

### **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  
[https://ibn.idsi.md/sites/default/files/imag\\_file/Analysis%20of%20fill%20factor%20losses%20in%20thin%20film%20CdSCdTe%20photovoltaic%20devices.pdf](https://ibn.idsi.md/sites/default/files/imag_file/Analysis%20of%20fill%20factor%20losses%20in%20thin%20film%20CdSCdTe%20photovoltaic%20devices.pdf)

### **Application of ultrasonic sprayed zirconium oxide dielectric in zinc tin oxide-based thin film transistor**

Oluwabi, Abayomi Titilope; Katerski, Atanas; Carlos, Emanuel; Branquinho, Rita; Mere, Arvo; Krunks, Malle; Fortunato, Elvira; Pereira, Luis; Oja Acik, Ilona Journal of materials chemistry C 2020 / p. 3730-3739 : ill <https://doi.org/10.1039/C9TC05127A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Arvo Mere: esimese arvuti ehitasin ise 1987. aastal**

Mere, Arvo Mente et Manu 2025 / lk. 8-9 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Autod füüsika eitajaile : [autode telereklaame kommenteerib TTÜ füüsikainstituudi lektor Arvo Mere]**

Sarv, Mari; Mere, Arvo Eesti Päevaleht 2005 / 14. märts, lk. 16

### **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 surface science 2012 / p. 735-741 : 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

### **Chemical spray deposition of zinc oxide nanostructured layers from zinc acetate solutions**

Dedova, Tatjana; Klauson, Jelena; Badre, C.; Pauporte, Th.; Nisumaa, Reet; Mere, Arvo; Volobujeva, Olga; Krunks, Malle Physica status solidi (a) : applications and materials science 2008 / 10, p. 2355-2359 : ill  
<https://onlinelibrary.wiley.com/doi/abs/10.1002/pssa.200779440>

### **Combinative solution processing and Li doping approach to develop p-type NiO thin films with enhanced electrical properties**

Oluwabi, Abayomi Titilope; Spalatu, Nicolae; Matciuc, Natalia; Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona Frontiers in materials 2023 / 12 p. : ill <https://doi.org/10.3389/fmats.2023.1060420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystal diamond and Si(100) substrates**

Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Volobujeva, Olga; Mere, Arvo; Raadik, Taavi Diamond and related materials 2019 / p. 159-167 : ill <https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A comparative study on physical properties of Al-doped zinc oxide thin films deposited from zinc acetate and zinc acetylacetonate by spray pyrolysis**

Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo Energetika 2017 / p. 46-55 : ill  
<https://doi.org/10.6001/energetika.v63i2.3519> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **A comparative study on physical properties of Al-doped zinc oxide thin films deposited from zinc acetate and zinc acetylacetonate solutions by spray pyrolysis**

Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo The 14th International Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-332  
[http://cyseni.com/archives/proceedings/Proceedings\\_of\\_CYSENI\\_2017.pdf](http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf)

### **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 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 <https://www.sciencedirect.com/science/article/abs/pii/S0040609099008354>

### **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

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

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

### **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 <https://doi.org/10.1016/j.tsf.2014.10.091> [Conference Proceedings at Scopus Article at Scopus](#) [Conference Proceedings at WOS Article at WOS](#)

### **Copper indium disulfide films by chemical spray pyrolysis for photovoltaics**

Krunk, Malle; Mere, Arvo; Katerski, Atanas Proceedings of the International Conference on Solar Cells : IC-SOLACE 2008 : January 21-23, 2008, Cochin, India 2008 / p. 16-19

### **Cost-effective sprayed CuInS<sub>2</sub> films for solar cells**

Krunk, Malle; Kijatkina, Olga; Blums, J.; Oja, Ilona; Mere, Arvo; Mellikov, Enn Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume II 2002 / p. 1211-1214 : ill

### **Cost-effective sprayed CuInS<sub>2</sub> films for solar cells**

Blums, J.; Krunk, Malle; Mere, Arvo 17th European PVSEC1 : book of abstracts 2001 / p. B1.50

### **Crystal quality studies of CuInS<sub>2</sub> films prepared by spray pyrolysis**

Oja, Ilona; Nanu, M.; Katerski, Atanas; Krunk, Malle; Mere, Arvo; Raudoja, Jaan; Goossens, A. Thin solid films 2005 / p. 82-86 : ill

### **CuInS<sub>2</sub> kilede koostise uurimine XPS meetodil**

Katerski, Atanas; Danilson, Mati; Mere, Arvo; Krunk, Malle XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 41

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

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

### **CuInS<sub>2</sub> sprayed films on different metal oxide underlayers**

Kijatkina, Olga; Krunk, Malle; Mere, Arvo; Mahrov, B.; Dloczik, L. EMRS 2002, B/PI 2002 / p. 11

### **CuInS<sub>2</sub> sprayed films on different metal oxide underlayers**

Kijatkina, Olga; Krunk, Malle; Mere, Arvo; Mahrov, B.; Dloczik, L. Thin solid films 2003 / p. 105-109 : ill

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

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

### **Deposition of p-type NiO films by chemical spray pyrolysis**

Krunk, Malle; Soon, Jaanika; Unt, Tarmo; Mere, Arvo; Mikli, Valdek Vacuum 2014 / p. 242-246 : ill <https://doi.org/10.1016/j.vacuum.2014.02.013> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

### **Determination of charge carrier density in zinc oxide nanorods prepared by chemical spray pyrolysis**

Kärber, Erki; Dedova, Tatjana; Oja Acik, Ilona; Krunk, 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

### **Development and application of energy producing solar pavement in Estonia**

Jalakas, Tanel; Chub, Andrii; Vinnikov, Dmitri; Spalatu, Nicolae; Gudkova, Viktoria; Krunk, Malle; Mere, Arvo; Lahi, Allan 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p. : ill <https://doi.org/10.1109/RTUCON56726.2022.9978908>

### **Development of sprayed CuInS<sub>2</sub> thin film absorber for nanostructured solar cell**

Katerski, Atanas; Kärber, Erki; Krunk, Malle; Mikli, Valdek; Mere, Arvo Materials Research Society symposium proceedings 2012 [https://www.researchgate.net/publication/271903084\\_Development\\_of\\_sprayed\\_CuInS<sub>2</sub>\\_thin\\_film\\_absorber\\_for\\_nanostructured\\_solar\\_cell](https://www.researchgate.net/publication/271903084_Development_of_sprayed_CuInS2_thin_film_absorber_for_nanostructured_solar_cell)

### **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; Krunk, Malle Applied physics. A, Materials science & processing 2016 / art. 359, p. 1-6 : ill <https://doi.org/10.1007/s00339-016-9874-4> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

