

**Abrasive wear resistance of the composite Fe alloy - recycled hardmetal based HVOF sprayed coatings**  
**Surženkov, Andrei; Sarjas, Heikki; Mikli, Valdek; Tarbe, Riho; Vallikivi, Ahto; Kulu, Priit** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 24

**AFM and SEM investigations of ion beam synthesized Mg<sub>2</sub>Si precipitates in Si substrates**  
Angelov, Christo; **Mikli, Valdek**; Amov, Blagoj; Goranova, E. Journal of optoelectronics and advanced materials 2005 / 1, p. 369-373

**Ageing of kesterite solar cells 2 : Impact on photocurrent generation**  
**Samieipour, Ali; Neubauer, Christian; Oueslati, Souhaib; Mikli, Valdek; Meissner, Dieter** Thin solid films 2019 / p. 509-513 : ill  
<https://doi.org/10.1016/j.tsf.2018.11.044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of elemental composition of a heat activated, multi-force, nickel titanium orthodontic archwire**  
Petrunov, V.; Andreeva, Laura; **Mikli, Valdek** Bulgarian chemical communications 2015 / p. 229-233 : ill

**Analysis of fill factor losses in thin film CdS/CdTe photovoltaic devices**  
Potlog, Tamara; Spalatu, Nicolae; Ciobanu, V.; **Hiie, Jaan; Mere, Arvo; Mikli, Valdek; Valdna, Vello** Moldavian journal of the physical sciences 2010 / 3/4, p. 363-367

**Angularity evaluation of milled WC-Co powder**  
**Kulu, Priit; Mikli, Valdek; Käerdi, Helmo**; Besterici, Michal International journal of materials & product technology 2005 / p. 289-298 : ill

**Angularity of the disintegrated ground hardmetal powder particles**  
**Mikli, Valdek; Kulu, Priit; Käerdi, Helmo**; Besterici, Michal Medžiagotyra = Materials science 2002 / 4, p. 430-433 : ill

**Angularity of the disintegrated ground hardmetal powder particles**  
**Mikli, Valdek; Kulu, Priit; Käerdi, Helmo**; Besterici, Michal Abstracts of International Conference Materials Engineering and Tribology 2002 / ? p

**Annealing effect for SnS thin films prepared by high-vacuum evaporation**  
**Revathi, Naidu; Bereznev, Sergei; Loorits, Mihkel; Raudoja, Jaan; Lehner, Julia; Gurevitš, Jelena; Traksmaa, Rainer; Mikli, Valdek; Mellikov, Enn; Volobujeva, Olga** Journal of vacuum science & technology A 2014 / p. 061506-1 - 061506-6 : ill

**Application of image analysis methods to characterize the impact-milled WC-Co powder particles**  
**Mikli, Valdek; Kulu, Priit; Käerdi, Helmo** Book of abstracts of 8th European Congress for Stereology and Image Analysis : Bordeaux, France, 2001 2001 / p. 196-197

**Application of image analysis methods to characterize the impact-milled WC-Co powder particles**  
**Mikli, Valdek; Kulu, Priit; Käerdi, Helmo** Image anal. stereology 2001 / Suppl. 1, Proc. 8th ECS and Image Analysis, p. 199-204

**Applications of recycled hardmetal powder**  
**Zimakov, Sergei; Pihl, Toomas; Kulu, Priit; Antonov, Maksim; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 4, p. 304-316 : ill

**Applications of recycled hardmetal powder**  
**Zimakov, Sergei; Pihl, Toomas; Kulu, Priit; Antonov, Maksim; Mikli, Valdek** Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 43-44

**Aqueous photocatalytic degradation of selected micropollutants by Pd-modified titanium dioxide**  
**Klauson, Deniss; Šakarašvili, Marko; Pronina, Natalja; Kritševskaja, Marina; Kärber, Erki; Mikli, Valdek** European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : conference program and book of abstracts 2015 / p. 126 : ill

**Aqueous photocatalytic degradation of selected micropollutants by Pd-modified titanium dioxide**  
**Klauson, Deniss; Šakarašvili, Marko; Pronina, Natalja; Kritševskaja, Marina; Kärber, Erki; Mikli, Valdek** European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : book of proceedings 2015 / [3] p. : ill

**Aqueous photocatalytic degradation of selected micropollutants by Pd-modified titanium dioxide in three photoreactor types**  
**Klauson, Deniss; Šakarašvili, Marko; Pronina, Natalja; Kritševskaja, Marina; Kärber, Erki; Mikli, Valdek** Environmental technology 2017 / p. 860-871 : ill <https://doi.org/10.1080/09593330.2016.1214185>

**Armor materials' behavior under repetitive dense plasma shots**  
Shirokova, Veronika; Laas, Tõnu; **Mikli, Valdek** Physica scripta 2014 / p. 1-5 : ill

### Ash melting behaviour of reed and woody fuels blends

Link, Siim; Yrjäs, Patrik; Lindberg, Daniel; **Trikkel, Andres; Mikli, Valdek** Fuel 2022 / art. 123051

<https://doi.org/10.1016/j.fuel.2021.123051> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### Assesment of non-metallic inclusions in sheet metals by computer analysis

Peetsalu, Priidu; Saarna, Mart; **Mikli, Valdek** Proceedings of the Seventh International Conference on Clean Steel, Hungary, 2007 2007 / p. 332-341

### Automatic evaluation of the structure parameters of WC-Co thermal spray coating by image analysis techniques

Peetsalu, Priidu; **Mikli, Valdek; Ratas, Karin; Kulu, Priit** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 49

### Average residual stresses in hard Physical Vapor Deposited (PVD) coatings

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Mikli, Valdek; Adoberg, Eron; Vagiström, Heinar; Kübarsepp, Jakob; Peetsalu, Priidu** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 20-25 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.20> [https://www.esther.ee/record=b5235278\\*est](https://www.esther.ee/record=b5235278*est) Conference proceeding at Scopus Article at Scopus

### AXES 1.9 : new tools for estimation of crystallite size and shape by Williamson-Hall analysis

Mändar, H.; Felsche, J.; **Mikli, Valdek**; Vajakas, T. Journal of applied crystallography 1999 / p. 345-350

### Bainitic structure effect on hydrogen embrittlement

Peetsalu, Priidu; **Mikli, Valdek; Ratas, Karin; Kulper, Eha; Jaason, Karli** Journal of the Japan Society for Heat Treatment 2009 / p. 592-595

### Behavior of Estonian oil shale in acidic oxidative conditions

Niidu, Allan; Grenman, Henrik; **Muldma, Kati; Kaldas, Kristiina; Mikli, Valdek; Lopp, Margus** Frontiers in Chemical Engineering 2022 / art. 590115 <https://doi.org/10.3389/fceng.2022.590115>

### Broad-band photoluminescence of donor-acceptor pairs in tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> microcrystals

Krustok, Jüri; Raadik, Taavi; Kaupmees, Reelika; Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; **Mikli, Valdek; Grossberg, Maarja** Journal of physics D: applied physics 2021 / art. 105102, 7 p. : ill <https://doi.org/10.1088/1361-6463/abce29> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### BSCCO ceramics doped with ferromagnetic manganite phases

Staneva, Anna; Stoyanova-Ivanova, Angelina; **Terzieva, Stanimira**; Shoumarova, Janna; Grigorov, K.; Zaleski, Andrzej; **Mikli, Valdek**; Angelov, Christo; Dimitrov, Yanko Journal of optoelectronics and advanced materials 2009 / 10, p. 1541-1544 [https://www.researchgate.net/publication/279900785\\_BSCCO\\_ceramics\\_doped\\_with\\_ferromagnetic\\_manganite\\_phases](https://www.researchgate.net/publication/279900785_BSCCO_ceramics_doped_with_ferromagnetic_manganite_phases)

### Calcium fluor- and hydroxyapatites modified or not as catalysts for C-C bond formation

Gruselle, Michel; **Kanger, Tõnis**; Flambard, Alexandrine; **Kriis, Kadri; Mikli, Valdek; Maaten, Birgit; Tönsuaadu, Kaia** International Conference Catalysis in Organic Synthesis ICCOS-2012 : September 15-20, 2012, Moscow, Russia : book of abstracts 2012 / p. 190

### Calcium hydroxyapatites as efficient catalysts for the Michael C-C bond formation

Gruselle, Michel; **Kanger, Tõnis**; Thouvenot, Rene; Flambard, Alexandrine; **Kriis, Kadri; Mikli, Valdek; Traksmaa, Rainer; Maaten, Birgit; Tönsuaadu, Kaia** ACS catalysis 2011 / p. 1729-1733 : ill

### Carbon aerogel platinum-praseodymium oxide nanocatalyst for methanol oxidation in 0.5 M sulfuric acid : (digital presentation)

Pirts, Alise-Valentine; Nerut, Jaak; Kasuk, Heili; **Koel, Mihkel**; Sepp, Silver; Valk, Peeter; Aruväli, Jaan; Koppel, Miriam; **Mikli, Valdek; Volobujeva, Olga**; Lust, Enn ECS transactions 2022 / art. 79 <https://doi.org/10.1149/10807.0079ecst> Journal metrics at Scopus Article at Scopus

### Characterisation of metallic powders produced by disintegrator technology

**Mikli, Valdek; Kulu, Priit; Tumanok, Aleksei; Kärdi, Helmo**; Kohutek, Ivan; Besterci, Michal International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 115-118: ill

### Characterisation of milled bromosodalite powder by XRPD and TEM methods

Mändar, H.; Haav, A.; **Mikli, Valdek; Paat, Aadu**; Felsche, J. Sixteenth European Crystallographic Meeting (ECM-16) : Lund, Sweden, 6-11 August 1995 : [abstracts] 1995 / P06-09, p. 52

### Characterisation of samarium and nitrogen co-doped TiO<sub>2</sub> films prepared by chemical spray pyrolysis

Oja Acik, Ilona; Kiisk, Valter; **Krunks, Malle; Sildos, Ilmo; Junolainen, Agne; Danilson, Mati; Mere, Arvo; Mikli, Valdek** Applied

**Characterisation of zirconium doped titanium dioxide thin films deposited by chemical spray pyrolysis**

Oluwabi, Abayomi Titilope; Oja Acik, Ilona; Krunks, Malle; Mikli, Valdek; Juma, Albert Owino Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-210 - VII-218

**Characterization and comparison of as received and clinically retrieved Bio-active™ orthodontic archwires**

Georgieva, Mirela; Stoyanova-Ivanova, Angelina; Cherneva, Sabina; Petrov, Valeri; Petrova, Violeta; Andreeva, Laura; Mihailov, Valentin; Petkov, Alexander; Mikli, Valdek Biotechnology and biotechnological equipment 2021 / p. 1301-1311 : ill

<https://doi.org/10.1080/13102818.2021.1964381> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Characterization of composite thermal spray powders**

Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit EURO PM2005 : congress & exhibition : 2-5 October 2005, Prague, Czech Republic : proceedings. Volume 2 2005 / p. 87-91

**Characterization of disintegrator milled electronic waste powders for combustion and pyrolysis**

Kers, Jaan; Goljandin, Dmitri; Vilasaar, Kristiina; Tall, Kaspar; Mikli, Valdek; Zuo, Xiangjun; Zhang, Lifeng 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 61

**Characterization of disintegrator milled electronic waste powders for materials recovery**

Kers, Jaan; Goljandin, Dmitri; Vilasaar, Kristiina; Tall, Kaspar; Mikli, Valdek; Zuo, Xiangjun; Zhang, L.; Schuman, T. Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 492-497 : ill

**Characterization of disintegrator milled hardmetal powder**

Kulu, Priit; Mikli, Valdek; Käerdi, Helmo; Besterici, Michal Powder metallurgy progress 2003 / p. 39-48 : ill

**Characterization of mechanically milled cermet powders produced by disintegrator technology**

Käerdi, Helmo; Goljandin, Dmitri; Kulu, Priit; Sarjas, Heikki; Mikli, Valdek Engineering materials and tribology 2013 / p. 148-153

**Characterization of metallic powders by different analyzing methods**

Mikli, Valdek; Kulu, Priit; Zimakov, Sergei; Käerdi, Helmo Proceedings of Joint Nordic Conference in Powder Technology : May 5-6, 1999, Oslo, Norway 1999 / p. 18

**Characterization of metallic powders produced by mechanical milling**

Mikli, Valdek; Kulu, Priit; Zimakov, Sergei; Käerdi, Helmo Proceedings of the 8th International Baltic Conference : Materials Engineering-99 : September 23-24, Kaunas, Lithuania 1999 / p. 153

**Characterization of metallic powders produced by mechanical milling**

Mikli, Valdek; Kulu, Priit; Zimakov, Sergei; Käerdi, Helmo Medžiagotyra = Materials science 1999 / 2, p. 19-21: ill

**Characterization of morphology of hardmetal powder particles**

Käerdi, Helmo; Mikli, Valdek; Kulu, Priit; Velgosova, Oksana; Kohutek, Ivan; Besterici, Michal Materials Engineering & Balttrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 3-7 : ill

**Characterization of powder particle angularity**

Mikli, Valdek; Käerdi, Helmo; Kulu, Priit; Besterici, Michal Acta metallurgica Slovaca 2001 / 1, p. 75-78

**Characterization of powder particle morphology**

Mikli, Valdek; Käerdi, Helmo; Kulu, Priit; Besterici, Michal Proceedings of the Estonian Academy of Sciences. Engineering 2001 / 1, p. 22-34 : ill

**Characterization of sprayed CuInS<sub>2</sub> films annealed in hydrogen sulfide atmosphere**

Krunks, Malle; Mere, Arvo; Katerski, Atanas; Mikli, Valdek; Krustok, Jüri Thin solid films 2006 / p. 434-438 : ill

**Characterization of sprayed large grain CuInS<sub>2</sub> as absorbers for solar cells**

Krunks, Malle; Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Mikli, Valdek 20-th NSM : Tampere, 2003 2003

**Characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograins materials grown in molten CdI<sub>2</sub> and LiI**

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Pilvet, Maris; Kaupmees, Reelika; Krustok, Jüri; Grossberg, Maarja; Kauk-Kuusik, Marit Thin solid films 2021 / art. 138980 <https://doi.org/10.1016/j.tsf.2021.138980> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Characterization of WC-Co composite thermal spray powder and coating**

**Characterization of WC-Co composite thermal spray powders and coatings**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 435-444 : ill

**Characterization of WC-Co thermal spray coatings based on the composite powders**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** Powder metallurgy progress : journal of science and technology of particle materials 2006 / p. 34-41 : ill

**Chemical bath deposition of SnS thin films from the solutions with different concentrations of tin and sulphur**

**Safonova, Maria; Mellikov, Enn; Mikli, Valdek; Kerm, Karin; Naidu, Revathi; Volobujeva, Olga** Inter Academia 2014 - Global Research and Education 2015 / p. 183-186 : ill <http://dx.doi.org/10.4028/www.scientific.net/AMR.1117.183>

**Chemical bath deposition of SnS thin films on ZnS and CdS substrates**

**Safonova, Maria; Nair, Padmanabhan Pankajakshy Karunakaran; Mellikov, Enn; Garcia, A. R.; Kerm, Karin; Revathi, Naidu; Romann, Tavo; Mikli, Valdek; Volobujeva, Olga** Journal of materials science : materials in electronics 2014 / p. 3160-3165 : ill

**Chemical etching of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograins powder materials for solar cell applications**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati; Grossberg, Maarja; Kauk-Kuusik, Marit** Materials science in semiconductor processing 2022 / art. 106291 <https://doi.org/10.1016/j.mssp.2021.106291> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

**Chemistry of CdCl<sub>2</sub>:O<sub>2</sub> flux for CdTe solar cell technology**

**Hiie, Jaan; Valdma, Vello; Kois, Julia; Danilson, Mati; Mikli, Valdek** Proceedings of the 19th EPVSECE conference 2004 / p. 927

**Chlorine doping of cadmium sulfide on the example of CBD CdS**

**Hiie, Jaan; Quinci, Frederico; Lugh, Vanni; Sergo, Valter; Valdma, Vello; Mikli, Valdek; Kärber, Erki; Raadik, Taavi** Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M08-17 <https://www.cambridge.org/core/journals/mrs-online-proceedings-library-archive/article/abs/chlorine-doping-of-cadmium-sulfide-on-the-example-of-cbd-cds/070F0DAEB40CD83B771895FED27CBEA1>

