

## **An analogue of melt segregation and accumulation processes in the Earth's crust**

**Urtson, Kristjan; Soesoo, Alvar** Estonian journal of earth sciences 2007 / 1, p. 3-10 : ill

## **Assessing structural bonding aspects of multiband superconductors through impurity-induced local lattice distortions : a case study on MgB<sub>2</sub>**

**Pishtshev, Aleksandr; Klopov, Mihhail** International journal of quantum chemistry 2013 / p. 643-650 : ill

## **Astronoomia praktikum 1. Õppekaardid**

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## **Atmosfäär**

**Mars, Mario** Minu Maailm 2015 / lk. 20-21 : fot [http://www.ester.ee/record=b3033179\\*est](http://www.ester.ee/record=b3033179*est)

## **Atmosfääri ehitus**

**Mars, Mario** Minu Maailm 2015 / lk. 20-21 : ill [http://www.ester.ee/record=b3033179\\*est](http://www.ester.ee/record=b3033179*est)

## **Atmosfääri ja mere dünaamika**

**Elken, Jüri; Männik, Aarne; Rõõm, Rein** Teadusmõte Eestis : täppisteadused : [artiklikogumik] 2006 / lk. 119-126 : ill  
[https://www.ester.ee/record=b2230239\\*est](https://www.ester.ee/record=b2230239*est)

## **Cd<sup>2+</sup> ja Mn<sup>2+</sup> sidumine vesilahustest sünteetiliste fluorkarbonaatapatitidega = Removal of Cd<sup>2+</sup> and Mn<sup>2+</sup> ions from aqueous solutions by fluorocarbonateapatites**

**Tõnsuaadu, Kaia; Peld, Merike; Veiderma, Mihkel; Bender, Villem** XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 215-216  
[https://www.ester.ee/record=b1070511\\*est](https://www.ester.ee/record=b1070511*est)

## **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) monograin 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>

## **Conjoined structures of carbon nanotubes and graphene nanoribbons**

**Krasnenko, Veera; Boltruško, Vadim; Klopov, Mihhail; Hižnjakov, Vladimir** Physica scripta 2014 / p. 1-4 : ill

## **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

## **Defect studies in Cu<sub>2</sub>ZnSnSe<sub>4</sub> and Cu<sub>2</sub>ZnSn(Se<sub>0.75</sub>S<sub>0.25</sub>)<sub>4</sub> by admittance and photoluminescence spectroscopy**

**Kask, Erkki; Grossberg, Maarja; Josepson, Raavo; Salu, Pille; Timmo, Kristi; Krustok, Jüri** Materials science in semiconductor processing 2013 / p. 992-996 : ill

## **Department of Physics**

**Ruus, Tõnu; Gavrilov, Aleksei; Rusalep, Ervin; Loide, Rein-Karl** Research activities / Tallinn Technical University 1993 / p. 11-12  
[https://www.ester.ee/record=b1053754\\*est](https://www.ester.ee/record=b1053754*est)

## **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

## **Diagnosis of moisture movements in massive dolostone walls of medieval churches**

**Kurik, Lembit; Kalamees, Targo; Kallavus, Urve** Recent developments in building diagnosis techniques 2016 / p. 69-90 : ill  
[http://dx.doi.org/10.1007/978-981-10-0466-7\\_5](http://dx.doi.org/10.1007/978-981-10-0466-7_5)

## **Dielectric relaxation and conduction mechanisms in sprayed TiO<sub>2</sub> thin films as a function of the annealing temperature**

**Juma, Albert Owino; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Applied physics. A, Materials science & processing 2016 / art. 359, p. 1-6 : ill <http://dx.doi.org/10.1007/s00339-016-9874-4>

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**Otto, Tauno; Kurik, Lembit** Annals of DAAAM for 2002 & proceedings of the 13th International DAAAM Symposium "Intelligent Manufacturing & Automation : Learning from Nature" : Vienna University of Technology, 23-26th October 2002, Vienna, Austria, European Union 2002 / p. 397-398 : ill

## **Doubly charged Higgs boson decays and implications on neutrino physics = Kahekordse laenguga Higgsi bosoni lagunemiste analüüs ja selle mõju neutriinofüüsikale**

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**Eesti eluasemefondi puitkorterelamute ehitustehniline seisukord ning prognoositav eluiga : uuringu lõpparuanne Kalamees, Targo; Arumägi, Endrik; Just, Alar; Kallavus, Urve; Mikli, Lauri; Thalfeldt, Marko; Klõšeiko, Paul; Agasild, Tõnis; Liho, Eva; Haug, Priit; Tuurmann, Kristo; Liias, Roode; Öiger, Karl; Langeproon, Priit; Orro, Oliver; Välja, Leele; Suits, Maris; Kodi, Georg-Mihkel; Ilomets, Simo; Alev, Üllar; Kurik, Lembit 2011 [http://www.ester.ee/record=b2720728\\*est](http://www.ester.ee/record=b2720728*est)**

