

### **Abrasive impact wear and surface fatigue wear behaviour of Fe–Cr–C PTA overlays**

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### **Abrasive-erosive wear of thermally sprayed coatings from experimental and commercial Cr<sub>3</sub>C<sub>2</sub>-based powders**

**Sarjas, Heikki; Surženkov, Andrei; Juhani, Kristjan; Antonov, Maksim; Adoberg, Eron; Kulu, Priit; Viljus, Mart; Traksmaa, Rainer; Matikainen, Ville; Vuoristo, Petri** Journal of thermal spray technology 2017 / p. 2020-2029 : ill <https://doi.org/10.1007/s11666-017-0638-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Adaptation of Laboratory tests for the assessment of wear resistance of drill-bit inserts for rotary-percussive drilling of hard rocks**

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### **Additive manufacturing of CMCs with bimodal microstructure**

**Maurya, Himanshu Singh; Vikram, R. J.; Kosiba, Konrad; Juhani, Kristjan; Sergejev, Fjodor; Suwas, Satyam; Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 168416, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2022.168416> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Additive manufacturing of TiC-based cermets : a detailed comparison with spark plasma sintered samples**

**Maurya, Himanshu Singh; Jayaraj, Jayamani; Vikram, Raja Jothi; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 170436 <https://doi.org/10.1016/j.jallcom.2023.170436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Additively manufactured mesostructured MoSi<sub>2</sub>-Si<sub>3</sub>N<sub>4</sub> ceramic lattice**

**Minasyan, Tatevik; Liu, Le; Holovenko, Yaroslav; Aydinyan, Sofiya; Hussainova, Irina** Ceramics international 2019 / p. 9926-9933 <https://doi.org/10.1016/j.ceramint.2019.02.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Advanced, universal, and facile gel spinning-based aerogel fibrillation : in situ fabrication of highly stretchable TPU-silica hybrid network in ambient conditions**

**Omranpour, Hosseinali; Hassanifard, Soran; Monfared, Ali Reza; Omranpour Shahreza, Babak; Salehi, Amirmehdi; Jalali, Amirjalal; Kheradmandkeymoussi, Mohamad; Rahman, Saadman Sakib; Behdinin, Kamran; Park, Chul B.** Advanced composites and hybrid materials 2024 / art. 105 <https://doi.org/10.1007/s42114-024-00911-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ageing of kesterite solar cells 1 : Degradation processes and their influence on solar cell parameters**

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### **AlCo-rich AlCoNiFe and AlCoNiFeCr high entropy alloys: Synthesis and interaction pathway at high heating rates**

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### **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](#)

### **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](#)

### **Aqueous photocatalytic oxidation of prednisolone**

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### **Assessment of 3D printed steels and composites intended for wear applications in abrasive, dry or slurry erosive**

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## Asymmetric NDI electron transporting SAM materials for application in photovoltaic devices

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## Atomic layer deposition of alumina on g-Al<sub>2</sub>O<sub>3</sub> nanofibres

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## Atypical phase-change alloy Ga<sub>2</sub>Te<sub>3</sub> : atomic structure, incipient nanotectonic nuclei, multilevel writing

Tverjanovich, Andrey; Khomenko, Maksym; Benmore, Chris; **Bereznev, Sergei**; Sokolov, Anton; Fontanari, Daniele; Kiselev, Aleksei; Lotin, Andrey; Bychkov, Eugene Journal of materials chemistry C 2021 / p. 17019-17032 <https://doi.org/10.1039/d1tc03850h> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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## Biosafe sustainable antimicrobial encapsulation and coatings for targeted treatment and infections prevention: Preparation for another pandemic

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## Boosting phosphorescence efficiency by crystal anisotropy in SrAl<sub>2</sub>O<sub>4</sub>:Eu,Dy textured ceramic layers

**Rojas Hernandez, Rocio Estefania**; Rubio-Marcos, Fernando; Serrano, Aida; **Hussainova, Irina**; Fernandez, Jose Francisco Journal of the European Ceramic Society 2020 / p. 1677-1683 : ill <https://doi.org/10.1016/j.jeurceramsoc.2019.11.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Carbon xerogel from 5-methylresorcinol-formaldehyde gel : the controllability of structural properties

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## <sup>13</sup>C- and <sup>15</sup>N-labeling of amyloid-β and inhibitory peptides to study their interaction via nanoscale infrared spectroscopy

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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 CdI<sub>2</sub> and LiI