**CO<sub>2</sub> turned into a nitrogen doped carbon catalyst for fuel cells and metal-air battery applications**

**Ratso, Sander; Walke, Peter; Mikli, Valdek; Locs, Janis; Šmits, Krišjānis; Vitola, Virginija; Šutka, Andris; Kruusenberg, Ivar** Green chemistry 2021 / p. 4435-4445 <https://doi.org/10.1039/D1GC00659B> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

**Coating of ammonium nitrate prills with limestone and dolomite powders**

**Klimova, Irina; Trubatšenko, Marina; Kaljuvee, Tiit; Mikli, Valdek** WCPT6 2010 : World Student Congress on Particle Technology : Delft, The Netherlands, April 22-25, 2010 : book of abstracts, conference program 2010 / p. 50 : ill

**Cobalt-containing nitrogen-doped carbon aerogels as efficient electrocatalysts for the oxygen reduction reaction**

**Kreek, Kristiina; Sarapuu, Ave; Samolberg, Lars; Joost, Urmas; Mikli, Valdek; Koel, Mihkel; Tammeveski, Kaido** ChemElectroChem 2015 / p. 2079-2088 : ill <https://doi.org/10.1002/celc.201500275>

**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

**Comparative ellipsometric and ion beam analytical studies on ion beam crystallized silicon implanted with Zn and Pb ions**

Lohner, Tivador; Angelov, Christo; Mikli, Valdek Thin solid films 2008 / 22, p. 8009-8012

**Comparative investigation of disintegrated WC-Co powders by different analyzing methods**

**Mikli, Valdek; Kulu, Priit; Zimakov, Sergei; Käerdi, Helmo** Proceedings of the Third National DAAAM Conference in Estonia : SCIENCE '98 1998 / p. 103-106: ill

**Comparative investigation of disintegrated WC-Co powders by the methods of sieving and image processing**

**Mikli, Valdek; Kulu, Priit; Tumanok, Aleksei; Käerdi, Helmo** Materials Engineering - 98 : materials of the VII-th International Baltic Conference, September 24-25, Jurmala, Latvia 1998 / p. 9-13: ill

**Comparative investigation of the graphene-on-silicon carbide and CVD graphene as a basis for biosensor application**

**Sleptšuk, Natalja; Lebedev, Alexander A.; Eliseyev, Ilya; Korolkov, Oleg; Toompuu, Jana; Land, Raul; Mikli, Valdek; Zubov, Alexander; Rang, Toomas** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 185-190 : ill [https://www.esther.ee/record=b5235278\\*est](https://www.esther.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.185> <https://doi.org/10.4028/www.scientific.net/KEM.799.185> Conference proceeding at Scopus Article at

**Comparative study of perhydropolysilazane protective films**

**Shmagina, Elizaveta; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Surface engineering 2022 / p. 769-777: ill

<https://doi.org/10.1080/02670844.2022.2155445> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative study of SnS recrystallization in molten CdI<sub>2</sub>, SnCl<sub>2</sub> and KI**

**Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Mikli, Valdek; Kärber, Erki; Raadik, Taavi; Leinemann, Inga; Altosaar, Mare; Raudoja, Jaan** Physica status solidi (c) 2016 / p. 8-12 : ill <http://dx.doi.org/10.1002/pssc.201510082>

**Comparative study of the PVD coatings on the plasma nitrided steel**

**Surženkov, Andrei; Põdra, Priit; Sergejev, Fjodor; Saarna, Mart; Adoberg, Eron; Mikli, Valdek; Viljus, Mart; Kulu, Priit** Materials science = Medžiagotyra 2012 / p. 40-44 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1339>

**Comparative study of thin films prepared by different curing methods of perhydropolysilazane**

**Shmagina, Elizaveta; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / art. 54 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Comparison of benzimidazolediol-derived iron triad M–N–C nanomaterials as trifunctional catalysts in alkaline and acidic media : [manuscript]**

**Alam, Mahboob; Ping, Kefeng; Danilson, Mati; Mikli, Valdek; Käärik, Maike; Leis, Jaan; Aruväli, Jaan; Paiste, Päärn; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Kramm, Ulrike; Kongi, Nadežda; Starkov, Pavel** 2022

**Comparison of damages in tungsten and tungsten doped with lanthanum-oxide exposed to dense deuterium plasma shots**

Shirokova, Veronika; Laas, Tönu; **Mikli, Valdek** Journal of nuclear materials 2013 / p. 181-188 : ill

**Comparison of multifractal parameters of surface defects and non-defects**

Martsepp, Merike; Laas, Tönu; Tökk, Siim; Priimets, Jaanis; **Mikli, Valdek** Proceedings of the Estonian Academy of Sciences 2023 / p. 115-127 : ill <https://doi.org/10.3176/proc.2023.2.03>

**Comparison of values of residual stresses determined by various methods in hard nickel coatings prepared by brush-plating in sulfate solution**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; Reitsnik, Renno; **Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 680-687 : ill

**Composite powders based on iron self-fluxing alloy and recycled cermet powders for thermal spray**

**Goljandin, Dmitri; Sarjas, Heikki; Kulu, Priit; Surženkov, Andrei; Mikli, Valdek; Käerdi, Helmo** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 40

**Composition and structure of CuInS<sub>2</sub> films prepared by spray pyrolysis**

**Krunks, Malle; Mikli, Valdek; Bijakina, Olga; Rebane, Helen; Mere, Arvo; Varema, Tiit; Mellikov, Enn** EMRS Spring Meeting : Strasbourg, June 1-4, 1999 : book of abstracts 1999 / p. O-13

**Composition and structure of CuInS<sub>2</sub> films prepared by spray pyrolysis**

**Krunks, Malle; Mikli, Valdek; Bijakina, Olga; Rebane, Helen; Mere, Arvo; Varema, Tiit; Mellikov, Enn** Thin solid films 2000 / p. 61-64 : ill

**Composition of CuInS<sub>2</sub> thin films prepared by spray pyrolysis**

**Krunks, Malle; Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Mikli, Valdek; Mere, Arvo** Thin solid films 2002 / p. 71-75 : ill

**Composition of CuInS<sub>2</sub> thin films prepared by spray pyrolysis**

**Krunks, Malle; Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Mikli, Valdek; Mere, Arvo** E-MRS 2001 Spring Meeting : book of abstracts 2001 / p. P-4

**Compositionally tunable structure and optical properties of Cu<sub>1.85</sub>(Cd<sub>x</sub>Zn<sub>1-x</sub>)<sub>1.1</sub>SnS<sub>4.1</sub> (0 ≤ x ≤ 1) monograins powders**

**Pilvet, Maris; Kauk-Kuusik, Marit; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Timmo, Kristi; Mere, Arvo; Mikli, Valdek** Thin solid films 2015 / p. 180-183 : ill <http://dx.doi.org/10.1016/j.tsf.2014.10.091>

**Computer based steel microstructure analysis describing the size and distribution of structure phases**

Peetsalu, Priidu; Saarna, Mart; Mikli, Valdek; Juurma, Madis Acta metallurgica Slovaca 2007 / 1, p. 91-95

**Conductive ceramic based on the Bi-Sr-Ca-Cu-O HTSC system as an additive to the zinc electrode mass in the rechargeable Ni-Zn batteries – Electrochemical impedance study**

**Stoyanova-Ivanova, Angelina; Vasev, Alexander; Lilov, Peter; Petrova, Violeta; Marinov, Yordan; Stoyanova, Antonia; Ivanova, Galia; Mikli, Valdek** Comptes Rendus de L'Academie Bulgare des Sciences 2019 / p. 174-181  
<https://doi.org/10.7546/CRABS.2019.02.05> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Correlation between the UV-reflectance spectra and the structure of poly-Si films obtained by aluminium induced crystallization**

Dimova-Malinovska, D.; Angelov, O.; Sendova-Vassileva, M.; **Mikli, Valdek** Journal of optoelectronics and advanced materials 2009 / 9, p. 1079-1085 [https://www.researchgate.net/publication/288122478\\_Correlation\\_between\\_the\\_UV-reflectance\\_spectra\\_and\\_the\\_structure\\_of\\_poly-Si\\_films\\_obtained\\_by\\_Aluminium\\_Induced\\_Crystallization](https://www.researchgate.net/publication/288122478_Correlation_between_the_UV-reflectance_spectra_and_the_structure_of_poly-Si_films_obtained_by_Aluminium_Induced_Crystallization)

### **Correlation of upper Llandovery betonites in the Baltic region**

Kiipli, Tarmo; Kallaste, Toivo; Kiipli, Enli; **Mikli, Valdek**; Kägu, Maris The Fifth Baltic Stratigraphical Conference "Basin Stratigraphy - Modern Methods and Problems" : September 22-27, 2002, Vilnius, Lithuania : extended abstracts 2002 / p. 80-83

### **Corrosion failure of columnar TiN layer by enhanced anodic oxidation**

Rudenja, Sergei; Kulu, Priit; **Mikli, Valdek** Abstracts of MRS Meeting : San-Fransisco, USA, 2001 2001 / p. 331

### **Corrosion perfomance of duple TiN coatings deposited by arc plating**

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; **Mikli, Valdek** International Conference on Advanced Materials : ICAM'97. European Materials Research Society Spring Meeting : E-MRS'97 : Strasbourg, France, June 16-20, 1997 : book of abstracts 1997 / p. K-32

### **Corrosion performance and structure of the titanium-based coatings deposited onto stainless steel substrate with arc plating**

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; **Mikli, Valdek**; Erikhov, F.; Straede, C.A.; Zwieg, T. Proceedings of the 40th Annual Technical Conference / Society of Vacuum Coaters 1997 / p. 58-63 : ill

### **Corrosion performance of duplex TiN coatings deposited by arc plating**

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; **Mikli, Valdek**; Straede, C.A. Surface & coatings technology 1998 / p. 247-250 : ill

### **Corrosion performance of titanium-based composite coatings deposited by physical vapour deposition**

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; **Mikli, Valdek**; Forsen, Olof Proceedings of the Estonian Academy of Sciences. Engineering 1996 / p. 14-25 : ill

### **Corrosion resistance of the stainless steel substrate coated by PVD**

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; **Mikli, Valdek** Materials Engineering-96 : materials of VI-th International Baltic Conference, Kaunas, 22-23 October 1996 1996 / p. 3-6

### **Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin layer solar cells for flexible photovoltaic applications**

**Kauk-Kuusik, Marit; Timmo, Kristi; Pilvet, Maris; Muska, Katri; Danilson, Mati; Krustok, Jüri; Josepson, Raavo; Mikli, Valdek; Grossberg-Kuusk, Maarja** Journal of materials chemistry A 2023 / p. 23640-23652 <https://doi.org/10.1039/D3TA04541B>

### **Cu(In,Ga)Se<sub>2</sub> monograin powders with different Ga content for solar cells**

**Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Kaupmees, Reelika; Mikli, Valdek; Raudoja, Jaan; Varema, Tiit** Solar energy 2018 / p. 648–655 : ill <https://doi.org/10.1016/j.solener.2018.10.078> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **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; Krunks, Malle; Sildos, Ilmo** Applied physics. A, Materials science & processing 2014 / p. 455-458 : ill

### **CuInS<sub>2</sub> thin films: formation by spray pyrolysis and properties**

**Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Mellikov, Enn** The Fourth Baltic Symposium on Atomic Layer Epitaxy, Tartu, Estonia, October 10-11, 1997 : abstracts 1997 / p. 30

### **CuInS<sub>2</sub> õhukesed kiled fotoelementidele pihustus-pürolüüsmeetodil**

**Krunks, Malle; Bijakina, Olga; Varema, Tiit; Mere, Arvo; Mikli, Valdek** XXV Eesti keemiatäiendatud konverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 60-61

### **Dependence of multifractal analysis parameters on the darkness of a processed image**

Martsepp, Merike; Laas, Tönu; Laas, Katrin; **Priimets, Jaanis; Tökke, Siim; Mikli, Valdek** Chaos, Solitons & Fractals 2022 / art. 111811 <https://doi.org/10.1016/j.chaos.2022.111811> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Dependence of the friction coefficient on roughness parameters during early stage fretting of (Al,Ti)N coated surfaces**

Podgurski, Vitali; Adoberg, Eron; Surženkov, Andrei; Kimmari, Eduard; Viljus, Mart; **Mikli, Valdek; Hartelt, M.; Wäsche, R.; Šima, M.; Kulu, Priit** Wear 2011 / p. 853-858 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0043164811001815>

**Deposition of hard titan-based coatings with minimized content of microdroplets phase by arc evaporation**  
Kulu, Priit; Rudenja, Sergei; Mikli, Valdek Tallinna Tehnikaülikooli Toimetised 1994 / lk. 61-76: ill

**Deposition of p-type NiO films by chemical spray pyrolysis**  
Krunks, Malle; Soon, Jaanika; Unt, Tarmo; Mere, Arvo; Mikli, Valdek Vacuum 2014 / p. 242-246 : ill

**Determination of charge carrier density in zinc oxide nanorods prepared by chemical spray pyrolysis**  
Kärber, Erki; Dedova, Tatjana; Oja Acik, Ilona; Krunks, Malle; Mere, Arvo; Mikli, Valdek Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010 / p. 340-344

**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

**Development of band gap tuned CU2ZN(SN1-XGEX)S4 monograins powders**  
Mengu, Idil; Grossberg-Kuusk, Maarja; Muska, Katri; Pilvet, Maris; Mikli, Valdek; Kaupmees, Reelika; Krustok, Jüri; Kauk-Kuusik, Marit Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 39 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Development of CdTe absorber layer for thin-film solar cells = CdTe absorberkile arendamine õhukesekilelistele päikesepatareidele**  
Spalatu, Nicolae 2017 <https://digi.lib.ttu.ee/I/?7230> [https://www.ester.ee/record=b4649791\\*est](https://www.ester.ee/record=b4649791*est)

**Development of Functional Composite Cu(II)-Polyoxometalate/PLA with Antimicrobial Properties**  
Duvanova, Ella; Krasnou, Illia; Krumme, Andres; Mikli, Valdek; Rozantsev, Georgiy M.; Radio, Serhii V.; Karpichev, Yevgen Molecules 2022 / art. 2510 <https://doi.org/10.3390/molecules27082510> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

**Development of sprayed CulnS<sub>2</sub> thin film absorber for nanostructured solar cell**  
Katerski, Atanas; Kärber, Erki; Krunks, Malle; Mikli, Valdek; Mere, Arvo Materials Research Society symposium proceedings 2012 <https://www.researchgate.net/publication/271903084> [Development\\_of\\_sprayed\\_CulnS<sub>2</sub>\\_thin\\_film\\_absorber\\_for\\_nanostructured\\_solar\\_cell](#)

**Development of the morphology and granulometry methods for characterization of WC-Co hardmetal powders**  
Mikli, Valdek; Kulu, Priit; Kärdi, Helmo Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 189-192 : ill

**Direct CVD growth of multi-layered graphene closed shells around alumina nanofibers**  
Ivanov, Roman; Mikli, Valdek; Kübarsepp, Jakob; Hussainova, Irina Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 77-80 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.77>

**Directly electrospun electrodes for electrical double-layer capacitors from carbide-derived carbon**  
Malmberg, Siret; Arulepp, Mati; Savest, Natalja; Tarasova, Elvira; Vassiljeva, Viktorija; Krasnou, Illia; Käärik, Maike; Mikli, Valdek; Krumme, Andres Journal of electrostatics 2020 / art. 103396, 7 p. : ill <https://doi.org/10.1016/j.elstat.2019.103396> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

**Double-cemented recycled hardmetal based powders for thermal spray**  
Mikli, Valdek; Kulu, Priit; Tarbe, Riho; Peetsalu, Priidu Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 211-214 : ill

**Duplex TiN coatings deposited by arc plating for increased corrosion resistance of stainless steel substrates**  
Rudenja, Sergei; Leygraf, C.; Pan, J.; Kulu, Priit; Talimets, Ellen; Mikli, Valdek Surface & coatings technology 1999 / p. 129-136 : ill [http://dx.doi.org/10.1016/S0257-8972\(99\)00033-X](http://dx.doi.org/10.1016/S0257-8972(99)00033-X)

