

### **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](#)

### **Abrasive wear resistance of recycled hardmetal reinforced thick coating**

**Kulu, Priit; Tarbe, Riho; Zikin, Arkadi; Sarjas, Heikki; Surženkov, Andrei** Engineering materials and tribology 2013 / p. 185-190

### **Air-to-water heat pump monitoring in the cold climate region**

**Kõiv, Teet-Andrus; Ling, Mariin; Tennokese, Kaspar** Innovative Solutions in the Field of Engineering Sciences : selected, peer reviewed papers from the 2014 International Conference on Applied Mechanics and Mechanical Automation (AMMA 2014), May 20-21, 2014, Macao, China 2014 / p. 599-603 : ill <https://doi.org/10.4028/www.scientific.net/AMM.590.599> [Article at Scopus](#)

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

**Ziko, Mehadi Hasan; Koel, Ants; Rang, Toomas; Toompuu, Jana** Silicon Carbide and Related Materials 2019 : Selected peer-reviewed papers from International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), September 29 - October 4, 2019, Kyoto, Japan Materials science forum 2020 / p. 960-972 <https://doi.org/10.4028/www.scientific.net/MSF.1004.960> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Application of HOHWM for vibration analysis of nanobeams**

**Kirs, Maarjus; Eerme, Martin;** Bassir, David; **Tungel, Ernst** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 230-235 <https://www.scientific.net/KEM.799.230> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.230> [Conference proceeding at Scopus](#) [Article at Scopus](#)

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

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Mikli, Valdek; Adoberg, Eron; Vagiström, Heinar; Kübarsepp, Jakob; Peetsalu, Priidu** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 20-25 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.20> <https://www.scientific.net/KEM.799.20> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Body measurements extraction from 3D scanner data**

**Elbrecht, Pirjo; Henno, Jaak;** Palm, Knut-Joosep Mechatronics and control engineering : selected, peer reviewed papers from the 2013 Asian Pacific Conference on Mechatronics and Control Engineering (APCMCE 2013), March 26-27, 2013, Hong Kong 2013 / p. 372-377 <https://doi.org/10.4028/www.scientific.net/AMM.339.372> [Article at Scopus](#)

### **Change in the parameters of electron-irradiated 4H-SiC Schottky diodes as a function of the time during low-temperature isothermal annealing**

**Korolkov, Oleg;** Kozlovski, Vitali V.; Lebedev, Alexander A.; **Toompuu, Jana; Sleptsuk, Natalja; Rang, Toomas** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 734-737 <https://doi.org/10.4028/www.scientific.net/MSF.963.734> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **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**

**Bogatov, Andrei; Traksmaa, Rainer; Podgurski, Vitali** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 145-151 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.145> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Characterization of mechanically milled cermet powders produced by disintegrator technology**

Käerdi, Helmo; **Goljandin, Dmitri; Kulu, Priit; Sarjas, Heikki; Mikli, Valdek** Engineering materials and tribology 2013 / p. 148-153 <https://www.scientific.net/KEM.527.148>

### **Chemical bath deposition of SnS thin films from the solutions with different concentrations of tin and sulphur**

**Safonova, Maria; Mellikov, Enn; Mikli, Valdek; Kerm, Karin; Naidu, Revathi; Volobujeva, Olga** Inter Academia 2014 - Global Research and Education 2015 / p. 183-186 : ill <http://dx.doi.org/10.4028/www.scientific.net/AMR.1117.183>

### **Comparative analysis of residual stresses determined by various methods in brush-plated hard gold and silver coatings**

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; **Sergejev, Fjodor; Mikli, Valdek** Engineering materials & tribology XXII 2014 / p. 8-11 <https://doi.org/10.4028/www.scientific.net/KEM.604.8> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **Comparative analysis of two methods for evaluating wear rate of nanocrystalline diamond films**

**Bogatov, Andrei; Yashin, Maxim; Viljus, Mart;** Menezes, Pradeep; **Podgurski, Vitali** Engineering materials and tribology XXV 2017 / p. 345-350 : ill <https://doi.org/10.4028/www.scientific.net/KEM.721.345> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Comparative analysis of wear rates of microcrystalline diamond and diamond-like carbon coatings deposited on WC-Co substrates**

**Yashin, Maxim; Bogatov, Andrei; Podgurski, Vitali** Engineering materials and tribology XXV 2017 / p. 436-440 : ill <https://doi.org/10.4028/www.scientific.net/KEM.721.436> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Comparative investigation of the graphene-on-silicon carbide and CVD graphene as a basis for biosensor application**

**Sleptšuk, Natalja;** Lebedev, Alexander A.; Elisayev, Ilya; **Korolkov, Oleg; Toompuu, Jana; Land, Raul; Mikli, Valdek;** Zubov, Alexander; **Rang, Toomas** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 185-190 : ill [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.185> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Comparative results of low temperature annealing of lightly doped n-layers of silicon carbide irradiated by protons and electrons**

Kozlovski, Vitali V.; **Korolkov, Oleg;** Lebedev, Alexander A.; **Toompuu, Jana; Sleptsuk, Natalja** Silicon Carbide and Related Materials 2019 : 18th International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), Kyoto, Japan, September 29 - October 4, 2019 2020 / p. 231-236 <https://doi.org/10.4028/www.scientific.net/MSF.1004.231> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Comparative study of adhesive wear for CoCr, TiC-NiMo, WC-Co as potential FSW tool materials**

**Kolnes, Mart; Kübarsepp, Jakob; Sergejev, Fjodor; Kolnes, Märt** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 224-228 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.224> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Comparative study of plasma clad Fe-based composite hardfacings with in situ synthesized Cr and Ti carbide reinforcement**

**Tkachivskiy, Dmytro; Viljus, Mart; Traksmaa, Rainer; Antonov, Maksim; Surženkov, Andrei; Juhani, Kristjan; Kulu, Priit** Solid state phenomena ; 320 2021 / p. 83-89 <https://doi.org/10.4028/www.scientific.net/SSP.320.83> [Conference proceedings metrics at Scopus](#) [Article at Scopus](#)

#### **Comparative study of the VARTM, VAP and MTI vacuum infusion processes**

**Aruniit, Aare; Herranen, Henrik;** Miller, Kristen Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 71-76 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.71> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Contact stiffness parameters for finite element modeling of contact**

**Sivitski, Alina; Põdra, Priit** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 211-216 : ill [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.211> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Covering an unknown area with an RFID-enabled robot swarm**

**Puusepp, Andres; Tammet, Tanel;** Reilent, Enar Mechanical design and power engineering 2014 / p. 1157-1162 <https://doi.org/10.4028/www.scientific.net/AMM.490-491.1157> [Article at Scopus](#) [Article at WOS](#)

#### **Critical radius in the effect of transformation toughening of zirconia doped ceramics and cermets**

Freidin, Alexander; Filippov, Roman; **Hussainova, Irina;** Vilchevskaya, Elena Engineering materials and tribology 2013 / p. 68-73 <https://www.scientific.net/KEM.527.68>

#### **Cyclic loading of TiCN coating by Vickers indentation**

**Saarna, Mart; Lind, Liina; Peetsalu, Priidu; Sergejev, Fjodor** Engineering materials and tribology XXV 2017 / p. 425-429 <https://doi.org/10.4028/www.scientific.net/KEM.721.425> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Dedicated to the memory of Prof. M. Sheinkman effect of ultrasonic treatment on the defect structure of the Si-SiO<sub>2</sub> system**

**Kropman, Daniel;** Dolgov, Sergei; Onufrijevs, Pavels; Dauksta, Edvins Gettering and Defect Engineering in Semiconductor Technology XV 2014 / p. 352-357 : ill <https://doi.org/10.4028/www.scientific.net/SSP.205-206.352> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **Deformation-burst schemes of 3-piece aerosol containers**