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Pilvet, Maris; Kaupmees, Reelika; Krustok, Jüri; Grossberg, Maarja; Kauk-Kuusik, Marit** Thin solid films 2021 / art. 138980 <https://doi.org/10.1016/j.tsf.2021.138980> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**CO<sub>2</sub> mineralization by burnt oil shale and cement bypass dust : effect of operating temperature and pre-treatment**  
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**Combustion synthesis of MoSi<sub>2</sub> based composite and selective laser sintering thereof**  
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**Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB<sub>2</sub> fabricated by selective laser melting and hot pressing**  
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**A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystaldiamond and Si(100) substrates**  
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**A comparative study on physio-mechanical properties of silica compacts fabricated using rice husk ash derived amorphous and crystalline silica**  
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**Comparison of additively manufacturing samples fabricated from pre-alloyed and mechanically mixed powders**  
**Zhao, Chao; Wang, Zhi; Li, Daoxi; Xie, Meishen; Kollo, Lauri; Luo, Zongqiang; Zhang, Weiwen; Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2020 / art. 154603, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2020.154603> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Compositionally tunable structure and optical properties of Cu<sub>1.85</sub>(Cd<sub>x</sub>Zn<sub>1 – x</sub>)<sub>1.1</sub>SnS<sub>4.1</sub> (0 ≤ x ≤ 1) monograin powders**  
**Pilvet, Maris; Kauk-Kuusik, Marit; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Timmo, Kristi; Mere, Arvo; Mikli, Valdek** Thin solid films 2015 / p. 180–183 : ill <https://doi.org/10.1016/j.tsf.2014.10.091> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

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**Kumar, Deepak; Shankar, Gyan; Prashanth, Konda Gokuldoss; Suwas, Satyam** Journal of alloys and compounds 2024 / art. 173040 <https://doi.org/10.1016/j.jallcom.2023.173040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Corrosion behavior of 17–4 PH stainless steel manufactured by laser powder bed fusion: Effect of graphene coating and heat-treatment**

Maharana, P.; Sahu, D. K.; Sahoo, D.; Mallik, A.; Mishra, S.; Ramakrishna, M.; Prashanth, Konda Gokuldoss; Gollapudi, S. Materials today communications 2024 / art. 111098 <https://doi.org/10.1016/j.mtcomm.2024.111098> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Crystal structure and magnetic properties of Peacock- Weakley type polyoxometalates Na<sub>9</sub>[Ln(W<sub>5</sub>O<sub>18</sub>)<sub>2</sub>] (Ln = Tm, Yb): Rare example of Tm(III) SMM**

Mariichak, Oleksandra; Kaabel, Sandra; Karpichev, Yevgen; Rozantsev, Georgiy M.; Radio, Serhii V.; Pichon, Celine Magnetochemistry 2020 / 14 p. : ill <https://doi.org/10.3390/magnetochemistry6040053> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Dehydration of AlPO<sub>4</sub>-34 studied by variable-temperature NMR, XRD and first-principles calculations**

Varlec, Jure; Krajnc, Andraž; Vanatalu, Kalju; Oss, Andres; Samoson, Ago New journal of chemistry 2016 / p. 4178–4186 : ill <https://doi.org/10.1039/c5nj02838h> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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**Design of sustainable ionic liquids based on l-phenylalanine and l-alanine dipeptides : synthesis, toxicity and biodegradation studies**

Kapitanov, Illia; Raba, Grete; Špulak, Marcel; Vilu, Raivo; Karpichev, Yevgen; Gathergood, Nicholas Journal of Molecular Liquids 2023 / art. 121285 <https://doi.org/10.1016/j.molliq.2023.121285> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Detailed insight into the CZTS/CdS interface modification by air annealing in monograin layer solar cells**

Kauk-Kuusik, Marit; Timmo, Kristi; Muska, Katri; Pilvet, Maris; Krustok, Jüri; Josepson, Raavo; Brammertz, Guy; Vermang, Bart; Danilson, Mati; Grossberg, Maarja ACS Applied Energy Materials 2021 / p. 12374–12382  
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**Development of Cu-based shape memory alloy through selective laser melting from elemental powder mixture: Processing and characterization**

Singh, Shalini; Palani, I. A.; Dehghi, Shirin; Qureshi, A. J.; Jinoop, A. N.; Paul, C. P.; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 171029 <https://doi.org/10.1016/j.jallcom.2023.171029> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Developments in analytical chemistry initiated from green chemistry**

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**Dynamic chiral cyclohexanohemicurbit[12]uril**

Mishra, Kamini Atindrakumar; Adamson, Jasper; Öeren, Mario; Kaabel, Sandra; Fomitšenko, Maria; Aav, Riina Chemical communications 2020 / p. 14645–14648 <https://doi.org/10.1039/D0CC06817A> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of absorber surface modification on the optoelectronic properties of Cu<sub>2</sub>CdGeSe<sub>4</sub> solar cells**

Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Danilson, Mati; Mikli, Valdek; Kauk-Kuusik, Marit Thin solid films 2020 / art. 137822, 7 p. : ill <https://doi.org/10.1016/j.tsf.2020.137822> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of atomic layer deposited aluminium oxide on mechanical properties of porous silicon carbide**