**Duplex titanium nitride coatings for corrosion prevention of stainless steel substrate**  
Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek Proceedings [of] Joint Nordic Conference in Powder Technology, November 26-27, 1997, Helsinki 1997 / p. 37

**EDTA ja tsitraatioonide mõju Cd<sup>2+</sup> ionide sidumisele apatiidiga**  
Tönsuaadu, Kaia; Vatter, Karin; Peld, Merike; Mikli, Valdek XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 125

**Effect of absorber surface modification on the optoelectronic properties of Cu<sub>2</sub>CdGeSe<sub>4</sub> solar cells**  
Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Danilson, Mati; Mikli, Valdek; Kauk-Kuusik, Marit Thin solid

**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://fmtdk.ut.ee/teesid-2018/>

**Effect of basalt addition on tribological performance of FeCrSiB HVOF coatings**

Antonov, Maksim; Surženkov, Andrei; Hussainova, Irina; Goljandin, Dmitri; Mikli, Valdek Estonian journal of engineering 2012 / p. 211-220 : ill [https://artiklid.elnet.ee/record=b2527729\\*est](https://artiklid.elnet.ee/record=b2527729*est)

**Effect of cBN content and additives on sliding and surface fatigue wear of spark plasma sintered Al<sub>2</sub>O<sub>3</sub>-cBN composites**

Kumar, Rahul, 1993-; Antonov, Maksim; Klimczyk, Piotr; Mikli, Valdek; Gomon, Dmitri Wear 2022 / art. 204250 <https://doi.org/10.1016/j.wear.2022.204250> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of CdCl<sub>2</sub> annealing treatment on structural and optoelectronic properties of close spaced sublimation CdTe/CdS thin film solar cells vs deposition conditions**

Spalatu, Nicolae; Hiie, Jaan; Mikli, Valdek; Krunks, Malle; Valdma, Vello; Maticiuc, Natalia; Raadik, Taavi; Caraman, Mihail Thin solid films 2015 / p. 128-133 : ill <http://dx.doi.org/10.1016/j.tsf.2014.11.066>

**Effect of CdCl<sub>2</sub> vapor phase pretreatment annealing on the properties of CSS CdS and CdTe/CdS thin film solar cells**

Spalatu, Nicolae; Hiie, Jaan; Valdma, Vello; Krunks, Malle; Caraman, Mihail; Mikli, Valdek; Maticiuc, Natalia 2014 Spring Meeting Lille, France : May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 17

**Effect of erodent particle impact energy on wear of cemented carbides**

Antonov, Maksim; Yung, Der-Liang; Goljandin, Dmitri; Mikli, Valdek; Hussainova, Irina Wear 2017 / p. 507-515 : ill <https://doi.org/10.1016/j.wear.2016.11.032>

**Effect of germanium incorporation on the properties of kesterite Cu<sub>2</sub>ZnSn(S,Se)4 monograins**

Oueslati, Souhaib; Grossberg, Maarja; Kauk-Kuusik, Marit; Mikli, Valdek; Ernits, Kaia; Meissner, Dieter; Krustok, Jüri Thin solid films 2019 / p. 315–320 : ill <https://doi.org/10.1016/j.tsf.2018.11.020> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of H<sub>2</sub>S treatment on properties of CulnS<sub>2</sub> thin films deposited by chemical spray pyrolysis at low temperature**

Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo; Krunks, Malle Thin solid films 2011 / p. 7180-7183 : ill

**Effect of heat treatment on the phase transformation and magnetic properties of BPSCCO/LPMO composites**

Staneva, Anna; Blagoev, Blagoy; Mikli, Valdek Journal of alloys and compounds 2014 / p. 223-228 : ill

**Effect of precipitation conditions on the apatite structure**

Tönsuaadu, Kaia; Peld, Merike; Mikli, Valdek; Bender, Villem Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 122

**Effect of pulsed deuterium plasma irradiation on dual-phase tungsten high-entropy alloys**

Tökk, Siim; Laas, Tõnu; Priimets, Jaanis; Tarraste, Marek; Mikli, Valdek; Antonov, Maksim Fusion engineering and design 2022 / 11 p. : ill <https://doi.org/10.1016/j.fusengdes.2022.113260> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of solution composition on anatase to rutile transformation of sprayed TiO<sub>2</sub> thin films**

Juma, Albert Owino; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo; Krunks, Malle Thin solid films 2015 / p. 287-292 : ill <http://dx.doi.org/10.1016/j.tsf.2015.03.036>

**Effect of solution spray rate on the properties of chemically sprayed ZnO:In thin films**

Kriisa, Merike; Krunks, Malle; Kärber, Erki; Kukk, Mart; Mikli, Valdek; Mere, Arvo Journal of nanomaterials 2013 / p. 1-9 : ill

**Effect of substrate morphology on the nucleation and growth of ZnO nanorods prepared by spray pyrolysis**

Dedova, Tatjana; Oja Acik, Ilona; Krunks, Malle; Mikli, Valdek; Volobujeva, Olga; Mere, Arvo Thin solid films 2012 / p. 4650-4653 : ill

**Effect of Zn:S molar ratio in solution on the properties of ZnS thin films and the formation of ZnS nanorods by spray pyrolysis**

**Dedova, Tatjana; Krunks, Malle; Gromōko, Inga; Mikli, Valdek;** Sildos, Ilmo; Utt, Kathriin; Unt, Tarmo Physica status solidi (a) : applications and materials science 2014 / p. 514-521 : ill

**Effect of titanium(IV)isopropoxide and acetylacetone molar ratio in the solution on spray deposited TiO<sub>2</sub> films**

**Oja Acik, Ilona; Krunks, Malle; Mere, Arvo; Otto, Kairi; Mikli, Valdek** TÜ ja TTÜ doktorikool "Funktionsaalsed materjalid ja tehnoloogiad" 2013 / [1] p

**Effect of titanium(IV)isopropoxide and acetylacetone molar ratio in the solution on spray deposited TiO<sub>2</sub> films**

**Junolainen, Agne; Oja Acik, Ilona; Mikli, Valdek; Krunks, Malle** E-MRS 2011 Spring Meeting : program and book of abstracts. Symp. D : Nice, May 9-13, 2011 2011 / p. 18

**Efficiency enhancement of Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin layer solar cells via absorber post-growth treatments**

**Timmo, Kristi; Dolcet Sadurni, Marc; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek; Atlan, Fabien; Guc, Maxim; Izquierdo-Roca, Victor; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit** Solar energy materials and solar cells 2023 / art. 112090  
<https://doi.org/10.1016/j.solmat.2022.112090>

**Electrical characterization of annealed chemical-bath-deposited CdS films and their application in superstrate configuration CdTe/CdS solar cells**

**Graf, Aleksandr; Maticiuc, Natalia; Spalatu, Nicolae; Mikli, Valdek; Mere, Arvo; Gavrilov, Aleksei; Hiie, Jaan** Thin solid films 2015 / p. 351-355 : ill <http://dx.doi.org/10.1016/j.tsf.2014.11.003>

**Electrochemical behaviour of the duplex coatings in acidic electrolyte**

**Talimets, Ellen; Kulu, Priit; Rudenja, Sergei; Pan, J.; Leygraf, C.; Mikli, Valdek** 2nd Baltic Conference on Electrochemistry : Palanga, Lithuania, 10-12 June : extended abstracts 1999 / p. 159

**Electrochemical evaluation of TiN coatings**

**Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek; Straede, C.A.; Zwieg, T.** Proceedings of the Symposium on Interconnect and Contact Metallization 1998 / p. 108-119 : ill

**Electrochemical evaluation of TiN coatings**

**Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek; Straede, C.A.; Zwieg, T.** Meeting abstracts / The Electrochemical Society and The International Society of Electrochemistry 1997 / p. 1870

**Electrochemical synthesis of CdSe/CdTe nanowires for hybrid photovoltaic structures**

**Gurevitš, Jelena; Bereznev, Sergei; Mikli, Valdek; Naidu, Revathi; Mellikov, Enn; Kois, Julia** MRS proceedings 2014 / [6] p. : ill  
<https://doi.org/10.1557/opl.2014.576>

**Electroconductive fibrous mat prepared by electrospinning of polyacrylamide-g-polyaniline copolymers as electrode material for supercapacitors**

**Smirnov, Michael; Tarasova, Elvira; Mikli, Valdek; Vassiljeva, Viktoria; Krumme, Andres** Journal of materials science 2018 / p. 4859–4873 : ill <https://doi.org/10.1007/s10853-018-03186-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrodeposited CDSE nanomatrix for hybrid polymer solar cells**

**Gurevitš, Jelena; Bereznev, Sergei; Mikli, Valdek; Naidu, Revathi; Öpik, Andres; Mellikov, Enn; Kois, Julia** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 96 : ill

**Electron microscopy and image analysis study of powdered hardmetal materials and optoelectronic thin films**

**Mikli, Valdek** 2003 [https://www.ester.ee/record=b1782316\\*est](https://www.ester.ee/record=b1782316*est)

**Elemental composition and structural characteristics of as-received TriTaniumTM orthodontic archwire**

**Ilievska, I.; Petrov, V.; Mihailov, V.; Karatodorov, S.; Andreeva, L.; Zaleski, A.; Mikli, Valdek; Gueorgieva, M.; Petrova, V.** 20th International Summer School on Vacuum, Electron and Ion Technologies (VEIT 2017), 25-29 September 2017, Sozopol, Bulgaria 2018 / art. 012036, 5 p. : ill <https://doi.org/10.1088/1742-6596/992/1/012036> [Journal metrics](#) [Conference proceeding at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy levels determination of Zn(O,Se) thin films**

**Abdalla, Akram; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Materials science in semiconductor processing 2023 / art. 107137 <https://doi.org/10.1016/j.mssp.2022.107137>

**Enhanced passivity of austenitic AISI 304 stainless steel by low-temperature ion nitriding**

**Rudenja, Sergei; Pan, J.; Odnevall Wallinder, Inger; Leygraf, C.; Kulu, Priit; Mikli, Valdek** Journal of vacuum science & technology 2001 / 4, p. 1425-1431

**Enhanced passivity of austenitic AISI 304 stainless steel by low-temperature ion nitriding**

**Rudenja, Sergei; Odnevall Wallinder, Inger; Leygraf, C.; Kulu, Priit; Mikli, Valdek** Abstract of 47th International Symposium :

**Erosive wear of TiC-base cermets**

Kübarsepp, Jakob; Klaasen, Heinrich; Mikli, Valdek; Viljus, Mart Medžiagotyra = Materials science 2002 / 4, p. 486-488 : ill

**Erosive wear of TiC-base cermets**

Kübarsepp, Jakob; Klaasen, Heinrich; Mikli, Valdek; Viljus, Mart Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 41

**Evaluation of residual stresses in PVD coatings by means of tubular substrate length variation**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; Adoberg, Eron; Mikli, Valdek; Kübarsepp, Jakob; Peetsalu, Priidu Residual Stresses 2018 ECRS-10 : 10th European Conference on Residual Stresses(ECRS10) : Leuven, Belgium, 11-14th September, 2018 2018 / p. 131-136 : ill <https://doi.org/10.21741/9781945291890-21>

**Evolution of TiN coating surface roughness during physical vapor deposition on high speed steel substrate**

Kupchenko, Leonid; Tali, Rauno; Adoberg, Eron; Mikli, Valdek; Podgurski, Vitali Engineering materials & tribology XXII 2014 / p. 67-70

**Experimental spray powders and coatings produced from recycled hardmetal by various mechanical methods**

Tarbe, Riho; Zimakov, Sergei; Peetsalu, Priidu; Kulu, Priit; Mikli, Valdek Euro PM2006 : congress & exhibition : proceedings : PM in Belgium, a crossroads in industry development : 23-25 October 2006 : Ghent, Belgium. Vol. 1, Hard materials 2006 / p. 259-264

**Fast EDS analysis for determination of mineralogical objects composition**

Mikli, Valdek; Hodireva, V. Abstracts of 7th EMAS European Workshop : Tampere, 2001 2001 / p. 348

**Flow sensing and pumping using flexible permanent magnet beams**

Kruusing, Arvi; Mikli, Valdek The 8th International Conference on Solid-State Sensors and Actuators and Eurosensors IX : digest of technical papers : June 25-29, 1995, Stockholm, Sweden. Vol. 2, Sessions A7-D13, papers no 232-496 1995 / p. 299-302

**Flow sensing and pumping using flexible permanent magnet beams**

Kruusing, Arvi; Mikli, Valdek Sensors and actuators 1996 / p. 59-64

**Formation and recrystallization of CuInS<sub>2</sub> films in spray pyrolytic process**

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Varema, Tiit 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 33

**Formation of structure of the CdTe film, recrystallized on Mo/glass substrate under high temperature and mechanical pressure**

Mikli, Valdek; Hiie, Jaan; Valdna, Vello; Viljus, Mart; Traksmaa, Rainer; Kallavus, Urve Thin solid films 2009 / 7, p. 2252-2255 : ill

**Formation peculiarities of calcium hydroxyapatite Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub> during sol-gel processing [Electronic resource]**

Bogdanoviciene, Irma; Tõnsuaadu, Kaia; Mikli, Valdek; Grigoraviciute-Puroniene, Inga; Beganskiene, Aldona; Kareiva, Aivaras ECIS 2010 : 24th Conference of the European Colloid and Interface Society : September 5-10, Prague, Czech Republic 2010 / p. P.2.89 [CD-ROM]

**Fused hybrid linkers for metal-organic framework-derived bifunctional oxygen electrocatalysts**

Ping, Kefeng; Braschinsky, Alan; Alam, Mahboob; Bhaduria, Rohit; Mikli, Valdek; Mere, Arvo; Aruväli, Jaan; Paiste, Päärn; Vlassov, Sergei; Kook, Mati; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Kongi, Nadežda; Starkov, Pavel ACS Applied Energy Materials 2020 / p. 152–157 : ill <https://doi.org/10.1021/acsaem.9b02039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fused hybrid linkers for metal-organic frameworks-derived bifunctional oxygen electrocatalysts : [version 1.0] [Online resource]**

Ping, Kefeng; Braschinsky, Alan; Alam, Mahboob; Bhaduria, Rohit; Mikli, Valdek; Mere, Arvo; Starkov, Pavel ChemRxiv 2019 / 10 p., S16 p. : ill <https://doi.org/10.26434/chemrxiv.7687358>

**Fused hybrid linkers for metal-organic frameworks-derived bifunctional oxygen electrocatalysts : [version 2.0] [Online resource]**

Ping, Kefeng; Braschinsky, Alan; Alam, Mahboob; Bhaduria, Rohit; Mikli, Valdek; Mere, Arvo; Starkov, Pavel ChemRxiv 2019 / 10 p., S17 p. : ill <https://doi.org/10.26434/chemrxiv.7687358.v2>

**Gradient microstructure in tantalum formed under the wear track during dry sliding friction**

Kommel, Lembit; Põdra, Priit; Mikli, Valdek; Omranpour Shahreza, Babak Wear 2021 / art. 203573, 7 p. : ill <https://doi.org/10.1016/j.wear.2020.203573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Growth and electrical properties of ZnO nanorod arrays prepared by chemical spray pyrolysis**  
**Krunks, Malle; Dedova, Tatjana; Kärber, Erki; Mikli, Valdek; Oja Acik, Ilona; Grossberg, Maarja; Mere, Arvo** Physica B 2009 / p. 4422-4425 : ill

**Growth and properties of ZnO films on polymeric substrate by spray pyrolysis method**  
**Kriisa, Merike; Kärber, Erki; Krunks, Malle; Mikli, Valdek; Unt, Tarmo; Kukk, Mart; Mere, Arvo** Thin solid films 2014 / p. 87-92 : ill

**Growth and recrystallization of CuInS<sub>2</sub> films in spray pyrolytic process**  
**Krunks, Malle; Mikli, Valdek; Bijakina, Olga; Mellikov, Enn** Applied surface science 1999 / p. 356-361: ill

**Growth and recrystallization of CuInS<sub>2</sub> films in spray pyrolytic process**  
**Krunks, Malle; Mikli, Valdek; Bijakina, Olga; Varema, Tiit; Mellikov, Enn** Ninth International Conference on Solid Films and Surfaces : ICSFS-9 : July 6th - 10th, 1998, Copenhagen, Denmark : final program & the book of abstracts 1998 / p. P1.CG.13