**Ratas, Kaarin; Peetsalu, Priidu** Engineering materials & tribology XXII 2014 / p. 55-58

<https://doi.org/10.4028/www.scientific.net/KEM.604.55> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **Degradation of 600-V 4H-SiC Schottky diodes under irradiation with 0.9 MeV electrons**

Lebedev, Alexander A.; Davidovskaja, Klavdia; Kozlovski, Vitali V.; **Korolkov, Oleg; Sleptsuk, Natalja; Toompuu, Jana** Silicon Carbide and Related Materials 2016 : selected, peer reviewed papers from the 11th European Conference on Silicon Carbide and Related Materials 2016 (ECSCRM 2016), September 25-29, 2016, Halkidiki, Greece 2017 / p. 447-450 : ill

<https://doi.org/10.4028/www.scientific.net/MSF.897.447> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Densification and microstructure development in zirconia toughened hardmetals**

**Voltšihin, Nikolai; Hussainova, Irina; Cura, M. Erkin; Hannula, Simo-Pekka; Traksmäa, Rainer** Engineering materials and tribology 2013 / p. 50-55 : ill

#### **Dependence of wear of Cu-Cr-S alloy on hardness and electrical conductivity in sliding electrical contact**

**Kommel, Lembit; Baroninš, Janis** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 229-233 : ill

<https://doi.org/10.4028/www.scientific.net/SSP.267.229> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Dependence of the carrier removal rate in 4H-SiC PN structures on irradiation temperature**

Lebedev, Alexander A.; Davydovskaya, Klavdia S.; Kozlovski, Vitali V.; **Korolkov, Oleg; Sleptsuk, Natalja; Toompuu, Jana** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 730-733 <https://doi.org/10.4028/www.scientific.net/MSF.963.730> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Design and manufacturing of variable angle tow laminate**

**Haavajõe, Anti; Mikola, Madis; Pohlak, Meelis** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 59-64 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.59> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Determination of resistance to wear of particulate composite**

**Aruniit, Aare; Antonov, Maksim; Kers, Jaan; Krumme, Andres** Engineering materials & tribology XXII 2014 / p. 188-191

<https://doi.org/10.4028/www.scientific.net/KEM.604.188> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **Development of the method for calculation of plates to ensure optimization of hull thickness**

**Gornostajev, Dmitri; Arjassov, Gennadi; Žigailov, Sergei** Mechatronic systems and materials VI 2015 / p. 796-801 : ill

<https://doi.org/10.4028/www.scientific.net/SSP.220-221.796> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Diffusion in SC Ni-base superalloys under viscoplastic deformation**

**Kommel, Lembit; Straumal, B.** Diffusion in Solids and Liquids V 2010 / p. 1340-1345

#### **Diffusion welded Al contacts to p-type SiC**

**Korolkov, Oleg; Rang, Toomas; Syrkin, A.; Dmitriev, V.** Silicon Carbide and Related Materials 2002 : ECSCRM2002 2003 / p. 697-700 <https://www.scientific.net/MSF.433-436.697>

#### **Diffusion welding techniques for power SiC Schottky packaging**

**Korolkov, Oleg; Rang, Toomas; Syrkin, A.; Dmitriev, V.** Silicon carbide and related materials 2005 2006 / p. 919-922

#### **Digital Object Memory integration into indirect surface roughness measurement in turning**

**Aruväli, Tanel; Otto, Tauno** 4th Mechanical and Manufacturing Engineering : selected, peer reviewed papers from the 4th International Conference on Mechanical and Manufacturing Engineering (ICME 2013), December 17-18, 2013, Bangi-Putrajaya, Malaysia 2014 / p. 764-768 <https://doi.org/10.4028/www.scientific.net/AMM.465-466.764> [Article at Scopus](#) [Article at WOS](#)

#### **Direct CVD growth of multi-layered graphene closed shells around alumina nanofibers**

**Ivanov, Roman; Mikli, Valdek; Kübarsepp, Jakob; Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 77-80 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.77> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Effect of atomic oxygen irradiation on the structural and tribological properties of the MoS<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>/PI composites**

Zhao, Gai; Wang, Qihua; **Hussainova, Irina; Ding, Qingjun** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 239-243 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.239> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Effect of basalt reinforcement type and content on the abrasive wear behaviour of polymer composites**

**Antonov, Maksim; Kers, Jaan; Liibert, Laura; Shuliak, Volodymyr; Smirnov, Anton; Bartolome, Jose F.** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 181-188 : ill  
<https://doi.org/10.4028/www.scientific.net/KEM.674.181> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Effect of grain growth inhibitors VC/Cr3C2 on WC-ZrO2-Ni composite mechanics**

**Yung, Der-Liang; Dong, Minjie; Hussainova, Irina** Engineering materials & tribology XXII 2014 / p. 106-109  
<https://doi.org/10.4028/www.scientific.net/KEM.604.106> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Effect of hot dip galvanizing on the mechanical properties of high strength steels**

**Sepper, Sirli; Peetsalu, Priidu; Saarna, Mart; Mikli, Valdek; Kulu, Priit** Engineering materials & tribology XXII 2014 / p. 12-15 : ill  
<https://doi.org/10.4028/www.scientific.net/KEM.604.12> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Effect of new superhard phases formation on properties of composite processed by SHS**

**Kommel, Lembit; Tamm, Toomas; Metsvahi, Raido** Engineering materials and tribology 2013 / p. 137-142

### **The effect of niobium on in situ synthesis of titanium carbide in composite hardfacings**

**Yöyler, Sibel; Surzhenkov, Andrei; Viljus, Mart; Traskmaa, Rainer; Juhani, Kristjan** Materials Engineering and Modern Manufacturing, MeMM 2023 : Selected peer-reviewed extended articles based on abstracts presented at the 30th International Baltic Conference "Materials Engineering and Modern Manufacturing 2023", MeMM 2023 Materials science forum 2023 / p. 55-60  
<https://doi.org/10.4028/p-A5WzJl>

### **Effect of oxidation on sliding wear behavior of NiCrSiB-TiB2 plasma sprayed coatings**

**Umanskii, A.; Hussainova, Irina; Storoženko, M.; Terentyev, O.; Antonov, Maksim** Engineering materials & tribology XXII 2014 / p. 16-19  
<https://doi.org/10.4028/www.scientific.net/KEM.604.16> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Effect of sintering method on surface fatigue of carbide composites**

**Petrov, Mihail; Kübarsepp, Jakob; Sergejev, Fjodor; Viljus, Mart; Tarraste, Marek** Engineering materials and tribology XXV 2017 / p. 368-372 : ill  
<https://doi.org/10.4028/www.scientific.net/KEM.721.368> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Effect of thermal spraying method on the microstructure and wear behaviour of FeNiCrBSiC-CrB2 coating**

**Umanskiy, O.; Storozenko, M.; Antonov, Maksim; Terentyev, O.; Koval, O.; Goljandin, Dmitri** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 37-42 : ill  
[https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.37>  
<https://doi.org/10.4028/www.scientific.net/KEM.799.37> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Effect of WC grain size and content on erosive wear of manual arc welded hardfacings with low-carbon ferritic-pearlitic steel or stainless steel matrix**

**Katinas, Egidijus; Antonov, Maksim; Jankauskas, Vytenis; Skirkus, Remigijus** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 213-218 : ill  
<https://doi.org/10.4028/www.scientific.net/KEM.674.213> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Effects of the inclusion of armchair graphene nanoribbons on the electrical conduction properties of NN-heterojunction 4H-6H/SiC diodes**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Advanced Materials and Processing Technologies : 2nd International Conference on Sensors, Materials and Manufacturing (ICSMM 2018, November 19-21, 2018, Taiwan); International Conference on Materials Sciences and Nanomaterials (ICMSN 2018, July 11-13, 2018, United Kingdom) and the 2nd International Conference on Materials and Intelligent Manufacturing (ICMIM 2018, August 24-26, 2018, Japan) 2019 / p. 29-35 : ill  
<https://doi.org/10.4028/www.scientific.net/MSF.962.29> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Electrochemical behaviour of TiCN and TiAlN gradient coatings prepared by lateral rotating cathode arc PVD technology**

