

#### **Abrasion of WC based hardmetals**

**Voltšihhin, Nikolai; Hussainova, Irina; Antonov, Maksim** ECOTRIB 2011 : 3rd European Conference on Tribology and 4th Vienna International Conference on Nano-Technology : June 7-9, 2011, Vienna, Austria. 1 2011 / p. 229-232

#### **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](#)

#### **Adaptation of Laboratory tests for the assessment of wear resistance of drill-bit inserts for rotary-percussive drilling of hard rocks**

Saari, Afaf; Bjorge, Ruben; Dahl, Filip; **Antonov, Maksim** Wear 2020 / art. 203366, 10 p. : ill <https://doi.org/10.1016/j.wear.2020.203366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Adhesion of AlCrN coating deposited on TiB<sub>2</sub>/Ti composites sintered by SPS dedicated for high temperature tribological applications**

Michalczewski, Remigiusz; Kalbarczyk, M.; Slomka, Z.; **Hussainova, Irina; Liu, Le; Antonov, Maksim** IOP conference series : materials science and engineering 2021 / art. 012010, 9 p <https://doi.org/10.1088/1757-899X/1140/1/012010>

#### **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 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

#### **Analysis of microstructure and abrasive wear of Fe-based hardfacings with TiC, in-situ synthesized from TiO<sub>2</sub>**

**Yöyler, Sibel; Surzhenkov, Andrei; Antonov, Maksim; Viljus, Mart; Traksmäa, Rainer; Juhani, Kristjan** Euro PM2023 : proceedings 2023 / art. 195090 <https://doi.org/10.59499/EP235762969>

#### **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>

#### **Applications of recycled hardmetal powder**

**Zimakov, Sergei; Pihl, Toomas; Kulu, Priit; Antonov, Maksim; Mikli, Valdek** Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 43-44

#### **Applications of recycled hardmetal powder**

**Zimakov, Sergei; Pihl, Toomas; Kulu, Priit; Antonov, Maksim; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 4, p. 304-316 : ill

#### **Assessment of 3D printed steels and composites intended for wear applications in abrasive, dry or slurry erosive conditions**

**Kumar, Rahul, 1993-; Antonov, Maksim; Beste, U.; Goljandin, Dmitri** International journal of refractory metals and hard materials 2020 / art. 105126, 9 p. : ill <https://doi.org/10.1016/j.ijrmhm.2019.105126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Assessment of abrasive powder behaviour during impact-abrasive wear of PCD elements**

**Gomon, Dmitri; Auriemma, Fabio; Antonov, Maksim** Wear 2019 / p. 151-161 : ill <https://doi.org/10.1016/j.wear.2019.03.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Assessment of cermets performance in aggressive media**

**Antonov, Maksim** 2006 [http://www.ester.ee/record=b2208731\\*est](http://www.ester.ee/record=b2208731*est)

#### **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>

#### **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 mechanically mixed layer developed during high temperature erosion of cermets**

**Antonov, Maksim; Hussainova, Irina; Pirso, Jüri; Volobujeva, Olga** Wear 2007 / 2, p. 878-886 : ill

### **Assessment of zirconia doped hardmetals as tribomaterials**

Hussainova, Irina; Antonov, Maksim; Voltšihhin, Nikolai Wear 2011 / p. 1909-1915 : ill

### **Assessment of the potential of lubricated contact condition laboratory testing and surface analysis for improving the performance of machine elements. Comparison of model and real component test methods**

Antonov, Maksim; Michalczewski, Remigiusz; Pasaribu, Richard; Piekoszewski, Witold 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 55

### **Assessment of the reliability of hardfacings for soil rippers**

Jankauskas, Vytenis; Katinas, Egidijus; Varnauskas, Valentinas; Katinas, A.; Antonov, Maksim Journal of friction and wear 2015 / p. 89-95 : ill <https://doi.org/10.3103/S106836661501016X> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Axial and torsional buckling analysis of single- and multi-walled carbon nanotubes : finite element comparison between armchair and zigzag types**

