

Abrasive impact wear and surface fatigue wear behaviour of Fe-Cr-C PTA overlays

Veinthal, Renno; Sergejev, Fjodor; Zikin, Arkadi; Tarbe, Riho; Hornung, J. 19th International Conference on Wear of Materials : Portland, Oregon, USA, 14-18 April 2013 : conference abstracts 2013 / [p. 98]

Abrasive impact wear and surface fatigue wear behaviour of Fe-Cr-C PTA overlays

Veinthal, Renno; Sergejev, Fjodor; Zikin, Arkadi; Tarbe, Riho; Hornung, Johann Wear 2013 / p. 102-108

<https://www.sciencedirect.com/science/article/pii/S0043164813000999> <https://doi.org/10.1016/j.wear.2013.01.077> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of CMCs with bimodal microstructure

Maurya, Himanshu Singh; Vikram, R. J.; Kosiba, Konrad; Juhani, Kristjan; Sergejev, Fjodor; Suwas, Satyam; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 168416, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2022.168416> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of TiC-based cermet with stainless steel as a binder material

Maurya, Himanshu Singh; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Materials today: proceedings 2022 / p. 824-828 <https://doi.org/10.1016/j.matpr.2022.02.428> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Additive manufacturing of TiC-based cermets : a detailed comparison with spark plasma sintered samples

Maurya, Himanshu Singh; Jayaraj, Jayamani; Vikram, Raja Jothi; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 170436 <https://doi.org/10.1016/j.jallcom.2023.170436> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of TiC-based cermets with Fe-based binders using novel laser scan techniques =

Titaankarbiidsete Fe-baasil sideainega kermiste valmistamine uudse laserskaneeriva kihtlisandustehnoloogia teel

Maurya, Himanshu Singh 2023 <https://doi.org/10.23658/taltech.61/2023> <https://digikogu.taltech.ee/et/Item/3dad7b12-4a7a-4c9d-8162-30388c52bf5e> https://www.ester.ee/record=b5645217*est

Adhesive wear of WC- and TiC-based friction stir welding tool materials for aluminium alloy welding [Electronic resource]

Kolnes, Mart; Kübarsepp, Jakob; Sergejev, Fjodor; Kolnes, Märt European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / 6 p. : ill. [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

Advanced machine learning and experimental studies of polypropylene based polyesters tribological composite systems for sustainable recycling automation and digitalization

Hussain, Abrar; Kübarsepp, Jakob; Sergejev, Fjodor; Goljandin, Dmitri; Hussainova, Irina; Podgurski, Vitali; Karjust, Kristo; Maurya, Himanshu Singh; Rahmani Ahranjani, Ramin; Sinka, Maris International journal of lightweight materials and manufacture 2025 / p. 252-263 <https://doi.org/10.1016/j.ijlmm.2024.11.001>

Analysis of the reciprocal wear testing of Aluminum AA1050 processed by a novel mechanical nanostructuring technique

Omranpour Shahreza, Babak; Kommel, Lembit; Sergejev, Fjodor; Ivanisenko, Yulia; Antonov, Maksim IOP conference series : materials science and engineering 2021 / art. 012051, 6 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012051>

Application issues of additive manufacturing in plaster mold casting of metals

Pohlak, Meelis; Sergejev, Fjodor; Tähemaa, Toivo; Saarna, Mart; Viljus, Mart; Hermaste, Aigar Proceedings of the Estonian Academy of Sciences 2025 / p. 181-185 <https://doi.org/10.3176/proc.2025.2.18>

Application of the indentation method for cracking resistance evaluation of hard coatings on tool steels

Sivitski, Alina; Gregor, Andre; Saarna, Mart; Kulu, Priit; Sergejev, Fjodor Estonian journal of engineering 2009 / 4, p. 309-317 : ill

Application of the Murakami approach for prediction of surface fatigue of cemented carbides

Sergejev, Fjodor; Kübarsepp, Jakob; Preis, Irina Extended abstracts of 2006 Powder Metallurgy World Congress : Busan, Korea, September 24-28. 1 2006 / p. 633-634 <https://koreascience.kr/article/CFKO200617317789652.page>

Assessment of gradient and nanogradient PVD coatings behaviour under erosive, abrasive and impact wear conditions

Antonov, Maksim; Hussainova, Irina; Sergejev, Fjodor; Kulu, Priit; Gregor, Andre Wear 2009 / p. 898-906 : ill

Assessment of residual stresses in steels and carbide composites by load and depth sensing indentation with spherical indenter

Sergejev, Fjodor; Petrov, Mihail Estonian journal of engineering 2012 / p. 259-269 : ill

Behaviour of carbide composites in different operation conditions

Kübarsepp, Jakob; Klaasen, Heinrich; Viljus, Mart; Traksmäa, Rainer; Sergejev, Fjodor Powder metallurgy progress 2011 / p. 258-264 : ill

Binder jetting 3D printing of green TiC-FeCr based cermets- Effect of sintering temperature and systematic comparison study with Laser powder bed fusion fabricated parts