#### **Effect of carbon stabilizing elements on WC cemented carbides with chromium steel binder**

**Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Mere, Arvo; Viljus, Mart** Materials science = Medžiagotyra 2019 / p. 202-206 : ill <https://doi.org/10.5755/j01.ms.25.2.19619> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of drying methods on the morphological and functional properties of cellulose ester films**

**Kattamanchi, Tanuj; Kallakas, Heikko; Tarasova, Elvira; Alao, Percy Festus; Kaljuvee, Tiit; Mere, Arvo; Katerski, Atanas; Kers, Jaan** Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025 "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 42 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

#### **Effect of green co-solvents on properties and synthesis of cellulose esters in superbase ionic liquid**

**Tarasova, Elvira; Savale, Nutan Bharat; Trifonova, Lada; Krasnou, Illia; Reile, Indrek; Kudrjašova, Marina; Mere, Arvo; Kaljuvee, Tiit; Mikli, Valdek; Sedrik, Rauno; Krumme, Andres** Cellulose 2024 / p. 4911-4927 <https://doi.org/10.1007/s10570-024-05920-x> [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 CuInS<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 laser heat treatment on Al<sub>x</sub>Ti<sub>1-x</sub>N-based PVD coatings, deposited on carbon and tool steel substrates**

**Surženkov, Andrei; Viljus, Mart; Antonov, Maksim; Kübarsepp, Jakob; Juhani, Kristjan; Kulu, Priit; Vagiström, Heinar; Jankauskas, Vytenis; Leišys, Rimtautas; Bendikiene, Regita; Adoberg, Eron; Peetsalu, Priidu; Mere, Arvo; Gregor, Andre** Surface and coatings technology 2022 / art. 128771 <https://doi.org/10.1016/j.surfcoat.2022.128771> [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 <https://doi.org/10.1016/j.tsf.2015.03.036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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 <https://doi.org/10.1155/2013/423632> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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 <https://www.sciencedirect.com/science/article/abs/pii/S0040609011020827>

#### **Effect of Zr doping on the structural and electrical properties of spray deposited TiO<sub>2</sub> thin films**

**Oluwabi, Abayomi Titilope; Juma, Albert Owino; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Proceedings of the Estonian Academy of Sciences 2018 / p. 147-157 : ill <https://doi.org/10.3176/proc.2018.2.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of the growth temperature on chemical composition of spray-deposited CuInS<sub>2</sub> thin films**

**Katerski, Atanas; Danilson, Mati; Mere, Arvo; Krunks, Malle** Energy procedia 2010 / p. 103-107 : 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 "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; Maticiuc, Natalia; Spalatu, Nicolae; Mikli, Valdek; Mere, Arvo; Gavrilov, Aleksei; Hiie, Jaan** Thin solid films 2015 / p. 351-355 : ill <https://doi.org/10.1016/j.tsf.2014.11.003> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

#### **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

#### **Electrical properties of sprayed CuInS<sub>2</sub> films for solar cells**

**Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Krustok, Jüri; Krunks, Malle** Journal of physics and chemistry of solids 2003 / Issues 9/10, p. 2025-2029 : ill

#### **Electrical, optical and structural properties of sprayed CuInS<sub>2</sub> films for solar cells**

**Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Krunks, Malle** ICTMC13 : 13th International Conference on Ternary and Multinary Compounds, Paris, 2002, October 14th-18th : book of abstracts 2002 / p. 212

### **Electrodeposited molybdenum oxide coatings for thin film chalcopyrite solar cells**

Ganchev, Maxim; Dimitrov, Dimitri; Stankova, Stanka; **Katerski, Atanas**; Gadjev, Iliya; **Volobujeva, Olga**; **Mere, Arvo**; **Bereznev, Sergei**; **Krunks, Malle** 10th Jubilee Conference of the Balkan Physical Union 2019 / art. 140002 <https://doi.org/10.1063/1.5091317>  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Electrodeposited ZnO morphology transformations under the influence of SeO<sub>2</sub> additive: Rods, disks, nanosheets network**

**Gromõko, Inga**; **Dedova, Tatjana**; **Polivtseva, Svetlana**; **Kois, Julia**; Puust, Laurits; Sildos, Ilmo; **Mere, Arvo**; **Krunks, Malle** Thin solid films 2018 / p. 10-15 : ill <https://doi.org/10.1016/j.tsf.2017.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Energiat tootev teekatend nüüd ka Eestis**

**Jalakas, Tanel**; **Chub, Andrii**; **Vinnikov, Dmitri**; **Spalatu, Nicolae**; Gudkova, Viktoria; **Krunks, Malle**; **Mere, Arvo**; **Lahi, Allan**; Lindvest, Andre Elektriala 2023 / lk. 14-16 : portr., fot [https://www.ester.ee/record=b1240496\\*est](https://www.ester.ee/record=b1240496*est)

### **Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO<sub>2</sub> thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis**

**Spiridonova, Jekaterina**; **Mere, Arvo**; **Krunks, Malle**; **Rosenberg, Merilin**; Kahru, Anne; **Danilson, Mati**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Catalysts 2020 / 21 p. : ill <https://doi.org/10.3390/catal10091011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Experimental studies of ZnS-based phosphors**

**Valdna, Vello**; Durst, R.; **Mere, Arvo** Proc. Euromat '99. Vol. 13 2000 / p. 117-120

### **Extremely thin absorber layer nanostructured solar cell by chemical spray pyrolysis**

**Mere, Arvo**; **Katerski, Atanas**; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Krunks, Malle** Proceedings 23rd European Photovoltaic Solar Energy Conference : 1-5 September, 2008, Valencia, Spain 2008 / p. 2147-2150

### **Extremely thin absorber layer solar cells on zinc oxide nanorods by chemical spray**

**Krunks, Malle**; **Kärber, Erki**; **Katerski, Atanas**; **Otto, Kairi**; **Oja Acik, Ilona**; **Dedova, Tatjana**; **Mere, Arvo** Solar energy materials & solar cells 2010 / p. 1191-1195

### **Ferritic chromium steel as binder metal for WC cemented carbides**

**Tarraste, Marek**; **Kübarsepp, Jakob**; **Juhani, Kristjan**; **Mere, Arvo**; **Kolnes, Märt**; **Viljus, Mart**; **Maaten, Birgit** International journal of refractory metals and hard materials 2018 / p. 183-191 : ill <https://doi.org/10.1016/j.jrmhm.2018.02.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ferromagnetism in rare earth doped cerium oxide bulk samples**

Chandra Dimri, Mukesh; **Khanduri, Himani**; Kooskora, Helgi; Subbi, Juhani; Heinmaa, Ivo; **Mere, Arvo**; **Krustok, Jüri**; Stern, Raivo Physica status solidi (a) 2012 / p. 353-358 : ill <https://onlinelibrary.wiley.com/doi/full/10.1002/pssa.201127403>  
<https://onlinelibrary.wiley.com/doi/full/10.1002/pssa.201127403>

