

Band gap engineering by cationic substitution in $\text{Sn}(\text{Zr}_{1-x}\text{Ti}_x)\text{Se}_3$ alloy for bottom sub-cell application in solar cells

Kondrotas, Rokas; Pakštas, Vidas; Franckevičius, Marius; Suchodolskis, Arturas; Tumenas, Saulius; Jasinskas, Vidmantas; Juskenas, Remigijus; Krotkus, Arunas; **Muska, Katri; Kauk-Kuusik, Marit** Journal of materials chemistry A 2023 / p. 26488–26498 : ill <https://doi.org/10.1039/D3TA05550G> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comprehensive study of photoluminescence and device properties in $\text{Cu}_2\text{Zn}(\text{Sn}_{1-x}\text{Ge}_x)\text{S}_4$ monograins and monograin layer solar cells

Mengü, Idil; Muska, Katri; Pilvet, Maris; Mikli, Valdek; Dudutiene, Evelina; Kondrotas, Rokas; **Krustok, Jüri; Kauk-Kuusik, Marit; Grossberg-Kuusk, Maarja** Solar energy materials and solar cells 2024 / art. 113124 <https://doi.org/10.1016/j.solmat.2024.113124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Identification of excitons and biexcitons in Sb_2Se_3 under high photoluminescence excitation density

Krustok, Jüri; Kondrotas, Rokas; Nedzinskas, Ramunas; **Timmo, Kristi; Kaupmees, Reelika; Mikli, Valdek; Grossberg, Maarja** Advanced optical materials 2021 / 8 p. : ill <https://doi.org/10.1002/adom.202100107> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low processing temperatures explored in Sb_2S_3 solar cells by close-spaced sublimation and analysis of bulk and interface related defects

Krautmann, Robert; Spalatu, Nicolae; Josepson, Raavo; Nedzinskas, Ramunas; Kondrotas, Rokas; Gržibovskis, R.; Vembris, Aivars; **Krunks, Malle; Oja Acik, Ilona** Solar energy materials and solar cells 2023 / art. 112139, 9 p. : ill <https://doi.org/10.1016/j.solmat.2022.112139> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photoreflectance and photoluminescence study of antimony selenide crystals

Kondrotas, Rokas; Nedzinskas, Ramunas; **Krustok, Jüri; Grossberg-Kuusk, Maarja;** Talaikis, Martynas; Tumenas, Saulius; Suchodolskis, Arturas; Žaltauskas, Raimundas; Sereika, Raimundas ACS Applied Energy Materials 2022 / p. 14769-14778 <https://doi.org/10.1021/acsaem.2c02131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at Scopus](#)

Radiative recombination model for BiSeI microcrystals : unveiling deep defects through photoluminescence

Dolcet Sadurni, Marc; Krustok, Jüri; Timmo, Kristi; Mikli, Valdek; Kondrotas, Rokas; **Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit** Journal of Physics Energy 2024 / art. 045004 <https://doi.org/10.1088/2515-7655/ad8377> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Study of the optical properties of $\text{Sb}_2(\text{Se}_{1-x}\text{S}_x)_3$ ($x = 0-1$) solid solutions

Uslu, Mehmet Ender; Kondrotas, Rokas; Nedzinskas, Ramunas; **Volobujeva, Olga; Timmo, Kristi; Kauk-Kuusik, Marit; Krustok, Jüri; Grossberg, Maarja** Materials science in semiconductor processing 2022 / art. 106571 <https://doi.org/10.1016/j.mssp.2022.106571> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and characterization of polycrystalline GeS thin films for optoelectronic applications

Drabavičius, Audrius; Pakštas, Vidas; Jasiūnas, Rokas; **Koltsov, Mykhailo;** Talaikis, Martynas; Naujokaitis, Arnas; **Spalatu, Nicolae;** Kondrotas, Rokas; Gulbinas, Vidmantas; Franckevičius, Marius Materials Science in Semiconductor Processing 2025 / art. 109193 <https://doi.org/10.1016/j.mssp.2024.109193>

Synthesis and physical characteristics of narrow bandgap chalcogenide SnZrSe_3 : [version 2; peer review: 2 approved]

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