**Baroninš, Janis; Podgurski, Vitali; Antonov, Maksim; Bereznev, Sergei; Hussainova, Irina** Engineering materials and tribology XXV 2017 / p. 414-418  
<https://doi.org/10.4028/www.scientific.net/KEM.721.414> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Embedded electronics influence on the strength of carbon fiber laminate**

**Herranen, Henrik; Kers, Jaan; Preden, Jürjo-Sören; Talalaev, Robert; Eerme, Martin; Majak, Jüri; Lend, Henri; Allikas, Georg** Advances in applied materials and electronics engineering III 2014 / p. 239-243  
<https://doi.org/10.4028/www.scientific.net/AMR.905.239> [Article at Scopus](#)

### **Engineering materials and tribology**

2013



**Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia**  
2016 <http://dx.doi.org/10.4028/www.scientific.net/KEM.674>

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

**Omranpour Shahreza, Babak; Kommel, Lembit; Sanchez, E. Garcia** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 173-178 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.173> <https://www.scientific.net/KEM.799.173>  
[https://www.eur.eg/record=b5235278\\*est](https://www.eur.eg/record=b5235278*est) Conference proceeding at Scopus Article at Scopus

**Erosion wear of reactive sintered WC-TiC-Co cermets**

**Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart** Engineering materials & tribology XXII 2014 / p. 63-66  
<https://doi.org/10.4028/www.scientific.net/KEM.604.63> Conference proceedings at Scopus Article at Scopus Conference proceedings at WOS Article at WOS

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

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Adoberg, Eron; Lind, Liina; Kurisoo, Liisa; Peetsalu, Priidu** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 212-218 <https://doi.org/10.4028/www.scientific.net/SSP.267.212> Journal metrics at Scopus Article at Scopus

**Evaluation of residual stresses in PVD coatings by means of the curvature method of plate**

Lille, Harri; Ryabchikov, Alexander; **Adoberg, Eron; Kurisoo, Liisa; Peetsalu, Priidu; Lind, Liina** Engineering materials and tribology XXV 2017 / p. 404-408 <https://doi.org/10.4028/www.scientific.net/KEM.721.404> Conference proceedings at Scopus Article at Scopus

**Evaluation of wear rate of nanocrystalline diamond films using Abbott curve**

**Bogatov, Andrei; Podgurski, Vitali** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 185-189 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.267.185> Conference proceedings at Scopus Article at Scopus

**Evolution of TiN coating surface roughness during physical vapor deposition on high speed steel substrate**

**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

**Fabrication of NiO/NiAl<sub>2</sub>O<sub>4</sub> nanofibers by combustion method**

**Aghayan, Marina; Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 31-34 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.31> Conference Proceedings at Scopus Article at Scopus

**Fatigue performance of semiconductor strain gauges in GFRP laminate**

**Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri** Advances in applied materials and electronics engineering III 2014 / p. 244-248 <https://doi.org/10.4028/www.scientific.net/AMR.905.244> Article at Scopus

**Formation of large area Al contacts on 6H- and 4H-SiC substrates**

**Korolkov, Oleg; Rang, Toomas** Silicon Carbide and Related Materials : ECSCRM2000 : proceedings of the 3rd European Conference on Silicon Carbide and Related Materials : Kloster Banz, Germany, September 2000 2001 / p. 603-606 : ill

**Fracture description of AZ61 Mg-Al<sub>2</sub>O<sub>3</sub> materials studied by "in situ tensile test in SEM"**

Besterci, Michal; Nagy, Štefan; Huang, Song-Jeng; Velgosova, Oksana; Sülleiova, Katarina; **Kulu, Priit** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 165-172 : ill  
<https://doi.org/10.4028/www.scientific.net/KEM.674.165> Conference Proceedings at Scopus Article at Scopus

**Graphene covered alumina nanofibers as toughening agent in alumina ceramics**

**Hussainova, Irina; Drozdova, Maria; Aghayan, Marina; Ivanov, Roman; Perez-Coll, Domingo** 13th International Ceramics Congress. Part B 2014 / p. 49-53

**Heat conductive plates from recycled niobium slag**

**Kulu, Priit; Goljandin, Dmitri; Viljus, Mart; Traksmäa, Rainer; Gregor, Andre** Solid State Phenomena ; 320 2021 / p. 169-175  
<https://doi.org/10.4028/www.scientific.net/SSP.320.169> Conference proceedings at Scopus Article at Scopus

**Heat treatment of ultrafine grained AA6061 consolidation by equal channel angular pressing**

**Pramono, Agus; Kollo, Lauri; Kallip, Kaspar; Veinthal, Renno; Gomon, Jaana-Kateriina** Instrumentation and measurement

#### **Heat treatment of ultrafine grained high-strength aluminum alloy**

**Pramono, Agus; Kollo, Lauri; Kallip, Kaspar; Veinthal, Renno; Gomon, Jaana-Kateriina** Engineering materials & tribology XXII 2014 / p. 273-276 : ill <https://doi.org/10.4028/www.scientific.net/KEM.604.273> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **High energy milling of WC-FeCr cemented carbide**

**Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 136-141 : ill <https://www.scientific.net/KEM.799.136> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.136> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **High temperature cyclic impact/abrasion testing of boiler steels**

**Priss, Jelena; Klevtsov, Ivan; Dedov, Andrei; Antonov, Maksim; Rojacz, Harald; Badisch, Ewald** Engineering materials & tribology XXII 2014 / p. 289-292 <https://doi.org/10.4028/www.scientific.net/KEM.604.289> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **High-efficiency internal combustion engine used in the unmanned aircraft**

**Tiimus, Kristjan; Murumäe, Mikk; Väljaots, Eero; Tamre, Mart** Mechatronic systems and materials VI 2015 / p. 928-933 : ill <https://doi.org/10.4028/www.scientific.net/SSP.220-221.928> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **High-voltage diffusion welded stacks on the basis of SiC Schottky diodes**

**Korolkov, Oleg; Sleptšuk, Natalja; Annus, Paul; Land, Raul; Rang, Toomas** Silicon carbide and related materials 2015 (ICSRM 2015) : selected, peer reviewed papers from the 16th International Conference on Silicon Carbide and Related Materials, October 4-9, 2015, Giardini Naxos, Italy 2016 / p. 790-794 : ill <https://doi.org/10.4028/www.scientific.net/MSF.858.790> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Hybrid graphene/alumina nanofibers for electroconductive zirconia**

**Drozdova, Maria; Perez-Coll, Domingo; Aghayan, Marina; Ivanov, Roman; Rodriguez, Miguel Angel; Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 15-20 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.15> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Hybrid syntactic foams of metal - fly ash cenosphere - clay**

**Shishkin, Andrei; Mironovs, Viktors; Zemchenkov, Vjacheslav; Antonov, Maksim; Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 35-40 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.35> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Impact and sliding wear properties of single layer, multilayer and nanocomposite physical vapour deposited (PVD) coatings on the plasma nitrided low-alloy 42CrMo4 steel**

**Surženkov, Andrei; Adoberg, Eron; Põdra, Priit; Sergejev, Fjodor; Mere, Arvo; Viljus, Mart; Mikli, Valdek; Antonov, Maksim; Kulu, Priit** Engineering materials and tribology 2013 / p. 223-228 : ill