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**Vaikmäe, Rein** Teaduse ning teadus- ja arendustegevuse finantseerimissüsteemi evalveerimine : Eesti Teaduste Akadeemia seminari materjalid : 19.11.2003 2004 / lk. 4-6 [https://www.ester.ee/record=b1884230\\*est](https://www.ester.ee/record=b1884230*est)

**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 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 "Funktsionaalsed materjalid ja tehnoloogiad" 2013 / [1] p

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

**Graf, Aleksandr; Maticiu, 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>

**Electrical characterization of cadmium sulfide films, annealed in reducing, neutral and oxidizing ambients of H<sub>2</sub>, N<sub>2</sub>, and air**

**Graf, Aleksandr; Gavrilov, Aleksei; Hiie, Jaan** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

**Electrical characterization of CdS films, annealed in reducing, neutral and oxidizing ambients of H<sub>2</sub>, N<sub>2</sub>, and air**

**Graf, Aleksandr; Maticiu, Natalia; Gavrilov, Aleksei; Hiie, Jaan** EMRS 2014 Spring Meeting : Lille, France, May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 22

**Electrical characterization of nanostructured CIS solar cell prepared by chemical spray pyrolysis**

**Kärber, Erki; Abass, Aimi; Khelifi, Samira; Burgelman, Marc; Mere, Arvo; Katerski, Atanas; Krunks, Malle** NEXTGEN NANO PV : book of abstracts 2013 / p. 80-81

**Electronic and optical properties of magnesium and calcium hydroxides : the role of covalency and many-body effects**

**Pishchev, Aleksandr; Karazhanov, S. Zh.; Klopov, Mihhail** 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. 258

**Electronic excitations and self-trapping of electrons and holes in CaSO<sub>4</sub>**

**Kudrjavitseva, Irina; Klopov, Mihhail; Luštšik, Aleksandr** Physica scripta 2014 / p. 1-6 : ill

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**Gavrilov, Aleksei** Kalastaja 2016 / lk. 76-79 : ill. ; 82, lk. 76 [http://www.ester.ee/record=b1072320\\*est](http://www.ester.ee/record=b1072320*est)  
[https://artiklid.elnet.ee/record=b2807237\\*est](https://artiklid.elnet.ee/record=b2807237*est)

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**Excitons in Mg(OH)<sub>2</sub> and Ca(OH)<sub>2</sub> from ab initio calculations**

**Pishchev, Aleksandr; Karazhanov, S. Zh.; Klopov, Mihhail** Solid state communications 2014 / p. 11-15 : ill

**Extent and reasons for biodeterioration, salt distribution and damage of plaster in Estonian medieval churches**

**Kallavus, Urve; Kalamees, Targo; Kurik, Lembit; Traksmäa, Rainer** ISBP 2015 : 1st International Symposium on Building Pathology : conference proceedings : March 24-27, 2015, Porto, Portugal 2015 / p. 709-716 : ill

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**Uder, Ülo-Olimar** 2006 [http://www.ester.ee/record=b2122527\\*est](http://www.ester.ee/record=b2122527*est)

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Pärtel, Enn; **Loide, Rein-Karl** 2014 [https://www.ester.ee/record=b4422377\\*est](https://www.ester.ee/record=b4422377*est)

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**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 dynamics of nanocrystalline diamond films produced by microwave plasma enhanced chemical vapor deposition in methane/hydrogen/air mixture : scaling analysis of surface morphology**

**Podgurski, Vitali; Bogatov, Andrei; Sedov, V.; Sildos, Ilmo; Mere, Arvo; Viljus, Mart; Buijnsters, J. G.; Ralchenko, V.** Diamond and related materials 2015 / p. 172-179 : ill <http://dx.doi.org/10.1016/j.diamond.2015.07.002>

**Growth of zinc oxide nanostructured layers on SnO<sub>2</sub> electrodes by spray pyrolysis**

**Dedova, Tatjana; Volobujeva, Olga; Gromõko, Inga; Mikli, Valdek; Mere, Arvo; Krunks, Malle** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" 2013 / [1] p

**Growth of ZnO rods on FTO electrodes by spray pyrolysis**

**Dedova, Tatjana; Volobujeva, Olga; Krunks, Malle; Mikli, Valdek; Gromõko, Inga; Katerski, Atanas; Mere, Arvo** IOP conference series : materials science and engineering 2013 / [4] p. : ill

**High-temperature erosion of Fe-based coatings reinforced with cermet particles**

**Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Kulu, Priit; Viljus, Mart; Traksmaa, Rainer; Mere, Arvo** Surface engineering 2016 / p. 624-630 : ill <http://dx.doi.org/10.1080/02670844.2016.1145377>

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**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 Cu<sub>2</sub>ZnSn(SexS<sub>1-x</sub>)<sub>4</sub> (x=0.3) compositional ratios on the monograin powder properties and solar cells**

**Muska, Katri; Kauk-Kuusik, Marit; Grossberg, Maarja; Altosaar, Mare; Pilvet, Maris; Varema, Tiit; Timmo, Kristi; Volobujeva, Olga; Mere, Arvo** Thin solid films 2013 / p. 35-38 : ill