**Growth of zinc oxide nanostructured layers on SnO<sub>2</sub> electrodes by spray pyrolysis**  
**Dedova, Tatjana; Volobujeva, Olga; Gromöko, Inga; Mikli, Valdek; Mere, Arvo; Krunks, Malle** TÜ ja TTÜ doktorikool "Funktsoonalaised materjalid ja tehnoloogiad" 2013 / [1] p

**Growth of ZnO rods on FTO electrodes by spray pyrolysis**  
**Dedova, Tatjana; Volobujeva, Olga; Krunks, Malle; Mikli, Valdek; Gromöko, Inga; Katerski, Atanas; Mere, Arvo** IOP conference series : materials science and engineering 2013 / [4] p. : ill

**Growth of ultra-thin TiO<sub>2</sub> films by spray pyrolysis on different substrates**  
**Oja Acik, Ilona; Junolainen, Agne; Mikli, Valdek; Danilson, Mati; Krunks, Malle** Applied surface science 2009 / 5, p. 1391-1394 : ill

**Halogeensodaliitide uurimine elektrosondi meetoditega : magistritöö väitekiri**  
**Mikli, Valdek** 1995 [https://www.esther.ee/record=b2078841\\*est](https://www.esther.ee/record=b2078841*est)

**Heteroatom-doped nanocarbons derived from black liquor as the oxygen reduction reaction catalysts**  
Kaare, Kätilin; Kruusenberg, Ivar; Volperts, Aleksandrs; Zhurinsh, Aivars; Dobele, Galina; **Walke, Peter; Mikli, Valdek** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 53 [https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**High strength steel behaviour during hot dip galvanizing**  
Sepper, Sirli; Peetsalu, Priidu; Saarna, Mart; Kirs, V.; **Mikli, Valdek** Proceedings 20th IFHTSE : International Federation for Heat Treatment and Surface Engineering Congress : Beijing, China, October 23-25, 2012 2012 / p. 525-529

**High temperature electrical conductivity in ZnSe:In and in CdSe:In under selenium vapor pressure**  
**Lott, Kalju; Šinkarenko, Svetlana; Volobujeva, Olga; Tüür, Leo; Nirk, Tiit; Öpik, Andres; Nisumaa, Reet; Kallavus, Urve; Nöges, M.; Mikli, Valdek; Viljus, Mart**; Gorokhova, Elena; Ananjeva, G.; Grebennik, A.; Vishnjakov, A. Physica status solidi (b) 2007 / 5, p. 1623-1626  
[https://www.researchgate.net/publication/238892320\\_High\\_temperature\\_electrical\\_conductivity\\_in\\_ZnSeln\\_and\\_in\\_CdSeln\\_under\\_selenium\\_vap\\_or\\_pressure](https://www.researchgate.net/publication/238892320_High_temperature_electrical_conductivity_in_ZnSeln_and_in_CdSeln_under_selenium_vap_or_pressure)

**Identification of excitons and biexcitons in Sb<sub>2</sub>Se<sub>3</sub> under high photoluminescence excitation density**  
**Krustok, Jüri; Kondrotas, Rokas; Nedzinskas, Ramunas; Timmo, Kristi; Kaupmees, Reelika; Mikli, Valdek; Grossberg, Maarja** Advanced optical materials 2021 / 8 p. : ill <https://doi.org/10.1002/adom.202100107> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Impact and sliding wear properties of single layer, multilayer and nanocomposite physical vapour deposited (PVD) coatings on the plasma nitrided low-alloy 42CrMo4 steel**  
Surženkov, Andrei; Adoberg, Eron; Põdra, Priit; Sergejev, Fjodor; Mere, Arvo; Viljus, Mart; Mikli, Valdek; Antonov, Maksim; Kulu, Priit Engineering materials and tribology 2013 / p. 223-228 : ill

**Impact of 1-butyl-3-methylimidazolium chloride on the electrospinning of cellulose acetate nanofibers**  
Javed, Kashif; Krumme, Andres; Krasnou, Illia; Mikli, Valdek; Viirsalu, Mihkel; Plamus, Tiiia; Vassiljeva, Viktoria; Tarasova, Elvira; Savest, Natalja; Mendez, James D. Journal of macromolecular science, part A : pure and applied chemistry 2018 / p. 142-147 : ill <https://doi.org/10.1080/10601325.2017.1387861> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Impact of CdS annealing atmosphere on the performance of CdS-CdTe solar cell**  
**Maticiuc, Natalia; Spalatu, Nicolae; Mikli, Valdek; Hiie, Jaan** Applied surface science 2015 / p. 14-18 : ill  
<http://dx.doi.org/10.1016/j.apsusc.2015.01.172>

**Impact of chelating ions on Cd<sup>2+</sup> sorption with apatites**

Tönsuaadu, Kaia; Vatter, Karin; Peld, Merike; Mikli, Valdek 5th International Symposium on Inorganic Phosphate Materials '05 : 2nd IMPHOS Workshop : Kasugai, Japan, September 6-8, 2005 : book of abstracts 2005 / p. 80

**Impact of growth-synthesis conditions on Cu<sub>2</sub>Zn<sub>1-x</sub>CdxSnS<sub>4</sub> monograins material properties**

Nkwusi, Godswill; Leinemann, Inga; Raudoja, Jaan; Mikli, Valdek; Karba, E.; Altosaar, Mare Superlattices and microstructures 2016 / p. 400-405 : ill <http://doi.org/10.1016/j.spmi.2016.09.006>

**Impact of Li and K co-doping on the optoelectronic properties of CZTS monograins powder**

Muska, Katri; Timmo, Kristi; Pilvet, Maris; Kaupmees, Reelika; Raadik, Taavi; Mikli, Valdek; Grossberg-Kuusk, Maarja; Krustok, Jüri; Josepson, Raavo; Lange, Sven; Kauk-Kuusik, Marit Solar energy materials and solar cells 2023 / art. 112182 : ill <https://doi.org/10.1016/j.solmat.2023.112182>

**Impact of pulsed deuterium plasma irradiation on dual-phase tungsten alloys**

Tökk, Siim; Laas, Tönu; Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim Fusion engineering and design 2021 / art. 112215, 10 p. : ill <https://doi.org/10.1016/j.fusengdes.2020.112215> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Impact of the carbonate substitution on HAP crystal lattice**

Niitsoo, Jaanika; Kallaste, Toivo; Mikli, Valdek; Nemliher, Jüri; Tönsuaadu, Kaia Researchers' Network on Phosphates : The Third International Conference on the Valorization of Phosphates and Phosphorus Compounds : COVAPHOS III : Marrakech, Morocco, March 18th-20th, 2009 : proceedings 2009 / p. 22-26

**Impact of the carbonate substitution on HAP crystal lattice**

Niitsoo, Jaanika; Kallaste, Toivo; Mikli, Valdek; Nemliher, Jüri; Tönsuaadu, Kaia The Third International Conference on the Valorization of Phosphates and Phosphorus Compounds : COVA Phos 3 : Marrakech, Morocco, March 18th-20th, 2009 : abstracts 2009 / p. 189-192 : ill

**Impact wear performance of thin hard coatings on TiC cermets**

Veinthal, Renno; Sergejev, Fjodor; Yaldiz, Can Emrah; Mikli, Valdek 18th IFHTSE Congress : 2010 July 26th to 30th, Rio de Janeiro, Brazil 2010 / p. 5046-5056 : ill. [CD-ROM]

**Impact wear performance of thin hard coatings on TiC cermets**

Veinthal, Renno; Sergejev, Fjodor; Yaldiz, Can Emrah; Mikli, Valdek Journal of ASTM International 2011 / [10] p

**Impacts of different solvents and substrates on properties of zinc oxide nanorod layers prepared by chemical spray pyrolysis**

Annert, Katre; Vent, Merike; Dedova, Tatjana; Kärber, Erki; Oja Acik, Ilona; Volobujeva, Olga; Mere, Arvo; Krunks, Malle; Mikli, Valdek Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010 / p.301-309

**Improved corrosion resistance of duplex PVD coatings**

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek; Straede, C.A. International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 152-155: ill

**Improved electrodeposition of CdS layers in presence of activating H<sub>2</sub>SeO<sub>3</sub> microadditive**

Maricheva, Jelena; Bereznev, Sergei; Naidu, Revathi; Maticiuc, Natalia; Mikli, Valdek; Kois, Julia Materials science in semiconductor processing 2016 / p. 14-19 : ill <http://dx.doi.org/10.1016/j.mssp.2016.06.013>

**Influence of alkali iodide fluxes on Cu<sub>2</sub>ZnSnS<sub>4</sub> monograins powder properties and performance of solar cells**

Timmo, Kristi; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek; Kaupmees, Reelika; Josepson, Raavo; Krustok, Jüri; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Materials advances 2023 / p. 4509-4519 : ill <https://doi.org/10.1039/D3MA00444A>

**Influence of differently formed interfacial aluminium oxide on the structural properties of poly-Si films prepared by aluminium induced crystallisation**

Dimova-Malinovska, D.; Nichev, H.; Angelov, O.; Sendova-Vassileva, M.; Sendova, M.; Mikli, Valdek Journal of optoelectronics and advanced materials 2007 / 2, p. 359-362

**Influence of heating conditions on the formation of sol-gel derived calcium hydroxyapatite**

Bogdanovicene, Irma; Beganskiene, Aldona; Kareiva, Aivaras; Juškėnas, Remigijus; Selskis, Algirdas; Ramanauskas, Rimantas; Tönsuaadu, Kaia; Mikli, Valdek Chemija 2010 / 2/4, p. 98-105 : ill

**Influence of laser hardening to the sliding wear resistance of the PVD (Al,Ti)N-G and nACo® coatings**

Surženkov, Andrei; Adoberg, Eron; Antonov, Maksim; Sergejev, Fjodor; Mikli, Valdek; Viljus, Mart; Latokartano, Jyrki; Kulu, Priit Engineering materials & tribology XXII 2014 / p. 28-31

**Influence of protic ionic liquid-based flame retardant on the flammability and water sorption of alkalinized hemp fiber-reinforced PLA composites**

**Alao, Percy Festus; Press, Raimond; Ruponen, Jussi; Mikli, Valdek; Kers, Jaan** Polymers 2023 / art. 3661

<https://doi.org/10.3390/polym15183661>

**Influence of second order lines on low accelerating voltage quantitative WDS analysis**

**Mikli, Valdek** EMAS 2005 : 9th European workshop on modern developments and applications in microbeam analysis : IUMAS-3 : 3rd meeting of the International Union of Microbeam Analysis Societies : 22-26 May 2005 in Convitto della Calza, Florence, Italy : book of abstracts : organised in collaboration with the Società Italiana di Scienze Microscopiche (SISM) 2005 / p. 314

**Influence of second-order lines on the quantitative wavelength dispersive spectrometry analysis at low accelerating voltages**

**Mikli, Valdek** Microchimica acta 2006 / 1/2, p. 205-208 <https://link.springer.com/content/pdf/10.1007/s00604-006-0544-7.pdf>

**Influence of some lime-containing additives on the thermal behavior of urea**

**Klimova, Irina; Kaljuvee, Tiit; Mikli, Valdek; Trikkel, Andres** Journal of thermal analysis and calorimetry 2013 / p. 253-258 : ill

**Influence of steel austenitization to part quality in continuous austempering**

**Jaason, Karli; Peetsalu, Priidu; Saarna, Mart; Kulu, Priit; Mikli, Valdek; Lind, Liina; Beilmann, Jüri** Estonian journal of engineering 2012 / p. 221-231 : ill [https://artiklid.elnet.ee/record=b2527735\\*est](https://artiklid.elnet.ee/record=b2527735*est)

**Influence of the SPD processing features on the nanostructure and properties of a pure niobium**

**Kommel, Lembit; Mikli, Valdek; Traksmaa, Rainer; Saarna, Mart**; Pokatilov, Andrei; Pikker, Siim; Kommel, Igor Materials science forum ; 667/669 2011 / p. 785-790 : ill

**Influence of the treatment period on the morphology and the chemical composition of the thermally activated orthodontic archwires**

Petrov, Valery; Terzieva, Stanimira; Tumbalev, V.; **Mikli, Valdek**; Andreeva, Laura; Stoyanova-Ivanova, Angelina Bulgarian chemical communications 2015 / p. 234-238 : ill

**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 / p. 1-5 : ill

**Investigation of halogen sodalites by electron microscopy**

**Mikli, Valdek; Paat, Aadu** Proceedings of the Estonian Academy of Sciences. Engineering 1999 / 1, p. 71-86: ill

**Investigation of mechanical and physicochemical properties of clinically retrieved titanium-niobium orthodontic archwires**

Stoyanova-Ivanova, Angelina; Cherneva, Sabina; Petrunov, Vladimir; Petrova, Violeta; Ilievska, Ivana; **Mikli, Valdek**; Iankov, Roumen Acta of bioengineering and biomechanics 2020 / p. 31-39 <https://doi.org/10.37190/ABB-01486-2019-03> Journal metrics at Scopus  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Investigation of milled bromosodalite powders by the methods of X-ray diffraction and electron microscopy**

Mändar, H.; Haav, A.; **Mikli, Valdek; Paat, Aadu**; Felsche, J. Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / l. 14-18: ill [https://www.esther.ee/record=b1492085\\*est](https://www.esther.ee/record=b1492085*est)

**Investigation of oxygen reduction on platinum nanoparticles deposited onto peat-derived carbon carrier**

Lobjakas, Viljar; Nerut, Jaak; Kasuk, Heili; Adamson, Anu; Thomberg, Thomas; Aruväli, Jaan; Valk, Peeter; Teppor, Patrick; Koppel, Mirjam; **Mikli, Valdek; Volobujeva, Olga; Lust, Enn** ECS Meeting Abstracts 2022 / p. 49-58 : ill  
<https://doi.org/10.1149/10807.0049ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Investigation of residual stresses and some elastic properties of brush-plated gold and silver galvanic coatings**

Lille, Harri; Kõo, Jakub; Ryabtšikov, Aleksander; Reitsnik, Renno; **Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Engineering materials and tribology 2013 / p. 125-130 : ill

**Investigation of some properties of brush-plated gold and silver galvanic coatings**

Lille, Harri; Kõo, Jakub; Ryabtšikov, Alexander; Reitsnik, Renno; **Mikli, Valdek; Sergejev, Fjodor** Proceedings of the 2nd International Conference Optimization and Analysis of Structures : Tartu, Estonia, August 25-27, 2013 2013 / p. 101-107 : ill

**Investigation of sprayed thin films on glass substrates by X-ray microanalysis**

**Mikli, Valdek; Krunks, Malle** Abstracts of International Conference on X-ray Optics and Microanalysis 2001 / p. 117

**Investigation of steam turbine blades damage and reliability in a power plant**

Molodtsov, Artjom; Dedov, Andrei; Klevtsov, Ivan; Kommel, Lembit; Lausmaa, Toomas; **Mikli, Valdek** Modern Materials and

Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 89-94 : ill <https://www.scientific.net/KEM.799.89> [https://www.esther.ee/record=b5235278\\*est](https://www.esther.ee/record=b5235278*est)  
<https://doi.org/10.4028/www.scientific.net/KEM.799.89> Conference proceeding at Scopus Article at Scopus

### Isothermal grain growth of CdTe in CdCl<sub>2</sub> and Te fluxes

**Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Mädasson, Jaan; Sapogova, J.; Mikli, Valdek** Conference record of the Twenty Sixth IEEE Photovoltaic Specialists Conference - 1997, Anaheim, CA, 29 September - 03 October 1997 1997 / p. 455-458: ill

### Isothermal grain growth of CdTe in liquid Te flux

**Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Mädasson, Jaan; Sapogova, J.; Mikli, Valdek** 26th IEEE Photovoltaic Specialists Conference, Anaheim, 1997 : abstracts 1997 / p. 111

### Keemiliselt pihustatud CuInS<sub>2</sub> õhukeste kilede struktuursed ja optilised omadused

**Krunks, Malle; Bijakina, Olga; Bender, Villem; Mikli, Valdek** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 57

### Keemiliselt sadestatud kaadmiumsulfidi kilede lõõmutamisel toimuvad struktuursed muutused

**Pöldme, Nils; Hiie, Jaan; Mikli, Valdek; Raadik, Taavi; Valdma, Vello; Mere, Arvo; Gavrilov, Aleksei; Maticiu, Natalia; Potlog, Tamara; Quinci, Frederico; Lugh, Vanni; Sergo, Valter XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 65**