Jõgiaas, Taivo; Kollo, Lauri; Kozlova, Jekaterina; Tamm, Aile; Hussainova, Irina; Kukli, Kaupo Ceramics international 2015 / p. 7519–7528 : ill <https://doi.org/10.1016/j.ceramint.2015.02.074> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of cBN content and additives on sliding and surface fatigue wear of spark plasma sintered Al<sub>2</sub>O<sub>3</sub>-cBN composites**

Kumar, Rahul, 1993-; Antonov, Maksim; Klimczyk, Piotr; Mikli, Valdek; Gomom, Dmitri Wear 2022 / art. 204250

**Effect of CdCl<sub>2</sub> annealing treatment on structural and optoelectronic properties of close spaced sublimation CdTe/CdS thin film solar cells vs deposition conditions**

**Spalatu, Nicolae; Hiie, Jaan; Mikli, Valdek; Krunks, Malle; Valdna, Vello; Maticiu, Natalia; Raadik, Taavi; Caraman, Mihail** Thin solid films 2015 / p. 128-133 : ill <http://dx.doi.org/10.1016/j.tsf.2014.11.066> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of electrode covering composition on the microstructure, wear, and economic feasibility of Fe-C-Cr manual arc-welded hardfacings**

**Jankauskas, Vytenis; Katinas, Egidijus; Laskauskas, Arturas; Antonov, Maksim; Varnauskas, Valentinas; Gedzevičius, Irmantas; Aleknevičienė, Vilija** Coatings 2020 / art. 294, 19 p. : ill <https://doi.org/10.3390/coatings10030294> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of electrolyte composition on the surface characteristics of plasma electrolytic oxidation coatings over Ti40Nb alloy**

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**Effect of erodent particle impact energy on wear of cemented carbides**

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### **An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes**

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### **Exploring different synthesis parameters for the preparation of metal-nitrogen-carbon type oxygen reduction catalysts**

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### **Fabrication of localized diamond-filled copper structures via selective laser melting and spark plasma sintering**

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### **A feasible pathway to stabilize monoclinic and tetragonal phase coexistence in barium titanate-based ceramics**

**Necib, Jallouli**; Lopez-Sanchez, Jesus; Rubio-Marcos, Fernando; Serrano, Aida; Navarro, Elena; Pena, Alvaro; Taoufik, Mnasri; Smari, Mourad; **Rojas Hernandez, Rocio Estefania**; Carmona, Noemi; Marín, Pilar Journal of materials chemistry C 2022 / p. 17743-17756 <https://doi.org/10.1039/D2TC04265G> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Feedstock preparation, microstructures and mechanical properties for laser-based additive manufacturing of steel matrix composites**

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### **Fe-Ni binder modified NbC cermets: A cost-effective solution with superior mechanical properties**

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### **Formation and trapping of the thermodynamically unfavoured inverted-hemicucurbit[6]uril**

**Prigorchenko, Elena**; Kaabel, Sandra; Narva, Triin; **Baškir, Anastassia**; Fomitšenko, Maria; Adamson, Jasper; **Järving, Ivar**; Rissanen, Kari; **Tamm, Toomas**; Aav, Riina Chemical communications 2019 / p. 9307-9310 : ill <https://doi.org/10.1039/C9CC04990H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Formation of Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber layers for solar cells by electrodeposition-annealing route**

**Iljina, Julia**; Zhang, R.; **Ganchev, Maxim**; Raadik, Taavi; **Volobujeva, Olga**; **Altosaar, Mare**; **Traksmaa, Rainer**; **Mellikov, Enn** Thin Solid Films 2013 / p. 85 - 89 <https://doi.org/10.1016/j.tsf.2013.04.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Formation of fine Mg<sub>2</sub>Si phase in Mg-Si alloy via solid-state sintering using high energy ball milling**

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**Formulation and aerosol jet printing of nickel nanoparticle ink for high-temperature microelectronic applications and patterned graphene growth**

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**4.9 % efficient Sb2S3 solar cells from semi-transparent absorbers with fluorene-based thiophene terminated hole conductors**

**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/acsaem.2c04097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Frequency conversion in lanthanide-doped sol-gel derived materials for energy applications**

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**Functionalization of gamma-alumina nanofibers by alpha-alumina via solution combustion synthesis**

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**Fused hybrid linkers for metal–organic framework-derived bifunctional oxygen electrocatalysts**

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**Gradient microstructure in tantalum formed under the wear track during dry sliding friction**

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#### Impact of Cu<sub>2</sub>ZnSn(SexS<sub>1-x</sub>)<sub>4</sub> (x=0.3) compositional ratios on the monograin powder properties and solar cells

