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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; Traksmas, 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](#)

#### **Acquisition of O<sub>2</sub> adsorption isotherms as thorough characterization of nanocrystalline titanium dioxide photocatalysts**

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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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#### **AFM nanoshaving of covalently modified graphite for studying molecular self-assembly under lateral nanoconfinement**

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

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#### **Bifunctional oxygen electrocatalyst based on Fe, Co, and nitrogen co-doped graphene-coated alumina nanofibers for Zn-air battery air electrode**

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#### **1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes**

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#### **Broad-band photoluminescence of donor-acceptor pairs in tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> microcrystals**

Krustok, Jüri; Raadik, Taavi; Kaupmees, Reelika; Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Grossberg, Maarja Journal of physics D: applied physics 2021 / art. 105102, 7 p. : ill <https://doi.org/10.1088/1361-6463/abce29> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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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>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](#)

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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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#### **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**

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**Comprehensive study of photoluminescence and device properties in Cu<sub>2</sub>Zn(Sn<sub>1-x</sub>Gex)<sub>4</sub> monograins and monograin layer solar cells**

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**Deformation behavior of metallic lattice structures with symmetrical gradients of porosity manufactured by metal additive manufacturing**

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**Development of Bi<sub>2</sub>S<sub>3</sub> thin film solar cells by close-spaced sublimation and analysis of absorber bulk defects via in-depth photoluminescence analysis**

Koltsov, Mykhailo; Gopi, Sajeesh Vadakkedath; Raadik, Taavi; Krustok, Jüri; Josepson, Raavo; Gržibovskis, Raitis; Vembris, Aivars; Spalatu, Nicolae Solar energy materials and solar cells 2023 / art. 112292 <https://doi.org/10.1016/j.solmat.2023.112292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Directly electrospun electrodes for electrical double-layer capacitors from carbide-derived carbon**

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**Dynamic chiral cyclohexanohemicucurbit[12]uril**

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

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**Effect of alloying additives on impact-abrasive wear of manual arc welded hadfield steel hardfacings**

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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**

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**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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**Effect of germanium incorporation on the properties of kesterite Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> monograins**

**Oueslati, Souhaib**; Grossberg, Maarja; **Kauk-Kuusik, Marit**; **Mikli, Valdek**; Ernits, Kaia; Meissner, Dieter; Krustok, Jüri Thin solid films 2019 / p. 315–320 : ill <https://doi.org/10.1016/j.tsf.2018.11.020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of graphene nanoplatelet content on mechanical and elevated-temperature tribological performance of self-lubricating ZE10 magnesium alloy nanocomposites**

Kandemir, Sinan; **Yöyler, Sibel**; Kumar, Rahul, 1993-; **Antonov, Maksim**; Dieringa, Hajo Lubricants 2024 / art. 52 <https://doi.org/10.3390/lubricants12020052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effect of ionic liquids on the conductivity of electrospun polyacrylonitrile membranes**

**Savest, Natalja**; Plamus, Tiia; Tarasova, Elvira; Viirsalu, Mihkel; Krasnou, Illia; Gudkova, Viktoria; Küppar, Kadi-Anne; **Krumme, Andres** Journal of electrostatics 2016 / p. 63-68 : ill <https://doi.org/10.1016/j.elstat.2016.07.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of laser heat treatment on AlxTi1-xN-based PVD coatings, deposited on carbon and tool steel substrates**

Surženkov, Andrei; Viljus, Mart; **Antonov, Maksim**; Kübarsepp, Jakob; Juhani, Kristjan; Kulu, Priit; Vagiström, Heinar; Jankauskas, Vytenis; Leišys, Rimtautas; Bendikiene, Regita; Adoberg, Eron; Peetsalu, Priidu; **Mere, Arvo**; **Gregor, Andre** Surface and coatings technology 2022 / art. 128771 <https://doi.org/10.1016/j.surfcoat.2022.128771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of loading system inertia on tribological behaviour of ceramic–ceramic, ceramic–metal and metal–metal dry sliding contacts**