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

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

### **Füüsika : riigieksam 2000. Riigieksam 2001**

2000 [https://www.ester.ee/record=b1349673\\*est](https://www.ester.ee/record=b1349673*est)

### **Füüsika : riigieksam 2001. Riigieksam 2002**

2001 [https://www.ester.ee/record=b1349673\\*est](https://www.ester.ee/record=b1349673*est)

### **Füüsika : riigieksam 2002. Riigieksam 2003**

2002 [https://www.ester.ee/record=b1349673\\*est](https://www.ester.ee/record=b1349673*est)

**Füüsika : riigieksam 2003. Riigieksam 2004**

**Mere, Arvo** 2003 [https://www.ester.ee/record=b1349673\\*est](https://www.ester.ee/record=b1349673*est)

**Füüsika katseline riigieksam 1998**

**Mere, Arvo** 1997 [https://www.ester.ee/record=b1057265\\*est](https://www.ester.ee/record=b1057265*est)

**Füüsika katseline riigieksam 1998**

**Mere, Arvo** 1999 [https://www.ester.ee/record=b1229866\\*est](https://www.ester.ee/record=b1229866*est)

**Füüsika praktikum**

**Aarna, Heiti; Mere, Arvo; Veimer, Vladimir** 1991 [https://www.ester.ee/record=b1195365\\*est](https://www.ester.ee/record=b1195365*est)

**Füüsika praktikumi metoodiline juhend**

1978 [https://www.ester.ee/record=b1266392\\*est](https://www.ester.ee/record=b1266392*est)

**Füüsika riigieksam 1999**

**Mere, Arvo** 1999

**Füüsika riigieksam 2005 : [XXXVI Eesti füüsikapäevade 21.-22. märtsil 2006 ettekande sisukokkuvõte]**

**Mere, Arvo** Eesti Füüsika Seltsi aastaraamat 2005 2006 / lk. 87-88 : ill

**Füüsika riigieksamid**

**Mere, Arvo** Õpetajate Leht 2003 / 7. märts, Füüsika, lk. 3 [https://artiklid.elnet.ee/record=b2324384\\*est](https://artiklid.elnet.ee/record=b2324384*est)

**Füüsika ülesanded**

2000 [https://www.ester.ee/record=b1428372\\*est](https://www.ester.ee/record=b1428372*est)

**Füüsika ülesanded**

2000 [https://www.ester.ee/record=b4160181\\*est](https://www.ester.ee/record=b4160181*est)

**Füüsika ülesanded**

1998 [https://www.ester.ee/record=b1061290\\*est](https://www.ester.ee/record=b1061290*est)

**Füüsika ülesanded**

1998 [https://www.ester.ee/record=b1061548\\*est](https://www.ester.ee/record=b1061548*est)

**Füüsika ülesanded**

2005 [http://www.ester.ee/record=b2032225\\*est](http://www.ester.ee/record=b2032225*est)

**Füüsika ülesanded**

**Aarna, Heiti; Bender, Villem; Kelder, Tõnu; Mere, Arvo; Reiter, Eerik; Rusalep, Ervin; Ruus, Tõnu; Suurvarik, Pavel; Uder, Ülo-Olimar** 2002 [https://www.ester.ee/record=b1593180\\*est](https://www.ester.ee/record=b1593180*est)

**Füüsika ülesanded**

1996 [https://www.ester.ee/record=b1071006\\*est](https://www.ester.ee/record=b1071006*est)

**Gas sensing capability of spray deposited Al-doped ZnO thin films**

**Eensalu, Jako Siim; Katerski, Atanas; Mere, Arvo; Krunks, Malle** Proceedings of the Estonian Academy of Sciences 2018 / p. 124–130 : ill <https://doi.org/10.3176/proc.2018.2.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Gas sensing capability of spray deposited Al-doped ZnO thin films [Online resource]**

**Eensalu, Jako Siim; Katerski, Atanas; Mere, Arvo; Krunks, Malle** 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/>

**Gas-phase photocatalytic oxidation of VOCs on the TiO<sub>2</sub> thin films**

**Sydorenko, Jekaterina; Danilson, Mati; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 10 [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)

**Group II-VI downconverting phosphors**

**Valdna, Vello; Gavrish, T.; Hiie, Jaan; Mellikov, Enn; Mere, Arvo** Materials Research Society symposia proceedings series 1997 / p. 463-466: ill

### Group II-VI downconverting phosphorus

Valdna, Vello; Gavrish, T.; Hiie, Jaan; Mellikov, Enn; Mere, Arvo MRS Fall Meeting, Boston, 1996 : abstracts 1996 / [1] p  
<https://link.springer.com/article/10.1557/PROC-450-463>

### Growth and electrical properties of ZnO nanorod arrays prepared by chemical spray pyrolysis

Krunk, 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; Krunk, Malle; Mikli, Valdek; Unt, Tarmo; Kuk, Mart; Mere, Arvo Thin solid films 2014 / p. 87-92 : ill <https://doi.org/10.1016/j.tsf.2013.05.150> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### 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; Buijsters, J. G.; Ralchenko, V. Diamond and related materials 2015 / p. 172-179 : ill <https://doi.org/10.1016/j.diamond.2015.07.002> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### 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; Krunk, 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; Krunk, Malle; Mikli, Valdek; Gromöko, Inga; Katerski, Atanas; Mere, Arvo IOP conference series : materials science and engineering 2013 / [4] p. : ill <https://doi.org/10.1088/1757-899X/49/1/012001> Conference Proceedings at Scopus Article at Scopus Article at WOS

### Gümnaasiumi füüsika ainekava ja riigieksam

Mere, Arvo; Ugaste, Ülo Konverentsi "Reaalained ja uus õppekava" materjalid : Tartu, 27.-28. oktoober 2000 2000 / lk. 82-87 : ill

### Halli andur magnetilise induktiooni mõõtmiseks magnetahelate õhupiludes

Seire, R.; Mere, Arvo XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 69 [https://www.ester.ee/record=b1322611\\*est](https://www.ester.ee/record=b1322611*est)

### Hierarchical nanostructures of ZnO obtained by spray pyrolysis

Dedova, Tatjana; Krunk, Malle; Oja Acik, Ilona; Klauson, Deniss; Volobujeva, Olga; Mere, Arvo Materials chemistry and physics 2013 / p. 69-75 : ill <https://doi.org/10.1016/j.matchemphys.2013.04.026> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Kulu, Priit; Viljus, Mart; Traksmäa, Rainer; Mere, Arvo Surface engineering 2016 / p. 624-630 : ill <https://doi.org/10.1080/02670844.2016.1145377> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### High-κ metal oxide thin film by chemical spray pyrolysis : from optimization of material properties to application in thin film transistor = Metallioksiidi õhukesed kiled keemilise pihustuspürolüüsi meetodil : materjali omaduste optimeerimine ja rakendamine õhukesekilelistes transistorides