Maurya, Himanshu Singh; Marczyk, J.; Juhani, Kristjan; Sergejev, Fjodor; Kumar, R.; Hussain, Abrar; Akhtar, F.; Hebda, M.; Prashanth, Konda Gokuldoss Materials Today Advances 2025 / art. 100562 <https://doi.org/10.1016/j.mtadv.2025.100562>

Blanking performance and fatigue endurance of carbide composites

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina; Sergejev, Fjodor; Traksmaa, Rainer Proceedings of 10th International Conference and Exhibition of the European Ceramic Society : June 17-21, 2007, Berlin 2007 / [4] p

Cemented carbides surface fatigue prediction using Murakami approach

Sergejev, Fjodor; Preis, Irina; Kübarsepp, Jakob; Klaasen, Heinrich Proceedings of EURO PM 2006 Congress & Exhibition : Ghent, Belgium, 23-26 Oct. 2006. 1 2006 / p. 61-66

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

Circular production, designing, and mechanical testing of polypropylene-based reinforced composite materials : statistical analysis for potential automotive and nuclear applications

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Sergejev, Fjodor; Krasnou, Illia Polymers 2023 / art. 3410, 30 p. : ill <https://doi.org/10.3390/polym15163410> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cobalt- and nickel-free titanium and chromium carbide-based cermets = Koobalti- ja nikli-vabad titaankarbiid- ja kroomkarbiidkermised

Kolnes, Märt 2018 <https://digi.lib.ttu.ee/i/?9960> https://www.ester.ee/record=b5138030*est

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

Lille, Harri; Kõo, Jakob; 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 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 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>

Comparative study on indentation fracture toughness measurements of cemented carbides

Sergejev, Fjodor; Antonov, Maksim 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 50-51 : ill

Comparative study on indentation fracture toughness measurements of cemented carbides

Sergejev, Fjodor; Antonov, Maksim Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 388-398 : ill

Comparative study on indentation fracture toughness measurements of cermets and hardmetals

Sergejev, Fjodor Proceedings of EURO PM 2006 Congress & Exhibition : Ghent, Belgium, 23-26 Oct. 2006. 1 2006 / p. 43-48

Comparison of curvature and X-Ray methods for measuring of residual stresses in hard PVD coatings

Lille, Harri; Kõo, Jakob; Gregor, Andre; Ryabchikov, Alexander; Sergejev, Fjodor; Traksmaa, Rainer; Kulu, Priit Materials science forum 2011 / p. 455-460

Comparison of some mechanical and physical methods for measurement of residual stresses in brush-plated nickel hardened gold and silver coatings

Lille, Harri; Kõo, Jakob; Ryabchikov, Alexander; Reitsnik, Renno; Sergejev, Fjodor; Matvejev, Dmitri Materials science = Medžiagotyra 2016 / p. 36-40 : ill <https://doi.org/10.5755/j01.ms.22.1.7439> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of values of residual stresses determined by various methods in hard nickel coatings prepared by brush-plating in sulfate solution

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakob; Reitsnik, Renno; Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 680-687 : ill

Correlation between surface fatigue and microstructural defects of cemented carbides

Sergejev, Fjodor; Preis, Irina; Kübarsepp, Jakob; Antonov, Maksim Wear 2007 / 9, p. 770-774 : ill

Correlation between surface fatigue and microstructural defects of cemented carbides

Sergejev, Fjodor; Preis, Irina; Kübarsepp, Jakob; Antonov, Maksim NORDTRIB 2006 : 12th Nordic Symposium in Tribology : Helsingor, Denmark, 7-9 June 2006 2006 / p. 68

Correlation between surface fatigue and microstructural defects of cemented carbides : experimental validation

Sergejev, Fjodor; Preis, Irina; Kübarsepp, Jakob Book of abstracts : International Symposium on Fatigue Design and Material Defects : Trondheim, Norway, 23-25 May 2011 2011 / p. 32-33

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

Determination of modulus of elasticity, nanohardness and residual stresses in brush-plated gold and silver coatings on copper substrate

Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; **Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Materials science = Medžiagotyra 2012 / p. 51-56 : ill

https://www.researchgate.net/publication/266348938_Determination_of_Modulus_of_Elasticity_Nanohardness_and_Residual_Stresses_in_Brush-plated_Gold_and_Silver_Coatings_on_Copper_Substrate

Determination of the mechanical properties of carbide composites by spherical indentation

Sergejev, Fjodor; Petrov, Mihhail; Kübarsepp, Jakob Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 723-728 : ill

Durability of WC-CO hardmetals and TiC-based cermets : investigation of the fatigue mechanics aspects of PM hardmetals and cermets

Sergejev, Fjodor 2010 <https://www.amazon.com/Durability-WC-CO-Hardmetals-TiC-based-Cermets/dp/383645632X>

EBSI investigation of microstructure and microtexture evolution on additively manufactured TiC-Fe based cermets—Influence of multiple laser scanning