### Laser ablation of Nd-Fe-B magnets

**Kruusing, Arvi; Podgurski, Vitali; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences. Engineering 1996 / 1, p. 137-142: ill

### Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity

**Saffarshamshirgar, Ali; Rojas Hernandez, Rocio Estefania; Mikli, Valdek; Karppinen, Maarit; Hussainova, Irina** Carbon 2020 / p. 634-645 <https://doi.org/10.1016/j.carbon.2020.06.038> Journal metrics at Scopus Article at Scopus Journal metrics at WOS 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

### Magnetic and transport characteristics of oxygenated polycrystalline La<sub>0.6</sub>Pb<sub>0.4</sub>MnO<sub>3</sub>

**Blagoev, Blagoy; Terzieva, Stanimira; Mikli, Valdek** Journal of magnetism and magnetic materials 2013 / p. 34-38 : ill

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

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

### Mechanical recycling of electronic wastes for materials recovery

**Laurmaa, Viktor; Kers, Jaan; Tall, Kaspar; Mikli, Valdek; Goljandin, Dmitri; Vilasaar, Kristiina; Peetsalu, Priidu; Saarna, Mart; Tarbe, Riho; Zhang, Lifeng** Recycling of electronic waste II : proceedings of the second symposium 2011 / p. 3-10

### Mehaanikas perspektiivsete kilede omaduste uurimine : aruanne : G443 : teadussuuna klass 2.2, 2.10

**Mikli, Valdek** 1994 [https://www.esther.ee/record=b2084804\\*est](https://www.esther.ee/record=b2084804*est)

### Metal-matrix cermet reinforced composite powders for thermal spray

**Goljandin, Dmitri; Sarjas, Heikki; Kulu, Priit; Käerdi, Helmo; Mikli, Valdek** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 23-24

### Metal-matrix hardmetal/cermet reinforced composite powders for thermal spray

**Goljandin, Dmitri; Sarjas, Heikki; Kulu, Priit; Käerdi, Helmo; Mikli, Valdek** Materials science = Medžiagotyra 2012 / p. 84-89 : ill

### A method for producing conductive graphene biopolymer nanofibrous fabrics by exploitation of an ionic liquid dispersant in electrospinning

**Javed, Kashif; Krumme, Andres; Viirsalu, Mihkel; Krasnou, Illia; Plamus, Tiiia; Vassiljeva, Viktoria; Tarasova, Elvira; Savest, Natalja; Mere, Arvo; Mikli, Valdek; Danilson, Mati; Kaljuvee, Tiit; Lange, Sven** Carbon 2018 / p. 148-156 : ill

<https://doi.org/10.1016/j.carbon.2018.08.034> <https://novaator.err.ee/873101/ttu-teadlaste-arendatud-tselluloosikangaga-saab-vajadusel-laadida-telefoni> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### Micropowders produced by disintegrator milling

**Peetsalu, Priidu; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo** Powder metallurgy progress 2003 / 2, p. 99-110 : ill

## **Micropowders produced by disintegrator milling**

Peetsalu, Priidu; Zimakov, Sergei; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 32-33

## **Microstructure and physical-mechanical properties evolution of pure tantalum processed with hard cyclic viscoplastic deformation**

Kommel, Lembit; Omranpour Shahreza, Babak; Mikli, Valdek International journal of refractory metals and hard materials 2019 / art. 104983, 10 p. : ill <https://doi.org/10.1016/j.ijrmhm.2019.104983> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Microstructure and superconductivity of bulk BPSCCO/LPMO composite**

Stoyanova-Ivanova, Angelina; Staneva, Anna; Shoumarova, Janna; Blagoev, Blagoy; Zaleski, Andrzej; Mikli, Valdek; Dimitrev, Yanko Philosophical magazine letters 2011 / p. 190-199 : ill

## **Microstructure and thermal properties of quasi-equal rare earth substitution Y<sub>0.5</sub>Gd<sub>0.5</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>6.94</sub> superconductor**

Terzieva, Stanimira; Stoyanova-Ivanova, Angelina; Shivachev, Boris; Terzijska, Bonka; Zaleski, Andrzej; Misioruk, Halina; Mikli, Valdek Central European journal of physics 2009 / 1, p. 84-88 <https://www.degruyter.com/document/doi/10.2478/s11534-008-0133-y/html>

## **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

## **Modification of the optoelectronic properties of Cu<sub>2</sub>CdSnS<sub>4</sub> through low-temperature annealing**

Pilvet, Maris; Kauk-Kuusik, Marit; Grossberg, Maarja; Raadik, Taavi; Mikli, Valdek; Traksmaa, Rainer; Raudoja, Jaan; Timmo, Kristi; Krustok, Jüri Journal of alloys and compounds 2017 / p. 820-825 : ill <https://doi.org/10.1016/j.jallcom.2017.06.307>

## **Molecular identification, characterization and distribution of freshwater sponges (Porifera: Spongillidae) in Estonia**

Lopp, Annika; Reintamm, Tõnu; Vallmann, Kerli; Päri, Mailis; Mikli, Valdek; Richelle-Maurer, Evelyn; Kelve, Merike Fundamental and applied limnology = Archiv für Hydrobiologie 2007 / 1, p. 93-103

## **Morphology of Y<sub>1</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>z</sub> and Y<sub>0.7</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>z</sub> bulk samples depending on Ca-substitution**

Terzieva, Stanimira; Stoyanova-Ivanova, Angelina; Zalamova, K.; Mikli, Valdek; Angelov, Christo; Kovachev, V. Journal of optoelectronics and advanced materials 2005 / 1, p. 477-480

## **Multifractal analysis of high-temperature plasma irradiated tungsten surfaces**

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim Surface topography : metrology and properties 2021 / 13 p. : ill <https://doi.org/10.1088/2051-672X/ac1dc3> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Multifractal defects versus non-defects in surface analysis**

Martsepp, Merike; Laas, Tõnu; Tökk, Siim; Mikli, Valdek Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 37 I. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

## **Multi-purpose heterogeneous catalyst material from an amorphous cobalt metal–organic framework**

Ping, Kefeng; Alam, Mahboob; Kahnert, Sean Ray; Bhaduria, Rohit; Mere, Arvo; Mikli, Valdek; Käärik, Maike; Aruväli, Jaan; Paiste, Päärn; Kikas, Arvo; Kisand, Vambola; Järving, Ivar; Leis, Jaan; Kongi, Nadežda; Starkov, Pavel Materials advances 2021 / p. 4009-4015 <https://doi.org/10.1039/D1MA00414J> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Mõningaid võimalusi pölevkivituhkade aktiveerimiseks**

Toom, Merli; Mikli, Valdek; Kaljuvee, Tiit XXX Eesti keemiatänav : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 163-164

## **Nafion protective membrane enables using ruthenium oxide electrodes for pH measurement in milk**

Lazouskaya, Maryna; Scheler, Ott; Mikli, Valdek; Uppuluri, Kiranmai; Zaraska, Krzysztof; Tamm, Martti Journal of The Electrochemical Society 2021 / art. 107511, 12 p. : ill <https://doi.org/10.1149/1945-7111/ac2d3c> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Nanoindentation and surface characterization of clinically retrieved multi-force niti orthodontic archwires**

Cherneva, Sabina; Stoyanova-Ivanova, Angelina K.; Georgieva, Mirela; Andreeva, Laura A.; Petkov, Alexander; Petrov, Valeri G.; Petrova, Violeta P.; Mikli, Valdek Russian Journal of Biomechanics 2020 / p. 240-256 <https://doi.org/10.15593/RJBiomech/2020.3.02> <https://ered.pstu.ru/index.php/rjb/article/view/2303> Journal metrics at Scopus Article at Scopus

## **Nano-scale sulfurization of the Cu<sub>2</sub>ZnSnSe<sub>4</sub> crystal surface for photovoltaic applications**

Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Mikli, Valdek; Kaupmees, Reelika; Danilson, Mati; Grossberg,

**Nanostructure development in refractory metals : ECAP processing of Niobium and Tantalum using indirect-extrusion technique**

**Omrانpour Shahreza, Babak; Kommel, Lembit; Mikli, Valdek; Garcia, Edgar; Huot, Jacques** International journal of refractory metals and hard materials 2019 / p. 1-9 : ill <https://doi.org/10.1016/j.ijrmhm.2018.10.018> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

**Nanostructured layers of ZnS obtained by spray pyrolysis**

**Dedova, Tatjana; Gromöko, Inga; Mikli, Valdek; Volobujeva, Olga; Utt, Kathriin; Sildos, Ilmo; Mere, Arvo; Krunks, Malle** E-MRS 2013 Spring Meeting. Symposium P, Functional nanowires : synthesis, characterization and applications : poster session II 2013 / p. 15

**Nature of materials obtained by sorption of M<sup>2+</sup> and M<sup>3+</sup> metal ions on apatite surface**

**Tõnsuaadu, Kaia; Gruselle, Michel; Gredin, Patrick; Viipsi, Karin; Mikli, Valdek; Shchukarev, Andrey; Sjöberg, Staffan** 19th International Conference on Phosphorus Chemistry : book of abstracts 2012 / p. 110

**New aspects in Ru<sup>3+</sup> sorption mechanism on apatites**

**Tõnsuaadu, Kaia; Gruselle, Michel; Villain, Francoise; Peld, Merike; Mikli, Valdek; Traksmaa, Rainer** Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 121

**New carbon-based catalyst synthesis from spent li-ion batteries for electrochemical oxygen reduction**

Kazemi, Maryam; Liivand, Kerli; Kruusenberg, Ivar; **Walke, Peter; Mikli, Valdek; Uibu, Mai**; Macdonald, Digby D. GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 42 [https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**A new glance at ruthenium sorption mechanism on hydroxy-, carbonate-, and fluorapatites : analytical and structural studies**

**Tõnsuaadu, Kaia; Gruselle, M.; Villain, F.; Thouvenot, Rene; Peld, Merike; Mikli, Valdek; Traksmaa, Rainer; Grendin, P.; Carrier, X.; Shalles, L.** Journal of colloid and interface science 2006 / 2, p. 283-291

**Nickel and nitrogen-doped bifunctional ORR and HER electrocatalysts derived from CO<sub>2</sub>**

Remmel, Anna-Liis; Ratso, Sander; Divitini, Giorgio; **Danilson, Mati; Mikli, Valdek; Uibu, Mai; Aruväli, Jaan; Kruusenberg, Ivar** ACS Sustainable Chemistry and Engineering 2022 / p. 134-145 <https://doi.org/10.1021/acssuschemeng.1c05250> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

**NiO thin films deposited by chemical spray pyrolysis**

**Soon, Jaanika; Krunks, Malle; Mikli, Valdek; Unt, Tarmo; Mere, Arvo** NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013

**Niobium doped TiO<sub>2</sub> films by chemical spray pyrolysis [Online resource]**

**Dündar, Ibrahim; Oja Acik, Ilona; Mere, Arvo; Katerski, Atanas; Krunks, Malle; Mikli, Valdek** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmtdk.ut.ee/teesid/>

**Niobium doped TiO<sub>2</sub> layers by chemical spray pyrolysis**

**Dündar, Ibrahim; Oja Acik, Ilona; Mere, Arvo; Katerski, Atanas; Krunks, Malle; Mikli, Valdek** Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-241 - VII-250

**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

**Novel SiO<sub>x</sub>N<sub>y</sub> composite thin films with aligned carbon nanotubes network**

**Shmagina, Elizaveta; Mikli, Valdek; Bereznev, Sergei** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmtdk.ut.ee/programm-2023/>

**Novel SiO<sub>x</sub>N<sub>y</sub> protective coatings with aligned carbon nanotubes network**

**Shmagina, Elizaveta; Volobujeva, Olga; Mikli, Valdek; Bereznev, Sergei** Symposium E : Carbon- and/or nitrogen-containing thin films and nanomaterials : 40th Anniversary 2023 / art. 00680 <https://srv3.key4events.com/key4register/AbstractList.aspx?e=31&preview=1&ai=-1&aj=1968>

**On the sol-gel preparation of calcium hydroxyapatite (Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub>,HA)**

Bogdanoviciene, Irma; **Tõnsuaadu, Kaia; Mikli, Valdek; Grigoraviciute, I.; Beganskiene, Aldona; Kareiva, Aivaras** 9th National Lithuanian Conference "Chemia 2009" : Vilnius, October 16, 2009 : abstracts 2009 / [1] p. : ill

**One-step carbon nanotubes grafting with styrene-co-acrylonitrile by reactive melt blending for electrospinning of conductive reinforced composite membranes**

Vassiljeva, Viktoria; Kirikal, Kristi; Hietala, S.; Kaljuvee, Tiit; Mikli, Valdek; Rähn, Mihkel; Tarasova, Elvira; Krasnou, Illia; Viirsalu, Mihkel; Savest, Natalja; Plamus, Tiia; Javed, Kashif; Krumme, Andres Fullerenes, nanotubes and carbon nanostructures 2017 / p. 667–677 : ill <https://doi.org/10.1080/1536383X.2017.1394847>

**Optical and structural properties of orthorhombic and tetragonal polymorphs of Cu<sub>2</sub>CdGeSe<sub>4</sub>**

Grossberg, Maarja; Raadik, Taavi; Krustok, Jüri; Kauk-Kuusik, Marit; Timmo, Kristi; Kaupmees, Reelika; Mikli, Valdek; Mere, Arvo Thin solid films 2018 / p. 44-47 <https://doi.org/10.1016/j.tsf.2018.09.031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Particles morphology description by image analysis**

Kohutek, Ivan; Kärdi, Helmo; Kulu, Priit; Sülieiova, Katarina; Velgosova, Oksana; Mikli, Valdek; Besterici, Michal Acta metallurgica Slovaca 2000 / p. 256-260

**Pb and Bi nanocluster precipitation in high-dose implanted and RTA Si: SEM and RHEED analyses**

Angelov, Christo; Mikli, Valdek; Kalitzova, M.; Beshkov, G. Proceedings of 11th Conference "Materials for Information Tech. in the New Millennium" : ISCMP : Varna, 2001 2001 / p. 452-455

**Peculiarities of the formation of calcium hydroxyapatite, Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub>, at different heating conditions**

Bogdanoviciene, Irma; Tönsuaadu, Kaia; Mikli, Valdek; Beganskiene, Aldona; Kareiva, Aivaras Abstract book : Chemistry and Technology of Inorganic Compounds : Kaunas, Lithuania, April 21, 2010 2010 / p. 12-13

**Performance of UIO-66-NH<sub>2</sub> on oxidation of debenzothiophene from a model fuel : optimization using response surface methodology**

Barghi, Bijan; Niidu, Allan; Raag, Anastassia; Jürisoo, Martin; Volokhova, Maria; Mikli, Valdek Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 8 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**pH impact on the sol-gel preparation of calcium hydroxyapatite, Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub>, using a novel complexing agent, DCTA**

Bogdanoviciene, Irma; Tönsuaadu, Kaia; Mikli, Valdek; Grigoraviciute-Puroniene, Inga; Beganskiene, Aldona; Kareiva, Aivaras Central European journal of chemistry 2010 / 6, p. 1323-1330 : ill

**Phase formation and microstructure in RE<sub>1-x</sub>CaxBa<sub>2</sub>Cu<sub>3</sub>O<sub>z</sub> (RE=Y, Eu, Er; x=0, 0.2, 0.3) superconducting ceramics**

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Staneva, Anna; Mikli, Valdek; Traksmaa, Rainer; Dimitrov, Y.B.; Kovachev, V.T. Central European journal of chemistry 2006 / 1, p. 167-173 : ill [https://www.researchgate.net/publication/244030385\\_PhaseFormation\\_and\\_microstructure\\_in\\_Re1-x\\_CaxBa2Cu3Oz\\_ReY\\_Eu\\_Er\\_x0\\_02\\_03\\_superconducting\\_ceramics/fulltext/563dacdc08aec6f17dd80ea6/Phase-formation-and-microstructure-in-Re1-x-CaxBa2Cu3Oz-ReY-Eu-Er-x0-02-03-superconducting-ceramics.pdf](https://www.researchgate.net/publication/244030385_PhaseFormation_and_microstructure_in_Re1-x_CaxBa2Cu3Oz_ReY_Eu_Er_x0_02_03_superconducting_ceramics/fulltext/563dacdc08aec6f17dd80ea6/Phase-formation-and-microstructure-in-Re1-x-CaxBa2Cu3Oz-ReY-Eu-Er-x0-02-03-superconducting-ceramics.pdf)