Rahmani Ahranjani, Ramin; Antonov, Maksim SN Applied Sciences 2019 / art. 1134, 13 p. : ill <https://doi.org/10.1007/s42452-019-1190-0>

### **Behaviour of tungsten alloy with iron and nickel under repeated high temperature plasma pulses**

Laas, T.; Laas, K.; Paju, J.; Priimets, Jaanis; Töke, Siim; Väli, B.; Shirokova, Veronika; Antonov, Maksim; Gribkov, V.A.; Demina, E.V.; Pimenov, V.N.; Paduch, M.; Matulka, R.; Akel, M. Fusion engineering and design 2020 / art. 111408 <https://doi.org/10.1016/j.fusengdes.2019.111408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A case study of printed circuit boards recycling by disintegrator technology**

Klauser, Artur; Goljandin, Dmitri; Kulu, Priit; Antonov, Maksim; Gustafsson, Göran; Davoodi, Ali Modern materials and manufacturing 2023 : Tallinn, Estonia, 2-4 May 2023 2024 / art. 040014 <https://doi.org/10.1063/5.0189208> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Cavitation resistance of WC-10Co4Cr and WC-20CrC-7Ni HVOF coatings**

Korobov, Yuri; Alwan, H.; Soboleva, Natalia; Antonov, Maksim Journal of Thermal Spray Technology 2022 / p. 234-246 <https://doi.org/10.1007/s11666-021-01242-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cermets surface transformation under erosive and abrasive wear**

Antonov, Maksim; Hussainova, Irina Tribology international 2010 / p. 1566-1575 : ill

### **Characterization of microstructure and mechanical properties of cermets at micro- and nanoscales**

Hussainova, Irina; Antonov, Maksim; Jasiuk, Iwona; Du, Xiangdong International journal of materials & product technology 2011 / p. 58-74 : ill

### **Chromium carbide based cermets as the wear resistant materials**

Antonov, Maksim; Hussainova, Irina; Pirso, Jüri Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 177-180 : ill

### **Circular economy approach to recycling technologies of post-consumer textile waste in Estonia : a review**

Hussain, Abrar; Kamboj, Nikhil Kumar; Podgurski, Vitali; Antonov, Maksim; Goljandin, Dmitri Proceedings of the Estonian Academy of Sciences 2021 / p. 80-90 : ill <https://doi.org/10.3176/proc.2021.1.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](#)

### **Coatings and surface engineering. Industry oriented research**

Veinthal, Renno; Kulu, Priit; Zikin, Arkadi; Sarjas, Heikki; Antonov, Maksim; Podgurski, Vitali; Adoberg, Eron Estonian journal of engineering 2012 / p. 176-184 : ill [https://kirj.ee/public/Engineering/2012/issue\\_3/Eng-2012-3-176-184.pdf](https://kirj.ee/public/Engineering/2012/issue_3/Eng-2012-3-176-184.pdf)

### **Combination of SLM-SPS approaches for tribological, antibacterial and biomaterial applications = Kombineeritud SLM-SPS meetod triboloogiliste, antibakteriaalsete ja biosobivate materjalide valmistamiseks**

Rahmani Ahranjani, Ramin 2020 <https://digikogu.taltech.ee/et/Item/4cd6a755-29d9-4168-a281-a21edca6c729>

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

Tkachivskiy, Dmytro; Viljus, Mart; Traksmäe, 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 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 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

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

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

**Comparison of the wear and frictional properties of Cu matrix composites prepared by pulsed electric current sintering**

