

Advanced cermets as tribomaterials

Hussainova, Irina; Antonov, Maksim; Kübarsepp, Jakob Proceedings of the 5th World Tribology Congress : WTC13 : September 8-13, 2013, Torino, Italy 2013

Advanced chromium carbide based hardfacings

Zikin, Arkadi; Hussainova, Irina Surface & coatings technology 2012 / p. 4270-4278 : ill

Advanced multifunctional materials and their applications

Antonov, Maksim; Hussainova, Irina; Kers, Jaan; Kulu, Priit; Kübarsepp, Jakob; Veinthal, Renno Research in Estonia : present and future 2011 / p. 146-167

Advanced multiphase tribo-functional PTA hardfacings = Mitmefaasilised kulumiskindlad PTA-keevispindad

Zikin, Arkadi 2013 <https://digi.lib.ttu.ee/i/?908> https://www.ester.ee/record=b2956356*est

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>

Analytic and fea wear simulation of spinning contact

Pödra, Priit; Tamre, Mart VI Tribological Conference, 6-7 June 1996, Technical University of Budapest : proceedings 1996 / p. 307

Application of memristor in simulation of friction processes

Nuzhdin, Kirill; Musalimov, Victor; Sivitski, Alina Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 162-167 : ill

Assessment of cermets performance in erosive media

Hussainova, Irina; Antonov, Maksim International journal of materials & product technology 2007 / 3/4, p. 361-376 : ill <https://www.inderscience.com/info/inarticle.php?artid=13085>

Automation of dual-drum tribometer

Koiva, R.; Ajaots, Mado International Conference Mechatronics 2000 : September 21 - 23, 2000, Warsaw, Poland. Vol. 1 2000 / p. 239-241

BALTMATTRIB - 2006 : [TTÜ materjalitehnika instituudi korraldatavast rahvusvahelisest konverentsist "Engineering Materials and Tribology" 5.-6. okt. Tallinnas : eelteade]

Mente et Manu 2006 / 5. okt., lk. 2 https://www.ester.ee/record=b1242496*est

Biotribology

Hussainova, Irina 2007

Biotribology general approach

Ajaots, Mado; Tamre, Mart 10th Nordic-Baltic Conference on Biomedical Engineering. Satellite Symposium on Bioelectromagnetic and Biomechanic Measurements, June 13-15, 1996, Tallinn, Estonia 1996 / p. 31-37: ill https://www.ester.ee/record=b1053772*est

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>

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 <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.436>

Comparative study of surface roughness and tribological behavior during running-in period of hard coatings deposited by lateral rotating cathode arc

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

Comparison of a tribological model and real component test methods for lubricated contacts

Antonov, Maksim; Michalczewski, Remigiusz; Pasariu, Rihard; Piekoszewski, Witold Estonian journal of engineering 2009 / 4, p. 349-358 : ill

Covalent coupling of ionic liquid to carbon nanotubes : preparation and tribological properties

Taaber, Triinu; Põhako-Esko, Kaija; Antonov, Maksim; Veinthal, Renno MRS proceedings 2014 / p. UU06-30 : ill

Development of solid lubricated composites for high-temperature tribological applications = Tahkmäärdega komposiitide väljatöötamine kõrgtemperatuurseteks triborakendusteks

Kumar, Rahul, 1993- 2022 <https://doi.org/10.23658/taltech.75/2022> <https://digikogu.taltech.ee/et/Item/b117812c-4248-4542-ba39-fcbfe5349f4e> https://www.ester.ee/record=b5528171*est

Development of sustainable polypropylene based composites = Polüpropeeni baasil jätkusuutlike komposiitide arendus

Hussain, Abrar 2023 <https://doi.org/10.23658/taltech.64/2023> <https://digikogu.taltech.ee/et/Item/ffead123-ec1c-4d27-baa6-ed82c6d527cc> https://www.ester.ee/record=b5645373*esthttps://www.ester.ee/record=b5645373*est

