

### **A new strategy for the preparation of maleimide-functionalised gold surfaces**

Zhang, Xin; Sun, Guoguang; Hovestädt, Marc; **Sõritski, Vitali**; Esser, Norbert; Volkmer, Rudolf; Janietz, Silvia; Rappich, Jörg; Hinrichs, Karsten Electrochemistry communications 2010 / 10, p. 1403-1406 : ill <https://www.sciencedirect.com/science/article/pii/S1388248110003395>

### **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; Krunk, Malle; Tõnsuaadu, Kaia XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 55

### **Austraalia firma tahab Ida-Virust uraani ja kulda otsida : [ka TTÜ geoloogia instituudi direktori Alvar Soesoo teemakohane mõtteväljendus]**

Gamzejev, Erik; **Soesoo, Alvar** Põhjarannik 2008 / 16. apr., lk. 1

### **Carbon prices for meeting the Paris agreement and their impact on key metals**

Tost, Michael; **Hitch, Michael William**; Lutter, Stephan; Feiel, Susanne; Moser, Peter The extractive industries and society 2020 / p. 593-599 <https://doi.org/10.1016/j.exis.2020.01.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of self-assembled monolayers by means of nanoindentation**

Lind, Liina; Costelle, L.; Jalkanen, P.; Räisänen, M.; Nowak, R.; Räisänen, J. International Indentation Workshop 4 : Seoul, Korea, 3-8 July 2011 : abstract book 2011 / p. 106 <https://pubs.acs.org/doi/10.1021/acs.langmuir.7b01068>

### **Characterizing the biofunctionalization of gold surface with total internal reflection fluorescence (TIRF) microscopy**

**Ehrminger, Robin Benjamin**; Kopantšuk, Sergei; **Kivirand, Kairi**; Min, Mart Proceedings of the Estonian Academy of Sciences 2020 / p. 27-34 : ill <https://doi.org/10.3176/proc.2020.1.02> [http://www.kirj.ee/33001/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/33001/?tpl=1061&c_tpl=1064) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Comparative analysis of residual stresses determined by various methods in brush-plated hard gold and silver coatings**

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; **Sergejev, Fjodor**; **Mikli, Valdek** Engineering materials & tribology XXII 2014 / p. 8-11 <https://doi.org/10.4028/www.scientific.net/KEM.604.8> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Conventional nanoindentation in self-assembled monolayers deposited on gold and silver substrates**

Costelle, Leila; **Lind, Liina** Journal of nanomaterials 2012 / 5 p. : ill <https://onlinelibrary.wiley.com/doi/10.1155/2012/585123>

### **Correlation between COVID-19 cases and gold price fluctuation**

Gautam, Roshan; Kim, Yoochan; Topal, Erkan; **Hitch, Michael William** International journal of mining, reclamation and environment 2022 / p. 574-586 <https://doi.org/10.1080/17480930.2022.2077542>

### **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](#)

### **Determination of modulus of elasticity, nanohardness and residual stresses in brush-plated gold and silver coatings on copper substrate**

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; **Veinthal, Renno**; **Mikli, Valdek**; **Sergejev, Fjodor** Materials science = Medžiagotyra 2012 / p. 51-56 : ill [https://www.researchgate.net/publication/266348938\\_Determination\\_of\\_Modulus\\_of\\_Elasticity\\_Nanohardness\\_and\\_Residual\\_Stresses\\_in\\_Brush-plated\\_Gold\\_and\\_Silver\\_Coatings\\_on\\_Copper\\_Substrate](https://www.researchgate.net/publication/266348938_Determination_of_Modulus_of_Elasticity_Nanohardness_and_Residual_Stresses_in_Brush-plated_Gold_and_Silver_Coatings_on_Copper_Substrate)

### **Development of a smart computational tool for the evaluation of co- and by-products in mining projects using Chovdar gold ore deposit in Azerbaijan as a case study**

Mammadli, Anvar; Barokos, George; Islam, Md Ariful; Mischo, Helmut; **Hitch, Michael William** Mining 2022 / p. 487-510 : ill <https://doi.org/10.3390/mining2030026>

### **Eesti akadeemik püüdis laboris kulda valmistada : Akadeemikust alkeemik Aleksander Poleštšuk üritas Tartu Ülikooli teadlaste silme all elavhõbedast kulda teha**

Erelt, Pekka ekspress.delfi.ee 2024 <https://ekspress.delfi.ee/artikkel/120339970/eesti-akadeemik-puudis-laboris-kulda-valmistada> <https://digikogu.taltech.ee/et/Search/Items?registerValueIds=753302&yearfrom=1933&yearto=1933>

### **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**; **Krunk, 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 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

## **Kapitalistlik valuutasüsteem. 1. Kullaturud**

**Made, Tiit** Edasi : EKP Tartu Linnakomitee, EKP Tartu Rajoonikomitee, Tartu Linna RSN ja Tartu Rajooni RSN häälekandja 1973 / lk. [?] [https://www.ester.ee/record=b1271061\\*est](https://www.ester.ee/record=b1271061*est)

## **Kes ja miks võiks investeerida kulda?**

Vastisson, Lauriina Investor 2023 / lk. 18-22 [https://www.ester.ee/record=b5266435\\*est](https://www.ester.ee/record=b5266435*est)

## **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](#)

## **Measurement and relaxation observation of residual stresses in brush-plated gold coating depending on the current density**

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; **Veinthal, Renno; Mikli, Valdek** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 50

## **Metal mining's environmental pressures: a review and updated estimates on CO2 emissions, water use, and land requirements**