Ritasalo, Riina; **Antonov, Maksim; Veinthal, Renno**; Hannula, Simo-Pekka Proceedings of the Estonian Academy of Sciences 2014 / p. 62-74 : ill [https://artiklid.elnet.ee/record=b2665219\\*est](https://artiklid.elnet.ee/record=b2665219*est) <https://doi.org/10.3176/proc.2014.1.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Competition between immiscibility GAP and supercooling during non-equilibrium processing of metallic materials**

Aftab, Rabia; **Antonov, Maksim** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 11 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Composition and structure of bimodal WC-Co materials related to mechanical properties and abrasive wear**

**Yung, Der-Liang; Antonov, Maksim; Hussainova, Irina; Veinthal, Renno**; Hogmark, Sture M2D2015 : proceedings of the 6th International Conference on Mechanics and Materials in Design, 2015 2015 / p. 655-664

**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

**Corrigendum to "Generation and development of damages in double forged tungsten in different regimes of irradiation with extreme heat loads" [J. Nucl. Mater. 495 (2017) 91-102]**

Paju, Jana; Väli, Berit; Laas, Tõnu; **Shirokova, Veroonika; Antonov, Maksim** Journal of nuclear materials 2018 / p. 323-324 : tab <https://doi.org/10.1016/j.jnucmat.2018.03.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Taaber, Triinu; Põhako-Esko, Kaija; **Antonov, Maksim; Veinthal, Renno** Materials Research Society symposium proceedings 2014 / p. UU06-30 : ill <https://doi.org/10.1557/opl.2014.539> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Design and technology of oxides-containing ceramic-based composites = Oksiide sisaldava komposiitkeraamika tehnoloogia**

**Voltšihin, Nikolai** 2014 [https://www.ester.ee/record=b4438763\\*est](https://www.ester.ee/record=b4438763*est)

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

**Aruniit, Aare; Antonov, Maksim; Kers, Jaan; Krumme, Andres** Engineering materials & tribology XXII 2014 / p. 188-191 <https://doi.org/10.4028/www.scientific.net/KEM.604.188> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

**Development of 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](https://www.ester.ee/record=b5528171*est)

**Effect of alloying additives on impact-abrasive wear of manual arc welded hadfield steel hardfacings**

Jankauskas, Vytenis; **Antonov, Maksim; Katinas, Egidijus; Gedzevicius, I.** Journal of friction and wear 2016 / p. 170-178 : ill <https://doi.org/10.3103/S1068366616020185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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 basalt and silica additives on erosive wear resistance of cast ceramics**

**Baroninš, Janis; Antonov, Maksim; Ivanov, Roman;** Shuliak, Volodymyr; **Hussainova, Irina** Proceedings of the Estonian Academy of Sciences 2016 / p. 144-151 : ill <https://doi.org/10.3176/proc.2016.2.05> [https://artiklid.elnet.ee/record=b2768221\\*est](https://artiklid.elnet.ee/record=b2768221*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

#### **Effect of cBN content and additives on sliding and surface fatigue wear of spark plasma sintered Al<sub>2</sub>O<sub>3</sub>-cBN composites**

**Kumar, Rahul, 1993-; Antonov, Maksim;** Klimczyk, Piotr; **Mikli, Valdek; Gomom, Dmitri** Wear 2022 / art. 204250 <https://doi.org/10.1016/j.wear.2022.204250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of electrode covering composition on the microstructure, wear, and economic feasibility of Fe-C-Cr manual arc-welded hardfacings**

Jankauskas, Vytenis; Katinas, Egidijus; Laskauskas, Arturas; **Antonov, Maksim;** Varnauskas, Valentinas; Gedzevičius, Irmantas; Aleknevičienė, Vilija Coatings 2020 / art. 294, 19 p. : ill <https://doi.org/10.3390/coatings10030294> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of erodent particle impact energy on wear of cemented carbides**

**Antonov, Maksim;** Yung, Der-Liang; **Goljandin, Dmitri; Mikli, Valdek; Hussainova, Irina** Wear 2017 / p. 507-515 : ill <https://doi.org/10.1016/j.wear.2016.11.032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of FeNiCrBSiC-MeB<sub>2</sub> material composition on the oxidation behavior at high temperatures**