#### **Impact of phonon drag effect on Seebeck coefficient in p-6H-SiC : experiment and simulation**

**Bikbajevs, V.; Grivickas, Vytautas; Stölzer, M.; Velme, Enn; Udal, Andres; Grivickas, Paulius; Syväjärvi, Mikael; Yakimova, Rositza** Materials science forum 2003 / p. 407-410 <https://www.scientific.net/MSF.433-436.407> <https://doi.org/10.4028/www.scientific.net/MSF.433-436.407>

#### **Influence of cellulose stearate (CS) content on thermal and rheological properties of poly(lactic acid)/CS composites**

**Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti** Baltic Polymer Symposium 2013 / p. 99-104 <https://doi.org/10.4028/www.scientific.net/KEM.559.99> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

#### **Influence of Cr, Ti and Zr oxides formation on high temperature sliding of NiAl-based plasma spray coatings**

**Poliarus, Olena; Umanskyi, Oleksandr; Ukrainets, Maksym; Kostenko, Oleksii; Antonov, Maksim; Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 308-312 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.308> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Influence of laser hardening to the sliding wear resistance of the PVD (Al,Ti)N-G and nAlCo® coatings**

**Surženkov, Andrei; Adoberg, Eron; Antonov, Maksim; Sergejev, Fjodor; Mikli, Valdek; Viljus, Mart; Latokartano, Jyrki; Kulu, Priit** Engineering materials & tribology XXII 2014 / p. 28-31 <https://doi.org/10.4028/www.scientific.net/KEM.604.28> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

#### **Influence of pressurized sintering on the performance of TiC-based cermets**

**Kübarsepp, Jakob; Klaasen, Heinrich; Tsinjan, Aleksei; Juhani, Kristjan; Kollo, Lauri; Viljus, Mart** Engineering materials and tribology 2013 / p. 56-61 [https://www.researchgate.net/publication/272047524\\_Influence\\_of\\_Pressurized\\_Sintering\\_on\\_Performance\\_of\\_TiC-Based\\_Cermets](https://www.researchgate.net/publication/272047524_Influence_of_Pressurized_Sintering_on_Performance_of_TiC-Based_Cermets)

#### **Influence of surface morphology on the tribological behavior of diamond-like carbon coating**

**Podgurski, Vitali; Bogatov, Andrei; Freund, Martin; Kulu, Priit** Engineering materials and tribology 2013 / p. 83-91 : ill

#### **Influence of the SPD processing features on the nanostructure and properties of a pure niobium**

**Kommel, Lembit; Mikli, Valdek; Traksmäa, Rainer; Saarna, Mart; Pokatilov, Andrei; Pikker, Siim; Kommel, Igor** Materials science forum Nanomaterials by Severe Plastic Deformation: NanoSPD5 : Selected, peer reviewed papers from the 5th International Conference on Nanomaterials by Severe Plastic Deformation, NanoSPD5, held in Nanjing, China, on March 21-25, 2011 2011 / p. 785-790 : ill <https://doi.org/10.4028/www.scientific.net/MSF.667-669.785>

#### **Interaction of point defects with impurities in the Si-SiO<sub>2</sub> system and its influence on the properties of the interface**

**Kropman, Daniel; Mellikov, Enn; Lott, Kalju; Kärner, T.; Heinmaa, I.** Gettering and defect engineering in semiconductor technology XIII : CADEST 2009 : proceedings of the XIIIth International Autumn Meeting, Döllnsee-Schorfheide, north of Berlin, Germany, September 26 - October 02, 2009 2010 / p. 145-148 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

#### **Investigation of additional states in the silicon carbide surface after diffusion welding**

**Mizsei, Janos; Korolkov, Oleg; Sleptšuk, Natalja; Toompuu, Jana; Rang, Toomas** ICSCRM2011 : Cleveland Ohio, USA, September 11-16, 2011 : abstracts 2011 / p. 356 : ill [https://www.researchgate.net/publication/269377410\\_Investigation\\_of\\_Additional\\_States\\_in\\_the\\_Silicon\\_Carbide\\_Surface\\_after\\_Diffusion\\_Welding](https://www.researchgate.net/publication/269377410_Investigation_of_Additional_States_in_the_Silicon_Carbide_Surface_after_Diffusion_Welding)

#### **Investigation of charge carrier lifetime temperature-dependence in 4H-SiC diodes**

**Velmre, Enn; Udal, Andres** Silicon carbide and related materials 2006 2007 / p. 375-378 [https://www.researchgate.net/publication/250348987\\_Investigation\\_of\\_Charge\\_Carrier\\_Lifetime\\_Temperature-Dependence\\_in\\_4H-SiC\\_Diodes](https://www.researchgate.net/publication/250348987_Investigation_of_Charge_Carrier_Lifetime_Temperature-Dependence_in_4H-SiC_Diodes)

#### **Investigation of Devulcanised Crumb Rubber Milling and Deagglomeration in Disintegrator System**

**Lapkovskis, Vjaceslavs; Mironovs, Viktors; Irtiseva, Kristine; Goljandin, Dmitri; Shishkin, Andrei** Key engineering materials 2019 / p. 216-220 <https://doi.org/10.4028/www.scientific.net/KEM.800.216> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Investigation of morphology changes on nanocrystalline diamond film surfaces during reciprocating sliding against Si<sub>3</sub>N<sub>4</sub> balls**

**Bogatov, Andrei; Podgurski, Vitali; Raadik, Taavi; Kamjula, A. R.; Hantschel, Thomas; Tsigkourakos, M.; Kulu, Priit** Engineering materials & tribology XXII 2014 / p. 126-129 <https://doi.org/10.4028/www.scientific.net/KEM.604.126> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Investigation of residual stresses and some elastic properties of brush-plated gold and silver galvanic coatings**

**Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; Reitsnik, Renno; Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Engineering materials and tribology 2013 / p. 125-130 : ill

#### **Investigation of residual stresses in flame sprayed Ni-based wear resistant coatings by the hole-drilling and X-ray methods**

**Ryabchikov, Alexander; Lille, Harri; Reitsnik, Renno; Toropov, Stanislav; Surženkov, Andrei; Kulu, Priit** International Conference on Residual Stresses 9 (ICRS 9) : selected, peer reviewed papers from the 9th International Conference on Residual Stresses (ICRS 9), October 7-9, 2012, Garmisch-Partenkirchen, Germany 2014 / p. 144-149 <https://doi.org/10.4028/www.scientific.net/MSF.768-769.144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Investigation of steam turbine blades damage and reliability in a power plant**

**Molodtsov, Artjom; Dedov, Andrei; Klevtsov, Ivan; Kommel, Lembit; Lausmaa, Toomas; Mikli, Valdek** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 89-94 : ill <https://www.scientific.net/KEM.799.89> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.89> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Investigation of subcontact layers in SiC after diffusion welding**

**Korolkov, Oleg; Kuznetsova, Natalja; Sitnikova, A.; Viljus, Mart; Rang, Toomas** Silicon carbide and related materials 2007 2009 / p. 647-650

#### **Investigation of subcontact layers in SiC after diffusion welding**

**Korolkov, Oleg; Kuznetsova, Natalja; Sitnikova, A.; Viljus, Mart; Rang, Toomas** Silicon carbide and related materials 2007 / p. 100 <https://www.scientific.net/MSF.600-603.647>

#### **Investigation of tribological characteristics of polymers used in medicine**

**Andriushchenko, Ekaterina; Semenova, Vlada; Yuan, Pan** New Materials and Technologies in Mechanical Engineering :

**Measurement and analysis of human lower limbs movement parameters during walking**

**Žigailov, Sergei;** Kuznetsov, Artem; Musalimov, Victor; **Arjassov, Gennadi** Mechatronic systems and materials VI 2015 / p. 538-543  
: ill <https://doi.org/10.4028/www.scientific.net/SSP.220-221.538> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Measurement of charge carrier lifetime temperature-dependence in 4H-SiC power diodes**

