

### All-solution processed transparent front contact for monograin layer kesterite solar cells

Edinger, Stefan; Bansal, Neha; Wibowo, Adhi Rachmat; Winkler, Nina; Ilich, Peter; Zechmeister, Armin; Plessing, Lukas; **Meissner, Dieter** Progress in photovoltaics : research and applications 2019 / p. 547-555 <https://doi.org/10.1002/pip.3122> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Amorphous Zn(O,Se) buffer layer for Cu(In,Ga)Se<sub>2</sub> thin film solar cells

**Abdalla, Akram; Danilson, Mati; Oueslati, Souhaib; Pilvet, Maris; Bereznev, Sergei** Materials science in semiconductor processing 2021 / art. 105862 <https://doi.org/10.1016/j.mssp.2021.105862> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Annealing of frozen-in defects in ZnO

**Nirk, Tiit; Lott, Kalju;** Seeman, Viktor; **Türn, Leo; Viljus, Mart; Öpik, Andres** Physica status solidi (c) 2016 / p. 590-593 : ill <https://doi.org/10.1002/pssc.201510244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### Antibacterial and antiviral effects of Ag, Cu and Zn metals, respective nanoparticles and filter materials thereof against coronavirus SARS-CoV-2 and influenza A virus

Kubo, Anna-Liisa; Rausalu, Kai; Savest, Natalja; Žusinaite, Eva; **Vasiliev, Grigory; Viirsalu, Mihkel; Plamus, Tiia; Krumme, Andres;** Merits, Andres; Bondarenko, Olesja Pharmaceutics 2022 / art. 2549 : 19 p. : ill <https://doi.org/10.3390/pharmaceutics14122549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Atomic absorption photometry of excess Zn in ZnO

**Lott, Kalju; Šinkarenko, Svetlana;** Kirsanova, T.; **Türn, Leo;** Gorohova, E.; Grebennik, A.; Vishnjakov, A. E-MRS Fall Meeting 2004. Symposium F 2004 / [1] p

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

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

### 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>

### 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](#)

### Copper–zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method

Montero, Jose; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana; Oja Acik, Ilona;** Österlund, Lars RSC advances 2021 / p. 10224–10234 <https://doi.org/10.1039/d1ra00691f> [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; 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

### Development and study of ZnO: In optical scintillation ceramic

Gorokhova, Elena; Eroniko, S.B.; Kulkov, A.M.; Oreshchenko, E.A.; Simonova, K.L.; Chernenko, K.A.; Venevtsev, I.D.; Rodnyi, P.A.; **Lott, Kalju;** Wiczorek, H. Journal of optical technology 2015 / p. 837-842 : ill <https://doi.org/10.1364/JOT.82.000837> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Development of ZnO nanorod and NiO thin film based materials for photocatalytic applications = ZnO nanovarrastel ja NiO õhukestel kiledel baseeruvate fotokatalüütiliste materjalide arendus

**Chen, Zengjun** 2022 <https://doi.org/10.23658/taltech.67/2022> <https://digikogu.taltech.ee/et/Item/838942f1-9577-4109-b783-8c2b5ce8def3> [https://www.ester.ee/record=b5526162\\*est](https://www.ester.ee/record=b5526162*est)

### 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>

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

## network

**Gromöko, 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](#)

## Enhanced photocatalytic activity of ZnO nanorods by surface treatment with H<sub>2</sub>AuCl<sub>4</sub> : synergic effects through an electron scavenging, plasmon resonance and surface hydroxylation

**Dedova, Tatjana; Oja Acik, Ilona; Chen, Zengjun; Katerski, Atanas; Balmassov, Kirill; Gromöko, Inga;** Nagyne-Kovacs, T.; Szilagyi, I.M.; **Krunks, Malle** Materials chemistry and physics 2020 / art. 122767 <https://doi.org/10.1016/j.matchemphys.2020.122767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Erratum: Copper-zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method (RSC Advances (2021) 11 (10224–10234) DOI: 10.1039/D1RA00691F)

Montero, José; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana; Oja Acik, Ilona;** Österlund, Lars RSC Advances 2021 / p. 13635 <https://doi.org/10.1039/d1ra90096j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Excess Zn in ZnO

**Lott, Kalju; Šinkarenko, Svetlana;** Kirsanova, T.; **Türn, Leo;** Gorohova, E.; Grebennik, A.; Vishnjakov, A. International Conference on Photoresponsive Materials : Port Elizabeth, South Africa, 2004 : book of abstracts 2004 [https://www.researchgate.net/publication/230459966\\_Excess\\_Zn\\_in\\_ZnO](https://www.researchgate.net/publication/230459966_Excess_Zn_in_ZnO)

## Excess Zn in ZnO

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

## Formation and properties of chemically sprayed ZnO films

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## Formation and properties of chemically sprayed ZnO films

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

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

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**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

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

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### **The influence of synthesis parameters and thermal treatment on the optical and structural properties of zinc oxide-based nanomaterials**

**Paltusheva, Zhaniya; Kedruk, Yevgeniya; Gritsenko, Lesya; Tulegenova, Madina; Sõritski, Vitali; Abdullin, Khabibulla** Physical sciences and technology 2024 / Lk. 49-57 <https://doi.org/10.26577/phst2024v11i1a6> [Journal metrics at Journal](#) [Article at Scopus](#)

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### **Mikroobivastaste pindade katsetused jäävad ohtlikult eluvõraks [Võrguväljaanne]**

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

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