Umanskyi, Oleksandr; Storozhenko, Maryna; Koshelev, M.; **Antonov, Maksim** Powder metallurgy and metal ceramics 2019 / p. 670-678 : ill <https://doi.org/10.1007/s11066-019-00030-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of graphene nanoplatelet content on mechanical and elevated-temperature tribological performance of self-lubricating ZE10 magnesium alloy nanocomposites**

Kandemir, Sinan; **Yöyler, Sibel; Kumar, Rahul, 1993-; Antonov, Maksim;** Dieringa, Hajo Lubricants 2024 / art. 52 <https://doi.org/10.3390/lubricants12020052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of HBN on wear of AlCrN-coated spark plasma - sintered TiB<sub>2</sub>/Ti composites at temperatures up to 900°C**

Luszcz, Maciej; Michalczewski, Remigiusz; Kalbarczyk, Marek; Osuch-Słomka, Edyta; Molenda, Jarosław; **Liu, Le; Antonov, Maksim; Hussainova, Irina** Quarterly tribologia 2022 / p. 43-55 <https://doi.org/10.5604/01.3001.0015.8756>

#### **Effect of laser heat treatment on Al<sub>x</sub>Ti<sub>1-x</sub>N-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](#)

#### **Effect of lattice surface treatment on performance of hardmetal - titanium interpenetrating phase composites**

**Holovenko, Yaroslav; Kollo, Lauri; Saarna, Mart; Rahmani Ahranjani, Ramin;** Soloviova, Tetiana; **Antonov, Maksim; Prashanth, Konda Gokuldoss;** Cygan, Slawomir; **Veinthal, Renno** International journal of refractory metals and hard materials 2020 / art. 105087, 10 p. : ill <https://doi.org/10.1016/j.ijrmhm.2019.105087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of loading system inertia on tribological behaviour of ceramic–ceramic, ceramic–metal and metal–metal dry sliding contacts**

**Antonov, Maksim; Hussainova, Irina; Adoberg, Eron** Tribology international 2013 / p. 207-214 : ill <https://doi.org/10.1016/j.triboint.2013.03.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of loading system rigidity and inertia on friction coefficient and wear rate of ceramic-ceramic sliding contacts**

**Antonov, Maksim; Adoberg, Eron; Hussainova, Irina** Proceedings of the 13th International Conference on Metrology and Properties of Engineering Surfaces : 12-14 April 2011, London 2011 / p. 151-155 : ill

#### **Effect of Local Remelting and Recycled WC-Co Composite Reinforcement Size on Abrasive and Erosive Wear of Manual Arc Welded Hardfacings**

Katinas, Egidijus; **Antonov, Maksim;** Jankauskas, Vytenis; **Goljandin, Dmitri** Coatings 2023 / art. 734 <https://doi.org/10.3390/coatings13040734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of oxidation on abrasive wear behaviour of TiC-based cermets in SiO<sub>2</sub> medium**

**Antonov, Maksim; Hussainova, Irina; Pirso, Jüri; Juhani, Kristjan** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 510-515 : ill



#### **Effect of oxidation on abrasive wear behaviour of titanium carbide based composites in silica medium**

**Antonov, Maksim; Hussainova, Irina; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart** Estonian journal of engineering 2010 / 4, p. 264-272 : ill

#### **Effect of oxidation on abrasive wear of TiC-based cermets at various temperatures**

**Antonov, Maksim; Hussainova, Irina; Pirso, Jüri; Juhani, Kristjan** Proceedings of 14th Nordic Symposium on Tribology : NORDTRIB 2010 : 08.06-11.06.2010, Storforsen, Sweden 2010 / p. 0054 [CD-ROM]