**Udal, Andres; Velmre, Enn** Proceedings of the International Conference on Silicon Carbide and Related Materials - 1999 (ICSCRM'99) : Research Triangle Park, North-Carolina, USA, Oct. 10-15, 1999. Vol. 1 2000 / p. 781-784  
<https://www.scientific.net/MSF.338-342.781>

**Measurement of residual stresses in the cold-rolled Fe-Ni-Mn/Invar thermo-bimetallic plate**

Lille, Harri; Kõo, Jakub; Valgur, Jaak; Ryabchikov, Alexander; Reitsnik, Renno; **Veinthal, Renno** International Conference on Residual Stresses 9 (ICRS 9) : selected, peer reviewed papers from the 9th International Conference on Residual Stresses (ICRS 9), October 7-9, 2012, Garmisch-Partenkirchen, Germany Materials science forum 2014 / p. 101-106  
<https://doi.org/10.4028/www.scientific.net/MSF.768-769.101> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

**Mechanical characterization and wear performance of WC–ZrO<sub>2</sub>–Ni cermets produced by hot isostatic pressing**

**Hussainova, Irina; Smirnov, Anton; Antonov, Maksim** Advances in Key Engineering Materials 2011 / p. 344-348 : ill

**Metals microstructure improving under hard cyclic viscoplastic deformation**

**Kommel, Lembit** Nanomaterials by severe plastic deformation IV. Part 1 2008 / p. 361-366 : ill

**Metrological overview for coordinate measuring machines**

**Dhoska, Klodian; Kübarsepp, Toomas; Dorri, Altin; Pramono, Agus** Instrumentation and measurement systems 2015 / p. 195-199 : ill <http://dx.doi.org/10.4028/www.scientific.net/AMM.771.195>

**Microstructure and properties characterization of polycrystalline Ni-Fe-Cr-based superalloy EP-718E after electric upsetting**

**Kommel, Lembit** Engineering materials and tribology XXV 2017 / p. 467-472 <https://doi.org/10.4028/www.scientific.net/KEM.721.467> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Microstructure formation and performance of reactive sintered titanium oxycarbide base ceramic-ceramic composites**

**Juhani, Kristjan; Kübarsepp, Jakob; Tarraste, Marek; Pirso, Jüri; Viljus, Mart** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 131-135 : ill <https://www.scientific.net/KEM.799.131> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est)  
<https://doi.org/10.4028/www.scientific.net/KEM.799.131> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Modeling of photon recycling in GaN-devices**

**Velmre, Enn; Udal, Andres; Klopov, Mihhail** Material Science Forum. 483/485 2005 / p. 1039-1042  
[https://www.researchgate.net/publication/250344144\\_Modeling\\_of\\_Photon\\_Recycling\\_in\\_GaN-Devices](https://www.researchgate.net/publication/250344144_Modeling_of_Photon_Recycling_in_GaN-Devices)

**Modeling of photon recycling in GaN-devices**

**Velmre, Enn; Udal, Andres; Klopov, Mihhail** Silicon carbide and related materials 2004 : ECSCRM 2004 : proceedings of the 5th European Conference on Silicon Carbide and Related Materials, August 31-September 4, 2004, Bologna, Italy 2005 / p. 1039-1042 : ill [https://www.researchgate.net/publication/250344144\\_Modeling\\_of\\_Photon\\_Recycling\\_in\\_GaN-Devices](https://www.researchgate.net/publication/250344144_Modeling_of_Photon_Recycling_in_GaN-Devices)

**Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia**

2019 [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799>

**Modular multi-rotor helicopter platforms**

**Tiimus, Kristjan; Tamre, Mart** Mechatronic systems and materials VI 2015 / p. 110-115 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.220-221.110> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Motion and energy efficiency parameters of the unmanned ground vehicle**

**Väljaots, Eero; Sell, Raivo; Kaeeli, Mati** Mechatronic systems and materials VI 2015 / p. 934-939 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.220-221.934> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Nano- and Micro-Scale simulations of Ge/3C-SiC and Ge/4H-SiC NN-heterojunction diodes**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Silicon Carbide and Related Materials 2019 : 18th International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), Kyoto, Japan, September 29 - October 4, 2019 Materials science forum 2020 / p. 490-496 <https://doi.org/10.4028/www.scientific.net/MSF.1004.490> [Conference proceedings at Scopus](#)



**Nano and micro-scale simulations of Si/4H-SiC and Si/3C-SiC NN-heterojunction diodes**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 357–361  
<https://doi.org/10.4028/www.scientific.net/MSF.963.357> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**New methodology for the antifungal testing of surfactant-free silver metal nanoparticles for applications in green housing**

**Küüna, Siim; Kutti, Sander; Rauwel, Protima; Wragg, David; Hussainova, Irina; Rauwel, Erwan** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 133-138 : ill  
<https://doi.org/10.4028/www.scientific.net/KEM.674.133> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Nonlinear acoustic NDE-qualitative and quantitative effects**

**Engelbrecht, Jüri; Ravasoo, Arvi; Janno, Jaan** Multifunctional materials and structures : selected, peer reviewed papers from International Conference on Multifunctional Materials and Structures : July 28-31, 2008, Hong Kong, P.R.China 2008 / p. 17-20  
<https://www.scientific.net/AMR.47-50.17>

**Nonlinear comparative optimization for biomaterials wear in artificial implant technology**

**Casesnoves, Francisco** Materials science and applied chemistry II : 59th International Scientific Conference of Riga Technical University (RTU), Section of Materials Science and Applied Chemistry - MSAC 2018 2019 / p. 52-59  
<https://doi.org/10.4028/www.scientific.net/KEM.800.52> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Numerical investigation of SiC devices performance considering the incomplete dopant ionization**

**Velme, Enn; Udal, Andres** Silicon carbide and related materials 2005 2006 / p. 1383-1386 <https://www.scientific.net/MSF.527-529.1383>

**Numerical study of current crowding phenomenon in complementary 4H-SiC JBS rectifiers**

**Rang, Toomas; Higelin, G.; Kurel, Raido** Silicon Carbide and Related Materials 2003 2004 / p. 1045-1048  
<https://www.scientific.net/MSF.457-460.1045>

**Optimal design of system of cross-beams**

**Arjassov, Gennadi; Žigailov, Sergei** Mechatronic systems and materials IV 2013 / p. 675-680 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.198.675> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#) [Article at WOS](#)

**Optimization of lift force of mini quadrotor helicopter by changing of gap size between rotors**

**Aleksandrov, Dmitri; Penkov, Igor** Mechatronic systems and materials IV 2013 / p. 226-231 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.198.226> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#) [Article at WOS](#)

**Optimization of structure of hardmetal reinforced iron-based PM hardfacings for abrasive wear conditions**

**Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Goljandin, Dmitri; Tarbe, Riho; Tarraste, Marek; Viljus, Mart** Engineering materials and tribology XXV 2017 / p. 351-355 <https://doi.org/10.4028/www.scientific.net/KEM.721.351> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Performance of cemented carbides in cyclic loading wear conditions**

**Kübarsepp, Jakob; Klaasen, Heinrich; Sergejev, Fjodor** Progress in powder metallurgy. Part 2, Proceedings of the 2006 Powder Metallurgy World Congress & Exhibition (PM2006), Busan, Korea, September 24-28, 2006 2006 / p. 1221-1224 : ill

**Prediction of abrasive erosion impact wear of composite hardfacings**

**Kulu, Priit; Casesnoves, Francisco; Simson, Taavi; Tarbe, Riho** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 201-206  
<https://doi.org/10.4028/www.scientific.net/SSP.267.201> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Preliminary analysis of soft magnetic material properties for additive manufacturing of electrical machines**

