

**Analysis of grain orientation and defects in Sb<sub>2</sub>Se<sub>3</sub> solar cells fabricated by close-spaced sublimation**  
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**Anion binding of biotinuril derivatives enhanced by silver cation**  
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**Application of cobalt-containing metal-organic framework as crystalline sponge**  
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**Asymmetric organocatalytic [2,3]-Wittig rearrangement of cyclohexanone derivatives**  
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**Characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten CD<sub>12</sub> and LiI : [conference paper]**  
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**Chiral Hemicucurbit[N]Urils, their synthesis, post functionalization and application**  
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**Comparative study of siox layers deposition using thermal and uv-assisted curing of perhydropolysilazane**  
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**Design of new phosphorylated amphiphilic calix[4]arenes**  
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**Development of mechanochemical c–n bond forming reactions**  
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**Effect of process parameters on strength and carbonation of engineered building materials by calcium rich alkali wastes**  
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**Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge treatment**  
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**Elements distribution between solid and liquid phases in hydrochloric acid treatment of phosphate ore**  
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**Enantioselective organocatalytic synthesis of n-alkylated indoles**  
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**Gas-phase photocatalytic oxidation of VOCs on the TiO<sub>2</sub> thin films**  
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**Heteroatom-doped nanocarbons derived from black liquor as the oxygen reduction reaction catalysts**  
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**HPLC-MS as a tool for screening mechanochemical synthesis of macrocycles**

**Shalima, Tatsiana; Dalidovich, Tatsiana; Suut, Elina; Kananovich, Dzmitry; Aav, Riina** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 26 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Influence of unpacking temperature on tensile strength of PA12 parts manufactured by SLS**

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**Kinetic modeling of catalyst deactivation for light gas catalytic cracking in the presence of steam**

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**Mechanochemical conversion of 1,2,3-trichloropropane into homoallylic alcohols**

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**Microstructure and mechanical properties of HEA alloys fabricated by selective laser melting of powder mixtures**

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**Nanodiamonds as a platform for biomedical application**

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**New carbon-based catalyst synthesis from spent li-ion batteries for electrochemical oxygen reduction**

**Kazemi, Maryam; Liivand, Kerli; Kruusenberg, Ivar; Walke, Peter; Mikli, Valdek; Uibu, Mai; Macdonald, Digby D.** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 42 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**The optoelectronic properties of Sb<sub>2</sub>(Se<sub>1-x</sub>, S<sub>x</sub>)<sub>3</sub> (x= 0 - 1) solid solutions**

**Ender, Mehmet; Volobujeva, Olga; Timmo, Kristi; Grossberg, Maarja** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 4 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Ortho-selective electrophilic substitution/addition to phenolates**

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**Oxidation of aqueous corticosteroid dexamethasone with pulsed corona discharge**

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**Oxidation of bisphenol a by pulsed corona discharge : impacts of plasma-liquid contact surface and a surfactant radical scavenger**

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**Pulsed laser deposition of Zn(O,Se) layers for optoelectronic applications**

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**Structural consideration of kukersite from air oxidation**

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**Structure, characteristics and impact of treatment on durability of denim fabric containing elastomeric fibre**

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**Synthesis of platinum modified nanocarbon catalysts for fuel cell application**

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**Temperature and thickness effect of Nio layer on photocatalytic activity of Nio/Zno heterostructure by ultrasonic spray method**

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**Utilization of Estonian cultivated hemp fibre (a byproduct of cannabidiol production), as a reinforcing material for bio-based thermoplastic composite**

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**WC tribology for circular economy of manufacturing textile industries**

**Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim; Goljandin, Dmitri; Viljus, Mart** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 33 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)