#### **Effect of oxidation on erosive wear behaviour of boiler steels**

**Antonov, Maksim; Veinthal, Renno; Huttunen-Saarivirta, E.; Hussainova, Irina; Vallikivi, Ahto; Lelis, Martynas; Priss, Jelena** Tribology international 2013 / p. 35-44 : ill <https://doi.org/10.1016/j.triboint.2012.09.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

#### **Effect of pulsed deuterium plasma irradiation on dual-phase tungsten high-entropy alloys**

**Tökke, Siim; Laas, Tõnu; Priimets, Jaanis; Tarraste, Marek; Mikli, Valdek; Antonov, Maksim** Fusion engineering and design 2022 / 11 p. : ill <https://doi.org/10.1016/j.fusengdes.2022.113260> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of pulsed deuterium plasma irradiation on dual-phase tungsten medium-entropy alloys**

**Laas, Tõnu; Tökke, Siim; Paju-Hamburg, Jana; Tarraste, Marek; Mikli, Valdek; Antonov, Maksim; Priimets, Jaanis; Czarkowski, Piotr; Miklaszewski, Ryszard; Paduch, Marian** Fusion engineering and design 2025 / art. 115229 <https://doi.org/10.1016/j.fusengdes.2025.115229>

#### **Effect of SiO2 and PTFE additives on dry sliding of NiP electroless coating**

**Gutsev, D.; Antonov, Maksim; Hussainova, Irina; Grigoriev, A.Y.** Tribology international 2013 / p. 295-302 : ill <https://doi.org/10.1016/j.triboint.2012.12.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of solid lubricants on wear of PVD-coated spark plasma-sintered TiB2/Ti composites**

**Luszcz, Maciej; Michalczewski, Remigiusz; Kalbarczyk, Marek; Osuch-Slomka, Edyta; Liu, Le; Antonov, Maksim; Hussainova, Irina** Modern materials and manufacturing 2023 2024 / art. 040010 <https://doi.org/10.1063/5.0190460> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **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> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Effect of temperature and load on three-body abrasion of cermets and steel**

**Antonov, Maksim; Hussainova, Irina; Veinthal, Renno; Pirso, Jüri** Tribology international 2012 / p. 261-268 : ill <https://www.sciencedirect.com/science/article/pii/S0301679X11002015>

#### **The effect of temperature and sliding speed on friction and wear of Si3N4, Al2O3, and ZrO2 balls tested against AlCrN PVD coating**

**Antonov, Maksim; Afshari, Hossein; Baroninš, Janis; Adoberg, Eron; Raadik, Taavi; Hussainova, Irina** Tribology international 2018 / p. 500-514 : ill <https://doi.org/10.1016/j.triboint.2017.05.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of temperature on erosive and abrasive wear of carbide reinforced powder steels**

**Veinthal, Renno; Antonov, Maksim** Tribology 2011 : proceedings of the 10th International Tribology Conference, Pretoria, South Africa, 5-7 April 2011 2011 / p. 104-111 : ill

#### **Effect of temperature on sliding and erosive wear of fiber reinforced polyimide hybrids**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim; Wang, Qihua; Wang, Tingmei; Yung, Der-Liang** Tribology international 2015 / p. 525-533 : ill <https://doi.org/10.1016/j.triboint.2014.01.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of thermal shock treatment parameters on the efficiency of WC-Co cermet recycling**

**Kariminejad, Arash; Antonov, Maksim; Kumar, Rahul, 1993-; Goljandin, Dmitri; Klimczyk, Piotr; Viljus, Mart** AIP conference proceedings 2024 / art. 040013 <https://doi.org/10.1063/5.0189330> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

**Umanskyi, O.; Storozhenko, M.; Antonov, Maksim; Terentyev, O.; Koval, O.; Goljandin, Dmitri** Modern Materials and Manufacturing