Oluwabi, Abayomi Titilope 2020 <https://digikogu.taltech.ee/et/Item/4b6d9afd-74d2-40ac-9c12-335d2f608474>  
[https://www.ester.ee/record=b5362429\\*est](https://www.ester.ee/record=b5362429*est)

### 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 <https://doi.org/10.1016/j.tsf.2012.10.031> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### 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; Krunk, 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

#### **In2S3 õhukeste kilede sadestamine pihustuspürolüüsi meetodil**

**Otto, Kairi; Katerski, Atanas; Mere, Arvo; Krunks, Malle** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 60

#### **Indium sulfide thin films deposited by chemical spray of aqueous and alcoholic solutions**

**Otto, Kairi; Katerski, Atanas; Volobujeva, Olga; Mere, Arvo; Krunks, Malle** Energy procedia 2011 / p. 63-69

#### **Influence of post-UV/ozone treatment of ultrasonic-sprayed zirconium oxide dielectric films for a low-temperature oxide thin film transistor**

**Oluwabi, Abayomi Titilope; Gaspar, Diana; Katerski, Atanas; Mere, Arvo; Krunks, Malle; Pereira, Luis; Oja Acik, Ilona** Materials 2020 / art. 6, 14 p. : ill <https://doi.org/10.3390/ma13010006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Influence of solution composition on sprayed ZnO nanorods properties and formation process: Thermoanalytical study of the precursors**

**Dedova, Tatjana; Oja Acik, Ilona; Polivtseva, Svetlana; Krunks, Malle; Gromõko, Inga; Tõnsuaadu, Kaia; Mere, Arvo** Ceramics international 2019 / p. 2887-2892 : ill <https://doi.org/10.1016/j.ceramint.2018.07.274> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Oja Acik, Ilona; Oyekoya, Gboyega Nathaniel; Mere, Arvo; Katerski, Atanas; Mikli, Valdek; Krunks, Malle** IOP conference series : materials science and engineering 2015 / 5 p. : ill <https://doi.org/10.1088/1757-899X/77/1/012009> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Keemiliselt pihustatud CuInS<sub>2</sub> kiled siledatel ja poorsetel elektroodidel**

**Kijatkina, Olga; Krunks, Malle; Mere, Arvo** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 55

#### **Keemiliselt sadestatud kaadmiumsulfiidi kilede lõõmutamisel toimuvad struktuursed muutused**

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

#### **Keemilistel meetoditel sadestatud õhukesed kiled päikeseenergeetikale**

**Krunks, Malle; Oja, Ilona; Dedova, Tatjana; Mere, Arvo; Katerski, Atanas; Hiie, Jaan** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 47

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

**Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo; Sildos, Ilmo; Krunks, Malle** The Beilstein journal of nanotechnology 2014 / p. 2398-2402 : ill <https://doi.org/10.3762/bjnano.5.249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Lugeja küsib: miks kipuvad veetorud ära külmuma just ilma soojemaks minnes? [Võrguväljaanne]**

**Kalda, Jaan; Mere, Arvo** novaator.err.ee 2021 ["Lugeja küsib: miks kipuvad veetorud ära külmuma just ilma soojemaks minnes?"](#)

#### **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; Lõhmus, Rünno; Ashworth, T. V.; Mere, Arvo; Krustok, Jüri; Karppinen, Maarit; Stern, Raivo** Journal of physics D : applied physics 2013 / p. 1-8 : ill <https://doi.org/10.1088/0022-3727/46/17/175003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**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

#### **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, Tiia; 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](#)

#### **Microstructure evolution of TiC cermets with ferritic AISI 430L steel binder**

**Kolnes, Märt; Mere, Arvo; Kübarsepp, Jakob; Viljus, Mart; Maaten, Birgit; Tarraste, Marek** Powder metallurgy 2018 / p. 197-209 : ill <https://doi.org/10.1080/00325899.2018.1447268> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

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

**Ping, Kefeng; Alam, Mahboob; Kahnert, Sean Ray; Bhadoria, Rohit; Mere, Arvo; Mikli, Valdek;** Käär, 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](#)

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

**Dedova, Tatjana; Gromōko, Inga; Mikli, Valdek; Volobujeva, Olga;** Utt, Kathrin; 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

#### **Nanostructured solar cell based on spray pyrolysis deposited ZnO nanorod array**

**Krunks, Malle; Katerski, Atanas; Dedova, Tatjana; Oja Acik, Ilona; Mere, Arvo** Solar energy materials & solar cells 2008 / p. 1016-1019 : ill <https://www.sciencedirect.com/science/article/pii/S0927024808000871>

#### **Nanostructured solar cell by spray pyrolysis : effect of titania barrier layer on the cell performance**

**Oja Acik, Ilona; Katerski, Atanas; Mere, Arvo;** Aarik, Jaan; Aidla, Aleks; **Dedova, Tatjana; Krunks, Malle** Thin solid films 2009 / p. 2443-2447 : ill <https://doi.org/10.1016/j.tsf.2008.11.018>

#### **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://fntdk.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

#### **Observation of band gap fluctuations and carrier localization in Cu<sub>2</sub>CdGeSe<sub>4</sub>**

**Krustok, Jüri; Raadik, Taavi; Kaupmees, Reelika; Grossberg, Maarja; Kauk-Kuusik, Marit; Timmo, Kristi; Mere, Arvo** Journal of physics D : applied physics 2019 / art. 285102 , 7 p. : ill <https://doi.org/10.1088/1361-6463/ab1afd> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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](#)

#### **Optical properties of sprayed ZnO thin films**

**Unt, Tarmo; Kriisa, Merike; Mere, Arvo; Krunks, Malle** Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania 2013 / p. 482-489

#### **Optoelectronic properties of CdSe - CdTe solid solutions**

**Valdna, Vello; Mere, Arvo;** Voronin, A. MatTech '91 : The Second European East-West Symposium on Materials and Processes, May 26-30, 1991 : abstracts 1991 / p. 256

#### **Organic and carbon aerogels containing rare-earth metals : their properties and application as catalysts**

**Kreek, Kristiina; Kriis, Kadri; Maaten, Birgit; Uibu, Mai; Mere, Arvo; Kanger, Tõnis; Koel, Mihkel** Journal of non-crystalline solids 2014 / p. 43-48 : ill <https://doi.org/10.1016/j.jnoncrysol.2014.07.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Paneb imestama: kas koroonaviiruse vaktsiini sees on tõepoolest magnet?! : selgitav video**

forte.delfi.ee 2021 / video [Video](#)

