)**

**Küüna, Siim**; **Volobujeva, Olga**; **Rauwel, Protima**; **Rauwel, Erwan** 10th International Conference on Biosystems Engineering 2019 : book of abstracts : May 8-10 2019 Tartu, Estonia 2019 / p. 172 [http://dspace.emu.ee/xmlui/bitstream/handle/10492/4955/ABS\\_2019\\_Book\\_VV.pdf?sequence=1&isAllowed=y](http://dspace.emu.ee/xmlui/bitstream/handle/10492/4955/ABS_2019_Book_VV.pdf?sequence=1&isAllowed=y)

**Plant mediated synthesis of silver-based nanoparticles and their use as antimicrobial agent in environmentally-friendly applications = Taime ekstrakti abil sünteesitud hõbedal põhinevad nanoosakesed ning nende kasutus antimikroobse vahendina keskkonnasõbralikes rakendustes**

**Küüna, Siim** 2022 <https://doi.org/10.23658/taltech.2/2022> <https://digikogu.taltech.ee/et/Item/c3a53dca-9a76-4356-810f-2d51e44cdbc5> [https://www.ester.ee/record=b5492124\\*est](https://www.ester.ee/record=b5492124*est)

### **Plasmon resonance effect caused by gold nanoparticles formed on titanium oxide films**

Tamm, Aile; **Oja Acik, Ilona; Krunks, Malle; Mere, Arvo** Thin solid films 2016 / p. 449-455 : ill <https://doi.org/10.1016/j.tsf.2016.08.059>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Plasmon-enhanced photocurrent by gold nanoparticles on extremely thin solar cells by chemical spray pyrolysis**

**Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Nanotechnology for Next Generation High Efficiency Photovoltaics : Spring International School & Workshop, Mao, Menorca, Balearic Islands (Spain), April 20-24, 2015 : book of abstracts 2015 / [1] p

### **Plasmonic effect of spray-deposited Au nanoparticles on the performance of CSS CdS/CdTe solar cells**

**Spalatu, Nicolae; Hiie, Jaan; Maticiuc, Natalia; Krunks, Malle; Katerski, Atanas; Mikli, Valdek; Sildos, Ilmo** Applied surface science 2015 / p. 69-73 : ill <https://doi.org/10.1016/j.apsusc.2015.04.065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Plasmonic modification of CdTe thin films by gold nanoparticles : methods, difficulties and solutions**

**Maticiuc, Natalia; Spalatu, Nicolae; Katerski, Atanas; Hiie, Jaan; Mikli, Valdek; Krunks, Malle; Dolgov, Leonid; Sildos, Ilmo** Microelectronic engineering 2014 / p. 173-178 : ill <https://doi.org/10.1016/j.mee.2014.07.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Oja Acik, Ilona; Oyekoya, Gboyega Nathaniel; Mere, Arvo; Loot, Ardi; Dolgov, Leonid; Mikli, Valdek; Krunks, Malle; Sildos, Ilmo** Surface and coatings technology 2015 / p. 27-31 : ill <https://doi.org/10.1016/j.surfcoat.2015.01.036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Preparation of metal-doped carbon aerogels from oil shale processing by-products**

**Kreek, Kristiina; Kulp, Maria; Uibu, Mai; Mere, Arvo; Koel, Mihkel** Oil shale 2014 / p. 185-194 : ill [https://artiklid.elnet.ee/record=b2673721\\*est](https://artiklid.elnet.ee/record=b2673721*est) <https://doi.org/10.3176/oil.2014.2.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Profiling of the toxicity mechanisms of coated and uncoated silver nanoparticles to yeast *Saccharomyces cerevisiae* BY4741 using a set of its 9 single-gene deletion mutants defective in oxidative stress response, cell wall or membrane integrity and endocytosis**

**Käosaar, Sandra; Kahru, Anne; Mantecca, Paride; Kasemets, Kaja** Toxicology in vitro 2016 / p. 149-162 : ill <https://doi.org/10.1016/j.tiv.2016.05.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Recent advances in essential oils-based metal nanoparticles : a review on recent developments and biopharmaceutical applications**

Sana, Siva Sankar; Li, Huizhen; Zhang, Zhijun; Sharma, Minaxi; Usmani, Zeba; Hou, Tianyu; Netala, Vasudeva Reddy; Wang, Xin; **Gupta, Vijai Kumar** Journal of Molecular Liquids 2021 / Art. nr. 115951 <https://doi.org/10.1016/j.molliq.2021.115951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Recent advances in nanoparticles applied to water remediation and biomedical applications**