Difusion bonding of hardmetals

Laansoo, Andres; Klaasen, Heinrich; Kübarsepp, Jakob; Surženkov, Gennadi Engineerings Materials & Tribology 2004 : materials of the XIII-th International Baltic Conference : September 23-24, Riga, Latvia 2004 / p. 16-20 : ill

Dual-drum centrifugal tribometer for dynamical tests

Ajaots, Mairo; Kõiva, Risto OST-99 Symposium on Machine Design : [October 1 - September 30, 1999, Stockholm] : proceedings 1999 / p. 159-164: ill https://www.ester.ee/record=b1332011*est

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

Effect of free carbon on the mechanical and tribological properties of cemented carbides

Joost, Renee; Pirso, Jüri; Tenno, Taavi; Viljus, Mart Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [III] 2010 / p. 450-455 : ill

The effect of heat treatment on the morphology and mobility of Au nanoparticles

Oras, Sven; Vlassov, Sergei; Vigonski, Simon; Polyakov, Boris; Antsov, Mikk; Zadin, Vahur; Lõhmus, Rünno; Mougin, Karine Beilstein Journal of Nanotechnology 2020 / p. 61-67 <https://doi.org/10.3762/bjnano.11.6> [Journal metrics at Scopus](#) [article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of microstructure and service conditions on tribological performance of cermets

Hussainova, Irina Proceedings of World Congress on Powder Metallurgy and Particulate Materials, USA. Vol. 8 2002 / p. 78-87

Effect of nanocrystalline diamond films deflection on wear observed in reciprocating sliding tests

Podgurski, Vitali; Bogatov, Andrei; Sobolev, S.; Viljus, Mart; Sedov, V.; Ashkinazi, E.; Ralchenko, V. Journal of coating science and technology 2016 / p. 109-115 : ill <http://dx.doi.org/10.6000/2369-3355.2016.03.03.2>

Effect of surface features stiffness on tribological performance of 3D printed light-weight Ti6Al4V alloy

Antonov, Maksim; Pohlak, Meelis; Ivanov, Roman; Hussainova, Irina Modern materials and manufacturing 2023 2024 / art. 040015 <https://doi.org/10.1063/5.0189279>

Effect of tribosystem and inertia on run-in behavior of PVD coatings

Antonov, Maksim; Adoberg, Eron; Hussainova, Irina; Goljandin, Dmitri; Zikin, Arkadi ECOTRIB 2011 : 3rd European Conference on Tribology and 4th Vienna International Conference on Nano-Technology : June 7-9, 2011, Vienna, Austria. 1 2011 / p. 159-164

Effect of wear debris entrapment on the tribological performance of AlCoCrFeNi produced by selective laser melting or spark plasma sintering

Karimi, Javad; Antonov, Maksim; Prashanth, Konda Gokuldoss Metallurgical and Materials Transactions A 2022 / p. 4004-4010 <https://doi.org/10.1007/s11661-022-06805-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts

2009 http://www.ester.ee/record=b2537121*est

Der Einfluss Verschiedener Zusatzstoffe auf die Verschleissgeschwindigkeit von Metallen beim Strahlverschleiss

Kleis, Ilmar; Uuemõis, Haljand; Balbat, A.; Üksti, Lembit EUOTRIB '77 : 2. Europäischer Tribologie-Kongress, 3. bis 5. Oktober 1977; Düsseldorf, Bundesrepublik Deutschland 1977 / p. [?]

Energy transfer in ratchets driven by additive trichotomous noise

Sauga, Ako; Martila, Dmitri; Mankin, Romi AIP conference proceedings 2011 / p. 139-146

Energy transfer in ratchets driven by additive trichotomous noise

Sauga, Ako; Martila, Dmitri; Mankin, Romi Book of abstracts : Third International Conference on Application of Mathematics in Technical and Natural Sciences : 20-25 June 2011, Albena, Bulgaria 2011 / p. 81

Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts

2003 https://www.ester.ee/record=b1809345*est

Engineering materials and tribology

2013

Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia

2016 <http://dx.doi.org/10.4028/www.scientific.net/KEM.674>

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

Exothermically synthesized B4C-Al composites for dry sliding = Eksotermiliselt sünteesitud B4C-Al komposiidid tööks liugehõõrdumise tingimustes