**Phase composition of selenized Cu<sub>2</sub>ZnSnSe<sub>4</sub> thin films determined by X-ray diffraction and Raman spectroscopy**

Ganchev, Maxim; Iljina, Julia; Kaupmees, Liina; Raadik, Taavi; Volobujeva, Olga; Mere, Arvo; Altosaar, Mare; Raudoja, Jaan; Mellikov, Enn Thin solid films 2011 / p. 7394-7398 : ill

**Photocatalytic oxidation of VOCs AS individual air pollutants and in mixtures on the TiO<sub>2</sub> thin films**

Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 58 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**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

**Photoluminescence of Zn(SeTe) annealed phosphors**

Valdna, Vello; Krustok, Jüri; Mellikov, Enn; Mere, Arvo Abstracts of 17th Nordic Semiconductor Meeting, June 17-20, 1996, Trondheim, Norway 1996 / p. 70

**Photoluminescence of Zn(SeTe) annealed phosphors**

Valdna, Vello; Mellikov, Enn; Mere, Arvo Physica scripta 1997 / p. 312-314

**Pihustatud CuInS<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 referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 52

**Pihustuspürolüüsi meetodil sadestatud CuInS<sub>2</sub> kilede lähteainete terminine lagunemine**

Mere, Arvo; Oja Acik, Ilona; Otto, Kairi; Krunks, Malle; Tõnsuaadu, Kaia XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 46

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

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

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

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

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

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

**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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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://fntdk.ut.ee/teesid/>

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

Kreek, Kristiina; Kulp, Maria; Uibu, Mai; Mere, Arvo; Koel, Mihkel Oil shale 2014 / p. 185-194 : ill

[https://artiklid.elnet.ee/record=b2673721\\*est](https://artiklid.elnet.ee/record=b2673721*est) <https://doi.org/10.3176/oil.2014.2.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Preparation of shape and size-controlled zinc oxide nanostructures by chemical spray pyrolysis technique**

Dedova, Tatjana; Krunks, Malle; Mere, Arvo; Klauson, Jelena; Volobujeva, Olga Materials Research Society symposium proceedings 2007 / p. 0957-K10-26 [7 p.]

#### **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://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Properties of ZnO-nanorod/In<sub>2</sub>SI/CuInSI solar cell and the constituent layers deposited by chemical spray method = Keemilise pihustuse meetodil sadestatud ZnO-nanovarras/In<sub>2</sub>SI/CuInSI päikesepatarei ja selle koostisosade omadused**  
Kärber, Erki 2014 [https://www.ester.ee/record=b3073760\\*est](https://www.ester.ee/record=b3073760*est)

#### **Properties of TiO<sub>2</sub> films prepared by spray pyrolysis method**

Oja, Ilona; Mere, Arvo; Krunks, Malle; Solterbeck, Claus-Henning; Es-Souni, Mohammed E-MRS Fall Meeting. Symposim F 2003 / [1] p

#### **Properties of TiO<sub>2</sub> films prepared by the spray pyrolysis method**

Oja, Ilona; Mere, Arvo; Krunks, Malle; Solterbeck, C.-H.; Es-Souni, M. Solid state phenomena 2004 / p. 259-262 : ill

#### **Päikeseenergeetika materjalid**

Mellikov, Enn; Altosaar, Mare; Bereznev, Sergei; Kauk, Marit; Krunks, Malle; Krustok, Jüri; Mere, Arvo; Raudoja, Jaan; Varema, Tiit; Öpik, Andres Teaduse uued suunad : materjaliteadus : Eesti Teaduste Akadeemia seminari materjalid : 23.10.2003 2004 / lk. 11-21 : ill

#### **Päikeseenergeetika tulevikku kujundavad kilepinnad ja tandempaneelid**

Piir, Rait novaator.err.ee 2023 [Päikeseenergeetika tulevikku kujundavad kilepinnad ja tandempaneelid](#)

#### **Raman spectroscopic study of In<sub>2</sub>S<sub>3</sub> films prepared by spray pyrolysis**

Kärber, Erki; Otto, Kairi; Katerski, Atanas; Mere, Arvo; Krunks, Malle Materials science in semiconductor processing 2014 / p. 137-142 : ill <https://doi.org/10.1016/j.mssp.2013.10.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Rapid thermal processing of Kesterite thin films**

Ganchev, Maxim; Spasova, Stanka; Raadik, Taavi; Mere, Arvo; Altosaar, Mare; Mellikov, Enn Coatings 2023 / art. 1449 <https://doi.org/10.3390/coatings13081449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Room temperature ferromagnetism in Ca and Mg stabilized cubic zirconia bulk samples and their thin films**

Chandra Dimri, Mukesh; Khanduri, Himani; Kooskora, Helgi; Kodu, Margus; Jaaniso, Raivo; Heinmaa, Ivo; Mere, Arvo; Krustok, Jüri; Stern, Raivo 4th WUN International Conference on Spintronics (WUN-SPIN 2012) : 23-25 July 2012, Sydney, Australia 2012 <https://iopscience.iop.org/article/10.1088/0022-3727/45/47/475003>

#### **Room-temperature ferromagnetism in Ca and Mg stabilized cubic zirconia bulk samples and thin films prepared by pulsed laser deposition**

Chandra Dimri, Mukesh; Khanduri, Himani; Kooskora, Helgi; Kodu, Margus; Jaaniso, Raivo; Heinmaa, Ivo; Mere, Arvo; Krustok, Jüri; Stern, Raivo Journal of physics D : applied physics 2012 / p. 475003-1 - 475003-7 : ill <https://iopscience.iop.org/article/10.1088/0022-3727/45/47/475003>

#### **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>

#### **Sb<sub>2</sub>S<sub>3</sub> solar cells with TiO<sub>2</sub> electron transporting layers synthesized by ALD and USP methods**

Dedova, Tatjana; Krautmann, Robert; Rusu, Marin; Katerski, Atanas; Krunks, Malle; Unold, Thomas; Spalatu, Nicolae; Mere, Arvo; Sydorenko, Jekaterina; Sibinski, Maciej; Oja Acik, Ilona Solar energy materials and solar cells 2025 / art. 113279 <https://doi.org/10.1016/j.solmat.2024.113279>

#### **Sintering of high Mn cemented carbides in Mn-rich environment**

Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart; Mere, Arvo Defect and diffusion forum 2020 / p. 402-407 <https://doi.org/10.4028/www.scientific.net/DDF.405.402> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Solar cell on nanostructured ZnO by spray pyrolysis deposition**

**Katerski, Atanas; Dedova, Tatjana; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** 2-nd International Conference on surfaces, Coatings and Nanostructured Materials (NANOSMAT 2007) : 9-11 July 2007, Alvor, Algarve, Portugal : abstracts book 2007 / p. 256