Maurya, Himanshu Singh; Vikram, R. J.; Kumar, Rahul, 1993-; Rahmani Ahranjani, Ramin; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Micron 2024 / art. 103613 <https://doi.org/10.1016/j.micron.2024.103613> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of carbide phase and binder chemical composition on surface fatigue of carbide composites [Electronic resource]

Petrov, Mihhail; Kübarsepp, Jakob; Sergejev, Fjodor; Viljus, Mart Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [6] p. : ill. [USB]

Effect of high-force impulse loads on the modification of mechanical properties of heat-resistant steel after service

Chausov, Mykola; Maruschak, Pavlo; Pylypenko, Andriy; Sergejev, Fjodor; Student, Oleksandra Estonian journal of engineering 2012 / p. 251-258 : ill

Effect of microstructure and residual stresses on the wear resistance and durability of steel bonded TiC cermets

Sergejev, Fjodor; Klaasen, Heinrich; Kübarsepp, Jakob; Traksmäa, Rainer Abstracts of International Conference on Fatigue Damage of Structural Materials - ICFDSM VIII, 18-24 September 2010 2010 / [1] p

Effect of powder bed preheating on the crack formation and microstructure in ceramic matrix composites fabricated by laser powder-bed fusion process

Maurya, Himanshu Singh; Kosiba, Konrad; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Additive manufacturing 2022 / art. 103013, 13 p. : ill <https://doi.org/10.1016/j.addma.2022.103013> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Maurya, Himanshu Singh; Kollo, Lauri; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Ceramics international 2022 / p. 20612-20618 <https://doi.org/10.1016/j.ceramint.2022.04.029> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of residual stresses on the surface fatigue of TiC-based carbide composites

Sergejev, Fjodor; Klaasen, Heinrich; Kübarsepp, Jakob Proceedia engineering 2011 / p. 3152-3161 : ill

Effect of sintering method on surface fatigue of carbide composites

Petrov, Mihhail; 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 the laser processing parameters on the selective laser melting of TiC–Fe-based cermets

Maurya, Himanshu Singh; Kollo, Lauri; Tarraste, Marek; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss

Journal of manufacturing and materials processing 2022 / art. 35, 11 p. : ill <https://doi.org/10.3390/jmmp6020035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ei meelita ka 3000-eurone palk. Eestis valitseb tõsine inseneride puudus

Kübarsepp, Iris; Jõesaar, Jete-Ri delfi.ee 2024 [Ei meelita ka 3000-eurone palk. Eestis valitseb tõsine inseneride puudus](#)

Ei ole uus maja, ega ka uus õppeasutus. Terje Haidak tutvustab uut haridusprojekti nimega Inseneriakadeemia

Haidak, Terje digi.geenius.ee 2024 [Ei ole uus maja, ega ka uus õppeasutus. Terje Haidak tutvustab uut haridusprojekti nimega](#)

[Inseneriakadeemia](#) [INSENERIAKADEEMIA ON HOO SISSE SAANUD](#)

Enhancing project-based learning through the integration of computer aided manufacturing and metal shaping technologies courses

Pohlak, Meelis; Kase, Kärt; Sergejev, Fjodor; Pahk, Liisa Futureproofing Engineering Education for Global Responsibility :

Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL 2024) ; vol. 3 2025 / p. 430-441

https://doi.org/10.1007/978-3-031-83523-0_40

Estimation of buttons resistance to rock drilling using laboratory surface fatigue test

Antonov, Maksim; Karlsson, L.; Sergejev, Fjodor; Hussainova, Irina Proceedings of 37th Leeds-Lyon symposium on Tribology : Leeds, 7th-10th September 2010 2010 / [1] p

Estimation of the endurance limit of cemented carbides based on pore size

Preis, Irina; Gray, Marquis; Sergejev, Fjodor Proceedings of Fatigue 2006, the 9th International Fatigue Congress : Atlanta, GA, 14-19 May 2006 2006 / [9] p. : ill

Evaluation of mechanical properties and residual stresses of hard PVD coatings

Gregor, Andre; Lille, Harri; Kõo, Jakob; Sergejev, Fjodor; Traksmäa, Rainer; Sivitski, Alina; Kulu, Priit 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 34

Experimental analysis of end mill axis inclination and its influence on 3D areal surface texture parameters

Logins, Andris; Rosado Castellano, Pedro; Torims, Toms; Gutierrez, Santiago C.; Sergejev, Fjodor Proceedings of the Estonian

Academy of Sciences 2017 / p. 194-201 : ill <https://doi.org/10.3176/proc.2017.2.09> http://www.ester.ee/record=b2355998*est

https://artiklid.elnet.ee/record=b2820942*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fatigue mechanics of carbide composites

Sergejev, Fjodor; Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina International journal of materials & product technology 2011 / p. 140-163 : ill

Fatigue mechanics of TiC-based cemented carbides

Sergejev, Fjodor; Preis, Irina; Hussainova, Irina; Kübarsepp, Jakob Proceedings of the Institution of Mechanical Engineers. Part J, Journal of engineering tribology 2008 / p. 201-209 : ill <http://dx.doi.org/10.1243/13506501JET342>