Kimmari, Eduard 2008 https://www.ester.ee/record=b2413238*est

15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts

2006 https://www.ester.ee/record=b2227259*est

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

High temperature tribological properties of Al₂O₃/NCD films investigated under ambient air conditions

Podgurski, Vitali; Yashin, Maxim; Jõgiaas, Taivo; Viljus, Mart; Alamgir, Asad; Danilson, Mati; Bogatov, Andrei Coatings 2020 / art. 175, 13 p. : ill <https://doi.org/10.3390/coatings10020175> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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; Traksmäa, 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 WOS 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

Improving lubrication of elastic seals

Tamre, Mart Proceedings of 3rd International Colloquium Micro-Tribology'01 : Jastarnia, Poland 2001 / p. 39-40

Industrial approach to circularity of polymer composites : processing, characterization, mechanical testing, and wear regression

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim Journal of reinforced plastics and composites 2023 / 17 p. : ill <https://doi.org/10.1177/07316844231164563>

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 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 : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 38

Inverse methods and integral-differential model demonstration for optimal mechanical operation of power plants - numerical graphical optimization for second generation of tribology models

Casesnoves, Francisco Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 39-50 : ill <https://doi.org/10.2478/ecce-2018-0005>

Investigation of tribological characteristics of polymers used in medicine

Andriushchenko, Ekaterina; Semenova, Vlada; Yuan, Pan New Materials and Technologies in Mechanical Engineering : International Scientific Conference "New Materials and Technologies in Mechanical Engineering" (NMTME 2019) 2019 / p. 656-661 <https://doi.org/10.4028/www.scientific.net/KEM.822.656>

Investigations of structure and tribological properties of the lightweight c-BN-based composites

Kommel, Lembit; Kimmari, Eduard Materials science = Medžiagotyra 2005 / 4, p. 394-397 : ill

Konstruktori sõnavara : eesti-inglise-saksa-vene terminid ja määratlused

Üksti, Lembit 1999 https://www.ester.ee/record=b1331312*est

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]

Masinate töökindlus

Kleis, Ilmar 1984 https://www.ester.ee/record=b1238058*est

Mathematical modelling and optimization of erosion and corrosion in tribology = Erosiooni ja korrosiooni matemaatilise modelleerimine ja optimeerimine triboloogias

Casesnoves, Francisco 2018 <https://digi.lib.ttu.ee/i/?11175>

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>

Metallmaatrikskomposiitmaterjalid triboloogias : avalik loeng 3. mail 2007 TTÜs

Veinthal, Renno Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 326-331 : ill

Microstructural design of ceramic-metal composites for tribological applications

Hussainova, Irina Abstract book of the 5th Asian-Australian Conference on Composite Materials : ACCM-5 : 27-30 November, 2006, Hong-Kong 2006 / p. 16-17

Microstructural design of ceramic-metal composites for tribological applications

Hussainova, Irina Advances in composite materials and structures 2007 / p. 125-128 : ill

Microstructural effects on wear of nonhomogeneous hardmetal materials

Hussainova, Irina; Viljus, Mart Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 2, p. 126-136 : ill https://artiklid.elnet.ee/record=b1012788*est

Microstructural investigation of ni-based high temperature self-lubricating laser claddings containing sulfides of nickel, copper or bismuth

Kumar, Rahul, 1993-; Torres, Hector; Rodríguez Ripoll, Manel; **Antonov, Maksim; Hussainova, Irina** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 31 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](https://doi.org/10.1007/s12666-022-02814-z)

Microstructure and tribological behavior of Fe-based amorphous alloy fabricated by plasma spraying and laser remelting

Ma, Pan; Yang, Zhilu; Fang, Longfei; Zhang, Zhiyu; Fang, Yacheng; Zhang, Nan; **Prashanth, Konda Gokuldoss;** Jia, Yandong Transactions of the Indian Institute of Metals 2023 / p. 1007-1014 <https://doi.org/10.1007/s12666-022-02814-z>