**Rauwel, Erwan** 5th International Conference on Competitive Materials and Technology Processes : Miskolc-Lillafüred, Hungary, October 8-12, 2018 : book of abstracts 2018 / p. 47 [https://www.ic-cmtp5.eu/doc/book\\_of\\_abstract\\_iccmtp5.pdf](https://www.ic-cmtp5.eu/doc/book_of_abstract_iccmtp5.pdf)

### **A review on the green synthesis of silver nanoparticles and their morphologies studied via TEM**

Rauwel, Protima; **Küünal, Siim; Ferdov, Stanislav; Rauwel, Erwan** Advances in materials science and engineering 2015 / p. 1-9 : ill <https://doi.org/10.1155/2015/682749> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Selective photocurrent generation in HfO<sub>2</sub> and carbon nanotube hybrid nanocomposites under Ultra-Violet and visible photoexcitations**

**Rauwel, Protima; Galeckas, Augustinas; Ducroquet, Frédérique; Rauwel, Erwan** Materials Letters 2019 / p. 45 - 48 <https://doi.org/10.1016/j.matlet.2019.03.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Silver metal nanoparticles study for biomedical and green house applications**

**Rauwel, Erwan; Simon-Gracia, Lorena; Guha, Mithu; Rauwel, Protima; Küünal, Siim; Wragg, David** IOP conference series : materials science and engineering 2017 / art. 012011, p. 1-5 : ill <https://doi.org/10.1088/1757-899X/175/1/012011> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Silver nanoparticles : synthesis, properties, and applications**

Rauwel, Protima; **Rauwel, Erwan; Ferdov, Stanislav; Singh, Mangala P.** Advances in materials science and engineering 2015 / p. 1-2 <https://doi.org/10.1155/2015/624394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Silver nanoparticles study for application in green housing**

**Küünal, Siim; Kutti, Sander; Guha, Mithu; Rauwel, Protima; Wragg, David; Nurk, Gunnar; Rauwel, Erwan** ECS transactions 2015 /

### **Stabilization of higher symmetry HfO<sub>2</sub> polymorphs as thin films and nanoparticles**

Rauwel, Protima; **Rauwel, Erwan** Hafnium : chemical characteristics, production and applications 2014 / p. 77-112 : ill

### **Stable metal nanoparticles study for biomedical and green houses applications**

**Küüna, Siim; Rauwel, Erwan; Rauwel, Protima**; Gracia, Lorena; Guha, Mithu; Wragg, David 4th International Conference on Competitive Materials and Technology Processes : Miskolc-Lillafüred, Hungary, October 3-7, 2016 : book of abstracts 2016 / p. 48 [http://www.ic-cmtp4.eu/doc/book\\_of\\_abstract\\_iccmtp4.pdf](http://www.ic-cmtp4.eu/doc/book_of_abstract_iccmtp4.pdf)

### **Sunlight-driven photocatalytic degradation of methylene blue with facile one-step synthesized Cu-Cu<sub>2</sub>O-Cu<sub>3</sub>N nanoparticle mixtures**

Paredes, Patricio; Rauwel, Erwan; Wragg, David S.; Rapenne, Laetitia; Estephan, Elias; **Volobujeva, Olga**; Rauwel, Protima Nanomaterials 2023 / art. 1311 <https://doi.org/10.3390/nano13081311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Surface plasmon resonance caused by gold nanoparticles formed on sprayed TiO<sub>2</sub> films**

**Oja Acik, Ilona**; Dolgov, Leonid; **Krunks, Malle; Mere, Arvo; Mikli, Valdek**; Pikker, Siim; Loot, Ardi; Sildos, Ilmo Thin solid films 2014 / p. 144-147 : ill <https://doi.org/10.1016/j.tsf.2013.11.125> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Surface plasmon resonance in ZnO nanorod arrays caused by gold nanoparticles for solar cell application**

**Gromõko, Inga; Oja Acik, Ilona; Krunks, Malle; Dedova, Tatjana; Katerski, Atanas; Mere, Arvo; Mikli, Valdek; Vessart, Risto** Physica status solidi (c) 2015 / p. 1338-1343 : ill <https://doi.org/10.1002/pssc.201510103> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Sünteeiliste nanoosakeste toksilisus in vitro**

**Mortimer, Monika**; Kasemets, Kaja; Heinlaan, Margit; Vodovik, Maša; Marinšek Logar, Romana; Kahru, Anne XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 17