Fatigue performance of carbide composites

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina; Sergejev, Fjodor EURO PM2005 : congress & exhibition : 2-5 October 2005, Prague, Czech Republic : proceedings. Volume 1 2005 / p. 323-328 : ill

Fatigue strength prediction of carbide composites by considering pores to be equivalent to small defects : effect of hot isostatic pressing

Sergejev, Fjodor; Preis, Irina; Kübarsepp, Jakob Book of abstracts : International Symposium on Fatigue Design and Material Defects : Trondheim, Norway, 23-25 May 2011 2011 / p. 41-42

Fjodor Sergejev: insenerid on tuleviku loojad

Sergejev, Fjodor 2025

Fjodor Sergejev: majandus ei kasva, kui meil pole nutikaid insenere

Sergejev, Fjodor [err.ee](https://www.err.ee/1609714272/fjodor-sergejev-majandus-ei-kasva-kui-meil-pole-nutikaid-insenere) 2025 <https://www.err.ee/1609714272/fjodor-sergejev-majandus-ei-kasva-kui-meil-pole-nutikaid-insenere>

Formation of property gradient in coarse-grained niobium using a wedge tool : experiment and analysis

Tarasov, Oleksandr; Kübarsepp, Jakob; Viljus, Mart; Saarna, Mart; Sergejev, Fjodor International journal of refractory metals and hard materials 2024 / art. 106905 <https://doi.org/10.1016/j.jrmhm.2024.106905>

Forming ability of the WC-based ceramic metal composites with different Fe-based binders by unique laser beam modulation

Maurya, Himanshu Singh; Juhani, Kristjan; Sergejev, Fjodor; Kumar Yadav, Mayank; Hussain, Abrar; Prashanth, Konda Gokuldoss Next Materials 2025 / art. 100524 <https://doi.org/10.1016/j.nxmte.2025.100524>

Fracture toughness of ceramics fired at different temperatures

Sin, Peter; **Veinthal, Renno; Sergejev, Fjodor; Antonov, Maksim**; Stubna, Igor Materials science = Medžiagotyra 2012 / p. 90-92 : ill https://www.researchgate.net/publication/268257498_Fracture_Toughness_of_Ceramics_Fired_at_Different_Temperatures

Head lõpetajad! = Dear graduates!

Land, Tiit; Sergejev, Fjodor; Jervan, Gert; Salupere, Andrus; Listra, Enn; Leiger, Roomet Mente et Manu 2021 / lk. 30-50 : fot https://www.ester.ee/record=b1242496*est

High-temperature oxidation resistance and tribological properties of Al₂O₃/ta-C coating

Alamgir, Asad; Bogatov, Andrei; Jõgiaas, Taivo; **Viljus, Mart; Raadik, Taavi; Kübarsepp, Jakob; Sergejev, Fjodor**; Lümkmann, Andreas; Kluson, Jan; **Podgurski, Vitali** Coatings 2022 / art. 547 <https://doi.org/10.3390/coatings12040547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-temperature tribological performance of Al₂O₃/a-C:H:Si coating in ambient air

Podgurski, Vitali; Alamgir, Asad; Yashin, Maxim; Jõgiaas, Taivo; **Viljus, Mart; Raadik, Taavi; Danilson, Mati; Sergejev, Fjodor**; Lümkmann, Andreas; Kluson, Jan; Sondor, Jozef; **Bogatov, Andrei** Coatings 2021 / art. 495, 15 p. : ill <https://doi.org/10.3390/coatings11050495> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-temperature tribological performance of hard multilayer TiN-AlTiN/nACo-CrN/AlCrN-AlCrO-AlTiCrN coating deposited on WC-Co substrate

Alamgir, Asad; Yashin, Maxim; Bogatov, Andrei; Viljus, Mart; Traksmaa, Rainer; Sondor, Jozef; Lümkmann, Andreas; **Sergejev, Fjodor; Podgurski, Vitali** Coatings 2020 / art. 909, 10 p. : ill <https://doi.org/10.3390/coatings10090909> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Indentation method application for cracking resistance evaluation of hard coatings on tool steels

Sivitski, Alina; Gregor, Andre; Saarna, Mart; Kulu, Priit; Sergejev, Fjodor 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 51

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

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

Omranpour Shahreza, Babak; Hernandez-Rodriguez, Marco A. L.; Hernandez-Rodriguez, Edgar; **Kommel, Lembit; Sergejev, Fjodor** Tribology international 2022 / art. 107412 <https://doi.org/10.1016/j.triboint.2021.107412> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact of Nb content on the morphology and properties of Ti (C_{0.5}N_{0.5})-FeCrMo-based green cermets

Maurya, Himanshu Singh; Tarraste, Marek; Viljus, Mart; Juhani, Kristjan; Sergejev, Fjodor; Kübarsepp, Jakob Ceramics international 2024 / 10 p <https://doi.org/10.1016/j.ceramint.2024.11.188>