**Impact of the selenisation temperature on the structural and optical properties of CZTSe absorbers**

**Marquez-Prieto, J.; Yakushev, M.V.; Forbes, I.; Krustok, Jüri** Solar energy materials and solar cells 2016 / p. 42-50 : ill <http://dx.doi.org/10.1016/j.solmat.2016.03.018>

**Implications of the theory of turbulent mixing for wave propagation in media with fluctuating coefficient of refraction**  
**Kalda, Jaan; Kree, Mihkel** Proceedings of the Estonian Academy of Sciences 2015 / p. 285-290 : ill  
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**Indoor climate in a naturally ventilated unheated medieval churches**

**Kalamees, Targo;** Väli, Alan; **Kurik, Lembit** The Final Research Report of the project "Sustainable Management of Historic Rural Churches in the Baltic Sea Region (SMC)" 2013 / p. 30-51 : 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 electrical properties of cadmium sulfide thin films**

**Graf, Aleksandr** Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania 2013 / p. 457-463

**Investigation of the structural, optical and electrical properties of Cu<sub>3</sub>BiS<sub>3</sub> semiconducting thin films**

Yakushev, M. V.; Maiello, P.; **Raadik, Taavi; Krustok, Jüri** Energy procedia 2014 / p. 166-172 : ill

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**Mars, Mario** Minu Maailm 2016 / lk. 22-23 : ill [http://www.ester.ee/record=b3033179\\*est](http://www.ester.ee/record=b3033179*est)

**Kas kodukootud jopest loobumine tooks Kelly Sildaru X-mängude medalivõistluse tagasi?**

Voog, Viljar; **Meri, Arvo** Õhtuleht 2016 / lk. 20-21 <https://www.ohhtuleht.ee/sport/715324/kas-kodukootud-jopest-loobumine-tooks-kelly-sildaru-x-mangude-medalivoistluse-tagasi>

**Kes on astronoom ja kuidas selleks saada?**

**Mars, Mario** Minu Maailm 2016 / lk. 20-21 : ill [http://www.ester.ee/record=b3033179\\*est](http://www.ester.ee/record=b3033179*est)

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**Soesoo, Alvar** Õpetajate Leht 2007 / 25. mai, lk. 8 [https://artiklid.elnet.ee/record=b2371104\\*est](https://artiklid.elnet.ee/record=b2371104*est)

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

**Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo;** Sildos, Ilmo; **Krunks, Malle** The Beilstein journal of nanotechnology 2014 / p. 2398-2402 : ill

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**Magnetic and structural studies of LaMnO<sub>3</sub> thin films prepared by atomic layer deposition**

**Khanduri, Himani; Chandra Dimri, Mukesh;** Vasala, S.; Leinberg, Silver; Löhmus, Rünno; Ashworth, T. V.; **Mere, Arvo; Krustok, Jüri;** Karppinen, Maarit; Stern, Raivo Journal of physics D : applied physics 2013 / p. 1-8 : ill

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**Khanduri, Himani** 2013 [https://www.ester.ee/record=b2954989\\*est](https://www.ester.ee/record=b2954989*est)

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Chandra Dimri, Mukesh; Khanduri, Himani; **Mere, Arvo;** Stern, Raivo 13th International Conference on Magnetic Fluids : 7th-11th January 2013 : abstract book 2013 / p. 196-197

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**Materials properties of magnesium and calcium hydroxides from first-principles calculations**

Pishtshev, Aleksandr; Karazhanov, S. Zh.; **Klopov, Mihhail** Computational materials science 2014 / p. 693-705 : ill

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**Graf, Aleksandr; Gavrilov, Aleksei; Suurvarik, Pavel** International journal of engineering and applied sciences (EAAS) 2015 / p. 26-31 : ill <http://eaas-journal.org/survey/userfiles/files/v6i303%20Physics.pdf>

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**Mars, Mario** Minu Maailm 2016 / lk. 20-21 : ill [http://www.ester.ee/record=b3033179\\*est](http://www.ester.ee/record=b3033179*est)

**Method for data collection and integration into 3D architectural model**

**Kurik, Lembit; Sinivee, Veljo; Lints, Martin; Kallavus, Urve** Innovations and advances in computer, information, systems sciences, and engineering 2013 / p. 707-717 : ill

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**Microphotoluminescence study of Cu<sub>2</sub>ZnSnS<sub>4</sub> polycrystals**

**Grossberg, Maarja; Salu, Pille; Raudoja, Jaan; Krustok, Jüri** Journal of photonics for energy 2013 / p. 030599-1 - 030599-6 : ill

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**Modeling of self-localized vibrations and defect formation in solids**

Hižnjakov, Vladimir; Haas, Mati; Pishtshev, Aleksandr; Šelkan, Aleksander; **Klopov, Mihhail** Nuclear instruments and methods in physics research section B-beam interactions with materials and ato 2013 / p. 91-94 : ill

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

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

**Molecular dynamics study of bending deformation in fivefold twinned silver nanowires**

Jõgi, Jakob; Dorogin, Leonid; **Kalda, Jaan** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

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

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2008

**Tallinna Tähetorn**

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