### **Synergistic antibacterial effect of copper and silver nanoparticles and their mechanism of action**

**Vasiliev, Grigory**; Kubo, Anna-Liisa; Vija, Heiki; Kahru, Anne; **Bondar, Denys; Karpichev, Yevgen**; Bondarenko, Olesja Scientific reports 2023 / art. 9202, 15 p. : ill <https://doi.org/10.1038/s41598-023-36460-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synergistic mechanisms and toxicity profiles of silver and copper nanoparticles for the development of novel antimicrobial materials = Vase ja hõbeda nanoosakeste sünergilise koosmõju mehhanismid ja rakendamine uute antimikroobsete materjalide arendamiseks**

**Vasiliev, Grigory** 2023 <https://doi.org/10.23658/taltech.28/2023> <https://digikogu.taltech.ee/et/Item/50c08f30-1077-456a-8e2b-c9f43447d616> [https://www.ester.ee/record=b5568720\\*est](https://www.ester.ee/record=b5568720*est)

### **Synthesis and antibacterial efficiency of chitosan–copper oxide nanocomposites**

**Laanoja, Jüri; Sihtmäe, Mariliis; Otsus, Maarja; Kahru, Anne; Kasemets, Kaja** International Conference EcoBalt 2023 "Chemicals&Environment" 2023 / 2 p. <https://doi.org/10.3390/proceedings2023092035>

### **Synthesis of Ni@SiO<sub>2</sub> and Co@SiO<sub>2</sub> nanomagnets after formation of NiO and Co<sub>2</sub>O<sub>3</sub> nanoparticles at low temperatures using CaH<sub>2</sub>**

**Volokhova, Maria**; Boldin, Aleksei; Link, Joosep; Tsujimoto, Masahiko; Stern, Raivo; Seinberg, Liis Journal of materials research and technology 2022 / p. 988-992 : ill <https://doi.org/10.1016/j.jmrt.2021.12.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis of zwitterionic dopamine sulfonate coated cubic core@Fe@SiO<sub>2</sub> nanoparticles and their magnetic properties analysis**

**Volokhova, Maria**; Boldin, Aleksei; Link, Joosep; Shugai, Anna; Pehk, Tõnis; Stern, Raivo; Seinberg, Liis Materials 2023 / 6 p. : ill

### **ZnO nanorods grown electrochemically on different metal oxide underlays**

**Gromõko, Inga; Dedova, Tatjana; Krunks, Malle; Sõritski, Vitali; Mere, Arvo; Mikli, Valdek; Unt, Tarmo; Oja Acik, Ilona** IOP conference series : materials science and engineering 2015 / p. 1-5 : ill <https://doi.org/10.1088/1757-899X/77/1/012012> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **The effect of nano-TiC addition on sintered Nd-Fe-B permanent magnets**

**Mural, Zorjana; Kollo, Lauri**; Xia, Manlong; **Veinthal, Renno** Journal of magnetism and magnetic materials 2017 / p. 23-28 : ill <https://doi.org/10.1016/j.jmmm.2016.12.115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The effect of surface charge and pH on the physiological behaviour of cobalt, copper, manganese, antimony, zinc and**

#### **titanium oxide nanoparticles in vitro**

**Titma, Tiina** Toxicology in vitro 2018 / p. 11-21 : ill <https://doi.org/10.1016/j.tiv.2018.02.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **The role of physico-chemical properties and test environment on biological effects of copper and silver nanoparticles = Vase ja hõbeda nanoosakeste füüsikalise-keemiliste omaduste ja testikeskkonna mõju nende bioloogilisele toimele**

**Käkinen, Aleksandr** 2014 [https://www.ester.ee/record=b3078755\\*est](https://www.ester.ee/record=b3078755*est)

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

**Aghayan, Marina**; Potemkin, D. I.; Rubio-Marcos, Fernando; **Hussainova, Irina** ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 419 : ill <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

#### **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](#)

#### **Thermal decomposition study of H<sub>2</sub>AuCl<sub>4</sub>·3H<sub>2</sub>O and AgNO<sub>3</sub> as precursors for plasmonic metal nanoparticles**

**Otto, Kairi**; **Krunks, Malle**; **Oja Acik, Ilona**; **Tõnsuaadu, Kaia** Book of abstracts : 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August 2013, Vilnius, Lithuania 2013 / p. 298

#### **Thermal decomposition study of H<sub>2</sub>AuCl<sub>4</sub>·3H<sub>2</sub>O and AgNO<sub>3</sub> as precursors for plasmonic metal nanoparticles**