Impact wear performance of thin hard coatings on TiC cermets

Veinthal, Renno; Sergejev, Fjodor; Yaldiz, Can Emrah; **Mikli, Valdek** 18th IFHTSE Congress : 2010 July 26th to 30th, Rio de Janeiro, Brazil 2010 / p. 5046-5056 : ill. [CD-ROM]

Impact wear performance of thin hard coatings on TiC cermets

Veinthal, Renno; Sergejev, Fjodor; Yaldiz, Can Emrah; **Mikli, Valdek** Journal of ASTM International 2011 / [10] p

Industrial sustainable fabrication, SEM characterization, mechanical testing, ANOVA analysis of PP-PETF recycled composites : artificial intelligence and deep learning studies for nuclear shielding applications

Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Yörük, Can Rüstü; Sergejev, Fjodor; Kübarsepp, Jakob; Maurya, Himanshu Singh; Rahmani Ahranjani, Ramin European polymer journal 2024 / art. 113082 <https://doi.org/10.1016/j.eurpolymj.2024.113082>

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

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

Inseneriteaduskond võimestab koostööd ettevõtetega

Mätlik, Eva-Liina TööstusEST 2025 / lk. 9 https://www.ester.ee/record=b4481084*est

Inseneriteaduskonna dekaan: noori insenere ei tasu liiga vara koolipingist tööle meelitada, Leedu ajab õiget asja

Puusild, Harro toostusuudised.ee 2023 [Inseneriteaduskonna dekaan: noori insenere ei tasu liiga vara koolipingist tööle meelitada, Leedu ajab õiget asja](https://www.toostusuudised.ee/inseneriteaduskonna-dekaan-noori-insenere-ei-tasu-liiga-vara-koolipingist-toole-meelitada-leedu-ajab-oi-get-asja)

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

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

Investigation of some properties of brush-plated gold and silver galvanic coatings

Lille, Harri; Kõo, Jakob; Ryabchikov, Alexander; Reitsnik, Renno; **Mikli, Valdek; Sergejev, Fjodor** Proceedings of the 2nd International Conference Optimization and Analysis of Structures : Tartu, Estonia, August 25-27, 2013 2013 / p. 101-107 : ill

Investigation of the fatigue mechanics aspects of PM hardmetals and cermets = Pulberkõvasulamite ja -kermiste väsimusmehaanika aspektide uurimine

Sergejev, Fjodor 2007 https://www.ester.ee/record=b2350243*est

Investigation of the surface fatigue of carbide composites and PVD hard coatings

Sergejev, Fjodor; Antonov, Maksim; Gregor, Andre; Hussainova, Irina; Kulu, Priit; Kübarsepp, Jakob Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 543-548 : ill <http://innomet.ttu.ee/daaam08/online/Materials%20Engineering/Sergejev.pdf>

Investigation of the tribological behavior of the additively manufactured TiC-based cermets by scratch testing

Maurya, Himanshu Singh; Jayaraj, Jayamani; Wang, Z.; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 170496, 9 p. : ill <https://doi.org/10.1016/j.jallcom.2023.170496> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

12 uut positsiooni

Salupere, Andrus; Sergejev, Fjodor; Kallaste, Kadri; Pihel, Hele-Riin; Tärnov, Külle; Anton, Maia-Liisa; Annus, Ivar; Kanger, Tõnis; Kerikmäe, Tanel; Illing, Sven; Uutar, Aivar Mente et Manu 2020 / lk. 54-59 : portr https://www.ester.ee/record=b1242496*est <https://dea.digar.ee/article/AKmentetmanu/2020/09/0/21.1>

Kõige kõrgema palgaga insenerialadel on ka suurim töökäte puudus

Annus, Ivar; Sergejev, Fjodor; Voll, Hendrik postimees.ee 2024 [Kõige kõrgema palgaga insenerialadel on ka suurim töökäte puudus](https://postimees.ee/koige-koergema-palgaga-insenerialadel-on-ka-suurim-tookaete-puudus)

Local tribo-mechanical properties of TiC-based cermets by nanoindentation

Sergejev, Fjodor Proceedings of 14th Nordic Symposium on Tribology : NORDTRIB 2010 : 08.06-11.06.2010, Storforsen, Sweden 2010 / [8] p. [CD-ROM]

[Lõpetajad = Graduates]

Land, Tiit; Sergejev, Fjodor; Jervan, Gert; Salupere, Andrus; Listra, Enn; Leiger, Roomet Mente et Manu 2022 / lk. 24-43 : fot https://www.ester.ee/record=b1242496*est

[Lõpetajad = Graduates]

Land, Tiit; Sergejev, Fjodor; Jervan, Gert; Salupere, Andrus; Avarmaa, Mari; Leiger, Roomet Mente et Manu 2023 / lk. 30-49 : fot https://www.ester.ee/record=b1242496*est

[Lõpetajad = Graduates]

Land, Tiit; Sergejev, Fjodor; Jervan, Gert; Salupere, Andrus; Avarmaa, Mari; Leiger, Roomet Mente et Manu 2024 / lk. 28-46 : fot https://www.ester.ee/record=b1242496*est

