

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://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 [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 Si₃N₄ balls

Bogatov, Andrei; Traksmäa, 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.; Elisseyev, 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://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 cladded Fe-based composite hardfacings with in situ synthesized Cr and Ti carbide reinforcement

Tkachivskyi, 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://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-SiO₂ 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 MoS₂/Al₂O₃/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; Storozhenko, 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.; Storozhenko, 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.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 (BALTMATRIB & 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 BALTMATRIB 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.ester.ee/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/NiAl₂O₄ 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 (BALTMATRIB & 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-Al₂O₃ 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 (BALTMATRIB & 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 BALTMATTRIB 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://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 (BALTMATTRIB & 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 (BALTMATTRIB & 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 (BALTMATTRIB & 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 nACo® 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

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-SiO₂ 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

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

Velmre, Enn; Udäl, 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

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 Si₃N₄ 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://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–ZrO₂–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://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

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

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://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://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-ZrO₂ composites

Voltšihhin, Nikolai; Hussainova, Irina; Kübarsepp, Jakob; Traksmaa, 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; Traksmaa, 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 Cr₃C₂-Ni powders by mechanically activated synthesis

Tkachivskiy, Dmytro; Juhani, Kristjan; Surženkov, Andrei; Kulu, Priit; Viljus, Mart; Traksmaa, 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.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-CuIn₃Se₅ photoabsorber films

Adhikari, Nirmal; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Traksmaa, 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

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://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

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://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://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://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://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

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.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 hardfacing 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.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**; **Letunovitš, 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.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

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

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://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 [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

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-SiO₂ 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

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://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

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](#)