Miks kodumasinad aina vähem vastu peavad? "Probleem on sarnane kiirmoe edukusega."

digi.geenius.ee 2023 [Miks kodumasinad aina vähem vastu peavad? "Probleem on sarnane kiirmoe edukusega."](https://digi.geenius.ee/record=b1012788*est)

Mild steel tribology for circular economy of textile industries

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Basit, Muhammad Abdul; Ahmad, Tahir Tribology in Industry 2021 / p. 552-560 <https://doi.org/10.24874/ti.1050.02.21.04> [Journal metrics at Scopus](#) [Article at Scopus](#)

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>

Modern Materials and Manufacturing (MMM 2021), 27th-29th April 2021, Tallinn, Estonia

2021 <https://iopscience.iop.org/issue/1757-899X/1140/1>

Nõrgavoolu liugekontaktide triboloogia : väitekirj ... magistri kraadi taotlemiseks

Jakobson, Mart 1998 https://www.ester.ee/record=b2687184*est

Overview of hard cyclic viscoplastic deformation as a new SPD method for modifying the structure and properties of niobium and tantalum

Kommel, Lembit Nanotechnology and advanced material science 2024 / 15 p <http://doi.org/10.31038/NAMS.2024721>

Performance of polyimide and PTFE based composites under sliding, erosive and high stress abrasive conditions

Kumar, Rahul, 1993-; Malaval, Bastien; **Antonov, Maksim;** Zhao, Gai Tribology international 2020 / art. 106282 <https://doi.org/10.1016/j.triboint.2020.106282> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Plasma transferred arc hardfacings reinforced by chromium carbide based cermet particles

Zikin, Arkadi; Hussainova, Irina; Winkelmann, Horst; **Kulu, Priit;** Badisch, Ewald International heat treatment and surface engineering 2012 / p. 88-92 https://www.researchgate.net/publication/227944686_Plasma_transferred_arc_hardfacings_reinforced_by_chromium_carbide_based_cermet_particles

Plasma transferred arc hardfacings reinforced by chromium carbide-based cermet particles

Zikin, Arkadi; Hussainova, Irina; Winkelmann, Horst; **Kulu, Priit;** Badisch, Ewald Proceedings of the Heat Treatment and Surface Engineering 19th Congress : Glasgow, Scotland, 17-20 October, 2011 2011 / [5] p. : ill

Preface : [BALTMATTRIB 2015]

Kulu, Priit Proceedings of the Estonian Academy of Sciences 2016 / p. 89

Processing and tribological properties of chromium carbide based cermets

Hussainova, Irina; Pirso, Jüri; Viljus, Mart Proceedings of World Congress on Powder Metallurgy and Particulate Materials, USA. Vol. 6 2002 / p. 166-173

Processing and tribological properties of Cr₃C₂

Jevgrafova, Natalja; Hussainova, Irina OST-01 Symposium on Machine Design : Tallinn, Estonia, October 4-5, 2001 : proceedings 2001 / p. 245-250 : ill

Processing and tribological properties of Cr₃C₂

Jevgrafova, Natalja; Hussainova, Irina International Symposium on Machine Design OST 2001 : [Tallinn, Estonia, October 4-5, 2001] : abstracts 2001 / [1] p

Recent developments on wear and corrosion behavior of iron/iron–nickel metal matrix composites reinforced with zirconia

Singh, Neera; Jha, Pushkar; Parkash, Om; Kumar, Devendra Transactions of the Indian Institute of Metals 2019 / p. 2151–2158 : ill <https://doi.org/10.1007/s12666-019-01683-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Relation between self-organization and wear mechanisms of diamond films

Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim Entropy 2018 / art. 279, 16 p. : ill <https://doi.org/10.3390/e20040279> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Research activities in materials engineering and tribology at TUT

Kulu, Priit; Veinthal, Renno; Kübarsepp, Jakob 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 15

The role of paradigms and technical strategies for implementation of the circular economy in the polymer and composite recycling industries