Materjalitehnika instituut

Kulu, Priit; Sergejev, Fjodor Mehaanikainseneride koolitus 1998-2016 2016 / lk. 92-115 : ill., fot https://www.ester.ee/record=b4640989*est

Mehaanikainseneri käsiraamat

2015

Mehaanikainseneri käsiraamat

2013 https://www.ester.ee/record=b3007631*est

Mehaanikateaduskonna hetkeseisust ja tulevikust : [ettekanne mehaanikainseneride päeval 27. septembril 2013 TTÜs]
Otto, Tauno; Sergejev, Fjodor Tallinna Tehnikaülikooli aastaraamat 2013 2014 / lk. 191-193

Mehhanotehnika ja metallide käsiraamat
2012 http://www.ester.ee/record=b2860365*est

Metrosert saab riigilt seni ülikoolides tehtud teadusmahuka arendustöö
Alvela, Ain tootusest.ee 2025 <https://tootusest.ee/uudis/2025/05/09/metrosert-saab-riigilt-seni-ulikoolides-tehtud-teadusmahuka-arendustoo/>

Microstructural aspects of fatigue mechanics of hardmetals and cermets
Preis, Irina; Sergejev, Fjodor Macchine Utensili 2004 / July, p. 66-70

Microstructural evolution and mechanical properties of Ti(C,N)–FeCrMo-based green cermets
Maurya, Himanshu Singh; Juhani, Kristjan; Viljus, Mart; Sergejev, Fjodor; Kübarsepp, Jakob Ceramics international 2024 / p. 8695-8705 <https://doi.org/10.1016/j.ceramint.2023.12.186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Murakami approach : fatigue strength prediction of cemented carbides by considering pores to be equivalent to small defects
Sergejev, Fjodor; Preis, Irina; Klaasen, Heinrich; Kübarsepp, Jakob EURO PM2005 : congress & exhibition : 2-5 October 2005, Prague, Czech Republic : proceedings. Volume 1 2005 / p. 335-340 : ill

New high frequency surface fatigue wear tester : design and first results
Antonov, Maksim; Kulu, Priit; Sergejev, Fjodor; Hussainova, Irina; Veinthal, Renno Proceedings of Nordtrib 2008 : 13th Nordic Symposium on Tribology : Tampere, Finland, 10-13 June, 2008 2008 / p. NT2008-87-24
https://www.researchgate.net/publication/288482524_New_high_frequency_surface_fatigue_wear_tester_Design_and_first_results

Noore inseneri programm (NIP) levitab tehnikapisikut
Sergejev, Fjodor; Pook, Ghita Mente et Manu 2018 / lk. 40 : fot http://www.ester.ee/record=b1242496*est
<http://dea.digar.ee/publication/AKmenteetmanu> https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html
https://artiklid.elnet.ee/record=b2868939*est

A novel approach in mechanical nanostructuring synthesis of metal hydride : hydrogen sorption enhancement by High Pressure Torsion Extrusion
Omranpour Shahreza, Babak; Ivanisenko, Julia; Sergejev, Fjodor; Omranpour, Hosseinali; Huot, Jacques International Journal of Hydrogen Energy 2024 / p. 133-142 <https://doi.org/10.1016/j.ijhydene.2023.10.343>

On determination of residual stresses in some PVD coatings by the curvature method
Lille, Harri; Ryabchikov, Alexander; Lind, Liina; Sergejev, Fjodor; Adoberg, Eron; Peetsalu, Priidu Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 378-382 : ill

Performance of carbide composites in cyclic loading conditions
Klaasen, Heinrich; Kübarsepp, Jakob; Roosaar, Tõnu; Sergejev, Fjodor; Talkop, Adolf International Powder Metallurgy Congress & Exhibition : EURO PM2008 : 29th September - 1st October 2008, Mannheim, Germany : proceedings. Vol.1 2008 / p. 237-242 : ill

Performance of carbide composites in cyclic loading wear conditions
Klaasen, Heinrich; Kübarsepp, Jakob; Tšinjan, Aleksei; Sergejev, Fjodor Wear 2011 / p. 837-841 : ill

Performance of cemented carbides in cyclic loading conditions
Klaasen, Heinrich; Kübarsepp, Jakob; Sergejev, Fjodor; Traksmäa, Rainer Materials science = Medžiagotyra 2006 / 2, p. 144-146 : ill

Performance of cemented carbides in cyclic loading wear conditions
Kübarsepp, Jakob; Klaasen, Heinrich; Sergejev, Fjodor Materials science forum 2007 / Progress in powder metallurgy, p. 1221-1224 : ill

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

Performance of cemented carbides in cyclic loading wear conditions
Kübarsepp, Jakob; Klaasen, Heinrich; Sergejev, Fjodor Extended abstracts of 2006 Powder Metallurgy World Congress : Busan, Korea, September 24-28. 2 2006 / p. 887-888