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

#### **Effect of TiB<sub>2</sub> additives on wear behavior of NiCrBSi-based plasma-sprayed coatings**

Umanskyi, Oleksandr; Storozhenko, Maryna; **Hussainova, Irina**; Terentjev, Oleksandr; Kovalchenko, Andrey; **Antonov, Maksim** Materials science = Medžiagotyra 2016 / p. 15-19 : ill <https://doi.org/10.5755/j01.ms.22.1.7307> Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

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

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

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

Jankauskas, Vytenis; **Antonov, Maksim**; Varnauskas, Valentinas; Skirkus, Remigijus; **Goljandin, Dmitri** Wear 2015 / p. 378-390 : ill <https://doi.org/10.1016/j.wear.2015.02.063> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **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 : Physical metallurgy and materials science 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

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

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

#### **Elevated temperature wear of chromium carbide based cermets**

**Hussainova, Irina**; **Antonov, Maksim** Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 67

#### **Elevated temperature wear of chromium carbide based cermets**

**Hussainova, Irina**; **Antonov, Maksim** Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 4, p. 261-271 : ill

#### **Erosion and abrasion of chromium carbide based cermets produced by different methods**

**Hussainova, Irina**; Pirso, Jüri; **Antonov, Maksim**; Juhani, Kristjan; Letunovitš, Sergei Wear 2007 / 2, p. 905-911 : ill

#### **Erosion of Cr<sub>3</sub>C<sub>2</sub>-based cermets at room and elevated temperatures**

**Antonov, Maksim**; **Hussainova, Irina** Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 137-140 : ill

#### **Erosion studies of the iron boride coatings for protection of tubing components in oil production, mineral processing and engineering applications**

Medvedovski, Eugene; **Antonov, Maksim** Wear 2020 / art. 203277, 8 p. : ill <https://doi.org/10.1016/j.wear.2020.203277> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Erosion studies of the iron boride coatings for protection of tubing components in oil production, mineral processing and engineering applications**

Medvedovski, Eugene; **Antonov, Maksim** 44th International Conference & Exposition on Advanced Ceramics and Composites, January 26-31, 2020, Daytona Beach, Florida : Abstract book 2020 / (ICACC-S2-005-2020) ; p. 19 [https://ceramics.org/wp-content/uploads/2018/09/ICACC20\\_Abstracts\\_WebFinal.pdf](https://ceramics.org/wp-content/uploads/2018/09/ICACC20_Abstracts_WebFinal.pdf)

#### **Erosion testing of refractory cermets at high temperature [Electronic resource]**

**Antonov, Maksim**; **Hussainova, Irina** Proceedings of 12th Nordic Symposium in Tribology : NORDTRIB 2006 : Helsingor, Denmark, 7-9 June 2006 2006 / [10] p. [CD-ROM]

### **Erosion wear behavior of HVOF-sprayed WC/Cr<sub>3</sub>C<sub>2</sub>-based cermet and martensitic stainless steel coatings on AlSi<sub>7</sub>Mg<sub>0.3</sub> alloy : a comparative study**

Korobov, Yuri; **Antonov, Maksim**; Astafiev, Vladimir; Brodova, Irina; Kutaev, Vladimir; Estemirova, Svetlana; Devyatyarov, Mikhail; Okulov, Artem Journal of manufacturing and materials processing 2024 / art. 231 <https://doi.org/10.3390/jmmp8050231> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Erosion wear testing of boiler steels at elevated temperatures**

**Priss, Jelena**; Klevtsov, Ivan; Dedov, Andrei; **Antonov, Maksim** 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 248-250 : ill

### **Erosion-corrosion of Cr<sub>3</sub>C<sub>2</sub>-Ni cermets in salt water**

**Antonov, Maksim**; Stack, Margaret; **Hussainova, Irina** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 3-1, p. 176-187 : ill