Hussain, Abrar; Podgurski, Vitali; Viljus, Mart; Awan, Muhammad Rizwan Advanced Industrial and Engineering Polymer Research 2023 / p. 1-12 <https://doi.org/10.1016/j.aiepr.2022.10.001>

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]

Self-lubricating materials for extreme temperature tribo-applications

Kumar, Rahul, 1993-; Antonov, Maksim Materials today: proceedings 2021 / p. 4583-4589

<https://doi.org/10.1016/j.matpr.2020.10.824> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Sliding wear performance of AlCrN coating on TiB₂/Ti composites at high temperatures

Michalczewski, Remigiusz; Kalbarczyk, Marek; Słomka, Zbigniew; Osuch-Słomka, Edyta; Łuszcz, Maciej; **Liu, Le; Antonov, Maksim; Hussainova, Irina** Materials 2021 / art. 6771 <https://doi.org/10.3390/ma14226771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid lubrication at high-temperatures - a review

Kumar, Rahul, 1993-; Hussainova, Irina; Rahmani Ahranjani, Ramin; Antonov, Maksim Materials 2022 / art. 1695

<https://doi.org/10.3390/ma15051695> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid particle erosion of refractories : A critical discussion of two test standards

Varga, Markus; **Antonov, Maksim; Tumma, Mike** Wear 2019 / p. 552–561 : ill <https://doi.org/10.1016/j.wear.2018.12.062> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid particle erosion of the Cr₃C₂-Ni metalmatrix composites

Antonov, Maksim; Hussainova, Irina; Pirso, Jüri OST-01 Symposium on Machine Design : Tallinn, Estonia, October 4-5, 2001 : proceedings 2001 / p. 233-243 : ill

Structure, phase composition, and wear mechanisms of plasma-sprayed NiCrSiB-20wt.% TiB₂ coatings

Umanskii, A.; Storoženko, M.; **Hussainova, Irina; Antonov, Maksim** Powder metallurgy and metal ceramics 2015 / p. 663-671 : ill <http://dx.doi.org/10.1007/s11106-015-9661-3>

Zur Untersuchung der aktuellen Probleme von gerätetechnischen Reibpaarungen an der Technischen Hochschule Tallinn

Ajaots, Mado; Hendre, Enn Materiały VII Konferencji naukowo-technicznej na temat: Postęp w budowie precyzyjnego sprzętu elektroniczno-mechanicznego, Warszawa, 25-27 listopada 1987 r., sekcja III, IV i V 1987 / 6 s.

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](#)

Technological impact on wear resistant multiphase hardfacings

Badisch, Ewald; Katsich, Christian; **Zikin, Arkadi** 15th Nordic Symposium on Tribology - NordTrib 2012 : 12-15 June, 2012, Trondheim, Norway : [proceedings] 2012 / 6 p. : ill

The ALT-1 tribometer

Ajaots, Mado; Laaneots, Rein; Tamre, Mart 1986

The effect of carbon content on the mechanical and tribological properties of WC-Co cemented carbides

Joost, Renee; Pirso, Jüri; Viljus, Mart Proceedings of Nordtrib 2008 : 13th Nordic Symposium on Tribology : Tampere, Finland, 10-13 June, 2008 2008 / [8] p. : ill

The influence of alumina and zirconia coats on the tribological properties of alumina nanofibers

Aghayan, Marina; Gasik, Michael; Kollo, Lauri; Hussainova, Irina; Rodriguez, Miguel Angel CIMTEC 2014 : 13th International Ceramics Congress : Montecatini Terme, Tuscany, Italy, June 8-13, 2014 : book of abstracts 2014

The influence of Cr₃C₂ and VC as alloying additives on the microstructure and properties of reactive sintered WC-Co cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunovits, Sergei; Tarraste, Marek Materials science = Medžiagotyra 2012 / p. 79-83 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1347>

The light weight boron carbide cermet as tribomaterial

Kommel, Lembit; Pirso, Jüri; Traksmäa, Rainer 9th Nordic Symposium on Tribology NORDTRIB 2000 : Porvoo, Finland, 11-14 June 2000. Vol. 3 2000 / p. 886-895 : ill

