

#### **Bulk and interface recombination in TiO<sub>2</sub>/Sb<sub>2</sub>Se<sub>3</sub> solar cells**

**Krautmann, Robert; Josepson, Raavo; Spalatu, Nicolae; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 28 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Comparative study of thin films prepared by different curing methods of perhydropolysilazane**

**Shmagina, Elizaveta; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / art. 54 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Densification of the eggshell powder by spark plasma sintering**

**Shukla, Riddhi Hirenkumar; Rathinavelu, Sokkalingam; Kollo, Lauri; Prashanth, Konda Gokuldoss** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 56 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Design of performance characteristics on laser treated denim fabric : [conference paper]**

**Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 36 : ill [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Development of antimony sulfide thin-film solar cells for semitransparent applications**

**Beglyryan, Robert; Katerski, Atanas; Oja Acik, Ilona; Krunks, Malle** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 9 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Development of band gap tuned CU<sub>2</sub>ZN(SN<sub>1</sub>–XGEX)S<sub>4</sub> monograin powders**

**Mengü, Idil; Grossberg-Kuusk, Maarja; Muska, Katri; Pilvet, Maris; Mikli, Valdek; Kaupmees, Reelika; Krustok, Jüri; Kauk-Kuusik, Marit** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 39 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Development of Bi<sub>2</sub>S<sub>3</sub> thin-film solar cells by close-spaced sublimation**

**Koltsov, Mykhailo; Krautmann, Robert; Gopi, Sajeesh Vadakkedath; Hiie, Jaan; Krunks, Malle; Oja Acik, Ilona; Spalatu, Nicolae** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 25 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Development of ZNO nanorods and NIO film based photocatalysts by solution methods for degradation of dyes in aqueous solution**

**Chen, Zengjun; Dedova, Tatjana; Krunks, Malle** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 13 p [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Electrochemical merits of selective laser melted Mo/MoS<sub>2</sub> composite in aqueous solutions**

**Alinejadian, Navid; Kazemi, Sayed Habib; Kollo, Lauri; Grossberg-Kuusk, Maarja; Odnevall, Inger Charlotta; Prashanth, Konda Gokuldoss** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 7 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **EMI-transparent SB<sub>2</sub>S<sub>3</sub> solar cells with fluorene-based enamine as hole transport material**

**Juneja, Nimish; Mandati, Sreekanth; Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Getautis, Vytautas; Krunks, Malle; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 21 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Experimental damage mechanics of cotton wastes**

**Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim; Gonjandin, Dmitri; Viljus, Mart** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 19 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Free vibration analysis of uniform and tapered timoshenko beam by higher-order haar wavelet method**

**Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 38 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Hydroxamic acids as potential antidotes for op poisoning**

**Bondar, Denys; Karpichev, Yevgen** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 10 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Influence of vapour transport deposition conditions on properties of SB<sub>2</sub>SE<sub>3</sub> thin film absorber and solar cells**

**Gopi, Sajeesh Vadakkedath; Spalatu, Nicolae; Katerski, Atanas; Krunks, Malle; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 18 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Microstructural investigation of ni-based high temperature self-lubricating laser claddings containing sulfides of nickel, copper or bismuth**

**Kumar, Rahul, 1993-**; Torres, Hector; Rodríguez Ripoll, Manel; **Antonov, Maksim; Hussainova, Irina** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 31 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Multifractal defects versus non-defects in surface analysis**

Martsepp, Merike; Laas, Tõnu; Tõkke, Siim; **Mikli, Valdek** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 37 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**New antimicrobial CU(II)-polytungstate/polylactic acid films**

**Duvanova, Ella; Krasnou, Illia;** Knyzhnyk, Ivan; Radio, Serhii V.; **Karpichev, Yevgen** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 15 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Performance of TiO<sub>2</sub>:SM3+ based optical sensor embedded in cavitated polymer films**

Tikk, Taavi; Lange, Sven; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 62 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Performance of UiO-66-NH<sub>2</sub> on oxidation of debenzothiophene from a model fuel : optimization using response surface methodology**

Barghi, Bijan; Niidu, Allan; Raag, Anastassia; Jürisoo, Martin; Volokhova, Maria; **Mikli, Valdek** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 8 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Persulfate contribution to photolytic and pulsed corona discharge oxidation of metformin and tramadol in water : [conference paper]**

**Nikitin, Dmitri;** Kaur, Balpreet; **Preis, Sergei; Dulova, Niina** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 44 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**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 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Platinum-free oxygen electrocatalysts and alkaline fuel cell cathodes fabricated from peat**

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Härmas, Meelis; Adamso, Anu; **Volobujeva, Olga;** Aruväli, Jaan; Palm, Rasmus; Lust, Enn Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 61 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Study of Cu<sub>2</sub>Ge(S,Se)<sub>3</sub> and Cu<sub>2</sub>CDGe(S,Se)<sub>4</sub> monograin powders for photovoltaic applications**

**Li, Xiaofeng; Timmo, Kristi; Kauk-Kuusik, Marit** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 32 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Study of thermal properties of synthetic resins based on oil shale alkylresorcinols**

**Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 22 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Synthesis and characterization of pyrite FeS<sub>2</sub> solar cell absorber crystals and modifying their surface**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 29 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Synthesis and characterization of tetrahedrite absorber materials for photovoltaic application**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 17 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**The development of a polymer synthetic receptor for class-selective detection of macrolide antibiotics**

**Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 42 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Utilisation of industrial alkaline solid residues to produce cement-free building materials**

**Usta, Mustafa Cem** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 66 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)