### **Erosion-oxidation of pressure vessel steel P265GH**

Huttunen-Saarivirta, E.; Kuokkala, V.-T.; **Antonov, Maksim**; Veinthal, Renno; Tuiremo, J.; Mäkelä, K. Tribologia : Finnish journal of tribology 2012 / p. 11-19 : ill <https://journal.fi/tribologia/article/view/69337>

### **Erosive and impact-abrasive wear of hardmetals with Fe-based binders**

**Tarraste, Marek**; **Antonov, Maksim**; Kolnes, Märt; Viljus, Mart; Ormus, Andres-Hardi Journal of the Japan Society of Powder and Powder Metallurgy 2025 / p. S1437-S1444 <https://doi.org/10.2497/jjspm.16F-T15-05>

### **Erosive wear failures**

**Antonov, Maksim** Failure analysis and prevention, vol. 11 2021 / p. 755–763 <https://doi.org/10.31399/asm.hb.v11.a0006795>

### **Erosive wear of advanced composites based on WC**

**Hussainova, Irina**; **Antonov, Maksim**; Zikin, Arkadi Tribology international 2012 / p. 254-260 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0301679X11001630>

### **Erosive wear of boiler steels by sand and ash**

Huttunen-Saarivirta, E.; Kinnunen, H.; Tuiremo, J.; Uusitalo, M.; **Antonov, Maksim** Wear 2014 / p. 213-224 : ill <https://doi.org/10.1016/j.wear.2014.06.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Erosive wear of spark plasma sintered Al<sub>2</sub>O<sub>3</sub> - cBN ceramic composites**

**Kariminejad, Arash**; Kumar, Rahul; **Antonov, Maksim**; **Hussainova, Irina**; Klimczyk, Piotr Diamond and Related Materials 2025 / art. 112328 <https://doi.org/10.1016/j.diamond.2025.112328>

### **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](#)

### **Erratum: Multifractal analysis of high-temperature plasma irradiated tungsten surfaces (Surface Topography: Metrology and Properties (2021) 9 (035030) DOI: 10.1088/2051-672x/ac1dc3)**

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; Priimets, Jaanis; Mikli, Valdek; **Antonov, Maksim** Surface topography : metrology and properties 2023 / art. 029501 <https://doi.org/10.1088/2051-672X/acc81c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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

### **The experimental and theoretical investigations of damage development and distribution in double-forged tungsten under plasma irradiation-initiated extreme heat loads**

Väli, Berit; Laas, Tõnu; Paju, Jana; **Antonov, Maksim** Nukleonika 2016 / p. 169-177 : ill <https://doi.org/10.1515/nuka-2016-0029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Experimental damage mechanics of cotton wastes**

**Hussain, Abrar**; Podgurski, Vitali; **Antonov, Maksim**; Gonjandin, Dmitri; Viljus, Mart Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 19 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Experimental setup for testing and mapping of high temperature abrasion and oxidation synergy**

**Antonov, Maksim**; **Hussainova, Irina** Wear 2009 / 11, p. 1798-1803 : ill

### **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](https://www.researchgate.net/publication/268257498_Fracture_Toughness_of_Ceramics_Fired_at_Different_Temperatures)

#### **Friction and wear of fiber reinforced polyimide composites**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim**; Wang, Qihua; Wang, Tingmei Wear 2013 / p. 122-129 : ill <https://doi.org/10.1016/j.wear.2012.12.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Friction and wear of fiber reinforced polyimide composites**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim**; Wang, Qihua; Wang, Tingmei; **Veinthal, Renno** 19th International Conference on Wear of Materials : Portland, Oregon, USA, 14-18 April 2013 : conference abstracts 2013 / [p. 92]

#### **Friction studies of metal surfaces with various 3D printed patterns tested in dry sliding conditions**

Holovenko, Yaroslav; **Antonov, Maksim; Kollo, Lauri; Hussainova, Irina** Proceedings of the Institution of Mechanical Engineers. Part J, Journal of engineering tribology 2018 / p. 43-53 <https://doi.org/10.1177/1350650117738920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **From scrap to product : the effect of recycled tungsten carbide and alumina content on the mechanical properties of oxide-carbide duplex ceramic composite**