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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**

Katinas, Egidijus; **Antonov, Maksim**; Jankauskas, Vytenis; **Goljandin, Dmitri** Coatings 2023 / art. 734 <https://doi.org/10.3390/coatings13040734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si**



## content alloys

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## Effect of oxidation on erosive wear behaviour of boiler steels

**Antonov, Maksim**; Veinthal, Renno; Huttunen-Saarivirta, E.; Hussainova, Irina; Vallikivi, Ahto; Lelis, Martynas; Priss, Jelena

Tribology international 2013 / p. 35-44 : ill <https://doi.org/10.1016/j.triboint.2012.09.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Maurya, Himanshu Singh**; Kollo, Lauri; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Ceramics

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## Effect of selective laser melting process parameters on microstructural and mechanical properties of TiC–NiCr cermet

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## Effect of solution composition on anatase to rutile transformation of sprayed TiO<sub>2</sub> thin films

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## Effects of Ar<sup>+</sup> etching of Cu<sub>2</sub>ZnSnSe<sub>4</sub> thin films : An x-ray photoelectron spectroscopy and photoluminescence study

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**Timmo, Kristi**; Dolcet Sadurni, Marc; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek; Atlan, Fabien; Guc, Maxim;

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**Electrochemical sensor based on molecularly imprinted polymer for rapid quantitative detection of brain-derived neurotrophic factor**

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

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

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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**

**Muska, Katri; Kauk-Kuusik, Marit; Grossberg, Maarja; Altosaar, Mare; Pilvet, Maris; Varema, Tiit; Timmo, Kristi; Volobujeva,**

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**The impact of microstructural refinement on the tribological behavior of niobium processed by Indirect Extrusion Angular Pressing**

**Omranpour Shahreza, Babak;** Hernandez-Rodriguez, Marco A. L.; Hernandez-Rodriguez, Edgar; **Kommel, Lembit; Sergejev,**

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**Importance of molecular symmetry for enantiomeric excess recognition by NMR**

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**Influence of A-site modifications on the properties of La<sub>0.21</sub>Sr<sub>0.74-x</sub>CaxTi<sub>0.95</sub>Fe<sub>0.05</sub>O<sub>3-δ</sub> based fuel electrode for solid oxide cell**

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga**; Granroth, Sari; Lust, Enn; Nurk, Gunnar Journal of The Electrochemical Society 2023 / art. 054502, 10 p. : ill <https://doi.org/10.1149/1945-7111/acd084> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Influence of different reinforcing particles on the scratch resistance and microstructure of different WC–Ni composites**

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**Influence of order-disorder in Cu<sub>2</sub>ZnSnS<sub>4</sub> powders on the performance of monograin layer solar cells**

Timmo, Kristi; **Kauk-Kuusik, Marit**; Pilvet, Maris; Raadik, Taavi; **Altosaar, Mare**; Danilson, Mati; Grossberg, Maarja; Raudoja, Jaan; Ernits, Kaia Thin solid films 2017 / p. 122-126 : ill <https://doi.org/10.1016/j.tsf.2016.10.017> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Influence of solution composition on sprayed ZnO nanorods properties and formation process: Thermoanalytical study of the precursors**

**Dedova, Tatjana**; Oja Acik, Ilona; Polivtseva, Svetlana; Krunks, Malle; Gromöko, Inga; Tõnsuaadu, Kaia; Mere, Arvo Ceramics international 2019 / p. 2887-2892 : ill <https://doi.org/10.1016/j.ceramint.2018.07.274> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Influence of strong carbide-forming elements (Nb and Ta) on the development of the green (Ti, Me)(C,N)-high chromium Fe-based cermets**

**Maurya, Himanshu Singh**; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Kumar, Rahul, 1993-; Hussain, Abrar; Sergejev, Fjodor; Kübarsepp, Jakob Vacuum 2024 / art. 113723, 12 p <https://doi.org/10.1016/j.vacuum.2024.113723> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Influence of the copper content on the optical properties of CZTSe thin films**

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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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