

**An alternative chlorine-assisted optimization of CdS/Sb<sub>2</sub>Se<sub>3</sub> solar cells : towards understanding of chlorine incorporation mechanism**

Gopi, Sajeesh Vadakkedath; Spalatu, Nicolae; Katerski, Atanas; Kulicek, Jaroslav; Razek, Bohuslav; Ukraintsev, Egor; Barinkova, Marketa Šlapal; Zoppi, Guillaume; Krunks, Malle; Oja Acik, Ilona Journal of alloys and compounds 2024 / art. 176175 <https://doi.org/10.1016/j.jallcom.2024.176175> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Anisotroopsetel õhukesekilelistel absorbermaterjalidel põhinevad päikesepatareid : disain ja säästlike tehnoloogiate arendus**

Oja Acik, Ilona; Krunks, Malle; Spalatu, Nicolae; Katerski, Atanas Eesti Vabariigi preemiad 2025 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2025 / p. 56-75 <https://doi.org/10.3176/evp.2025.05>

**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

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

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**Chemical composition of sprayed copper indium disulfide films for nanostructured solar cells = Pihustatud vaskindiumdisulfiid-kilede keemiline koostis ja rakendus nanostruktuursetes päikesepatareides**

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

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

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**Cost-effective fluorene and thiophene containing hole conductors towards semi-transparent Sb<sub>2</sub>S<sub>3</sub> absorber-based solar cells**

Mandati, Sreekanth; Juneja, Nimish; Katerski, Atanas; Jegorove, Aiste; Daskeviciute-Geguziene, Sarune; Grzibovskis, Raitis; Vembris, Aivars; Spalatu, Nicolae; Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; Krunks, Malle; Oja Acik, Ilona WCPEC-8 : 8th World Conference on Photovoltaic Energy Conversion 2022 / p. 470-473 <https://doi.org/10.4229/WCPEC-82022-2BV.2.70>

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#### **Development of spray pyrolysis-synthesised Bi<sub>2</sub>O<sub>3</sub> thin films for photocatalytic applications**

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**Juneja, Nimish; Jegorove, Aiste; Grzibovskis, Raitis; Katerski, Atanas; Malinauskas, Tadas; Vembris, Aivars; Karazhanov, Smagul; Spalatu, Nicolae; Getautis, Vytautas; Krunks, Malle; Oja Acik, Ilona** Sustainable Energy & Fuels 2024 / p. 4324-4334 <https://doi.org/10.1039/D4SE00472H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Juneja, Nimish**; Daskeviciute-Geguziene, Sarune; **Spalatu, Nicolae**; **Mandati, Sreekanth**; **Katerski, Atanas**; Grzibovskis, Raitis; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Materials science in semiconductor processing 2024 / art. 107934 <https://doi.org/10.1016/j.mssp.2023.107934> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Mandati, Sreekanth**; **Juneja, Nimish**; **Katerski, Atanas**; Jegorove, Aiste; Grzibovskis, Raitis; Vembris, Aivars; **Dedova, Tatjana**; **Spalatu, Nicolae**; Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** ACS Applied Energy Materials 2023 / p. 3822–3833 <https://doi.org/10.1021/acsaeam.2c04097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Influence of sulfur source on growth of in-air sprayed ultrathin film Sb<sub>2</sub>S<sub>3</sub> for enhanced solar cell performance**

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**Optimization of the Sb<sub>2</sub>S<sub>3</sub> shell thickness in ZnO nanowire-based extremely thin absorber solar cells**

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