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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**

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

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

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

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

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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**

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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

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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**

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**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**

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**Dynamic chiral cyclohexanohemicurbit[12]uril**

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

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**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

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**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](#)

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

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**Effect of Local Remelting and Recycled WC-Co Composite Reinforcement Size on Abrasive and Erosive Wear of Manual Arc Welded Hardfacings**

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**Effect of preheating and cooling of the powder bed by laser pulse shaping on the microstructure of the TiC based cermets**

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### **Electrodeposited ZnO morphology transformations under the influence of SeO<sub>2</sub> additive: Rods, disks, nanosheets network**

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### **Electron beam melting of (FeCoNi)<sub>86</sub>Al<sub>7</sub>Ti<sub>7</sub> high-entropy alloy**

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### **Enhancing NIR emission in ZnAl<sub>2</sub>O<sub>4</sub>:Nd,Ce nanofibers by co-doping with Ce and Nd: a promising biomarker material with low cytotoxicity**

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Gorni, Giulio; Marini, Carlo; Danilson, Mati; Pascual, Laura; Ichikawa, Rodrigo Uchida; Hussainova, Irina; Fernandez, Jose Francisco Journal of materials chemistry C 2021 / p. 657-670 : ill <https://doi.org/10.1039/D0TC04752J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Enhancing the tensile properties of laser repairing Ti-6Al-4V alloys: Optimization of strain distribution based on composition fine-tuning**

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### **Erratum: A feasible pathway to stabilize monoclinic and tetragonal phase coexistence in barium titanate-based ceramics (J. Mater. Chem. C (2022) 10 (17743–17756) DOI: 10.1039/D2TC04265G)**

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 2023 / p. 2397 <https://doi.org/10.1039/d3tc90020g> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Pandya, Subhashree Jayesh; Kapitanov, Illia; Usmani, Zeba; Sahu, Reshma; Sinha, Deepak; Gathergood, Nicholas; Ghosh, Kallol K.; Karpichev, Yevgen Journal of molecular liquids 2020 / art. 112857 <https://doi.org/10.1016/j.molliq.2020.112857> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Excitons in Mg(OH)<sub>2</sub> and Ca(OH)<sub>2</sub> from ab initio calculations**

Pishtshev, Aleksandr; Karazhanov, S. Zh.; **Klopov, Mihail** Solid state communications 2014 / p. 11-15 : ill

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

Teppor, Patrick; Jäger, Rutha; Härk, Eneli; Sepp, Silver; Kook, Mati; **Volobujeva, Olga**; Paiste, Päärn; Kochovski, Zdravko; Tallo, Indre; Lust, Enn Journal of the Electrochemical Society 2020 / art. 054513 <https://doi.org/10.1149/1945-7111/ab7093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Rahmani Ahranjani, Ramin**; Karimi, Javad; Kamboj, Nikhil; Kumar, Rahul, 1993-; Brojan, Miha; Tchórz, Adam; Skrabalak, Grzegorz; Lopes, Sergio Ivan Diamond and related materials 2023 / art. 109916 <https://doi.org/10.1016/j.diamond.2023.109916> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Fabrication of novel SiO<sub>x</sub>N<sub>y</sub>/SWCNT laminate-type composite protective coating using low-temperature approach**

**Shmagina, Elizaveta**; **Volobujeva, Olga**; Nasibulin, Albert; Bereznev, Sergei Ceramics international 2024 / p. 34312-34320 <https://doi.org/10.1016/j.ceramint.2024.06.250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites**

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### **Faster magic angle spinning reveals cellulose conformations in woods**

Yuan, Eric Chung-Yueh; Huang, Shing-Jong; Huang, Hung-Chia; Sinkkonen, Jari; **Oss, Andres**; **Org, Mai-Liis**; **Samoson, Ago**; Tai, Hwan-Ching; Chan, Jerry Chun Chung Chemical communications 2021 / p. 4110-4113 <https://doi.org/10.1039/D1CC01149A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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**

Chen, Hongyu; Kosiba, Konrad; Suryanarayana, Challapalli; Lu, Tiwen; Liu, Yang; Wang, Yonggang; **Prashanth, Konda Gokuldoss** International materials reviews 2023 / p. 1192-1244 <https://doi.org/10.1080/09506608.2023.2258664> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Basit, Muhammad Abdul; **Anwar, Furqan**; Ali, Sadaqat; Umer, Malik Adeel; Shahbaz, Tauheed; Ud Din, Emad; Mubashar, Aamir Ceramics international 2024 / p. 47768-47779 : ill <https://doi.org/10.1016/j.ceramint.2024.09.121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ferritic chromium steel as binder metal for WC cemented carbides**

**Tarraste, Marek**; **Kübarsepp, Jakob**; Juhani, Kristjan; Mere, Arvo; Kolnes, Märt; Viljus, Mart; Maaten, Birgit International journal of refractory metals and hard materials 2018 / p. 183-191 : ill <https://doi.org/10.1016/j.jirmhm.2018.02.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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**

Seth, Prem Prakash; **Singh, Neera**; Singh, Manoj; Prakash, Om; Kumar, Devendra Journal of alloys and compounds 2020 / art. 153205, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2019.153205> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Formation of property gradient in coarse-grained niobium using a wedge tool : experiment and analysis**

Tarasov, Oleksandr; **Kübarsepp, Jakob**; Viljus, Mart; Saarna, Mart; Sergejev, Fjodor International journal of refractory metals and hard materials 2024 / art. 106905 <https://doi.org/10.1016/j.jirmhm.2024.106905> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

McKibben, Nicholas; Curtis, Michael; Maryon, Olivia; Sawyer, Mone't; **Lazouskaya, Maryna**; Eixenberger, Josh; Deng, Zhangxian; Estrada, David ACS Applied Electronic Materials 2024 / p. 748 - 760 <https://doi.org/10.1021/acsaem.3c01175> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**4.9 % efficient Sb<sub>2</sub>S<sub>3</sub> 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**

Almeida, Rui M.; Sousa, N.; **Rojas Hernandez, Rocio Estefania**; Santos, Luis F. Journal of Sol-Gel science and technology 2020 / p. 520-529 : ill <https://doi.org/10.1007/s10971-020-05289-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Friction and wear of fiber reinforced polyimide composites**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim**; Wang, Qihua; Wang, Tingmei Wear 2013 / p. 122-129 : ill <https://doi.org/10.1016/j.wear.2012.12.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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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#### 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-PETG recycled composites : artificial intelligence and deep learning studies for nuclear shielding applications**

**Hussain, Abrar**; **Goljandin, Dmitri**; **Podgurski, Vitali**; **Yörük, Can Rüstü**; **Sergejev, Fjodor**; **Kübarsepp, Jakob**; **Maurya, Himanshu Singh**; Rahmani Ahranjani, Ramin European polymer journal 2024 / art. 113082 <https://doi.org/10.1016/j.eurpolymj.2024.113082> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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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**Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements**

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**Intermolecular interaction of thermoresponsive poly[2-isopropyl-2-oxazoline] in solutions and interpolymer complex with fiber-forming polyethylene oxide**

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**Ionic substituted hydroxyapatite for bone regeneration applications : a review**

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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 and mechanical behaviour of friction welded SS316L components fabricated by selective laser melting**

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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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## **Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials**

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

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

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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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**Sulfamethizole-imprinted polymer on screen-printed electrodes: Towards the design of a portable environmental sensor**

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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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