**Tiismus, Hans; Kallaste, Ants; Rassõlkin, Anton; Vaimann, Toomas** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 270-275 : ill <https://www.scientific.net/KEM.799.270> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est)  
<https://doi.org/10.4028/www.scientific.net/KEM.799.270> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Preparation of cellulose stearate and cellulose acetate stearate in 1-butyl-3-methylimidazolium chloride**

**Tarasova, Elvira; Šumigin, Dmitri; Kudrjašova, Marina; Krumme, Andres** Baltic Polymer Symposium 2013 / p. 105-110  
<https://doi.org/10.4028/www.scientific.net/KEM.559.105> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

### **Processing and mechanical properties of ZrC-ZrO<sub>2</sub> composites**

**Voltšihhin, Nikolai; Hussainova, Irina; Kübarsepp, Jakob; Traksmäa, Rainer** Engineering materials & tribology XXII 2014 / p. 258-261 <https://doi.org/10.4028/www.scientific.net/KEM.604.258> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Processing of ZrC-TiC composites by SPS**

**Yung, Der-Liang; Hussainova, Irina; Rodriguez, Miguel Angel; Traksmäa, Rainer** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 94-99 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.94> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Production of thermal spray Cr<sub>3</sub>C<sub>2</sub>-Ni powders by mechanically activated synthesis**

**Tkachivskiy, Dmytro; Juhani, Kristjan; Surženkov, Andrei; Kulu, Priit; Viljus, Mart; Traksmäa, Rainer; Jankauskas, Vytenis; Leišys, Rimtautas** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 31-36 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.31> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.31> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **A promising approach to solid-state hydrogen storage : mechanical nanostructuring synthesis of magnesium by high pressure torsion extrusion**

**Omranpour Shahreza, Babak; Sergejev, Fjodor; Ivanisenko, Julia; Huot, Jacques** Advances in science and technology (volume 134). Materials Engineering and Modern Manufacturing, MeMM 2023 : Selected peer-reviewed extended articles based on abstracts presented at the 30th International Baltic Conference "Materials Engineering and Modern Manufacturing 2023", MeMM 2023. Materials science forum 2023 / p. 43-51 <https://doi.org/10.4028/p-4ccBoQ>

### **Pultruding of metal powder filled glass fiber reinforced polymer composites**

**Rummo, Henri; Veinthal, Renno; Aruniit, Aare** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 48-53 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.48> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **PVD of N-CuIn<sub>3</sub>Se<sub>5</sub> photoabsorber films**

**Adhikari, Nirmal; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Traksmäa, Rainer; Tverjanovich, Andrey; Öpik, Andres** Materials and applications for sensors and transducers 2012 / p. 339-342 [https://www.researchgate.net/publication/272070024\\_PVD\\_OF\\_n-CuIn3Se5\\_photoabsorber\\_films](https://www.researchgate.net/publication/272070024_PVD_OF_n-CuIn3Se5_photoabsorber_films)

### **Quasicrystalline composites by additive manufacturing**

**Prashanth, Konda Gokuldoss; Scudino, Sergio** Applied Engineering, Materials and Mechanics III : 4th International Conference on Applied Engineering, Materials and Mechanics (4th ICAEMM 2019) 2019 / p. 72-76 <https://doi.org/10.4028/www.scientific.net/KEM.818.72> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **A quasi-static approach to optimize the motion of an UGV depending on the track profile**

**Corral, Eduardo; Arjassov, Gennadi; Meneses, Jesus** Mechatronic systems and materials VI 2015 / p. 774-780 <https://doi.org/10.4028/www.scientific.net/SSP.220-221.774> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Raman spectroscopy of multilayered AlCrN coating under high temperature sliding/oxidation**

**Baroniš, Janis; Antonov, Maksim; Bereznev, Sergei; Raadik, Taavi; Hussainova, Irina** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 9-14 <https://www.scientific.net/KEM.799.9> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.9> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Reactive sintering of ZrC-TiC composites**

**Yung, Der-Liang; Kollo, Lauri; Hussainova, Irina; Zikin, Arkadi** Engineering materials and tribology 2013 / p. 20-25 [https://www.researchgate.net/publication/234110368\\_Reactive\\_Sintering\\_of\\_ZrC-TiC\\_Composites](https://www.researchgate.net/publication/234110368_Reactive_Sintering_of_ZrC-TiC_Composites)

### **Recycling of niobium slag by disintegrator milling**

**Kulu, Priit; Goltjandin, Dmitri; Külaviir, Jaan; Hain, Tiina;** Kivisto, Mart Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 97-102 : ill <https://www.scientific.net/KEM.799.97> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.97> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Recycling of PA-12 in additive manufacturing and the improvement of its mechanical properties**

**Mägi, Piret; Krumme, Andres; Pohlak, Meelis** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 9-14 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.9> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Relaxation of residual stresses in brush-plated gold and silver coatings on copper and on brass substrates**

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; Sergejev, Fjodor; Dong, Minjie Residual stresses IX 2014 / p. 866-871 : ill <https://doi.org/10.4028/www.scientific.net/AMR.996.866> [Article at Scopus](#) [Article at WOS](#)

### **Screen elements made of perforated steel tape and their application for shielding electromagnetic fields**

Mironovs, Viktors; Koppel, Tarmo; Lisicins, Mihails; Boiko, Irina Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 41-47 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.41> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Selected aspects of current challenges in composite product development for automotive and aerospace industry**

Czichon, Steffen; Köhnke, Jessica; Preisler, Andreas; Herranen, Henrik Composite materials and structures in aerospace engineering 2016 / p. 51-63 <http://dx.doi.org/10.4028/www.scientific.net/AMM.828.51>

### **Selective laser melting of Ti/cBN composite**

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Antonov, Maksim; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 257-262 : ill <https://www.scientific.net/KEM.799.257> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.257> [Conference proceeding at Scopus](#) [Article at Scopus](#)

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

Korolkov, Oleg; Land, Raul; Toompuu, Jana; Sleptsuk, Natalja; Rang, Toomas Silicon carbide and related materials 2017 : ICSCRM 2017 : selected, peer reviewed papers from the 2017 International Conference on Silicon Carbide and related materials, September 17-22, 2017, Washington, DC, USA 2018 / p. 862-865 : ill <https://doi.org/10.4028/www.scientific.net/MSF.924.862> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

Korolkov, Oleg; Kozlovski, Vitali V.; Lebedev, Alexander A.; Land, Raul; Sleptsuk, Natalja; Toompuu, Jana; Rang, Toomas Silicon Carbide and Related Materials 2016 : selected, peer reviewed papers from the 11th European Conference on Silicon Carbide and Related Materials 2016 (ECSCRM 2016), September 25-29, 2016, Halkidiki, Greece 2017 / p. 697-700 : ill <https://doi.org/10.4028/www.scientific.net/MSF.897.697> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Simulation of deep energy traps to explain the VAC temperature dependence anomaly of diffusion welded Schottky contacts**

Koel, Ants; Rang, Toomas; Rang, Galina ICSCRM2011 : Cleveland Ohio, USA, September 11-16, 2011 : abstracts 2011 / p. 340 : ill

### **Simulations of heterostructures based on 3C-4H and 6H-4H silicon carbide polytypes**

Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas Silicon carbide and related materials 2017 : ICSCRM 2017 : selected, peer reviewed papers from the 2017 International Conference on Silicon Carbide and related materials, September 17-22, 2017, Washington, DC, USA 2018 / p. 302-305 : ill <https://doi.org/10.4028/www.scientific.net/MSF.924.302> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Sliding wear of composite stainless steel hardfacing under room and elevated temperature**