#### **Solar cell structures based on sprayed CuInS<sub>2</sub> absorber layer**

**Mere, Arvo; Krunks, Malle; Kijatkina, Olga** Proceedings of the 20th Nordic Semiconductor Meeting : Optoelectronics Research Center, Tampere University of Technology, Tampere, Finland, August 25-27, 2003 2004

#### **Solar cell structures by non-vacuum techniques based on sprayed CuInS<sub>2</sub> absorber layers**

**Mere, Arvo; Katerski, M.; Kijatkina, Olga; Krunks, Malle** 19th European Photovoltaic Solar Energy Conference : 7-11 June 2004, Paris, France 2004 / p. 1973-1976 : ill

#### **Solution processed high-K oxides for application as gate dielectric layer in thin film transistor**

**Oluwabi, Abayomi Titilope; Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 67 : ill <http://fmttk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.p>

#### **Spray pyrolysis deposition of indium sulphide thin films**

**Otto, Kairi; Katerski, Atanas; Mere, Arvo; Volobujeva, Olga; Krunks, Malle** Thin solid films 2011 / p. 3055-3060 : ill

#### **Spray pyrolysis deposition of SnxSy thin films**

**Polivtseva, Svetlana; Oja Acik, Ilona; Katerski, Atanas; Mere, Arvo; Mikli, Valdek; Krunks, Malle** Energy procedia 2014 / p. 156-165 : ill <https://doi.org/10.1016/j.egypro.2014.12.358> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **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

#### **Spray-pyrolysis synthesised TiO<sub>2</sub> thin films for photocatalytic air treatment from volatile organic compounds**

**Sydorenko, Jekaterina; Krunks, Malle; Mere, Arvo; Krichevskaya, Marina; Oja Acik, Ilona** Proceedings 2023 / art. 37 <https://doi.org/10.3390/proceedings2023092037>

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

**Tõnsuaadu, Kaia; Kallaste, Toivo; Mikli, Valdek; Mere, Arvo; Nemliher, Jüri** 18th International Conference on Phosphorus Chemistry : July 11-15th, 2010, Wrocław, Poland : book of abstracts 2010 / p. 185

#### **Structural and electrical characterisation of high-k ZrO<sub>2</sub> thin films deposited by chemical spray pyrolysis method**

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

#### **Structural and electrical characterization of TiO<sub>2</sub> films grown by spray pyrolysis**

**Oja, Ilona; Mere, Arvo; Krunks, Malle; Nisumaa, Reet; Solterbeck, C.-H.; Es-Souni, M.** Thin solid films 2006 / p. 674-677 : ill <https://www.sciencedirect.com/science/article/pii/S0040609005025708>

#### **Structural and electrical properties of P-type NiO thin films deposited by spray pyrolysis**

**Vessart, R.; Unt, Tarmo; Mere, Arvo; Krunks, Malle** Proceedings of the 11th International Conference of Young Scientists on Energy Issues : CYSENI 2014 : May 29-30, 2014, Kaunas, Lithuania 2014 / p. VII-290-VII-297

#### **Structural and electrical properties of spray deposited copper indium disulphide films for solar cells =**

**Pihustussadestatud vaskindiumsulfiidkilede struktuursed ja elektrilised omadused ning rakendus päikesepatareides**  
**Mere, Arvo** 2006 [https://www.ester.ee/record=b2132571\\*est](https://www.ester.ee/record=b2132571*est)

#### **Structural and optical characterization of sprayed ZnS thin films**

**Dedova, Tatjana; Kijatkina, Olga; Mere, Arvo; Volobujeva, Olga; Krunks, Malle** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 38

#### **Structural and optical characterization of sprayed ZnS thin films**

**Dedova, Tatjana; Mere, Arvo; Krunks, Malle; Kijatkina, Olga; Oja, Ilona; Volobujeva, Olga** Proceedings of SPIE 2005 / Optical materials and applications, p. 34-40

#### **Structural changes in CBD CdS: effect of rapid thermal annealing**

**Hiie, Jaan; Quinci, Frederico; Lugh, Vanni; Maticiu, Natalia; Potlog, Tamara; Mere, Arvo; Valdna, Vello; Gavrilov, Aleksei** "Thin film chalcogenide photovoltaic materials" (Symposium M, EMRS 2010 Spring Meeting) : 7-11 June 2010, Strasbourg, France 2010

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

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

**Structural changes of starch during baking and staling of rye bread**

**Mihhalevski, Anna;** Heinmaa, Ivo; **Traksmaa, Rainer; Pehk, Tõnis; Mere, Arvo; Paalme, Toomas** Journal of agricultural and food chemistry 2012 / p. 8492-8500 : ill <https://pubs.acs.org/doi/10.1021/jf3021877>

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

Potlog, Tamara; Spalatu, Nicolae; Maticiu, Natalia; **Hiie, Jaan; Valdna, 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)

**Studies of doped LaMnO<sub>3</sub> samples prepared by citrate combustion process**

Chandra Dimri, Mukesh; Khanduri, Himani; **Mere, Arvo;** Stern, Raivo AIP conference proceedings 2018 / art. 130015, 4 p. : ill <https://doi.org/10.1063/1.5029085> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Study of zinc thiocarbamide chloride, a single-source precursor for zinc sulfide thin films by spray pyrolysis**

**Krunks, Malle;** Madarasz, Janos; Leskelä, T.; **Mere, Arvo;** Niinistö, L.; Pokol, György Journal of thermal analysis and calorimetry 2003 / 1/2, ESTAC 8 : proceedings of the 8th European Symposium on Thermal Analysis and Calorimetry : Barcelona, Spain, August 25-29, 2002. Volume 2. ISBN 963-05-8044-6. p. 497-506 : ill <https://link.springer.com/article/10.1023/A:1024561212883>

**Study of the properties of TiO<sub>2</sub> thin films deposited by ultrasonic spray pyrolysis [Online resource]**

**Chen, Z; Oja Acik, Ilona; DüNDAR, Ibrahim; Mere, Arvo** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmtdk.ut.ee/teesid-2019/>

**Study on the properties of TiO<sub>2</sub> thin films deposited by ultrasonic spray pyrolysis**

**Chen, Zengjun; Oja Acik, Ilona; DüNDAR, Ibrahim; Mere, Arvo** The 15th International Conference of Young Scientists on Energy Issues (CYSENI 2018) : 23-25 May 2018, Kaunas, Lithuania 2018 / p. X-416 - X-423 : ill [http://cyseni.com/archives/proceedings/Proceedings\\_of\\_CYSENI\\_2018.pdf](http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2018.pdf)

