

#### **Abrasive impact wear resistance of hardfacings**

**Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Simson, Taavi** European Conference on Heat Treatment and 22nd IFHTSE Congress : Heat Treatment and Surface Engineering from tradition to innovation : Venice (Italy), 20-22 May 2015 / [9] p. : ill

#### **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

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

**Kulu, Priit; Tarbe, Riho; Zikin, Arkadi; Sarjas, Heikki; Surženkov, Andrei** Proceedings 20th IFHTSE : International Federation for Heat Treatment and Surface Engineering Congress : Beijing, China, October 23-25, 2012 2012 / p. 541-546

#### **Abrasive wear resistance of the composite Fe alloy - recycled hardmetal based HVOF sprayed coatings**

**Surženkov, Andrei; Sarjas, Heikki; Mikli, Valdek; Tarbe, Riho; Vallikivi, Ahto; Kulu, Priit** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 24

#### **Abrasive-erosive wear of thermally sprayed coatings from experimental and commercial Cr<sub>3</sub>C<sub>2</sub>-based powders**

**Sarjas, Heikki; Surženkov, Andrei; Juhani, Kristjan; Antonov, Maksim; Adoberg, Eron; Kulu, Priit; Viljus, Mart; Traksmäa, Rainer; Matikainen, Ville; Vuoristo, Petri** Journal of thermal spray technology 2017 / p. 2020-2029 : ill <https://doi.org/10.1007/s11666-017-0638-2> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Characterization of coating systems by indentation method**

**Kulu, Priit; Gregor, Andre; Saarna, Mart; Sivitski, Alina; Sergejev, Fjodor; Surženkov, Andrei** Acta metallurgica Slovaca conference 2010 / 1, p. 616-624 : ill

#### **Comparative analysis of residual stresses in flame-sprayed and electrodeposited coatings using substrate deformation and hole-drilling methods**

**Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; Toropov, Stanislav; Veinthal, Renno; Surženkov, Andrei** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 474-479

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

**Tkachivskiy, Dmytro; Viljus, Mart; Traksmäa, 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 surface roughness and tribological behavior during running-in period of hard coatings deposited by lateral rotating cathode arc**

**Podgurski, Vitali; Nisumäa, Reet; Adoberg, Eron; Surženkov, Andrei; Sivitski, Alina; Kulu, Priit** Wear 2010 / p. 751-755 : ill

#### **Comparative study of the PVD coatings on the plasma nitrided steel**

**Surženkov, Andrei; Põdra, Priit; Sergejev, Fjodor; Saarna, Mart; Adoberg, Eron; Mikli, Valdek; Viljus, Mart; Kulu, Priit** Materials science = Medžiagotyra 2012 / p. 40-44 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1339>

#### **Comparison of plasma transferred arc and submerged arc welded abrasive wear resistant composite hardfacings**

**Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Ciuplys, Antanas; Viljus, Mart; Zaldarys, Gintautas** Materials science = Medžiagotyra 2018 / p. 172-176 : ill <https://doi.org/10.5755/j01.ms.24.2.19121> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Comparison of plasma transferred arc and submerged arc welded abrasive wear resistant composite hardfacings [Online resource]**

**Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Bendikiene, Regita; Ciuplys, Antanas; Viljus, Mart** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

#### **Composite powders based on iron self-fluxing alloy and recycled cermet powders for thermal spray**

**Goljandin, Dmitri; Sarjas, Heikki; Kulu, Priit; Surženkov, Andrei; Mikli, Valdek; Käerdi, Helmo** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 40

#### **Corrosion behavior of high velocity oxy-fuel sprayed composite Ni/Fe-based self-fluxing alloy - cermet coatings**

Sarjas, Heikki; **Surženkov, Andrei; Baroninš, Janis; Viljus, Mart; Traksmaa, Rainer; Kulu, Priit** Journal of mineral, metal and material engineering 2018 / p. 1-9 : ill <http://www.scientificarray.org/journal-of-mineral-metal-and-material-engineering-volume-4/>

**Dependence of the friction coefficient on roughness parameters during early stage fretting of (Al,Ti)N coated surfaces**  
**Podgurski, Vitali; Adoberg, Eron; Surženkov, Andrei; Kimmari, Eduard; Viljus, Mart; Mikli, Valdek; Hartelt, M.; Wäsche, R.; Šima, M.; Kulu, Priit** Wear 2011 / p. 853-858 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0043164811001815>