**Hitch, Michael William;** Tost, Michael; Bayer, Benjamin Sustainability 2018 / art. 2881 ; 14 p. : tab <https://doi.org/10.3390/su10082881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Metallilise ühendi AuPb<sub>2</sub> struktuur : [magistritöö]**

Mets, Georg 1935 [http://www.ester.ee/record=b3604527\\*est](http://www.ester.ee/record=b3604527*est)

## **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

## **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 enhancement of light absorption in CuInS<sub>2</sub> layer doped by gold nanoparticles**

Repän, Taavi; **Katerski, Atanas; Oja Acik, Ilona; Kärber, Erki; Mere, Arvo; Mikli, Valdek; Krunks, Malle;** Dolgov, Leonid; Sildos, Ilmo META'14 - Singapore : The 5th International Conference on Metamaterials, Photonic Crystals and Plasmonics : book of abstracts 2014

## **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](#)

**Pronksiajast läbi rauaaja tänapäeva. Hõbe ; Pronksiajast läbi rauaaja tänapäeva. Kuld**

Kulu, Priit 2022 [https://www.ester.ee/record=b5507862\\*est](https://www.ester.ee/record=b5507862*est)

### **Relaxation of residual stresses in brush-plated gold and silver coatings on copper and on brass substrates**

Lille, Harri; Kõo, Jakob; Ryabchikov, Alexander; Reitsnik, Renno; **Sergejev, Fjodor; Dong, Minjie** Residual stresses IX 2014 / p. 866-871 : ill <https://doi.org/10.4028/www.scientific.net/AMR.996.866> [Article at Scopus](#) [Article at WOS](#)

### **Relaxation of residual stresses in brush-plated gold coating**

Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; **Laaneots, Rein** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 491-496 : ill <http://innomet.ttu.ee/daaam08/Online/Materials%20Engineering/lille-koo-ryabchikov-laaneots.pdf>

### **Residual stresses and their relaxation in brush-plated gold and silver coatings**

Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; **Veinthal, Renno; Mikli, Valdek** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 39

### **Residual stresses in brush-plated gold coating**

Lille, Harri; **Kõo, Jakob**; Rjabtšikov, Aleksander; **Laaneots, Rein** Proceedings of the 57th Annual Conference on Applications of X-ray Analysis [Denver X-ray Conference] and the 8th International Conference on Residual Stresses : 4-8 August 2008, Denver, Colorado, USA 2009 / p. 320-327 : ill

### **Structure and stability of gold-substituted diborane, boranes and borohydride ions**

**Tamm, Toomas**; Pykkö, P. 5-th World Congress of Theoretically Oriented Chemists : London, 1-6 August, 1999 : book of abstracts 1999 / p. P118 <https://link.springer.com/article/10.1007/s002149900063>

### **Structure and stability of gold-substituted diborane, boranes, and borohydride ions**

**Tamm, Toomas**; Pykkö, Pekka Theoretical chemistry accounts 2000 / p. 399-408 <https://link.springer.com/article/10.1007/s002149900063>

### **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](#)

### **Thermal decomposition study of HAuCl<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](#)

### **Transformations of gold nanocontacts studied by molecular dynamics simulations**

Pokropivny, A.V.; Lõhmus, Rünno; Erts, D.; **Hussainova, Irina**; Olin, H.; Lõhmus, Ants Proceedings of International Conference on Nanotechnology NANOTECH 2004 : January 8-12, 2004, Boston, USA 2004 / p. ?

### **Ultra thin TiO<sub>2</sub> films with gold nanoparticles by the chemical spray pyrolysis method**

**Oja Acik, Ilona; Oyekoya, G.; Dedova, Tatjana; Mikli, Valdek; Mere, Arvo; Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo Joint 12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference Functional Materials and Nanotechnologies : Institute of Solid State Physics, University of Latvia, September 29-October 2, Riga, Latvia : book of abstracts 2014 / p. 296

### **Исследование дефектов, возникающих в сульфиде кадмия при легировании медью, серебром и золотом**

**Aarna, Heiti; Öpik, Andres**; Kreek, M.; **Kukk, Peeter-Enn** Свойства легированных полупроводников 1977 / с. 100-104 : ил [https://www.ester.ee/record=b2708631\\*est](https://www.ester.ee/record=b2708631*est)

### **Исследование дефектов, возникающих в сульфиде кадмия при легировании медью, серебром и золотом**

**Aarna, Heiti; Öpik, Andres**; Kreek, M.; **Kukk, Peeter-Enn** Всесоюзная конференция по физико-химическим основам легирования полупроводниковых материалов : тезисы докладов 1975 / с. [110]

### **Спектрохимический метод определения золота в силикатных породах кристаллического фундамента**

**Hõdrejõrv, Helvi**; Reiman, Irina; **Petersell, Valter** Eesti NSV Teaduste Akadeemia toimetised. Keemia. Geoloogia = Известия Академии наук Эстонской ССР. Химия. Геология 1975 / с. 176-178 : ил [https://www.ester.ee/record=b1264554\\*est](https://www.ester.ee/record=b1264554*est) <https://www.etera.ee/zoom/18509/view?page=1&p=separate&tool=info>

### **Электронно-микроскопическое исследование слоев золота, полученных катодным распылением**

**Tikka, Enn**; Meiler, Boriss Труды по физике : сборник статей. 7 1975 / с. 23-28 : илл [https://www.ester.ee/record=b2190700\\*est](https://www.ester.ee/record=b2190700*est)  
<https://digikogu.taltech.ee/et/Item/bf8b5df4-d382-41b8-b242-1b2db192e257>