**Surface analysis of spray deposited copper indium disulfide films**

**Katerski, Atanas; Mere, Arvo;** Kazlauskienė, Vida; Miskinis, Juozas; Saar, Agu; Matisen, Leonard; Kikas, Arvo; **Krunks, Malle** Thin solid films 2008 / p. 7110-7115 : ill

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

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

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

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

**Synthesis and electrical properties of potassium substituted hydrosodalites**

**Mere, Arvo;** Hyvonen, D.; Heinmaa, I.; **Ruus, Tõnu** Proceedings of SPIE 2001 / p. 303-306

**Synthesis control of charge separation at anatase TiO<sub>2</sub> thin films studied by transient surface photovoltage spectroscopy**

Dittrich, Thomas; **Sydorenko, Jekaterina; Spalatu, Nicolae;** Nickel, Norbert H.; **Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** ACS applied materials & interfaces 2022 / p. 43163-43170 <https://doi.org/10.1021/acsami.2c09032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Zinc oxide nanorods grown by spray pyrolysis**

**Krunks, Malle; Dedova, Tatjana; Mere, Arvo;** Aparina, Jelena; **Grossberg, Maarja** The 4th International Workshop on ZnO and Related Materials : University of Gissen, Germany, Oct.3-6, 2006 2006 / p. 170

**Zinc oxide nanostructured layers by chemical spray pyrolysis**

**Dedova, Tatjana;** Aparina, Jelena; **Mere, Arvo; Volobujeva, Olga; Grossberg, Maarja; Krunks, Malle** International Conference : Advances in Nanostructured Materials, Processing - Microstructure - Properties : NANOVED 2006 - NENAMAT : May 14-17, 2006, Stara Lesna, Slovak Republic : book of abstracts 2006 / p. 105

**Zinc oxide rods on different TCO substrates and seed layers by electrochemical deposition**

**Gromöko, 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

**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; Krunk, Malle**  
Applied surface science 2016 / p. 539-545 : ill <https://doi.org/10.1016/j.apsusc.2016.06.093> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

**(ZnCd)S and Zn(SeTe) downconverting phosphors**

**Valdna, Vello; Hiie, Jaan; Mellikov, Enn; Mere, Arvo** Abstracts of 17th Nordic Semiconductor Meeting, June 17-20, 1996, Trondheim, Norway 1996 / p. 69

**(ZnCd)S, (ZnCd)Se and Zn(Se, Te) downconverting phosphors**

**Valdna, Vello; Hiie, Jaan; Mellikov, Enn; Mere, Arvo** Physica scripta 1997 / p. 319

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

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

**ZnO nanorods via spray deposition of solutions containing zinc chloride and thiocarbamide**

**Dedova, Tatjana; Volobujeva, Olga; Klauson, Jelena; Mere, Arvo; Krunk, Malle** Nanoscale research letters 2007 / p. 391-396 : ill <https://link.springer.com/article/10.1007/s11671-007-9072-6>

**ZnO nanostructures by chemical spray for next generation solar cells**

**Krunk, 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

**ZnSe<sub>1-x</sub>Te<sub>x</sub> solid solutions**

**Valdna, Vello; Hiie, Jaan; Kallavus, Urve; Mere, Arvo; Piibe, Toomas** Journal of crystal growth 1996 / p. 177-180: ill

**TalTechi tudengid andsid hoogu Solaride'i teisele päikeseautole**

Mossin, Eneli Studioosus 2024 / lk. 18-19 : fot [https://www.ester.ee/record=b1558644\\*est](https://www.ester.ee/record=b1558644*est)

**Tehniline kõrgharidus Eestis 25 aastat hiljem [Võrguväljaanne]**

**Mere, Arvo; Viies, Vladimir** opleht.ee 2022 ["Tehniline kõrgharidus Eestis 25 aastat hiljem"](#)

**The effect of growth temperature and spraying rate on the properties of ZnO:In films**

**Kriisa, Merike; Kärber, Erki; Unt, Tarmo; Mere, Arvo; Krunk, Malle** Physica status solidi (c) 2012 / p. 1604-1606 : ill <https://onlinelibrary.wiley.com/doi/pdf/10.1002/pssc.201200008>

**Thermal behaviour of precursors for CuInS<sub>2</sub> thin films deposited by spray pyrolysis**

**Oja Acik, Ilona; Otto, Kairi; Krunk, Malle; Tõnsuaadu, Kaia; Mere, Arvo** Journal of thermal analysis and calorimetry 2013 / p. 1455-1465 : ill <https://doi.org/10.1007/s10973-013-3155-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

**Thermoanalytical study of precursors for In<sub>2</sub>S<sub>3</sub> thin films deposited by spray pyrolysis**

**Otto, Kairi; Oja Acik, Ilona; Tõnsuaadu, Kaia; Mere, Arvo; Krunk, Malle** Journal of thermal analysis and calorimetry 2011 / p. 615-623 : ill

**Thermoanalytical study of precursors for SnS thin films deposited by chemical spray pyrolysis method**

**Polivtseva, Svetlana; Oja Acik, Ilona; Tõnsuaadu, Kaia; Mere, Arvo; Krunk, Malle** ESTAC-11 : the 11th European Symposium on Thermal Analysis and Calorimetry : Dipoli Congress Center, Espoo, Finland, August 17-21, 2014 : abstracts 2014 / p. 86

**Thermoanalytical study of precursors for tin sulfide thin films deposited by chemical spray pyrolysis**

**Polivtseva, Svetlana; Oja Acik, Ilona; Krunk, Malle; Tõnsuaadu, Kaia; Mere, Arvo** Journal of thermal analysis and calorimetry 2015 / p. 177-185 : ill <https://doi.org/10.1007/s10973-015-4580-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Thermoanalytical study of zinc thiocarbamide chloride**

**Krunk, Malle; Madarasz, Janos; Leskelä, T.; Mere, Arvo; Niinistö, L.; Pokol, György** ESTAC 8 : 8th European Symposium on Thermal Analysis and Calorimetry, Barcelona, Spain, August 25-29, 2002 : abstracts book 2002 / p. 42

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

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

**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 <https://doi.org/10.1002/pssc.201510098> Journal metrics at Scopus Article at Scopus Article at WOS

**TiO<sub>2</sub> thin films by ultrasonic spray pyrolysis**

**Chen, Zengjun; Dündar, Ibrahim; Oja Acik, Ilona; Mere, Arvo** IOP conference series : materials science and engineering 2019 / art. 012006, 7 p. : ill <https://doi.org/10.1088/1757-899X/503/1/012006> Conference proceedings at Scopus Article at Scopus Article at WOS

**Transparent TiO<sub>2</sub> thin films with high photocatalytic activity for indoor air purification**

**Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Krichevskaya, Marina; Oja Acik, Ilona** RSC advances 2022 / p. 35531-35542 <https://doi.org/10.1039/D2RA06488J> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Tseoliitide ioonse juhtivuse uurimine : väitekirj ... loodusteaduste magistri kraadi taotlemiseks tehnilise füüsika erialal**