**Phase formation and microstructure in Rel-xCaxBa<sub>2</sub>Cu<sub>3</sub>O<sub>z</sub> (Re=Y, Eu, Er; X=0, 0.2, 0.3) superconducting ceramics**

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Staneva, Anna; Mikli, Valdek; Traksmaa, Rainer; Dimitrov, Y.B.; Kovachev, V.T. Central European science journals. Central European journal of chemistry : CEJC 2005 / 1, p. 167-174

**Photoluminescence of spray pyrolysis deposited ZnO nanorods**

Kärber, Erki; Raadik, Taavi; Dedova, Tatjana; Krustok, Jüri; Mere, Arvo; Mikli, Valdek; Krunks, Malle Nanoscale research letters 2011 / [7] p.: ill

**Physicochemical characterization on clinically retrieved TriTanium orthodontic archwires**

Stoyanova-Ivanova, Angelina; Ilievska, Ivana; Petrova, Violeta P.; Gueorgieva, M.; Petrov, Valeri G.; Andreeva, Laura A.; Zaleski, Andrzej Janusz; Mikli, Valdek Bulgarian Chemical Communications 2018 / p. 73 - 79

[http://www.bcc.bas.bg/bcc\\_volumes/Volume\\_50\\_Special\\_F\\_2018/P73-79\\_Pages%20from%20BCC\\_50\\_Spls\\_F\\_2018.pdf](http://www.bcc.bas.bg/bcc_volumes/Volume_50_Special_F_2018/P73-79_Pages%20from%20BCC_50_Spls_F_2018.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

**Physicochemical research of clinically retrieved CU-NI-TI orthodontic archwires**

Stoyanova-Ivanova, Angelina; Petrov, Valeri G.; Petrova, Violeta P.; Andreeva, Laura A.; Ilievska, Ivana; Zaleski, Andrzej Janusz; Mikli, Valdek Acta Medica Bulgarica 2021 / p. 68 - 74 <https://doi.org/10.2478/amb-2021-0011> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Pihustatud CulnS<sub>2</sub> õhukeste kilede keemiline ja faasikoostis**

Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Krunks, Malle; Mikli, Valdek; Mere, Arvo XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaatid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 52

**Pihustuspürolüüsmeetodil vaserikastest lahustest valmistatud CulnS<sub>2</sub> kilede omadused**

Rebane, Helen; Kijatkina, Olga; Mikli, Valdek; Leomar, Hedi; Krunks, Malle XXVIII Eesti keemiapäevad : teaduskonverentsi

**Plasmonic control of light in thin film solar cell absorbers**

Repän, Taavi; Katerski, Atanas; Oja Acik, Ilona; Kärber, Erki; Mere, Arvo; Mikli, Valdek; Krunks, Malle; Dolgov, Leonid; Sildos, Ilmo The International Summer School "Nanotechnology : from fundamental research to innovations" and International research and practice conference "Nanotechnology and nanomaterials" (NANO-2014), 23-30 August, 2014, Yaremche-Lviv, Ukraine : book of abstracts 2014 / p. 494

**Plasmonic effect of Au NPs on CSS CdS/CdTe solar cell characteristics**

Spalatu, Nicolae; Maticiuc, Natalia; Katerski, Atanas; Krunks, Malle; Mikli, Valdek; Hiie, Jaan Science and Applications of Thin Films, SATF 2014 : Cesme, Izmir, Turkey, September 15-19 : abstract book 2014 / p. 371

**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 <http://dx.doi.org/10.1016/j.apsusc.2015.04.065>

**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

**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 <http://dx.doi.org/10.1016/j.surcoat.2015.01.036>

**Possibilities of evaluation of powder particle granulometry and morphology by image analysis**

Kulu, Priit; Tümanok, Aleksei; Mikli, Valdek; Kärdi, Helmo; Kohutek, Ivan; Besterici, Michal Proceedings of the Estonian Academy of Sciences. Engineering 1998 / p. 3-17 : ill

**Post-deposition thermal treatment of sprayed SnS films**

Polivtseva, Svetlana; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Mikli, Valdek; Krunks, Malle Thin solid films 2017 / p. 179-184 : ill <https://doi.org/10.1016/j.tsf.2017.01.014>

**Post-deposition thermal treatment of sprayed SnS films [Online resource]**

Polivtseva, Svetlana; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Mikli, Valdek; Krunks, Malle Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmitdk.ut.ee/teesid/>

**Powder metallurgy of Al0.1CoCrFeNi high-entropy alloy**

Sokkalingam, Rathinavelu; Tarraste, Marek; Surreddi, Kumar Babu; Mikli, Valdek; Muthupandi, Veerappan; Sivaprasad, Katakan; Prashanth, Konda Gokuldoss Journal of materials research 2020 / p. 2835-2847 <https://doi.org/10.1557/jmr.2020.272> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Preparation and characterization of SbSel thin films**

Dolcet Sadurni, Marc; Timmo, Kristi; Mikli, Valdek; Volobujeva, Olga; Mengü, Idil; Krustok, Jüri; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Journal of science: Advanced materials and devices 2024 / art. 100664 <https://doi.org/10.1016/j.jsamd.2023.100664>

**Preparation and properties of CdTe films on Mo/glass substrates**

Valdna, Vello; Grossberg, Maarja; Hiie, Jaan; Kallavus, Urve; Mikli, Valdek; Traksmaa, Rainer; Viljus, Mart Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M08-24 [https://www.researchgate.net/publication/231763435\\_Preparation\\_and\\_Properties\\_of\\_CdTe\\_Films\\_on\\_MoGlass\\_Substrates](https://www.researchgate.net/publication/231763435_Preparation_and_Properties_of_CdTe_Films_on_MoGlass_Substrates)

**Preparation and Rietveld refinement of Ag-exchanged clinoptilolite**

Dimova, L.; Petrov, O.; Kadiyski, M.; Lihareva, N.; Stoyanova-Ivanova, Angelina; Mikli, Valdek Clay minerals 2011 / p. 205-212

**Preparation of BaSnO<sub>3</sub> target material for pulsed laser deposition [Online resource]**

Abdalla, Akram; Bereznev, Sergei; Volobujeva, Olga; 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://fmitdk.ut.ee/teesid-2018/>

**Primary amines as heterogeneous catalysts in an enantioselective [2,3]-Wittig rearrangement reaction**

**Murre, Aleksandra; Mikli, Valdek; Erkman, Kristin; Kanger, Tõnis** iScience 2023 / art. 107822, 18 p. : ill  
<https://doi.org/10.1016/j.isci.2023.107822>

**Process optimization for catalytic oxidation of dibenzothiophene over UiO-66-NH<sub>2</sub> by using a response surface methodology**

**Barghi, Bijan; Jürisoo, Martin; Volokhova, Maria; Seinberg, Liis; Reile, Indrek; Mikli, Valdek; Niudu, Allan** ACS omega 2022 / p. 16288-16297 : ill <https://doi.org/10.1021/acsomega.1c05965> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Production of fine powders by laser light**

**Kruusing, Arvi; Podgurski, Vitali; Mikli, Valdek** Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / I. 9-12: ill [https://www.ester.ee/record=b1492085\\*est](https://www.ester.ee/record=b1492085*est)

**Properties of frost-retted hemp fibres for the reinforcement of composites**

Marrot, Laetitia; **Alao, Percy Festus; Mikli, Valdek; Kers, Jaan** Journal of natural fibers 2022 / p. 16017-16028  
<https://doi.org/10.1080/15440478.2021.1904474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Properties of NiO thin films prepared by chemical spray pyrolysis**

Soon, Jaanika; Krunks, Malle; **Mikli, Valdek** Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania 2013 / p. 510-518

**Properties of retted hemp fibres for reinforcement of composites**

Marrot, Laetitia; **Alao, Percy Festus; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Mikli, Valdek; Mere, Arvo** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 13 : ill <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Properties of the CdCl<sub>2</sub> air-annealed CSS CdTe thin films**

**Spalatu, Nicolae; Hiie, Jaan; Valdma, Vello; Maticiuc, Natalia; Krunks, Malle; Mikli, Valdek** TÜ ja TTÜ doktorikool "Funktsoonalaarsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

**Properties of the CdCl<sub>2</sub> air-annealed CSS CdTe thin films**

**Spalatu, Nicolae; Hiie, Jaan; Valdma, Vello; Caraman, Mihail; Maticiuc, Natalia; Mikli, Valdek; Potlog, Tamara; Krunks, Malle; Lugh, Vanni** Energy procedia 2014 / p. 85-95 : ill

**Properties of the CdCl<sub>2</sub>:O<sub>2</sub> treated CSS CdTe thin films**

**Spalatu, Nicolae; Caraman, Mihail; Maticiuc, Natalia; Hiie, Jaan; Valdma, Vello; Mikli, Valdek; Lugh, Vanni** E-MRS 2013 Spring Meeting. Symposium D, Advanced inorganic materials and structures for photovoltaics : poster session II 2013 / p. 19

**PVD coatings for corrosion prevention**

**Rudenja, Sergei; Talimets, Ellen; Kulu, Prit; Mikli, Valdek** Corrosion: Permanent Danger for Society and Environment : Surface 97 : 2nd Central, Eastern and Northern Europe Regional Conference : proceedings 1997 / p. 98-101 : ill

**Pyrite as promising monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit Acta Astronautica 2022 / P. 420-424** <https://doi.org/10.1016/j.actaastro.2022.07.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Pyrite as prospective absorber material for monograin layer solar cell**

**Kristmann, Katriin; Altosaar, Mare; Raudoja, Jaan; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi** Thin Solid Films 2022 / art. 139068 : ill <https://doi.org/10.1016/j.tsf.2021.139068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Pyrite as prospective monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit** IAC 2021 congress proceedings 2021 / p. 1-6 : ill <https://deepzone3.ttu.ee/~juri.krustok/PDF-s/IAC-21.C3.4.7.x64087.pdf> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Pyrite FeS<sub>2</sub> solar cells fabrication for lunar base energy production**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit** IAC 2022 congress proceedings 2022 / art. 190266 [Pyrite FeS<sub>2</sub> solar cells fabrication for lunar base energy production](#) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Radiative recombination pathways in ordered and disordered CZTSe microcrystals**

**Mengü, Idil; Krustok, Jüri; Kaupmees, Reelika; Mikli, Valdek; Kauk-Kuusik, Marit; Grossberg-Kuusk, Maarja** Materials chemistry and physics 2023 / art. 127685 <https://doi.org/10.1016/j.matchemphys.2023.127685>

**Raman scattering characterization of ion-beam synthesized Mg<sub>2</sub>Si. 1. Influence of the technological conditions on the formation of the Mg<sub>2</sub>Si in(100) Si matrix**

Atanassov, Alexander; Zlateva, Genoveva; Baleva, Mitra; Goranova, Ekaterina; Amov, Blagoj; Angelov, Christo; **Mikli, Valdek** Plasma processes and polymers 2006 / 2, p. 219-223 : ill

**Recovery of metallic materials from printed wiring boards by green pyrolysis process**

Luyima, A.; Shi, H.; Zhang, Lifeng; Schumann, T.; **Kers, Jaan; Laurmaa, Viktor; Goljandin, Dmitri; Mikli, Valdek** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 57-58

**Recrystallization of CdTe film under conditions of high temperature and mechanical pressure**

**Mikli, Valdek; Hiie, Jaan; Viljus, Mart; Nisumaa, Reet; Traksmaa, Rainer; Kallavus, Urve** Thin solid films 2008 / 20, p. 7041-7045 : ill

**Recrystallization of CdTe under conditions of high temperature and pressure**

**Mikli, Valdek; Hiie, Jaan** Nanostructured and advanced materials 2005 / p. 351-354

**Recycled hardmetal-based powders for thermal spray**

**Mikli, Valdek; Kulu, Priit; Tarbe, Riho; Peetsalu, Priidu; Zimakov, Sergei** Proceedings of Estonian Academy of Sciences. Engineering 2004 / 4, p. 315-325 : ill

**Recycling of electronic wastes by disintegrator mills and study of the separation technique of different materials**

**Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Kaasik, Martin; Ventsel, Teet; Vilsaar, Kristiina; Mikli, Valdek** 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 43-44

**Recycling of electronic wastes by disintegrator mills and study of the separation technique of different materials**

**Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Kaasik, Martin; Ventsel, Teet; Vilsaar, Kristiina; Mikli, Valdek** Materials science 2008 / 4, p. 296-300 : ill

**Recycling of hard metals**

**Kulu, Priit; Tümanok, Aleksei; Arensburger, Daniil; Pihl, Toomas; Mikli, Valdek; Käerdi, Helmo** Proceedings of the Estonian Academy of Sciences. Engineering 1996 / p. 49-60 : ill

**Reduced recombination through the CZTS/CdS interface engineering in monograin layer solar cells**

**Kauk-Kuusik, Marit; Timmo, Kristi; Muska, Katri; Pilvet, Maris; Krustok, Jüri; Danilson, Mati; Mikli, Valdek; Josepson, Raavo; Grossberg, Maarja** JPhys Energy 2022 / art. 024007 <https://doi.org/10.1088/2515-7655/ac618d> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Reprocessing technology of composite plastic scrap and properties of materials from recycled plastics**

**Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 2, p. 105-116 : ill

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

Lille, Harri; Kõo, Jakub; 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 on various PVD hard coatings on tube and plate substrates**

Lille, Harri; Ryabchikov, Alexander; **Peetsalu, Priidu; Lind, Liina; Sergejev, Fjodor; Mikli, Valdek; Kübarsepp, Jakob** Coatings 2020 / art. 1054, 11 p <https://doi.org/10.3390/coatings10111054> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Retreatment of used hardmetals**

**Kulu, Priit; Käerdi, Helmo; Mikli, Valdek** TMS Fall 2002 Extraction and Processing Division Meeting on Recycling and Waste Treatment in Mineral and Metal Processing : technical and economic aspects, 16-20 June 2002, Lulea, Sweden. Vol. 1 2002 / p. 139-146 : ill

**Reuse of reinforced acrylic plastic waste in new composite material development**

**Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Mikli, Valdek** Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 267-271 : ill

**Rippling on wear scar surfaces of nanocrystalline diamond films after reciprocating sliding against ceramic balls**

Podgurski, Vitali; Hantschel, Thomas; **Bogatov, Andrei; Kimmari, Eduard; Antonov, Maksim; Viljus, Mart; Mikli, Valdek; Raadik, Taavi; Kulu, Priit** Tribology letters 2014 / p. 493-501 : ill

**Room temperature sensitivity of Ta doped nanocrystalline ZnO films to NH<sub>3</sub> exposure**

Nichev, H.; Angelov, O.; Kamenova, M.; **Mikli, Valdek; Dimova-Malinovska, D.** Journal of optoelectronics and advanced materials

**Sb<sub>2</sub>S<sub>3</sub> grown by ultrasonic spray pyrolysis and its application in a hybrid solar cell**

Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mere, Arvo; Mikli, Valdek; Krunks, Malle Beilstein journal of nanotechnology 2016 / p. 1662-1673 : ill <http://dx.doi.org/10.3762/bjnano.7.158>

**Sensitivity of ZnO films doped with Er, Ta and Co to NH<sub>3</sub> at room temperature**

Dimova-Malinovska, D.; Nichev, H.; Georgieva, V.; Angelov, O.; Pivin, J.-C.; Mikli, Valdek Physica status solidi (a) : applications and materials science 2008 / 8, p. 1993-1997 : ill

**Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts**

Kazimova, Nargiz; Ping, Kefeng; Alam, Mahboob; Danilson, Mati; Merisalu, Maito; Aruväli, Jaan; Paiste, Päärn; Käärik, Maike; Mikli, Valdek; Leis, Jaan; Tammeveski, Kaido; Starkov, Pavel; Kongi, Nadežda Journal of catalysis 2021 / p. 178-187