**Otto, Kairi**; **Oja Acik, Ilona**; **Krunks, Malle**; **Tõnsuaadu, Kaia**; **Mere, Arvo** Journal of thermal analysis and calorimetry 2014 / p. 1065-1072 : ill <https://doi.org/10.1007/s10973-014-3814-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Toiduteadlane: toidukarbiiks võetud jäätisetopsist eraldub pahatihti plasti**

**Vene, Kristel** novaator.err.ee 2024 [Toiduteadlane: toidukarbiiks võetud jäätisetopsist eraldub pahatihti plasti](#)

#### **Toxicity mechanisms of AG and CuO nanoparticles to the yeast *Saccharomyces cerevisiae* [Online resource]**

**Käosaar, Sandra**; Kahru, Anne; Kasemets, Kaja Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

#### **Toxicity of Ag, CuO and ZnO nanoparticles to selected environmentally relevant test organisms and mammalian cells in vitro : a critical review**

Bondarenko, Olesja; **Juganson, Katre**; Ivask, Angela; Kasemets, Kaja; Mortimer, Monika; Kahru, Anne Archives of Toxicology 2013 / p. 1181 - 1200 <https://doi.org/10.1007/s00204-013-1079-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Toxicity of antimony, copper, cobalt, manganese, titanium and zinc oxide nanoparticles for the alveolar and intestinal epithelial barrier cells in vitro**

**Titma, Tiina**; Shimmo, Ruth; Siigur, Jüri; Kahru, Anne Cytotechnology 2016 / p. 2363-2377 : ill <https://doi.org/10.1007/s10616-016-0032-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Toxicity of CuO nanoparticles to yeast *saccharomyces cerevisiae* BY4741 wild-type and its nine isogenic single-gene deletion mutants**

Kasemets, Kaja; **Suppi, Sandra**; Künnis-Beres, Kai; Kahru, Anne Chemical Research in Toxicology 2013 / p. 356 - 367 <https://doi.org/10.1021/tx300467d> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Toxicity of nine (doped) rare Earth metal oxides and respective individual metals to aquatic microorganisms *Vibrio fischeri* and *Tetrahymena thermophila***

Kurvet, Imbi; **Juganson, Katre**; Vija, Heiki; Sihtmäe, Mariliis; Blinova, Irina; Syvertsen-Wiig, Guttorm; Kahru, Anne Materials 2017 / art. 754, p. 1-18 : ill <https://doi.org/10.3390/ma10070754> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Toxicological profiling of copper oxide and silver nanoparticles and polyoxometalate ionic liquids with medically relevant bacteria and mammalian cells in vitro = Vaskoksiidi ja hõbeda nanoosakeste ning polüoksometalaat-ioonvedelike toksilisuse uuringud meditsiiniliselt oluliste bakterite ja imetajarakkudega in vitro**

**Kubo, Anna-Liisa** 2019 <https://digi.lib.ttu.ee/i/?12073>

#### **Toxicological profiling of silver and copper oxide nanoparticles on *Saccharomyces cerevisiae* BY4741 wild-type and its single-gene deletion mutants = Hõbeda ja vaskoksiidi nanoosakeste toksilisuse iseloomustamine pärmis *Saccharomyces***

**cerevisiae BY4741 metsiktüvele ning geenikatkestus-mutantidele**

**Käosaar, Sandra** 2018 <https://digi.lib.ttu.ee/i/?10627> [https://www.ester.ee/record=b5151210\\*est](https://www.ester.ee/record=b5151210*est)

**Using nano-additives to increase the oxygen barrier of polymers [Online resource]**

Paara, Tõnis; Lange, Sven; **Krumme, Andres** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p  
<http://fntdk.ut.ee/teesid-2018/>

**Uudsed nanokapslid muudavad vaktsiinid ja ravimid üha tõhusamaks**

**Adamson, Jasper** Horisont 2025 / lk. 20-24 : ill [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

**UVA-induced antimicrobial activity of ZnO/Ag nanocomposite covered surfaces**

Visnapuu, Meeri; **Rosenberg, Merilin**; **Truska, Egle**; Nõmmiste, Ergo; Šutka, Andris; Kahru, Anne; Rähn, Mihkel; Vija, Heiki; Orupõld, Kaja; Kisand, Vambola; Ivask, Angela Colloids and Surfaces B: Biointerfaces 2018 / p. 222-232  
<https://doi.org/10.1016/j.colsurfb.2018.05.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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