**Development of coarse recycled hardmetal reinforced hardfacings = Taaskasutatava jämekõvasulamarmatuuriga kõvapinnete arendus**  
**Simson, Taavi** 2018 <https://digi.lib.ttu.ee/i/?9946> [https://www.ester.ee/record=b5054964\\*est](https://www.ester.ee/record=b5054964*est)

**Duplex treatment of steel surface = Teras pinna duplekstöötlus**  
**Surženkov, Andrei** 2011

**Effect of basalt addition on tribological performance of FeCrSiB HVOF coatings**  
**Antonov, Maksim; Surženkov, Andrei; Hussainova, Irina; Goljandin, Dmitri; Mikli, Valdek** Estonian journal of engineering 2012 / p. 211-220 : ill [https://artiklid.elnet.ee/record=b2527729\\*est](https://artiklid.elnet.ee/record=b2527729*est)

**Effect of laser heat treatment on AlTi1-xN-based PVD coatings, deposited on carbon and tool steel substrates**  
**Surženkov, Andrei; Viljus, Mart; Antonov, Maksim; Kübarsepp, Jakob; Juhani, Kristjan; Kulu, Priit; Vagiström, Heinar; Jankauskas, Vytenis; Leišys, Rimtautas; Bendikiene, Regita; Adoberg, Eron; Peetsalu, Priidu; Mere, Arvo; Gregor, Andre** Surface and coatings technology 2022 / art. 128771 <https://doi.org/10.1016/j.surfcoat.2022.128771> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

**Erosive wear resistance of nature-inspired flexible materials**  
**Kumar, Rahul, 1993-; Antonov, Maksim; Holovenko, Yaroslav; Surženkov, Andrei** Tribology letters 2020 / art. 51, 8 p. : ill <https://doi.org/10.1007/s11249-020-01296-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Hardfacings for extreme wear applications**  
**Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Saarna, Mart; Tarraste, Marek; Viljus, Mart** Surface Modification Technologies XXVIII : proceedings of the Twenty Eighth International Conference on Surface Modification Technologies : Tampere University of Technology, Tampere, Finland, June 16-18, 2014 2015 / p. 149-157 : ill

**High temperature erosion wear of cermet particles reinforced self-fluxing alloy HVOF sprayed coatings**  
**Surženkov, Andrei; Goljandin, Dmitri; Traksmaa, Rainer; Viljus, Mart; Talviste, Kristofer; Aruniit, Aare; Latokartano, Jyrki; Kulu, Priit** Medžiagotyra = Materials science 2015 / p. 386-390 : ill <https://doi.org/10.5755/j01.ms.21.3.7617> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High-temperature erosion of Fe-based coatings reinforced with cermet particles**  
**Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Kulu, Priit; Viljus, Mart; Traksmaa, Rainer; Mere, Arvo** Surface engineering 2016 / p. 624-630 : ill <https://doi.org/10.1080/02670844.2016.1145377> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**HVOF sprayed Fe-Based wear-resistant coatings with carbide reinforcement, synthesized in situ and by mechanically activated synthesis**  
**Tkachivskyi, Dmytro; Juhani, Kristjan; Surženkov, Andrei; Kulu, Priit; Antonov, Maksim; Goljandin, Dmitri** Coatings 2020 / art. 1092, 15 p. : ill <https://doi.org/10.3390/coatings10111092> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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

**Induction brazing of cermets to steel and eddy current testing of joint quality**  
**Laansoo, Andres; Kübarsepp, Jakob; Surženkov, Andrei; Land, Raul; Märtens, Olev; Viljus, Mart** Welding in the World 2020 / p. 563-571 <https://doi.org/10.1007/s40194-020-00854-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of drag finishing to dry sliding wear behaviour of PVD nanocomposite nACo coating during running-in**  
**Surženkov, Andrei; Podgurski, Vitali; Viljus, Mart; Adoberg, Eron; Nanits, Mats-Maidu; Kulu, Priit; Veinthal, Renno** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 26

**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](#)

**Influence of surface roughness on the tribological behaviour of the PVD coatings**

**Surženkov, Andrei; Adoberg, Eron; Viljus, Mart; Podgurski, Vitali; Veinthal, Renno; Kulu, Priit; Gregor, Andre** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 38