<https://doi.org/10.1016/j.jcat.2021.01.004> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Sliding wear of HVOF sprayed self-fluxing alloy matrix cermet particles reinforced composite coatings**

Surženkov, Andrei; Antonov, Maksim; Mikli, Valdek; Latokartano, Jyrki; Vilgo, Timo; Kulu, Priit BALTTRIB'2013 : VII International Scientific Conference : 14-15 November 2013, Kaunas, Lithuania : proceedings 2013 / p. 62-66

**Sliding wear of TiC-NiMo and Cr<sub>3</sub>C<sub>2</sub>-Ni cermet particles reinforced FeCrSiB matrix HVOF sprayed coatings**

Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Vilgo, Timo; Mikli, Valdek; Viljus, Mart; Latokartano, Jyrki; Kulu, Priit Estonian journal of engineering 2013 / p. 203-211 : ill

**Sol-Gel approach to the calcium phosphate nanocomposites**

Beganskiene, Aldona; Stankevičiute, Zivile; Malakauskaitė, Milda; Bogdanovičiene, Irma; Mikli, Valdek; Tönsuaadu, Kaia; Kareiva, Aivaras Nanostructured materials and nanotechnology VII : a collection of papers presented at the 37th International Conference on Advanced Ceramics and Composites, January 27-February 1, 2013, Daytona Beach, Florida 2014 / p. 3-14 : ill <https://doi.org/10.1002/9781118807828.ch1>

**Sol-gel approach to the calcium phosphate nanocomposites [Electronic resource]**

Beganskiene, Aldona; Bogdanovičiene, Irma; Mikli, Valdek; Tönsuaadu, Kaia Proceedings of the 37th International Conference on Advanced Ceramics and Composites : January 27-February 1, 2013, Hilton Daytona Beach Resort and Ocean Center, Daytona Beach, Florida, USA 2013 / [10] p. : ill [CD-ROM]

**Solid phase and ion beam epitaxial crystallization of Si implanted with Zn and Pb ions**

Angelov, Christo; Georgiev, S.; Amov, Blagoj; Mikli, Valdek; Lohner, Tivador Journal of optoelectronics and advanced materials 2007 / 2, p. 311-314

[https://www.researchgate.net/publication/289467840\\_Solid\\_phase\\_and\\_ion\\_beam\\_epitaxial\\_crystallization\\_of\\_Si\\_implemented\\_with\\_Zn\\_and\\_Pb\\_ions](https://www.researchgate.net/publication/289467840_Solid_phase_and_ion_beam_epitaxial_crystallization_of_Si_implemented_with_Zn_and_Pb_ions)

**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

**Spray pyrolysis deposition and characterization of highly c-axis oriented hexagonal ZnS nanorod crystals**

Dedova, Tatjana; Gromöko, Inga; Krunks, Malle; Mikli, Valdek; Grossberg, Maarja; Sildos, Ilmo; Utt, Kathriin; Vessart, Risto; Unt, Tarmo Crystal research and technology 2015 / p. 85-92 : ill <http://dx.doi.org/10.1002/crat.201400172>

**Spray pyrolysis deposition of tin sulfide thin films**

Polivtseva, Svetlana; Oja Acik, Ilona; Mikli, Valdek; Krunks, Malle TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

**Sprayed CuInS<sub>2</sub> films grown under Cu-rich conditions as absorbers for solar cells**

Krunks, Malle; Kijatkina, Olga; Mere, Arvo; Varema, Tiit; Oja, Ilona; Mikli, Valdek Solar energy materials & solar cells 2005 / p. 207-214 : ill

**Sprayed CuInS<sub>2</sub> thin films for solar cells : the effect of solution composition and post-deposition treatments**

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Rebane, Helen; Varema, Tiit; Altosaar, Mare; Mellikov, Enn Solar cells and solar cell materials 2001 / 1, p. 93-98

**Sprayed CuInS<sub>2</sub> thin films for solar cells : the effect of solution composition and post-deposition treatments**

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Rebane, Helen; Varema, Tiit; Altosaar, Mare; Mellikov, Enn 11th International Photovoltaic Science and Engineering Conference : Sept. 20-24/1999, Hokkaido, Japan : technical digest 1999 / p. 845-846: ill

**Structural analysis of apatite precipitated in the presence of proline**

Tönsuaadu, Kaia; Kallaste, Toivo; Mikli, Valdek; Mere, Arvo; Nemliher, Jüri 18th International Conference on Phosphorus

**Structural and morphological characterization of heat-activated nickel-titanium archwires**

Ilievska, Ivana; Petrov, Valery; Andreeva, Laura; **Mikli, Valdek** Bulgarian chemical communications 2017 / p. 33-39 : ill  
<http://www.bcc.bas.bg/>

**Structural and optical properties of cadmium sulfide thin films modified by hydrogen annealing**

Maticiuc, Natalia; Hiie, Jaan; **Mikli, Valdek**; Potlog, Tamara; Valdma, Vello Materials science in semiconductor processing 2014 / p. 169-174 : ill

**Structural and optical properties of CuInS<sub>2</sub> thin films prepared by spray pyrolysis**

Krunks, Malle; Bijakina, Olga; Bender, Villem; **Mikli, Valdek** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 63

**Structural and optical properties of sprayed CuInS<sub>2</sub> films**

Krunks, Malle; Bijakina, Olga; Varema, Tiit; **Mikli, Valdek**; Mellikov, Enn Thin solid films 1999 / p. 125-130: ill

**Structural changes in chemically deposited CdS : effect of thermal annealing**

Maticiuc, Natalia; Potlog, Tamara; Hiie, Jaan; **Mikli, Valdek**; Põldme, Meeme; Raadik, Taavi; Valdma, Vello; Mere, Arvo; Gavrilov, Aleksei; Sergo, V.; Quinci, Frederico; Lugh, Vanni Moldavian journal of the physical sciences 2010 / 3/4, p. 275-279

**Structural investigation of tellurium based thin films**

Ianova, Vladislava; Trifonova, Yordanka; Liova, Vanya; **Mikli, Valdek**; Stoyanova-Ianova, Angelina Journal of chemical technology and metallurgy 2018 / p. 749-754 : ill [https://journal.uctm.edu/node/1208-4/17\\_18-122\\_p\\_749-754.pdf](https://journal.uctm.edu/node/1208-4/17_18-122_p_749-754.pdf) Journal metrics at Scopus Article at Scopus

**Structural investigations of ion beam synthesized [beeta]-FeSi<sub>2</sub>**

Angelov, Christo; Amov, Blagoj; **Mikli, Valdek**; Traksmaa, Rainer Journal of optoelectronics and advanced materials 2009 / 10, p. 1490-1493 [https://www.researchgate.net/publication/286966891\\_Structural\\_investigations\\_of\\_ion\\_beam\\_synthetized\\_b-FeSi2](https://www.researchgate.net/publication/286966891_Structural_investigations_of_ion_beam_synthetized_b-FeSi2)

**Structural reproducibility of CdTe thin films deposited on different substrates by close space sublimation method**

Potlog, Tamara; Spalatu, Nicolae; Maticiuc, Natalia; Hiie, Jaan; Valdma, Vello; **Mikli, Valdek**; Mere, Arvo Physica status solidi (a) : applications and materials science 2012 / p. 272-276 : ill [https://ibn.idsi.md/ro/vizualizare\\_articol/188177](https://ibn.idsi.md/ro/vizualizare_articol/188177)

**Structural studies of apatite**

Tönsuaadu, Kaia; Peld, Merike; **Mikli, Valdek**; Bender, Villem; Traksmaa, Rainer; Villani, F.; Gruselle, M. Nanopowders, Nanostuctured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 19-21

**Structure of cobalt hexacyanoferrate films synthesized from a complex electrolyte**

Kaplun, M.M.; Smirnov, Yu.E.; **Mikli, Valdek**; Malev, V.V. Russ. J. of Electrochemistry 2001 / 9, p. 914-923

**Studies of structural and morphological properties of cuprate conductive ceramics after electrochemical treatment in alkaline electrolyte**

Stoyanova-Ianova, Angelina; Liov, Peter; Vasev, Alexander; Stoyanova, Antonina; Ianova, Galia; Karashanova, Daniela; **Mikli, Valdek** Materials chemistry and physics 2020 / art. 121934 <https://doi.org/10.1016/j.matchemphys.2019.121934> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Study of (AgxCu<sub>1-x</sub>)<sub>2</sub>ZnSn(S,Se)4 monograins synthesized by molten salt method for solar cell applications**

Oueslati, Souhaib; Kauk-Kuusik, Marit; Neubauer, Christian; **Mikli, Valdek**; Meissner, Dieter; Brammertz, Guy; Vermang, B.; Krustok, Jüri; Grossberg, Maarja Solar energy 2020 / p. 586-595 <https://doi.org/10.1016/j.solener.2020.02.002> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Study of CZTS nano-powder synthesis by hot injection method by variation of Cu and Zn concentrations**

Kumar, Suresh; Kumar, Vikash; **Mikli, Valdek**; Varema, Tiit; Altosaar, Mare; Grossberg, Maarja Energy procedia 2016 / p. 136-143 : ill <https://doi.org/10.1016/j.egypro.2016.11.328>

**Study of Cu<sub>2</sub>CdGeSe<sub>4</sub> monograin powders synthesized by molten salt method for photovoltaic applications**

Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Raadik, Taavi; Danilson, Mati; **Mikli, Valdek**; Altosaar, Mare; Krustok, Jüri; Raudoja, Jaan Thin solid films 2018 / p. 15-19 <https://doi.org/10.1016/j.tsf.2018.09.025> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Study of ion implanted Fe depth distribution in Si after pulsed ion beam treatment**

Angelov, Christo; Georgiev, S.; Amov, Blagoj; Goranova, E.; **Mikli, Valdek**; Dezsi, I.; Kotai, E. Journal of optoelectronics and advanced materials 2007 / 2, p. 307-310

[https://www.researchgate.net/publication/289186791\\_Study\\_of\\_the\\_ion\\_implemented\\_Fe\\_depth\\_distribution\\_in\\_Si\\_after\\_pulsed\\_ion\\_beam\\_treatment](https://www.researchgate.net/publication/289186791_Study_of_the_ion_implemented_Fe_depth_distribution_in_Si_after_pulsed_ion_beam_treatment)

**Study of structural and optoelectronic properties of Cu<sub>2</sub>Zn(Sn<sub>1-x</sub>Ge<sub>x</sub>)Se<sub>4</sub> (x = 0 to 1) alloy compounds**

Grossberg, Maarja; Timmo, Kristi; Raadik, Taavi; Kärber, Erki; Mikli, Valdek; Krustok, Jüri Thin solid films 2015 / p. 176-179 : ill <http://dx.doi.org/10.1016/j.tsf.2014.10.055>

**Study of surface defects in 4H-SiC Schottky diodes using a scanning Kelvin probe**

Mizsei, Janos; Korolkov, Oleg; Toompuu, Jana; Mikli, Valdek; Rang, Toomas Silicon Carbide and Related Materials 2012 : selected peer reviewed papers from the 9th European Conference on Silicon Carbide and Related Materials (ECSCRM 2012), September 2-6, 2012, St. Petersburg, Russian Federation 2013 / p. 677-680 : ill

**Study of technology and properties of PVD TiN coatings**

Rudenja, Sergei; Kulu, Priit; Mikli, Valdek Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / I. 43 [https://www.estet.ee/record=b1492085\\*est](https://www.estet.ee/record=b1492085*est)

**Study of the impact of the treatment period on the surface characteristics of nitinol heat-activated orthodontic wires**

Petrov, Valery; Andreeva, Laura; Terzieva, Stanimira; Stoyanova-Ivanova, Angelina; Kovacheva, Daniela; Mikli, Valdek; Ilievska, Ivana International journal of science and research (IJSR) 2015 / p. 3190-3193 : ill <http://www.ijsr.net/archive/v4i4/SUB153329.pdf>

**Study of the structure and optoelectronic properties of Cu<sub>2</sub>Ge(SexS1-x)3 microcrystalline powders**

Li, Xiaofeng; Timmo, Kristi; Grossberg, Maarja; Pilvet, Maris; Kaupmees, Reelika; Krustok, Jüri; Muska, Katri; Mikli, Valdek; Kauk-Kuusik, Marit Thin solid films 2022 / art. 139053, 6 p. : ill <https://doi.org/10.1016/j.tsf.2021.139053> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of the ultrafine-grains intrinsic nanostructure refinement by severe plastic deformation of copper alloys**

Kommel, Lembit; Veinthal, Renno; Mikli, Valdek; Dedov, Andrei OAS 2015 : proceedings of the 3rd [i.e. 3rd] International Conference Optimization and Analysis of Structures III : Tartu, Estonia, August 23-25, 2015 2015 / p. 28-32 : ill

**Sulfaatapatiitide koostis ja omadused**

Tönsuaadu, Kaia; Peld, Merike; Bender, Villem; Mikli, Valdek XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 182-183

**Superconductivity and magnetic studies of bulk Y123/ BaCuO<sub>2</sub> composite**

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Georgieva, S.; Mikli, Valdek Romanian journal of physics 2018 / art. 602, 15 p. : ill [http://www.nipne.ro/rjp/2018\\_63\\_1-2/RomJPhys.63.602.pdf](http://www.nipne.ro/rjp/2018_63_1-2/RomJPhys.63.602.pdf) [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

**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 <http://dx.doi.org/10.1002/pssc.201510103>

**Synthesis and characterization of pyrite FeS<sub>2</sub> solar cell absorber crystals and modifying their surface**

Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 29 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Synthesis and characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograins material for photovoltaic application**

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan; Mikli, Valdek; Pilvet, Maris; Kauk-Kuusik, Marit; Grossberg, Maarja Materials science in semiconductor processing 2020 / art. 104973 <https://doi.org/10.1016/j.mssp.2020.104973> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synthesis and electrophysical properties of nanometric CdS layers deposited on SnO<sub>2</sub>-coated glass substrates by pulverization method**

Botnariuc, V.; Gorceac, L.; Mikli, Valdek Journal of nanoelectronics and optoelectronics 2013 / p. 744-749

**Synthesis and superconducting properties of Nd<sub>0.33</sub>Eu<sub>0.08</sub>Gd<sub>0.58</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>z</sub> materials**

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Shivachev, Boris; Mikli, Valdek; Vladimirova, Latinka Central European journal of physics 2008 / 1, p. 76-79 : ill <https://www.degruyter.com/document/doi/10.2478/s11534-007-0044-3/html>

**Synthesis of anion and cation substituted apatites**

Tönsuaadu, Kaia; Peld, Merike; Traksmaa, Rainer; Mikli, Valdek Book of abstracts of the 8-th International Summer School-Conference : Advanced Materials and Technologies : Palanga, Lithuania, 27-31 August 2006 2006 / p. 86

**Synthesis of Cu<sub>2</sub>(ZnCd)SnS<sub>4</sub> absorber material for monograin membrane applications**  
Nkwusi, Godswill; Leinemann, Inga; Raudoja, Jaan; Mikli, Valdek; Kauk-Kuusik, Marit; Altosaar, Mare; Mellikov, Enn MRS proceedings 2014

**Synthesis of Cu<sub>2</sub>ZnSnS<sub>4</sub> solar cell absorber material by sol-gel method**  
Kumar, Suresh; Kasubosula, Bharath; Loorits, Mihkel; Raudoja, Jaan; Mikli, Valdek; Altosaar, Mare; Grossberg, Maarja Energy procedia 2016 / p. 102-109 : ill <https://doi.org/10.1016/j.egypro.2016.11.324>

**Zinc oxide rods on different TCO substrates and seed layers by electrochemical deposition**  
Gromõko, Inga; Dedova, Tatjana; Krunks, Malle; Mikli, Valdek; Unt, Tarmo; Oja Acik, Ilona; Mere, Arvo Proceedings of the 11th International Conference of Young Scientists on Energy Issues : CYSENI 2014 : May 29-30, 2014, Kaunas, Lithuania 2014 / p. VII-298-VII-305

**Zinc oxide thin films by spray pyrolysis**  
Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Varema, Tiit; Mellikov, Enn 18th Nordic Semiconductor Meeting, Linköping, June 7-10, 1998 : abstracts 1998 / p. H-106