The wear of PVD coated elements in oscillation motion at high temperature

Michalczewski, Remigiusz; Kalbarczyk, Marek; Slomka, Zbigniew; Liu, Le; Antonov, Maksim; Hussainova, Irina Proceedings of the Estonian Academy of Sciences 2021 / p. 500-507 : ill <https://doi.org/10.3176/proc.2021.4.18> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Theoretische Grundlagen der konstruktiven Gestaltung und Anwendung der Trommeltribometer

Ajaots, Mairo Maschinenbau im Informationszeitalter : 44. Internationales Wissenschaftliches Kolloquium, 20. - 23.09.1999 : 3 : Konstruktionstechnik, Konstruktionselemente und Baugruppen, Feinwerktechnik, Produktion und Logistik, Thermo- und Fluidodynamik, Workshop "Multimedia für Bildung und Wirtschaft" 1999 / S. 255-260: III

Thermoeffects on tribological behavior of cermets

Hussainova, Irina International Symposium on Machine Design OST 2001 : [Tallinn, Estonia, October 4-5, 2001] : abstracts 2001 / [1] p

Thermoeffects on tribological behavior of cermets

Hussainova, Irina OST-01 Symposium on Machine Design : Tallinn, Estonia, October 4-5, 2001 : proceedings 2001 / p. 283-291 : ill

3D printed metal and metal-ceramic cellular lattice structures for wear and thermoacoustic applications = 3D prinditud metall- ja metall-keramistatud käärgvõre struktuurid triboloogilistele- ja termoakustilistele rakendustele

Holovenko, Yaroslav 2019 <https://digi.lib.ttu.ee/i/?12289>

Ti6Al7Nb–TiB nanocomposites for ortho-implant applications

Singh, Neera; Edachery, Vimal; Rajput, Monika; Chatterjee, Kaushik; Kailas, Satish V.; Prashanth, Konda Gokuldoss Journal of materials research 2022 / p. 2525–2535 <https://doi.org/10.1557/s43578-022-00578-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TiAlN coatings tribology for textile machinery parts

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim Proceedings of the Estonian Academy of Sciences 2021 / p. 163-171 : ill <https://doi.org/10.3176/proc.2021.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TiCN coating tribology for the circular economy of textile industries

Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim; Viljus, Mart; Goljandin, Dmitri Journal of industrial textiles 2022 / p. 8947S-8959S <https://doi.org/10.1177%2F15280837211025726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transition from self-organized criticality into self-organization during sliding Si3N4 balls against nanocrystalline diamond films

Bogatov, Andrei; Podgurski, Vitali; Vagiström, Heinar; Yashin, Maxim; Shaikh, Asad Alamgir; Viljus, Mart; Menezes, Pradeep; Gershman, Isif Entropy 2019 / art. 1055 ; 12 p <https://doi.org/10.3390/e21111055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribocharacteristics of journal bearings of rotating systems with unlocated axis

Ajaots, Mairo; Tamre, Mart OST-94 Symposium on Machine Design : proceedings, Tallinn, Estonia, April 14-15, 1994 1994 / p. 62-71: ill https://www.ester.ee/record=b1033948*est

Tribological and circular economy aspects of polypropylene/cotton fibre hybrid composite

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Kumar, Rahul, 1993-; Kamboj, Nikhil Kumar; Rahmani Ahranjani, Ramin; Viljus, Mart; Ahmad, Tahir; Krumme, Andres; Krasnou, Illia Proceedings of the Estonian Academy of Sciences 2022 / p. 186-193 : ill <https://doi.org/10.3176/proc.2022.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 and structural aspects of tribo-design of abrasive wear resistant coatings

Kulu, Priit Tribology of surface layers and coatings : proceedings of the 4th International Tribology Conference, PRAGOTRIB 2004 : Prague, Czech Republic, 17 and 18 June 2004 2004

Tribological behavior of hybrid coatings at extreme conditions = Hübridpinnete 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>

Tribological behavior of Ni-based self-lubricating claddings containing sulfide of nickel, copper, or bismuth at temperatures up to 600 °C