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### **Industrial sustainable fabrication, SEM characterization, mechanical testing, ANOVA analysis of PP-PETF recycled composites : artificial intelligence and deep learning studies for nuclear shielding applications**

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### **Influence of A-Site Deficiency and Ca Concentration on the Electrical and Crystallographic Properties of (Nd<sub>0.2</sub>Sr<sub>0.7-x</sub>Cax)YTi<sub>0.95</sub>Fe<sub>0.05</sub>O<sub>3-δ</sub>-Based Fuel Electrode for Solid Oxide Cells**

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**Iron triad-based bimetallic M-N-C nanomaterials as highly active bifunctional oxygen electrocatalysts**

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**Macroporous silicon-wollastonite scaffold with Sr/Se/Zn/Mg-substituted hydroxyapatite/chitosan hydrogel**

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**Mechanical properties of aluminum, zirconium, hafnium and tantalum oxides and their nanolaminates grown by atomic layer deposition**

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**Microstructural evolution and mechanical properties of Ti(C,N)–FeCrMo-based green cermets**

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**Modification of the optoelectronic properties of Cu<sub>2</sub>CdSnS<sub>4</sub> through low-temperature annealing**

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**Porphyrin-based hybrid nanohelices : cooperative effect between molecular and supramolecular chirality on amplified optical activity**

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**Post-deposition thermal treatment of sprayed SnS films**

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**Post-growth annealing effect on the performance of Cu<sub>2</sub>ZnSnSe<sub>4</sub> monograin layer solar cells**

**Kauk-Kuusik, Marit; Altosaar, Mare; Muska, Katri; Pilvet, Maris; Raudoja, Jaan; Timmo, Kristi; Varema, Tiit; Grossberg, Maarja; Mellikov, Enn; Volobujeva, Olga** Thin solid films 2013 / p. 18-21 : ill <https://doi.org/10.1016/j.tsf.2012.11.075> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Pyrite as prospective absorber material for monograin layer solar cell**

**Kristmann, Katriin; Altosaar, Mare; Raudoja, Jaan; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi** Thin Solid Films 2022 / art. 139068 : ill <https://doi.org/10.1016/j.tsf.2021.139068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A quantitative method for analysis of mixtures of homologues and stereoisomers of hemicucurbiturils that allows us to follow their formation and stability**

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

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**Reaction pathway to Cu<sub>2</sub>ZnSnSe<sub>4</sub> formation in CdI<sub>2</sub> : part 1. Chemical reactions and enthalpies in mixtures of CdI<sub>2</sub>–ZnSe, CdI<sub>2</sub>–SnSe, and CdI<sub>2</sub>–CuSe**

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**Recent advances in essential oils-based metal nanoparticles : a review on recent developments and biopharmaceutical applications**

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**Reduced recombination through the CZTS/CdS interface engineering in monograin layer solar cells**

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**The role of Cl in the chemical bath on the properties of CdS thin films**

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**Role of laser remelting and heat treatment in mechanical and tribological properties of selective laser melted Ti6Al4V alloy**

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### **Sliding wear performance of in-situ spark plasma sintered Ti-TiB<sub>w</sub> composites at temperatures up to 900 °C**

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**Stability, reliability, upscaling and possible technological applications of kesterite solar cells**

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**Structural and electrical characterisation of high-k ZrO<sub>2</sub> thin films deposited by chemical spray pyrolysis method**

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**Study of Cu<sub>2</sub>CdGeSe<sub>4</sub> monograin powders synthesized by molten salt method for photovoltaic applications**

Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Raadik, Taavi; Danilson, Mati; Mikli, Valdek; Altosaar, Mare; Krustok, Jüri; Raudoja, Jaan Thin solid films 2018 / p. 15-19 <https://doi.org/10.1016/j.tsf.2018.09.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Study of the structure and optoelectronic properties of Cu<sub>2</sub>Ge(SexS<sub>1-x</sub>)<sub>3</sub> microcrystalline powders**

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**Sulfur in kukersite shale oil : its distribution in shale oil fractions and the effect of gaseous environment**

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**Synergistic effect of Ag and MoS<sub>2</sub> on high-temperature tribology of self-lubricating NiCrBSi composite coatings by laser metal deposition**

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**Synergistic effect of Nb and Mo on the microstructural formation of the Ti(C,N)-high chromium ferrous-based cermets**

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**Temperature dependent current transport properties in Cu<sub>2</sub>ZnSnS<sub>4</sub> solar cells**

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**Template-controlled synthesis of chiral cyclohexylhemicucurbit[8]uril**

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**Up-conversion enhancement in Er<sup>3+</sup> / Yb<sup>3+</sup> doped 1-D microcavity based on alternating aluminosilicate glass and titania sol-gel layers**

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