**Inverse methods for computational simulations and optimization of erosion models in power plants : a numerical-sufactal nonlinear optimization of modelling**

**Casesnoves, Francisco; Surženkov, Andrei** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [8] p. : ill <http://dx.doi.org/10.1109/RTUCON.2017.8125630>

**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](#)

**Laser treatment of PVD coated carbon steels and powder steels**

**Surženkov, Andrei; Kulu, Priit; Gregor, Andre;** Vuoristo, Petri; Latokartano, Jyrki; Rupponen, Mikko 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 58

**Laser treatment of PVD coated carbon steels and powder steels**

**Surženkov, Andrei; Kulu, Priit; Gregor, Andre;** Vuoristo, Petri; Latokartano, Jyrki; Rupponen, Mikko Materials science 2008 / p. 301-305 : ill

**Laser treatment of surfaces of tool and PM steels and steels with coatings**

Surženkov, Andrei; **Allikas, Georg; Zimakov, Sergei; Kulu, Priit;** Müller, H. Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 555-560 : ill <http://innomet.ttu.ee/daaam08/online/Materials%20Engineering/Surzhenkov.pdf>

**A mathematical model for abrasive erosion wear in composite Fe-based matrix with WC-Co reinforcement**

**Casesnoves, Francisco; Surženkov, Andrei** Materials and contact characterisation VIII 2017 / p. 99-111 : ill <https://doi.org/10.2495/MC170101> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Mathematical models in biotribology with 2D-3D erosion integral-differential model and computational-optimization/simulation programming - a mathematical model construction based on experimental research**

Casesnoves, Francisco; **Surženkov, Andrei** International journal of scientific research in computer science, engineering and information technology 2017 / p. 329-356 : ill <http://ijsrcseit.com/CSEIT17224010>

**Mathematical models in mechanical and biomedical tribology with computational simulations/optimization methods**

**Casesnoves, Francisco; Surženkov, Andrei** International journal of scientific research in computer science, engineering and information technology 2017 / p. 62-89 : ill <http://ijsrcseit.com/CSEIT17211>

**Microstructure and wear resistance of the laser hardened PM tool steel Vanadis 6**

**Surženkov, Andrei; Kulu, Priit; Viljus, Mart; Vallikivi, Ahto;** Latokartano, Jyrki Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 486-491 : ill

**Optimization of hardmetal reinforcement content in Fe-based hardfacings for abrasive-impact wear conditions**

**Surženkov, Andrei; Tarbe, Riho; Tarraste, Marek; Simson, Taavi; Viljus, Mart; Kulu, Priit** European Conference on Heat Treatment 2016 and 3rd International Conference on Heat Treatment and Surface Engineering in Automotive Applications : 11-13 May 2016, Prague, Czech Republic, Břevnov Monastery 2016 / [10] p. : ill

**Optimization of reinforcement content of powder metallurgy hardfacings in abrasive wear conditions**

**Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Viljus, Mart; Tarraste, Marek; Goljandin, Dmitri** Proceedings of the Estonian Academy of Sciences 2016 / p. 90-96 : ill [https://artiklid.elnet.ee/record=b2768203\\*est](https://artiklid.elnet.ee/record=b2768203*est) <https://doi.org/10.3176/proc.2016.2.03>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal 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](#)

**Pre- and posttreatment effect to the surface properties of thin hard coatings**

**Adoberg, Eron; Surženkov, Andrei; Podgurski, Vitali; Peetsalu, Priidu; Kulu, Priit** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 44

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

**Tkachivskyi, Dmytro; Juhani, Kristjan; Surženkov, Andrei; Kulu, Priit; Viljus, Mart; Traksmas, 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

**Recycled hardmetal-based powder composite coatings : optimisation of composition, structure and properties**

**Kulu, Priit; Käerdi, Helmo; Surženkov, Andrei; Tarbe, Riho; Veinthal, Renno; Goljandin, Dmitri; Zikin, Arkadi** International journal of materials & product technology 2014 / p. 180-202 : ill <https://doi.org/10.1504/IJMP.2014.064038> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Selection of coating systems and processes for different wear conditions**

**Kulu, Priit; Saarna, Mart; Sergejev, Fjodor; Gregor, Andre; Surženkov, Andrei** Proceedings of 14th Nordic Symposium on Tribology : NORDTRIB 2010 : 08.06-11.06.2010, Storforsen, Sweden 2010 / [8] p. [CD-ROM]