Kumar, Rahul, 1993-; **Torres, Hector**; **Aydinyan, Sofiya**; **Antonov, Maksim**; **Varga, Markus**; **Hussainova, Irina**; **Rodríguez Ripoll, Manel** Surface and coatings technology 2023 / art. 129270, 14 p. : ill <https://doi.org/10.1016/j.surfcoat.2023.129270>

Tribological characteristics of micro- and nano-composites Cu-Al₂O₃ at room and elevated temperatures

Hvizdoš, Pavol; **Besterčí, Michal**; **Kulu, Priit** High temperature materials and processes 2011 / p. 573-577

Tribological characteristics of nanostructured copper

Hussainova, Irina; **Lõhmus, Rünno** Book of abstracts : Nano Tribo Workshop : France, 2005 2005 / p. 34

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

Tribological performances of ZrC-Ni and TiC-Ni cermet reinforced PTA hardfacings at elevated temperatures

Yung, Der-Liang; **Zikin, Arkadi**; **Hussainova, Irina**; **Danninger, Herbert**; **Badisch, Ewald**; **Gavrilovic, A.** Surface and coatings technology 2017 / p. 497-505 : ill <https://doi.org/10.1016/j.surfcoat.2016.11.099>

Tribological properties of PVD coatings with lubricating films

Lind, Liina; **Adoberg, Eron**; **Aarik, Lauri**; **Kulu, Priit**; **Veinthal, Renno**; **Abdel Aal, Alsayed** Estonian journal of engineering 2012 / p. 193-201 : ill

Tribological properties of selective laser melted Al₁₂Si alloy

Rathod, H.J.; **Nagaraju, T.**; **Prashanth, Konda Gokuldoss**; **Ramamurty, U.** Tribology international 2019 / p. 94-101 : ill

<https://doi.org/10.1016/j.triboint.2019.04.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological properties of the Cr₃C₂-Ni metal-matrix composites

Hussainova, Irina; **Pirso, Jüri** EUROMAT 2001 : 7th European Conference on Advanced Materials and Processes : Rimini, Italy, 10-14 June, 2001 : conference abstracts 2001 / p. 122-123

Tribological properties of the Cr₃C₂-Ni metal-matrix composites [Electronic resource]

Hussainova, Irina; **Pirso, Jüri** Proceedings of 7th European Conference on Advanced Materials and Processes : EUROMAT 2001 : Italy 2001 / [CD-ROM]

Tribological studies on nc-TiC/a-C:H coatings

Kollo, Lauri; **Schwaller, P.**; **Michler, J.** Engineering Materials & Tribology 2004 : materials of the XIII-th International Baltic Conference : September 23-24, Riga, Latvia 2004 / p. 130-131

Tribology of fine-grained cermets

Letunovitš, Sergei 2003 https://www.ester.ee/record=b1782627*est

Triboloogia aitab kadusid vähendada

Hendre, Enn; **Ajaots, Maito** Rahva Hääl 1984 / lk. [2] https://www.ester.ee/record=b1072826*est

Triboloogia lühikursus

Kleis, Ilmar 1996 https://www.ester.ee/record=b1071102*est

Triboloogia lühikursus

Kleis, Ilmar Tehnika ja Tootmine 1995 / 5, lk. 17-19; 6, lk. 16-19: ill

Triboloogia? Kas see on midagi uut?

Kleis, Ilmar Horisont 1974 / lk. 10-11 : ill https://www.ester.ee/record=b1072243*est <https://www.digar.ee/arhiiv/et/periodika/69736>

2D computational-numerical hardness comparison between Fe-based hardfacing 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](#)

Using FEM in tribology

Põdra, Priit Proceedings of the First National DAAAM Conference in Estonia : Science '95 1996 / p. 67-75: ill

WC tribology for circular economy of manufacturing textile industries

Hussain, Abrar; **Podgurski, Vitali**; **Antonov, Maksim**; **Goljandin, Dmitri**; **Viljus, Mart** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 33 https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Wear and friction in boron carbide cermet-steel sliding system