Surženkov, Andrei; Baroninš, Janis; Viljus, Mart; Traksmas, Rainer; Kulu, Priit Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 195-200 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.195> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Some comparative properties of diffusion-welded contacts to 6H and 4H silicon carbide**

Korolkov, Oleg; Rang, Toomas Silicon Carbide and Related Materials 2001 : ICSCRM2001 : proceedings of the International Conference on Silicon Carbide and Related Materials 2001, Tsukuba, Japan, October 28 - November 2, 2001. Part 2 2002 / p. 941-944 : ill

### **Structuration of refractory metals tantalum and niobium using modified equal channel angular pressing technique**

Omranpour Shahreza, Babak Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 103-108 : ill <https://www.scientific.net/KEM.799.103> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.103> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Structure and magnetic properties of NdFeB powder prepared by hydrogen decrepitation and high-energy ball milling**

Mural, Zorjana; Kollo, Lauri; Traksmas, Rainer; Kallip, Kaspar; Link, Joosep; Veinthal, Renno Engineering materials & tribology XXII 2014 / p. 262-266 <https://doi.org/10.4028/www.scientific.net/KEM.604.262> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Study of devulcanised crumb rubber-peat bio-based composite for environmental applications**

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Irtiseva, Kristine; **Goljandin, Dmitri** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 148-152 : ill <https://www.scientific.net/KEM.799.148> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.148> Conference proceedings at Scopus Article at Scopus

### **Study of surface defects in 4H-SiC Schottky diodes using a scanning Kelvin probe**

Mizsei, Janos; **Korolkov, Oleg**; **Toompuu, Jana**; **Rang, Toomas** The 9th European Conference on Silicon Carbide and Related Materials : abstract book : St. Petersburg Russia, 2-6 September, 2012 2012 / 2 p. : ill

### **Study of surface defects in 4H-SiC Schottky diodes using a scanning Kelvin probe**

Mizsei, Janos; **Korolkov, Oleg**; **Toompuu, Jana**; **Mikli, Valdek**; **Rang, Toomas** Silicon Carbide and Related Materials 2012 : selected peer reviewed papers from the 9th European Conference on Silicon Carbide and Related Materials (ECSCRM 2012), September 2-6, 2012, St. Petersburg, Russian Federation 2013 / p. 677-680 : ill <https://doi.org/10.4028/www.scientific.net/MSF.740-742.677> Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

### **Surface fatigue of Al-metal matrix composites at impact loading**

**Saarna, Mart**; **Sergejev, Fjodor**; **Gomon, Jaana-Kateriina**; **Kollo, Lauri**; **Leparoux, Marc** Engineering materials and tribology 2013 / p. 119-124 : ill

### **Synthesis of bio-cation-substituted Ca-apatites by precipitation**

**Bogdanoviciene, Irma**; **Tõnsuaadu, Kaia**; **Traksmas, Rainer**; **Kareiva, Aivaras** Inorganic and environmental materials 2014 / p. 229-232 : ill <https://doi.org/10.4028/www.scientific.net/KEM.617.229> Conference proceedings at Scopus Article at Scopus

### **Synthesis of ZrC-TiC blend by novel combination of sol-gel method and carbothermal reduction**

Umalas, Madis; Reedo, Valter; Lõhmus, Ants; **Hussainova, Irina**; **Juhani, Kristjan** Engineering materials and tribology 2013 / p. 62-67 [https://www.researchgate.net/publication/265844548\\_Synthesis\\_of\\_ZrC-TiC\\_Blend\\_by\\_Novel\\_Combination\\_of\\_Sol-Gel\\_Method\\_and\\_Carbothermal\\_Reduction](https://www.researchgate.net/publication/265844548_Synthesis_of_ZrC-TiC_Blend_by_Novel_Combination_of_Sol-Gel_Method_and_Carbothermal_Reduction)

### **ZrC based ceramics by high pressure high temperature SPS technique**

**Aydinyan, Sofiya**; **Minasyan, Tatevik**; **Liu, Le**; **Cygan, Slawomir**; **Hussainova, Irina** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 125-130 : ill [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.125> <https://doi.org/10.4028/www.scientific.net/KEM.799.125> Conference proceeding at Scopus Article at Scopus

### **Technological peculiarities of chromium carbide-based iron alloy bonded cermet**

**Kolnes, Märt**; **Kübarsepp, Jakob**; **Viljus, Mart**; **Traksmas, Rainer** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 82-86 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.82> Conference proceedings at Scopus Article at Scopus

### **The basic parameters of diffusion welded Al Schottky contacts to p- and n-SiC**

**Korolkov, Oleg**; **Ruut, Jana**; **Kuznetsova, Natalja**; **Rang, Toomas** Silicon Carbide and Related Materials 2003 2004 / p. 857-860 <https://doi.org/10.4028/www.scientific.net/MSF.457-460.857>

### **The effect of spark plasma sintering thermal cycle on behaviour of Fe-based hardfacings reinforced with WC and WC-based hardmetal**

Katinas, Egidijus; **Antonov, Maksim**; **Jankauskas, Vytenis**; **Tarraste, Marek** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. [3]-8 : ill [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.3> <https://doi.org/10.4028/www.scientific.net/KEM.799.3> Conference proceeding at Scopus Article at Scopus

### **The influence of processing parameters on mechanical properties of spark plasma sintered chromium carbide based cermets**

**Juhani, Kristjan**; **Pirso, Jüri**; **Tarraste, Marek**; **Viljus, Mart**; **Letunovičs, Sergei** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 162-166 <https://doi.org/10.4028/www.scientific.net/SSP.267.162> Conference proceedings at Scopus Article at Scopus

### **The preparation of TiC/TiN composites by selective laser melting**

**Liu, Le**; **Minasyan, Tatevik**; **Aydinyan, Sofiya**; **Hussainova, Irina** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 165-170 : ill [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.165> <https://doi.org/10.4028/www.scientific.net/KEM.799.165> Conference proceeding at Scopus Article at Scopus



### **The properties of mineral additives obtained by collision milling in disintegrator**

Bumanis, Girts; **Goljandin, Dmitri**; Bajare, Diana Engineering materials and tribology XXV 2017 / p. 327-331  
<https://doi.org/10.4028/www.scientific.net/KEM.721.327> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The rolling contact fatigue of PVD coated spur gears**

Michalczewski, Remigiusz; Piekoszewski, Witold; Szczerek, Marian; Tuszyński, Waldemar; **Antonov, Maksim** Engineering materials and tribology 2013 / p. 77-82  
[https://www.researchgate.net/publication/258178620\\_The\\_Rolling\\_Contact\\_Fatigue\\_of\\_PVD\\_Coated\\_Spur\\_Gears](https://www.researchgate.net/publication/258178620_The_Rolling_Contact_Fatigue_of_PVD_Coated_Spur_Gears)

### **The Schottky parameter test for combined diffusion welded and sputter large area contacts**

**Korolkov, Oleg**; Kuznetsova, Natalja; Rang, Toomas; Syrkin, A.; Dmitriev, V. Silicon carbide and related materials 2007 / p. 737-740 <https://www.scientific.net/MSF.556-557.737>

### **A theoretical study of electron drift mobility anisotropy in n-type 4H- and 6H-SiC**

**Velmre, Enn**; Udal, Andres Materials science forum 2000 / p. 725-728

### **Thermal and kinetic characteristics of some oil shale samples**

**Kaljuvee, Tiit**; Kuusik, Rein, **keemik**; Petkova, Vilma Thermophysics and mass transfer in materials science and construction 2015 / p. 67-74 <http://dx.doi.org/10.4028/www.scientific.net/AMR.1126.67>