Performance of ceramic-metal composites as potential tool materials for friction stir welding of aluminium, copper and

stainless steel

Kolnes, Mart; Kübarsepp, Jakob; Sergejev, Fjodor; Kolnes, Märt; Tarraste, Marek; Viljus, Mart Materials 2020 / art. 1994, 18 p. : ill <https://doi.org/10.3390/ma13081994> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance of ceramic-metal composites as tool materials for friction stir welding = Keraamilis-metalsed komposiidid otshöördkeevituse tööriista materjalidena

Kolnes, Mart 2020 https://www.ester.ee/record=b5391663*est <https://digikogu.taltech.ee/et/Item/407d051a-6584-41fe-8c27-2ddcbcd8d902>

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>

Properties and performance of hard coatings on tool steels under cyclic indentation

Sivitski, Alina; Gregor, Andre; Saarna, Mart; Kulu, Priit; Sergejev, Fjodor Acta mechanica Slovaca 2009 / p. 84-94 : ill

Punch lifetime in fine-blanking with optimum combination of mechanical properties

Veinthal, Renno; Peetsalu, Priidu; Saarna, Mart; Sergejev, Fjodor European Conference on Heat Treatment and 22nd IFHTSE Congress : Heat Treatment and Surface Engineering from tradition to innovation : Venice (Italy), 20-22 May 2015 2015 / [7] p

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

Lille, Harri; Kõo, Jakob; 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](#)

Residual stresses in TiC-based cermets measured by indentation

Sergejev, Fjodor; Kimmari, Eduard; Viljus, Mart Procedia engineering 2011 / p. 2873-2881 : ill <https://www.sciencedirect.com/science/article/pii/S1877705811006655>

Residual stresses on various PVD hard coatings on tube and plate substrates

Lille, Harri; Ryabchikov, Alexander; **Peetsalu, Priidu; Lind, Liina; Sergejev, Fjodor; Mikli, Valdek; Kübarsepp, Jakob** Coatings 2020 / art. 1054, 11 p <https://doi.org/10.3390/coatings10111054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Riiklike tehnikaprofessuuride ees seisab rida väljakutseid

Kers, Jaan TööstusEST 2023 / lk. 32-34 : ill https://www.ester.ee/record=b4481084*est

Riiklike tehnikaprofessuuride väljakutsed roheleppe, ringmajanduse ja digiteerimise valguses

Kers, Jaan Mente et Manu 2022 / lk. 26-27 https://www.ester.ee/record=b1242496*est

RUK-i loomine nõrgestab kogu inseneeriavaldkonda

Sergejev, Fjodor TööstusEST 2025 / lk. 16-17 https://www.ester.ee/record=b4481084*est

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]

Selective laser melting of TiC-based cermet : HIP studies

Maurya, Himanshu Singh; Kollo, Lauri; Tarraste, Marek; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Transactions of the Indian Institute of Metals 2023 / p. 565-570 : ill <https://doi.org/10.1007/s12666-022-02684-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of TiC-Fe via laser pulse shaping : microstructure and mechanical properties

Maurya, Himanshu Singh; Kollo, Lauri; Tarraste, Marek; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss 3D Printing and Additive Manufacturing 2023 / p. 640-649 <https://doi.org/10.1089/3dp.2021.0221> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sliding Wear and Debris Evolution in LPBFed Ceramic-Reinforced Steel Composites Under Variable Loads and Temperatures

Maurya, Himanshu Singh; Kumar, Rahul, 1993-; Subramaniyan, Anand Kumar; Tarraste, Marek; Hussain, Abrar; Rahmani Ahranjani, Ramin; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Materials Chemistry and Physics 2025 / art. 131195 <https://doi.org/10.1016/j.matchemphys.2025.131195>

Strength and failure of TiC based cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Sergejev, Fjodor Powder metallurgy 2009 / 2, p. 111-115 : ill

Surface fatigue and wear of PVD coated punches during fine blanking operation

Sergejev, Fjodor; Peetsalu, Priidu; Sivitski, Alina; Saarna, Mart; Adoberg, Eron Engineering failure analysis 2011 / p. 1689-1697 : ill

Surface fatigue and wear resistance of thin and thick hard coatings

Kulu, Priit; Saarna, Mart; Sergejev, Fjodor; Gregor, Andre; Sivitski, Alina; Müller, H. IFHTSE International Federation for Heat Treatment and Surface Engineering 18th Congress : July 26-30, 2010, Rio de Janeiro, Brazil : [CD-ROM] 2010
https://www.researchgate.net/publication/289598093_Surface_fatigue_and_wear_resistance_of_thin_and_thick_hard_coatings

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

Synergistic effect of Nb and Mo on the microstructural formation of the Ti(C,N)-high chromium ferrous-based cermets

Maurya, Himanshu Singh; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Sergejev, Fjodor; Pampori, Tabeen Halawat; Hussain, Abrar; Kübarsepp, Jakob International journal of refractory metals and hard materials 2024 / art. 106723
<https://doi.org/10.1016/j.ijrmhm.2024.106723>

Tailoring the microstructure and tribological properties in commercially pure aluminium processed by High Pressure Torsion Extrusion