Kommel, Lembit; Hussainova, Irina; Kimmari, Eduard Abstracts of papers from 2nd World Tribology Congress 2001 / p. 93

Wear protection of highly loaded components: advantages of plasma transferred arc welding as hardfacing technology

Katsich, Christian; Zikin, Arkadi; Badisch, Ewald Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 639-644 : ill

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
<http://dx.doi.org/10.4028/www.scientific.net/SSP.267.219>

Вопросы триботехнического материаловедения порошковых карбидостальных композитов

Valdma, Leo; Kübarsepp, Jakob; Annuka, Harri Современные проблемы триботехнологии : тезисы докладов Всесоюзной научно-технологической конференций 1988 / с. 152-153

Исследование влияния конструкционных и технологических параметров пухние покоя миниатюрных направляющих скольжения

Andreeva, O.; Romanova, O.; Arsentjeva, L.; Ajaots, Mairo; Möldre, Heino Триботехника - машиностроению : тезисы докладов третьей Московской научно-технической конференций, 2-4 сент. 1987 г 1987 / с. [126-127]

Исследование пневмовибратора к трибометру BT-1

Saar, Bernhard; Tani, Peeter XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 135-136 https://www.ester.ee/record=b1322629*est

Моделирующая испытательная система для исследования триботехнических характеристик миниатюрных узлов трения

Ajaots, Mairo; Möldre, Heino; Tamre, Mart Всесоюзная научно-техническая конференция "Динамическое моделирование сложных систем", 22-24 сент. 1987 г., Гродно : Тезисы докладов 1987 / с. 93

Модернизированный четырехшариковый трибометр для исследования упорных подшипников двигателей прямого привода

Kressa, H.; Poller, P.; Velling, Ants XXXII студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 19-21 апреля 1988 г. : тезисы докладов : [в 3-х частях], ч. 1 1988 / с. 101
https://www.ester.ee/record=b1571601*est

Определение относительной износостойкости полимерных материалов на вибрационном трибометре

Tanberg, J.; Nanits, Mats-Maidu XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с.102 https://www.ester.ee/record=b1305565*est

Опыт применения вибрационных трибометров при определении износостойкости материалов

Ajaots, Mairo Всесоюзная научно-техническая конференция "Повышение ресурса узлов трения, работающих в экстремальных условиях" (г. Пермь, 28-30 мая 1986 г.) : тезисы докладов 1986 / с. [231-232]

Опыт применения вибрационных трибометров при ускоренном определении износостойкости материалов

Ajaots, Mairo; Nanits, Mats-Maidu Всесоюзная научно-практическая конференция "Теория и практика создания, испытания и эксплуатация триботехнических систем" (г. Андропов, 28-30 мая 1986 г.) : Тезисы докладов 1986 / с. 113

Оценка контактных площадей и давлений в парах вал-втулка при наклоненной оси

Ajaots, Mairo; Tamre, Mart Триботехника - машиностроению : тезисы докладов 5-ой научно-технической конференции, Н.-Новгород, 1991 1991 / с. 207-208

Самосмазывающиеся пористые подшипники скольжения с повышенной работоспособностью

Ajaots, Mairo; Lees, Rein Трение и износ = Friction and Wear : международный научный журнал 1985 / с. 347-351 : ил
https://www.ester.ee/record=b1312784*est

Структурно-фазовый состав и механизмы изнашивания плазменного покрытия системы NiCrSiB-20% (мас.) TiB2

Umanskii, A.; Storozhenko, M.; Hussainova, Irina; Antonov, Maksim Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 2014 / с. 57-68

Термотрибохимия на амониев сульфат

Петкова, В.; Tõnsuaadu, Kaia; Домбалов, И.; Пеловски, Й.; Петров, Л. Дванадесета научно-технологична сесия Контакт 2003

"Трибология и интердисциплинност" : Трибология 2003 : 30-31 октомври 2003, София 2003 / с. 117-120 : ил

Трибомер ALT-1

Ajaots, Mairo; Laaneots, Rein; Tamre, Mart 1986