### **Thermopower measurements in 4H-SiC and theoretical calculations considering the phonon drag effect**

Grivickas, Vytautas; Stölzer, M.; **Velmre, Enn**; Udal, Andres; Grivickas, Paulius; Syväjärvi, Mikael; Yakimova, Rositza; Bikbajevs, V. Silicon Carbide and Related Materials : ECSCRM2000 : proceedings of the 3rd European Conference on Silicon Carbide and Related Materials : Kloster Banz, Germany, September 2000 2001 / p. 491-494 : ill  
[https://www.researchgate.net/publication/240833914\\_Thermopower\\_Measurements\\_in\\_4H-SiC\\_and\\_Theoretical\\_Calculations\\_Considering\\_the\\_Phonon\\_Drag\\_Effect](https://www.researchgate.net/publication/240833914_Thermopower_Measurements_in_4H-SiC_and_Theoretical_Calculations_Considering_the_Phonon_Drag_Effect)

### **Three-body abrasive wear of reactive sintered WC-Co hardmetals with grain growth inhibitors**

**Juhani, Kristjan**; Pirso, Jüri; Tarraste, Marek; Viljus, Mart; Suurkivi, Taavi Engineering materials & tribology XXII 2014 / p. 277-282 <https://doi.org/10.4028/www.scientific.net/KEM.604.277> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **3D alumina-graphene hybrid nanofibers as a binder-free cathode for rechargeable LiIS batteries**

**Taleb, Masoud**; Ivanov, Roman; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 191-196 : ill  
<https://www.scientific.net/KEM.799.191> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.191> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **3D printing of plain and gradient cermets with efficient use of raw materials**

**Antonov, Maksim**; Ivanov, Roman; Holovenko, Yaroslav; **Goljandin, Dmitri**; Rahmani Ahranjani, Ramin; Kollo, Lauri; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 239-245 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.239>  
[https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **3D printing of plain and gradient cermets with efficient use of raw materials**

**Antonov, Maksim**; Ivanov, Roman; Holovenko, Yaroslav; **Goljandin, Dmitri**; Rahmani Ahranjani, Ramin; Kollo, Lauri; Hussainova, Irina Cermets : aggregated book 2023 / p. 83-90 <https://doi.org/10.4028/b-j9Oly>

### **Tribological and mechanical properties investigations of post-consumer cotton textiles**

**Hussain, Abrar**; Podgurski, Vitali; **Goljandin, Dmitri**; Viljus, Mart; **Antonov, Maksim**; Bogatov, Andrei; Krasnou, Illia Solid state phenomena ; 320 2021 / p. 97-102 <https://doi.org/10.4028/www.scientific.net/SSP.320.97> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Tribological behavior at dry sliding by electric current of Cu-Cr-S alloy after equal channel angular pressing**

**Kommel, Lembit** Engineering materials and tribology XXV 2017 / p. 430-435 <https://doi.org/10.4028/www.scientific.net/KEM.721.430> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Tribological parameters of copper-alumina composite**

Hvizdoš, Pavol; **Kulu, Priit**; Besterčí, Michal Engineering materials and tribology 2013 / p. 191-196  
[https://www.researchgate.net/publication/271863555\\_Tribological\\_Parameters\\_of\\_Copper-Alumina\\_Composite](https://www.researchgate.net/publication/271863555_Tribological_Parameters_of_Copper-Alumina_Composite)

### **2D computational-numerical hardness comparison between fe-based hardfases with WC-Co reinforcements for integral-differential modelling**

**Casesnoves, Francisco** Key engineering materials 2018 / p. 330 - 338 <https://doi.org/10.4028/www.scientific.net/KEM.762.330> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **UFG microstructure processing by ECAP from double electron-beam melted rare metal**

**Kommel, Lembit** Nanomaterials by severe plastic deformation IV. Part 1 2008 / p. 349-354 : ill <https://www.scientific.net/MSF.584-586.349>

#### **Ultrafine cemented carbides with cobalt and iron binders prepared via reactive in situ sintering**

**Tarraste, Marek; Kübarsepp, Jakob; Mere, Arvo; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart** Solid state phenomena ; 320 2021 / p. 176-180 <https://doi.org/10.4028/www.scientific.net/SSP.320.176> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Understanding and control of stress at Si-SiO<sub>2</sub> interface**

**Kropman, Daniel; Seeman, Viktor; Medvids, Arturs; Onufrijevs, Pavels; Vitusevich, Svetlana; Mikli, Valdek** Key engineering materials 2020 / p. 291-296 <https://doi.org/10.4028/www.scientific.net/KEM.850.291> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Universal navigation algorithm planning platform for unmanned systems**

**Sell, Raivo; Leomar, Priit** Mechatronic systems and materials : mechatronic systems and robotics 2010 / p. 405-410 : ill [https://www.researchgate.net/publication/243762582\\_Universal\\_Navigation\\_Algorithm\\_Planning\\_Platform\\_for\\_Unmanned\\_Systems](https://www.researchgate.net/publication/243762582_Universal_Navigation_Algorithm_Planning_Platform_for_Unmanned_Systems)

#### **Unmanned ground vehicle energy efficiency validation in territory surveillance mission**

**Väljaots, Eero; Sell, Raivo;** Rimasauskas, Marius Mechatronic Systems and Materials VII 2016 / p. 164-170 <https://doi.org/10.4028/www.scientific.net/SSP.251.164> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Unmanned ground vehicle SysML navigation model conducted by energy efficiency**

**Väljaots, Eero; Sell, Raivo** Advances in applied materials and electronics engineering III 2014 / p. 443-447 <https://doi.org/10.4028/www.scientific.net/AMR.905.443> [Article at Scopus](#)

#### **Use of selective laser melting for manufacturing the porous stack of a thermoacoustic engine**

**Auriemma, Fabio; Holovenko, Yaroslav** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 246-251 : ill <https://www.scientific.net/KEM.799.246> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.246> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Waist circumference measurement extraction from 3D scanner data**

**Elbrecht, Pirjo; Henno, Jaak;** Palm, Knut-Joosep Industrial materials - applications, products, and technologies : selected, peer reviewed papers from the 2013 World Congress on Industrial Materials – Applications, Products and Technologies (WCIM 2013), April 1-2, 2013, Beijing, China 2013 / p. 725-731 <https://doi.org/978-303785746-5> [Article at Scopus](#)

#### **Wear behavior of ceramic-metal composites as tool material for FSW of copper**

**Kolnes, Mart; Kübarsepp, Jakob; Sergejev, Fjodor; Kolnes, Märt; Tarraste, Marek; Viljus, Mart** Solid state phenomena ; 320 2021 / p. 144-149 <https://doi.org/10.4028/www.scientific.net/SSP.320.144> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Wear behavior of recycled hard particle reinforced NiCrBSi hardfacings deposited by plasma transferred arc (PTA) process**

**Zikin, Arkadi; Hussainova, Irina; Katsich, Christian; Kulu, Priit; Goljandin, Dmitri** Engineering materials and tribology 2013 / p. 179-184 [https://www.researchgate.net/publication/236332219\\_Wear\\_Behaviour\\_of\\_Recycled\\_Hard\\_Particle\\_Reinforced\\_NiCrBSi\\_Hardfacings\\_Deposited\\_by\\_Plasma\\_Transferred\\_Arc\\_PTA\\_Process](https://www.researchgate.net/publication/236332219_Wear_Behaviour_of_Recycled_Hard_Particle_Reinforced_NiCrBSi_Hardfacings_Deposited_by_Plasma_Transferred_Arc_PTA_Process)

#### **Wear rate of nanocrystalline diamond coating under high temperature sliding conditions**

**Yashin, Maxim; Baroninš, Janis; Menezes, Pradeep; Viljus, Mart; Raadik, Taavi; Bogatov, Andrei; Antonov, Maksim; Podgurski, Vitali** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 219-223 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.219> [Conference proceedings at Scopus](#) [Article at Scopus](#)