**Selection of hardmetal containing hardfacings for different abrasive conditions**

**Kulu, Priit; Surženkov, Andrei; Simson, Taavi; Sarjas, Heikki** European Conference on Heat Treatment 2016 and 3rd International Conference on Heat Treatment and Surface Engineering in Automotive Applications : 11-13 May 2016, Prague, Czech Republic, Břevnov Monastery 2016 / [10] p. : ill

**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

**Sliding wear of HVOF sprayed self-fluxing alloy matrix cermet particles reinforced composite coatings**

**Surženkov, Andrei; Antonov, Maksim; Mikli, Valdek; Latokartano, Jyrki; Vilgo, Timo; Kulu, Priit** BALTTTRIB'2013 : VII International Scientific Conference : 14-15 November 2013, Kaunas, Lithuania : proceedings 2013 / p. 62-66 [https://www.researchgate.net/publication/258862543\\_SLIDING\\_WEAR\\_OF\\_HVOF\\_SPRAYED\\_SELF-FLUXING\\_ALLOY\\_MATRIX\\_CERMET\\_PARTICLES\\_REINFORCED\\_COMPOSITE\\_COATINGS](https://www.researchgate.net/publication/258862543_SLIDING_WEAR_OF_HVOF_SPRAYED_SELF-FLUXING_ALLOY_MATRIX_CERMET_PARTICLES_REINFORCED_COMPOSITE_COATINGS)

**Sliding wear of TiC-NiMo and Cr<sub>3</sub>C<sub>2</sub>-Ni cermet particles reinforced FeCrSiB matrix HVOF sprayed coatings**

**Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Vilgo, Timo; Mikli, Valdek; Viljus, Mart; Latokartano, Jyrki; Kulu, Priit** Estonian journal of engineering 2013 / p. 203-211 : ill <https://doi.org/10.3176/eng.2013.3.03> Article at Scopus

**Steels, hardmetals and hardfacings for abrasive wear applications**

**Kulu, Priit; Tarbe, Riho; Saarna, Mart; Surženkov, Andrei; Peetsalu, Priidu; Viljus, Mart** European Conference on Heat Treatment and 21st IFHTSE Congress : May, 12th-15th, 2014, Munich, Germany : proceedings 2014 / p. 449-456 : ill

**Structure and properties of HVOF-sprayed and PTA-welded cermet hard phase reinforced Fe-matrix based coatings**

**Kulu, Priit; Zikin, Arkadi; Surženkov, Andrei; Tarbe, Riho** 2nd Mediterranean Conference & New Challenges on Heat Treatment and Surface Engineering : Dubrovnik-Cavtat, Croatia, 11-14 June 2013 2013 / p. 37-44 <https://www.inderscienceonline.com/doi/abs/10.1504/IJMMP.2014.061054>

**Structure and properties of HVOF-sprayed and PTA-welded cermet hard phase reinforced Fe-matrix-based coatings**

**Kulu, Priit; Zikin, Arkadi; Surženkov, Andrei; Tarbe, Riho** International journal of microstructure and materials properties 2014 / p. 4-14 <https://doi.org/10.1504/IJMMP.2014.061054> Journal metrics at Scopus Article at Scopus

**Study of submerged and plasma arc welded composite hardfacings with a novel Cr<sub>3</sub>C<sub>2</sub>-Ni reinforcement**

**Bendikiene, Regita; Surženkov, Andrei; Tkachivskyi, Dmytro; Juhani, Kristjan; Viljus, Mart; Traksmas, Rainer; Antonov, Maksim; Kulu, Priit** Proceedings of the Estonian Academy of Sciences 2019 / p. 150-157 : ill <https://doi.org/10.3176/proc.2019.2.06> [http://www.kirj.ee/public/proceedings\\_pdf/2019/issue\\_2/proc-2019-2-150-157.pdf](http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-150-157.pdf) Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**The study of the laser hardening parameters on the structure and the mechanical properties of the PM steel Vanadis 6**

**Surženkov, Andrei; Latokartano, Jyrki; Vuoristo, Petri; Kulu, Priit; Viljus, Mart; Vallikivi, Ahto** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 67

**Tribological behavior of carbon nanofibers deposited on hard nanocomposite (nc-Ti<sub>1-x</sub>Al<sub>x</sub>N)/(a-Si<sub>3</sub>N<sub>4</sub>) coating**