Omranpour Shahreza, Babak; Kommel, Lembit; Sergejev, Fjodor; Ivanisenko, Yulia; Antonov, Maksim Proceedings of the Estonian Academy of Sciences 2021 / p. 540-548 : ill <https://doi.org/10.3176/proc.2021.4.23> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TalTech ja Onninen sõlmisid ulatusliku koostöölepingu

goodnews.ee 2023 [TalTech ja Onninen sõlmisid ulatusliku koostöölepingu](#)

TalTechi dekaan: ka tehisintellekt jääb insenerita jänni

aripaev.ee 2023 [TalTechi dekaan: ka tehisintellekt jääb insenerita jänni](#)

TalTechi inseneriteaduskonna dekaan: tööstus on aastaid olnud IT varjus, aga need kaks valdkonda ei tohi olla konkurendid

Sergejev, Fjodor toostusuudised.ee 2025 [TalTechi inseneriteaduskonna dekaan: tööstus on aastaid olnud IT varjus, aga need kaks valdkonda ei tohi olla konkurendid](#)

TalTechi vilistlased võitlevad uue stipendiumiga inseneride põua vastu

postimees.ee 2024 [TalTechi vilistlased võitlevad uue stipendiumiga inseneride põua vastu](#)

The effect of microstructure evolution on the wear behavior of tantalum processed by Indirect Extrusion Angular Pressing

Omranpour Shahreza, Babak; Huot, Jacques; Antonov, Maksim; Kommel, Lembit; Sergejev, Fjodor; Perez Trujillo, Francisco Javier; Heczal, Anita; Gubicza, Jeno International journal of refractory metals and hard materials 2023 / art. 106079, 11 p. : ill
<https://doi.org/10.1016/j.ijrmhm.2022.106079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological behavior of hybrid coatings at extreme conditions = Hüübriidpinnete triboloogiline käitumine ekstreemsetes tingimustes

Shaikh, Asad Alamgir 2021 https://www.ester.ee/record=b5434621*est <https://digikogu.taltech.ee/et/Item/2b9c25e8-2f7f-46ea-859a-366bf4b7f252> <https://doi.org/10.23658/taltech.33/2021>

TTÜ tehnoloogiline võimekus : (kõrgkoolide laboratoorne baas, teaduse põhitemaatika)

Karjust, Kristo; Sergejev, Fjodor Eesti Masinatööstuse Liit. TTÜ mehaanikateaduskond 80 2016 / lk. 95-121 : ill

Uued professorid TalTechis

Durst, Susanne; Partanen, Jenni Vilhelmiina; Kasabov, Edward; Palu, Ivo; Sergejev, Fjodor; Trikkel, Andres; Kalda, Jaan; Aav, Riina Mente et Manu 2020 / lk. 32-37 : portr https://www.ttu.ee/public/m/mente-et-manu/MM_01_2020/mobile/index.html
https://www.ester.ee/record=b1242496*est

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 of different PVD coatings at industrial fine-blanking field tests

Lind, Liina; Peetsalu, Priidu; Sergejev, Fjodor Medziagotyra = Materials science 2015 / p. 343-348 : ill
<https://doi.org/10.5755/j01.ms.21.3.7249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wear of potential tool materials for aluminium alloys friction stir welding at weld temperatures

Kolnes, Mart; Kübarsepp, Jakob; Sergejev, Fjodor; Kolnes, Märt Proceedings of the Estonian Academy of Sciences 2019 / p. 198–206 : ill <https://doi.org/10.3176/proc.2019.2.12> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-198-206.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wear performance of PVD coated tool steels

Tšinjan, Aleksei; Klaasen, Heinrich; Kübarsepp, Jakob; Adoberg, Eron; Sergejev, Fjodor; Talkop, Adolf Estonian journal of engineering 2012 / p. 202-210 : ill

Vickers hardness of ceramics fired at different temperatures

Šin, P.; Veinthal, Renno; Sergejev, Fjodor; Antonov, Maksim; Stubna, I. Young Researchers 2011, PhD Students, Young Scientists and Pedagogues Conference proceedings : Nitra, Slovakia, 21-22 September 2011 2011 / p. 565-570 https://www.researchgate.net/publication/265794312_Vickers_hardness_of_ceramics_fired_at_different_temperatures

Декан TalTech: нам не хватает студентов технических направлений

Kraševski, Andrei; Sergejev, Fjodor rus.err.ee 2023 [Декан TalTech: нам не хватает студентов технических направлений](#)

Летом в Эстонии станет на 583 инженера больше

rus.err.ee 2024 [Летом в Эстонии станет на 583 инженера больше](#)

Руководство к лабораторным работам по технологии конструкционных материалов

2006 http://www.ester.ee/record=b2166920*est

Студенты о решении правительства: Это свинство, учитывая ужасную обстановку в стране!

rus.delfi.ee 2024 [Студенты о решении правительства: Это свинство, учитывая ужасную обстановку в стране!](#)

Федор Сергеев: искусственный интеллект не спасет от нехватки инженеров

Sergejev, Fjodor dv.ee 2023 [Федор Сергеев: искусственный интеллект не спасет от нехватки инженеров](#)