

#### **Abrasion and erosion resistance of cermets : a review**

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#### **Abrasive wear resistance of HVOF sprayed and PTA-welded hardmetal hard phase reinforced metal-matrix based coatings**

Tarbe, Riho; Kulu, Priit; Zikin, Arkadi; Surženkov, Andrei Engineering materials & tribology XXII 2014 / p. 3-7 <https://doi.org/10.4028/www.scientific.net/KEM.604.3> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **Accuracy of the Mindlin model in A0 Lamb mode scattering from partial through-thickness damage**

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#### **Acoustic study of novel eco-friendly material for vehicle NVH applications**

Rämmal, Hans; Lavrentjev, Jüri Materials today: proceedings 2020 / p. 2331-2337 <https://doi.org/10.1016/j.matpr.2020.04.632> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Adaptive Extended Kalman Filter position estimation based on Ultra-Wideband Active-Passive Ranging Protocol**

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#### **Adaptive virtual inertia-damping system based on model predictive control for low-inertia microgrids**

Fawzy, Asmaa; Bakeer, Abualkasim Ahmed Ali; Magdy, Gaber; Atawi, Ibrahim E.; Roshdy, Mohamed IEEE Access 2021 / p. 109718 - 109731 <https://doi.org/10.1109/ACCESS.2021.3101887> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Additive manufacturing : alloy design and process innovations**

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#### **Additive manufacturing of a martensitic Co–Cr–Mo alloy : Towards circumventing the strength–ductility trade-off**

Wang, Zhi; Tang, S.Y.; Scudino, Sergio; Ivanov, Y.P.; Qu, R.T.; Wang, D.; Yang, C.; Zhang, W.W.; Greer, A.L.; Eckert, Juergen H.; Prashanth, Konda Gokuldoss Additive Manufacturing 2021 / art. 101725 <https://doi.org/10.1016/j.addma.2020.101725> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Additive manufacturing of CoCrFeMnNi high-entropy alloy/AISI 316L stainless steel bimetallic structures**

Sokkalingam, Rathinavelu; Chao, Zhao; Sivaprasad, Katakam; Muthupandi, Veerappan; Jayaraj, Jayamani; Ramasamy, Parthiban; Eckert, Jürgen; Prashanth, Konda Gokuldoss Advanced engineering materials 2023 / art. 2200341 <https://doi.org/10.1002/adem.202200341> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **Adhesion of single-walled carbon nanotube thin films with different materials**

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#### **Advances in machine fault diagnosis**

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#### **Advances in the one-step synthesis of 2D and 3D sulfide materials grown by pulsed laser deposition assisted by a sulfur thermal cracker**

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### **Aggregator index for 24-hour energy flexibility evaluation in an ADN including PHEVs**

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### **Aluminate-based nanostructured luminescent materials : design of processing and functional properties**

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### **Amorphous Zn(O,Se) buffer layer for Cu(In,Ga)Se<sub>2</sub> thin film solar cells**

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### **Analysis of barrier inhomogeneities of P-type Al<sub>4</sub>H-SiC Schottky barrier diodes**

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### **Analysis of grain orientation and defects in Sb<sub>2</sub>Se<sub>3</sub> solar cells fabricated by close-spaced sublimation : [journal article]**

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#### **Atomic structure and dynamics of unusual and wide-gap phase-change chalcogenides : a GeTe<sub>2</sub> case**

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#### **Average residual stresses in hard Physical Vapor Deposited (PVD) coatings**

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#### **Band gap engineering by cationic substitution in Sn(Zr<sub>1-x</sub>Ti<sub>x</sub>)Se<sub>3</sub> alloy for bottom sub-cell application in solar cells**

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#### **Bandgap dynamics in locally resonant metastructures : a general theory of internal resonator coupling**

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#### **Bandgap fluctuations, hot carriers, and band-to-acceptor recombination in Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> microcrystals**

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### **Changes in surface morphology, deflection and wear of microcrystalline diamond film observed during sliding tests against Si<sub>3</sub>N<sub>4</sub> balls**

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### **Characterising local environments in high energy density Li-ion battery cathodes: A combined NMR and first principles study of LiFe<sub>0.9</sub>Co<sub>0.1</sub>PO<sub>4</sub>**

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#### **Chemical etching of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin powder materials for solar cell applications**

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### **A competitive framework for the participation of multi-microgrids in the community energy trading market: A case study**

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## **Crumb rubber as a secondary raw material from waste rubber : a short review of end-of-life mechanical processing methods**

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## **Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin layer solar cells for flexible photovoltaic applications**

**Kauk-Kuusik, Marit; Timmo, Kristi; Pilvet, Maris; Muska, Katri; Danilson, Mati; Krustok, Jüri; Josepson, Raavo; Mikli, Valdek; Grossberg-Kuusk, Maarja** Journal of materials chemistry A 2023 / p. 23640-23652 <https://doi.org/10.1039/D3TA04541B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Cubic iron core-shell nanoparticles functionalized to obtain high-performance MRI contrast agents**

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## **Cu(In,Ga)Se<sub>2</sub> monograin powders with different Ga content for solar cells**

**Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Kaupmees, Reelika; Mikli, Valdek; Raudoja, Jaan; Varema, Tiit** Solar energy 2018 / p. 648–655 : ill <https://doi.org/10.1016/j.solener.2018.10.078> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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## **CVD nanocrystalline multilayer graphene coated 3D-printed alumina lattices**

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**Employment of dopant-free fluorene-based enamines as innovative hole transport materials to boost the transparency and performance of Sb<sub>2</sub>S<sub>3</sub> based solar cells**

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**Enhanced photocatalytic activity of ZnO nanorods by surface treatment with H<sub>2</sub>AuCl<sub>4</sub> : synergic effects through an electron scavenging, plasmon resonance and surface hydroxylation**

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**Enhancement of hydrogen storage in metals by using a new technique in Severe Plastic Deformations**

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### **Evaluation of residual stresses in PVD coatings by means of strip substrate length variation and curvature method of plate substrate**

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**Kupchenko, Leonid**; Tali, Rauno; Adoberg, Eron; Mikli, Valdek; Podgurski, Vitali Engineering materials & tribology XXII 2014 / p. 67-70 <https://doi.org/10.4028/www.scientific.net/KEM.604.67> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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**Semitransparent Sb2S3 thin film solar cells by ultrasonic spray pyrolysis for use in solar windows**

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**SiC JBS diode symmetrical voltage doubler represented as the diffusion-welded stack**

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**SIC schottky diode rectifier bridge represented as the diffusion-welded stack**

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