**Zinc oxide thin films by spray pyrolysis method**  
Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Varema, Tiit; Mellikov, Enn Physica scripta 1999 / Proceedings of 18th Nordic Semiconductor Meeting, Linköping, Sweden, June 7-10, 1998, ISBN 91-87308-71-1, p. 209-212: ill

**Zirconium doped TiO<sub>2</sub> thin films deposited by chemical spray pyrolysis**  
Juma, Albert Owino; Oja Acik, Ilona; Oluwabi, Abayomi Titilope; Mere, Arvo; Mikli, Valdek; Danilson, Mati; Krunks, Malle Applied surface science 2016 / p. 539-545 : ill <http://dx.doi.org/10.1016/j.apsusc.2016.06.093>

**ZnCdSeTe semiconductor compounds : preparation and properties**  
Valdna, Vello; Grossberg, Maarja; Hiie, Jaan; Kallavus, Urve; Mikli, Valdek; Raadik, Taavi; Traksmaa, Rainer; Viljus, Mart MRS proceedings 2011 / p. u07-15

**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 <http://dx.doi.org/10.1088/1757-899X/77/1/012012>

**ZnO nanostructures by chemical spray for next generation solar cells**  
Krunks, Malle; Dedova, Tatjana; Oja Acik, Ilona; Kriisa, Merike; Mikli, Valdek; Katerski, Atanas; Kärber, Erki; Mere, Arvo NEXTGEN NANO PV : book of abstracts 2013 / p. 31-32

**ZnS thin films and nanostructured layers by chemical spray pyrolysis**  
Dedova, Tatjana; Krunks, Malle; Gromõko, Inga; Mikli, Valdek; Sildos, Ilmo; Utt, Kathrin; Unt, Tarmo XXXIII Eesti Keemiateaduse konverentsi teesid 2013 / p. 13

**Technology and characterization of composite thermal spray powders**  
Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit Materials science = Medžiagotyra 2005 / 4, p. 385-389 : ill

**Technology and equipment for production of hardmetal powders from used hardmetal**  
Túmanok, Aleksei; Kulu, Priit; Mikli, Valdek; Kärdi, Helmo Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 197-200 : ill

**Texture and structure of hot-rolling YBCO tapes with Ca-substitution**  
Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Mikli, Valdek; Traksmaa, Rainer; Kovachev, V. Journal of Bulgarian Academy of Sciences 2006 / p. 57-60

**The composition and structure investigation of recycled hardmetal powders for thermal spray**  
Mikli, Valdek; Kulu, Priit; Kärdi, Helmo Proceedings of Joint Nordic Conference in Powder Technology 2000 / p. 21

**The effect of Ag alloying of Cu<sub>2</sub>(Zn,Cd)SnS<sub>4</sub> on the monograin powder properties and solar cell performance**  
Timmo, Kristi; Altosaar, Mare; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi; Josepson, Raavo; Krustok, Jüri; Kauk-Kuusik, Marit Journal of materials chemistry A 2019 / p. 24281-24291 : ill  
<https://doi.org/10.1039/C9TA0776E> TTÜ teadlased töötsid uue põlvkonna päikesepaneelide töhusust Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**The effect of Cr and C on the characteristics of WC-FeCr hardmetals [Electronic resource]**  
Tarraste, Marek; Juhani, Kristjan; Kübarsepp, Jakob; Pirso, Jüri; Mikli, Valdek Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [6] p. : ill. [USB]

**The effect of laser fluences on the structural and optoelectronic properties of Zn(O,Se) films**

**Abdalla, Akram; Kärber, Erki; Mikli, Valdek; Bereznev, Sergei** Materials science in semiconductor processing 2021 / art. 105429, 5 p. : ill <https://doi.org/10.1016/j.mssp.2020.105429> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**The effect of S/Se ratio on the properties of Cu<sub>2</sub>CdGe(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> microcrystalline powders for photovoltaic applications**

**Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Mikli, Valdek; Kauk-Kuusik, Marit** Solar energy 2020 / p. 646-652 : ill <https://doi.org/10.1016/j.solener.2020.09.045> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**The effect of S/SE ratio on the properties of Cu<sub>2</sub>CdGe(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> monograins powders for photovoltaic applications**

**Li, Xiaofeng; Kauk-Kuusik, Marit; Timmo, Kristi; Pilvet, Maris; Grossberg, Maarja; Raadik, Taavi; Danilson, Mati; Mikli, Valdek** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 52 <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**The effect of substrate microstructure on morphology of zinc coatings**

**Sepper, Sirli; Peetsalu, Priidu; Mikli, Valdek; Saarna, Mart** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 717-722 : ill

**The effect of surface pre-treatment and coating post-treatment to the properties of TiN coatings**

**Adoberg, Eron; Podgurski, Vitali; Peetsalu, Priidu; Lind, Liina; Mikli, Valdek; Hvizdoš, Pavol; Kulu, Priit** Estonian journal of engineering 2012 / p. 185-192 : ill [https://kirj.ee/public/Engineering/2012/issue\\_3/Eng-2012-3-185-192.pdf](https://kirj.ee/public/Engineering/2012/issue_3/Eng-2012-3-185-192.pdf)

**The effect of tartaric acid in the deposition of Sb<sub>2</sub>S<sub>3</sub> films by chemical spray pyrolysis**

**Kriisa, Merike; Krunks, Malle; Oja Acik, Ilona; Kärber, Erki; Mikli, Valdek** Materials science in semiconductor processing 2015 / p. 867-872 : ill <http://dx.doi.org/10.1016/j.mssp.2015.07.049>

**The effect of tartaric acid in the deposition of Sb<sub>2</sub>S<sub>3</sub> films by chemical spray pyrolysis [Online resource]**

**Kriisa, Merike; Krunks, Malle; Oja Acik, Ilona; Kärber, Erki; Mikli, Valdek** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmtdk.ut.ee/teesid/>

**The influence of the partial Ca substitution on the microstructure of YBCO tapes**

**Terzieva, Stanimira; Stoyanova-Ivanova, Angelina; Mikli, Valdek; Zahariev, A.; Angelov, Christo; Dimitriev, Yanko; Kovachev, V.** Journal of optoelectronics and advanced materials 2007 / 2, p. 453-455

**The role of silicon in the hot dip galvanizing process**

**Sepper, Sirli; Peetsalu, Priidu; Kulu, Priit; Saarna, Mart; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences 2016 / p. 159-165 : ill [https://artiklid.elnet.ee/record=b2768226\\*est](https://artiklid.elnet.ee/record=b2768226*est)

**The specificity of solid-phase interaction of aluminium with silicon carbide in the manufacture of diffusion-welded contacts to semiconductor devices**

**Sleptšuk, Natalja; Korolkov, Oleg; Toompuu, Jana; Rang, Toomas; Mikli, Valdek** Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 45-48 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/2610>

**The technology and properties of sprayed coatings**

**Pihl, Toomas; Mikli, Valdek** Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 218-220

**The use of high-temperature superconducting cuprate as a dopant to the negative electrode in Ni-Zn batteries**

**Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Mikli, Valdek** Bulgarian chemical communications 2015 / p. 221-228 : ill

**Thermal analysis of synthetic biomimetic apatites**

**Tönsuaadu, Kaia; Peld, Merike; Mikli, Valdek; Traksmaa, Rainer** 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC1), 7-10 September 2011, Craiova, Romania : book of abstracts 2011 / p. 260

**Thermal annealing effect on structural and electrical properties of chemical bath-deposited CdS films**

**Hiie, Jaan; Muska, Katri; Valdma, Vello; Mikli, Valdek; Taklaja, Andres; Gavrilov, Aleksei** Thin solid films 2008 / 20, p. 7008-7012 : ill

**Thermal annealing of sequentially deposited SnS thin films**

**Safonova, Maria; Nair, Padmanabhan Pankajakshy Karunakaran; Mellikov, Enn; Aragon, Rebeca; Kerm, Karin; Naidu, Revathi; Mikli, Valdek; Volobujeva, Olga** Proceedings of the Estonian Academy of Sciences 2015 / p. 488-494 : ill <http://dx.doi.org/10.3176/proc.2015.4.04>

**Thermal behavior of Estonian graptolite-argillite from different deposits**

**Kaljuvee, Tii; Tönsuaadu, Kaia; Einard, Marve; Mikli, Valdek; Kivimäe, Eliise-Koidula; Kallaste, Toivo; Trikkel, Andres**

**Thermal behavior of some Estonian clays and their mixtures with oil shale ash additives**

Kaljuvee, Tiit; Štubna, Igor; Somelar, Peeter; Mikli, Valdek; Kuusik, Rein, keemik Journal of thermal analysis and calorimetry 2014 / p. 891-899 : ill

**Thermal behaviour of ammonium nitrate prills coated with limestone and dolomite powder**

Rudjak, Irina; Kaljuvee, Tiit; Trikkel, Andres; Mikli, Valdek Journal of thermal analysis and calorimetry 2010 / p. 749-754 : ill

**Thermal behaviour of ammonium nitrate prills coated with limestone and dolomite powder**

Kaljuvee, Tiit; Rudjak, Irina; Trikkel, Andres; Mikli, Valdek MEDICTA 2009 : 9th Mediterranean Conference on Calorimetry and Thermal Analysis : June 15-18, 2009, Marseille, France : book of abstracts 2009 / p. 117 <https://link.springer.com/article/10.1007/s10973-009-0391-y>

**Thermal behaviour of some Estonian clays and their mixtures with oil shale ash additives**

Kaljuvee, Tiit; Štubna, Igor; Somelar, Peeter; Mikli, Valdek; Kuusik, Rein, keemik Book of abstracts : 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August 2013, Vilnius, Lithuania 2013 / p. 231

**Thermal spray coatings from WC-Co powders produced by mechanically activated synthesis [Electronic resource]**

Zimakov, Sergei; Peetsalu, Priidu; Pirso, Jüri; Kulu, Priit; Mikli, Valdek Thermal spray 2006 : building on 100 years of success : proceedings of the 2006 International Thermal Spray Conference : May 15-18, 2006, Seattle, Washington, USA 2006 / p. 1387-1392 [CD-ROM]

**Thickness effect on photocatalytic activity of TiO<sub>2</sub> thin films fabricated by ultrasonic spray pyrolysis**

Dundar, Ibrahim; Mere, Arvo; Mikli, Valdek; Krunks, Malle; Oja Acik, Ilona Catalysts 2020 / art. 1058

<https://doi.org/10.3390/catal10091058> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Tin sulfide films by spray pyrolysis technique using L-cysteine as a novel sulfur source**

Polivtseva, Svetlana; Oja Acik, Ilona; Katerski, Atanas; Mere, Arvo; Mikli, Valdek; Krunks, Malle Physica status solidi (c) 2016 / p. 18-23 : ill <http://dx.doi.org/10.1002/pssc.201510098>

**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

**Ultrasound assisted mixing of zinc active mass with conductive ceramic additives for Ni-Zn battery**

Petrova, V.; Stoyanova-Ivanova, Angelina; Lilov, P.; Petkov, O.; Ivanova, B.; Stoyanova, A.; Mikli, Valdek ECS transactions 2019 / p. 227-234 <https://iopscience.iop.org/article/10.1149/09501.0227ecst> <https://doi.org/10.1149/09501.0227ecst> Conference proceeding at Scopus Article at Scopus

**Understanding and control of stress at Si-SiO<sub>2</sub> interface**

Kropman, Daniel; Seeman, Viktor; Medvids, Arturs; Onufrijevs, Pavels; Vitusevich, Svetlana; Mikli, Valdek Key engineering materials 2020 / p. 291-296 <https://doi.org/10.4028/www.scientific.net/KEM.850.291> Journal metrics at Scopus Article at Scopus

**Upgrading the crush strenght of ammonium nitrate prills by coating with limestone or dolomite powder**

Klimova, Irina; Mikli, Valdek; Kaljuvee, Tiit 6th International Granulation Workshop : Granulation Conference, Sheffield, UK, 26th-28th June 2013 2013 / p. 102

**Use of atomic-force microscopy for characterization of silicon, implanted with heavy ions at high doses**

Angelov, Christo; Groudev, P.; Mikli, Valdek Proceedings of 11th Conference "Materials for Information Tech. in the New Millennium" : ISCMP : Varna, 2001 2001 / p. 460-464

**Utilisation of industrial metal scrap by mechanical means**

Kulu, Priit; Tumanok, Aleksei; Mikli, Valdek Proceedings of the Estonian Academy of Sciences. Engineering 1996 / p. 36-48 : ill

**WC-Co hardmetal powders for formation of wear resistant coatings**

Mikli, Valdek; Kulu, Priit; Käerdi, Helmo Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 201-204 : ill

**WC-Co powder particles morphological characteristics**

Kohutek, Ivan; Käerdi, Helmo; Besterici, Michal; Kulu, Priit; Mikli, Valdek; Velgosova, Oksana Deformation and Fracture in Structural PM Materials : DF PM 2002 : proceedings of the international conference, Stara Lesna, Slovak Republic, September 15-18, 2002. Vol. 2 2002 / p. 230-235 : ill

**Wear resistance of laser cladded thermal sprayed coatings**

**Surženkov, Andrei; Kulu, Priit; Tarbe, Raho; Mikli, Valdek; Sarjas, Heikki; Latokartano, Jyrki** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 64

**Wear resistance of laser remelted thermally sprayed coatings**

**Surženkov, Andrei; Kulu, Priit; Tarbe, Raho; Mikli, Valdek; Sarjas, Heikki; Latokartano, Jyrki** Estonian journal of engineering 2009 / 4, p. 318-328 : ill

**Wear resistant powder coatings on the base of recycled hardmetal**

**Tarbe, Raho; Zimakov, Sergei; Mikli, Valdek; Kulu, Priit; Veinthal, Renno** Powder metallurgy progress 2005 / p. 148-157 : ill

**Wear resistant self-fluxing alloy based TiC-NiMo and Cr<sub>2</sub>C<sub>3</sub>-Ni hardmetal particles reinforced composite coatings**

**Surženkov, Andrei; Vallikivi, Ahto; Mikli, Valdek; Viljus, Mart; Vilgo, Timo; Kulu, Priit** Proceedings of the 2nd International Scientific Conference Manufacturing Engineering & Management 2012 : ICMEM 2012 2012 / p. 33-36 : ill

[https://www.researchgate.net/publication/262731588\\_WEAR\\_RESISTANT\\_SELF-FLUXING\\_ALLOY\\_BASED\\_TiC-NiMo\\_AND\\_Cr2C3-Ni\\_HARDMETAL\\_PARTICLES\\_REINFORCED\\_COMPOSITE\\_COATINGS](https://www.researchgate.net/publication/262731588_WEAR_RESISTANT_SELF-FLUXING_ALLOY_BASED_TiC-NiMo_AND_Cr2C3-Ni_HARDMETAL_PARTICLES_REINFORCED_COMPOSITE_COATINGS)

**Wear resistant thermal sprayed coatings on the base of recycled hardmetal powder**

**Zimakov, Sergei; Mikli, Valdek; Kulu, Priit; Tarbe, Raho** Engineerings Materials & Tribology 2004 : materials of the XIII-th International Baltic Conference : September 23-24, Riga, Latvia 2004 / p. 83-88 : ill

**Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders**

**Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 25

**Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders**

**Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei; Vuoristo, Petri** Materials science = Medžiagotyra 2012 / p. 34-39 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1338>

**Õhukeste TiO<sub>2</sub> kilede kasv erinevatel alustel pihustuspürolüüsmeetodil**

**Junolainen, Agne; Oja Acik, Ilona; Mikli, Valdek; Danilson, Mati; Krunks, Malle** XXXI Eesti keemiatähtaevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 35

**X-ray investigation of microstructure and properties evolution on superalloy Inconel-718 derivative during rapid joule heating and severe plastic deformation in-situ**

**Kommel, Lembit; Traksmaa, Rainer; Mikli, Valdek** International journal for innovation education and research 2018 / p. 12-22 : ill <http://ijier.net/index.php/ijier/article/download/1145/813/>

**Текстура и структура на горещо валцовани YBCO ленти с калциева (Ca) субституция (Texture and structure of hot-rolling YBCO tapes with Ca-substitution)**

**Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Mikli, Valdek; Traksmaa, Rainer; Kovachev, V.** Списание на БАН = Magazine of BAS 2005 / [4] p