**Kimmari, Eduard; Podgurski, Vitali; Simunin, M.; Adoberg, Eron; Surženkov, Andrei; Viljus, Mart; Hartelt, M.; Wäsche, R.; Sildos, Ilmo; Kulu, Priit** Surface & coatings technology 2013 / p. 21-25 : ill <https://doi.org/10.1016/j.surfcoat.2013.03.011> <https://www.sciencedirect.com/science/article/pii/S0257897213002636?via%3Dihub> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Wear behaviour of Cr3C2-Ni cermet reinforced hardfacings**

Bendikiene, Regita; Ciuplys, Antanas; Sertytis, Rolandas; **Surženkov, Andrei; Tkachivskyi, Dmytro; Viljus, Mart; Traksmas, Rainer; Antonov, Maksim; Kulu, Priit** Journal of materials research and technology 2020 / p. 7068-7078 : ill  
<https://doi.org/10.1016/j.jmrt.2020.05.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Wear properties of duplex treated surfaces**

**Kulu, Priit; Surženkov, Andrei; Saarna, Mart** 1st Mediterranean Conference on Heat Treatment and Surface Engineering : Heat Treatment and Surface Engineering in the Manufacturing of Metallic Engineering Components : December 1-3, 2009, Sharm El-Sheikh, Egypt 2009 / p. 56

**Wear resistance and mechanisms of composite hardfacings at abrasive impact erosion wear**

**Surženkov, Andrei; Viljus, Mart; Simson, Taavi; Tarbe, Riho; Saarna, Mart; Casesnoves, Francisco** Journal of physics : conference series 2017 / art. 012060, p. 1-10 : ill <https://doi.org/10.1088/1742-6596/843/1/012060> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Wear resistance and selection of steels, hardmetals and hardfacings for abrasive wear conditions**

**Kulu, Priit; Tarbe, Riho; Saarna, Mart; Surženkov, Andrei; Peetsalu, Priidu; Talviste, Kristofer** International journal of microstructure and materials properties 2015 / p. 101-113 <https://doi.org/10.1504/IJMM.2015.068718> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Wear resistance of laser clad thermal sprayed coatings**

**Surženkov, Andrei; Kulu, Priit; Tarbe, Riho; Mikli, Valdek; Sarjas, Heikki; Latokartano, Jyrki** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 64

**Wear resistance of laser remelted thermally sprayed coatings**

**Surženkov, Andrei; Kulu, Priit; Tarbe, Riho; Mikli, Valdek; Sarjas, Heikki; Latokartano, Jyrki** Estonian journal of engineering 2009 / 4, p. 318-328 : ill

**Wear resistance of sintered composite hardfacings under different abrasive wear conditions**

**Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Goljandin, Dmitri; Tarraste, Marek; Viljus, Mart; Traksmas, Rainer** Medžiagotyra = Materials science 2017 / p. 249-253 : ill <https://doi.org/10.5755/j01.ms.23.3.17640> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Wear resistant self-fluxing alloy based TiC-NiMo and Cr2C3-Ni hardmetal particles reinforced composite coatings**

**Surženkov, Andrei; Vallikivi, Ahto; Mikli, Valdek; Viljus, Mart; Vilgo, Timo; Kulu, Priit** Proceedings of the 2nd International Scientific Conference Manufacturing Engineering & Management 2012 : ICMEM 2012 2012 / p. 33-36 : ill  
[https://www.researchgate.net/publication/262731588\\_WEAR\\_RESISTANT\\_SELF-FLUXING\\_ALLOY\\_BASED\\_TIC-NIMO\\_AND\\_CR2C3-NI\\_HARDMETAL\\_PARTICLES\\_REINFORCED\\_COMPOSITE\\_COATINGS](https://www.researchgate.net/publication/262731588_WEAR_RESISTANT_SELF-FLUXING_ALLOY_BASED_TIC-NIMO_AND_CR2C3-NI_HARDMETAL_PARTICLES_REINFORCED_COMPOSITE_COATINGS)

**Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders**

**Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 25

**Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders**

**Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei; Vuoristo, Petri** Materials science = Medžiagotyra 2012 / p. 34-39 : ill <https://matssc.ktu.lt/index.php/MatSc/article/view/1338>