**Mere, Arvo** 1996 [https://www.ester.ee/record=b2680784\\*est](https://www.ester.ee/record=b2680784*est)

**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

**Ultrafine cemented carbides with cobalt and iron binders prepared via reactive in situ sintering**

**Tarraste, Marek; Kübarsepp, Jakob; Mere, Arvo; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart** Solid state phenomena ; 320 2021 / p. 176-180 <https://doi.org/10.4028/www.scientific.net/SSP.320.176> Conference Proceedings at Scopus Article at Scopus

**Uniform Sb<sub>2</sub>S<sub>3</sub> optical coatings by chemical spray method**

**Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Beilstein journal of nanotechnology 2019 / p. 198-210 : ill <https://doi.org/10.3762/bjnano.10.18> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Uniform Sb<sub>2</sub>S<sub>3</sub> optical coatings by chemical spray method : [conference paper]**

**Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmtdk.ut.ee/teesid-2019/>

**Valmistume füüsika riigieksamiks 2002**

**Mere, Arvo** Õpetajate Leht 2002 / 15. märts, Füüsika, lk. 1 : ill <https://dea.digar.ee/cgi-bin/dea?a=d&d=opetajateleht20020315.1.9&e=-----et-25--1--txt-txIN%7ctxTI%7ctxAU%7ctxTA----->

**Влияние механических напряжений на поверхностную и объемную проводимости некоторых диэлектриков**

**Bender, Villem; Veimer, Vladimir; Mere, Arvo; Roninson, Aleksander; Silas, Aarne** Электрофизические свойства полупроводниковых и диэлектрических материалов 1986 / с. 65-72

**Влияние статических и динамических деформаций на электроизоляционные свойства резин**

**Bender, Villem; Veimer, Vladimir; Mere, Arvo** Электрофизические свойства полупроводниковых и диэлектрических материалов 1988 / с. 100-108

**Ионные процессы в каркасных алюмосиликатах**

**Denks, Viktor; Mere, Arvo; Ruus, Tõnu** Электрофизические свойства полупроводниковых и диэлектрических материалов 1983 / с. 35-51 : ил [https://www.ester.ee/record=b1291687\\*est](https://www.ester.ee/record=b1291687*est) <https://digikogu.taltech.ee/et/Item/9447de85-407e-426e-843d-2f0c98097f4e>

**К выбору конструкции фоточувствительных р-п переходов на основе антимонида индия**

**Gavrilov, Aleksei; Danilov, J.V.; Katšurin, G.A.; Mere, Arvo** Физическая химия соединений АИВVI 1981 / с. 105-112 : илл [https://www.ester.ee/record=b1533413\\*est](https://www.ester.ee/record=b1533413*est) <https://digikogu.taltech.ee/et/Item/dceb76ed-f60b-4ce9-b87e-618a41d25bb8>

**Методы исследования исходных полупроводниковых материалов и эпитаксиальных структур**

**Mere, Arvo; Paat, Aadu; Rusalep, Ervin; Uder, Ülo-Olimar** Применение эпитаксиальной технологии в производстве силовых полупроводниковых приборов : сборник материалов Всесоюзного научно-технического семинара. Часть 2 1978 / с. 173-180 [https://www.ester.ee/record=b1273255\\*est](https://www.ester.ee/record=b1273255*est)

**Полупроводниковые материалы**

**Rusalep, Ervin; Kukk, Peeter-Enn; Krustok, Jüri; Mädasson, Jaan; Altosaar, Mare; Ruus, Tõnu; Aarna, Heiti; Mankin, Romi; Reiter, Eerik; Krunks, Malle; Mellikov, Enn; Seilenthal, Mats; Vallaste, Heikki; Tuvike, Tiit; Palmre, Õie; Bender, Villem; Veimer, Vladimir; Mere, Arvo; Roninson, Aleksander; Silas, Aarne; Gavrilov, Aleksei; Paat, Aadu; Meiler, Boriss** 1986 [https://www.ester.ee/record=b1296001\\*est](https://www.ester.ee/record=b1296001*est)

#### **Полупроводниковые материалы**

**Reiter, Eerik; Meiler, Boriss; Krustok, Jüri; Piibe, Toomas; Mädasson, Jaan; Altosaar, Mare; Tomson, A.; Kukk, Peeter-Enn; Tuvike, Tiit; Palmre, Õie; Vallaste, Heikki; Päid, Imbi; Kuusmets, Eela; Petrov, P.; Mellikov, Enn; Erm, Ants; Krunks, Malle; Gavrilov, Aleksei; Košelap, Andrei; Bender, Vladimir; Mere, Arvo; Veimer, Vladimir; Kurik, Lembit; Sinivee, Veljo** 1988  
[https://www.ester.ee/record=b1220756\\*est](https://www.ester.ee/record=b1220756*est)

#### **Термостимулированная деполяризация содалитовой керамики**

**Mere, Arvo; Reiter, Eerik; Ruus, Tõnu** Tallinna Tehnikaülikooli Toimetised 1990 / lk. 40-52: ill

#### **Установка для измерения диэлектрических потерь порошковых материалов в широком интервале температур (80-600 K) и в условиях высокого вакуума**

**Mere, Arvo** Электрофизические свойства полупроводниковых и диэлектрических материалов 1983 / с. 53-56 : ил  
[https://www.ester.ee/record=b1291687\\*est](https://www.ester.ee/record=b1291687*est) <https://digikogu.taltech.ee/et/Item/9447de85-407e-426e-843d-2f0c98097f4e>

#### **Устройство для создания знакопеременных механических напряжений в образцах диэлектрических материалов**

**Ždanovič, V. V.; Ivannikov, V. R.; Roninson, Aleksander; Mere, Arvo** XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том I, Общественные науки. Физико-математические науки. Строительство. Экономика 1986 / с. 50  
[https://www.ester.ee/record=b1305540\\*est](https://www.ester.ee/record=b1305540*est)

#### **Формирование Р-слоев при внедрении ионов магния в InSb**

**Gavrilov, Aleksei; Danilov, J.V.; Katšurin, G.A.; Mere, Arvo** Электронная техника. Серия 2, Полупроводниковые приборы : научно-технический сборник 1980 / с. 108-112 [https://www.ester.ee/record=b2160501\\*est](https://www.ester.ee/record=b2160501*est)

#### **Фотоэлектрические свойства твердых растворов селенотеллуридов кадмия**

**Valdna, Vello; Voronin, A.I.; Mere, Arvo** Tallinna Tehnikaülikooli Toimetised 1990 / lk. 30-39: ill