**Kariminejad, Arash; Klimczyk, Piotr; Antonov, Maksim; Hussainova, Irina** Proceedings of the Estonian Academy of Sciences 2025 / p. 192-197 <https://doi.org/10.3176/proc.2025.2.20>

#### **Functionally gradient Ti6Al4V-TiB composite produced by spark plasma sintering**

**Liu, Le; Ivanov, Roman; Kumar, Rahul, 1993-; Minasyan, Tatevik; Antonov, Maksim; Hussainova, Irina** IOP conference series : materials science and engineering 2021 / art. 012004, 6 p.: ill <https://doi.org/10.1088/1757-899X/1140/1/012004>

#### **Generation and development of damage in double forged tungsten in different combined regimes of irradiation with extreme heat loads**

Paju, Jana; Väli, Berit; Laas, Tõnu; **Shirokova, Veroonika; Antonov, Maksim** Journal of nuclear materials 2017 / p. 91-102 : ill <https://doi.org/10.1016/j.jnucmat.2017.07.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

#### **High temperature erosion of Ti(Mo)C-Ni cermets**

**Hussainova, Irina; Pirso, Jüri; Antonov, Maksim; Juhani, Kristjan** Wear 2009 / 11, p. 1894-1899 : ill

#### **High temperature erosion-corrosion of wear protection materials**

Varga, Markus; Rojacz, Harald; Widder, Lukas; **Antonov, Maksim** Journal of Bio- and Tribo-Corrosion 2021 / art. 87 <https://doi.org/10.1007/s40735-021-00504-9> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **High temperature sliding wear of NiAl-based coatings reinforced by borides**

Umanskyi, Oleksandr; Poliarus, Olena; Ukrainets Maksym; **Antonov, Maksim; Hussainova, Irina** Medziagotyra 2016 / p. 49 - 53 <https://doi.org/10.5755/j01.ms.22.1.8093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **High temperature wear of cermet particle reinforced NiCrBSi hardfacing**

**Zikin, Arkadi; Antonov, Maksim; Hussainova, Irina** Tribology international 2013 / p. 45-55 : ill <https://doi.org/10.1016/j.triboint.2012.08.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **High-temperature erosion of Cr3-C2-based cermets**

**Hussainova, Irina; Antonov, Maksim** Abstracts of 10th Nordic Symposium on Tribology NORDTRIB 2002 / p. 112

#### **High-temperature erosion of Cr3C2-based cermets [Electronic resource]**

**Hussainova, Irina; Antonov, Maksim** Proceedings of 10th Nordic Symposium on Tribology NORDTRIB 2002 / Ref 21 [CD-ROM]

#### **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](#)

#### **High-temperature wear performance of hBN-added Ni-W composites produced from combustion-synthesized powders**

**Kumar, Rahul, 1993-; Aydinyan, Sofiya; Ivanov, Roman; Liu, Le; Antonov, Maksim; Hussainova, Irina** Materials 2022 / art. 1252 <https://doi.org/10.3390/ma15031252> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **Hot sliding wear of 88 wt.%TiB-Ti composites from SHS produced powders**

Kumar, Rahul, 1993-; Liu, Le; Antonov, Maksim; Ivanov, Roman; Hussainova, Irina Materials 2021 / art. 1242, 14 p.: ill  
<https://doi.org/10.3390/ma14051242> [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](#)

### **Hybrid metal-ceramic biomaterials fabricated through powder bed fusion and powder metallurgy for improved impact resistance of craniofacial implants**

Rahmani Ahranjani, Ramin; Kamboj, Nikhil Kumar; Brojan, Miha; Antonov, Maksim; Prashanth, Konda Gokuldoss Materialia 2022 / art. 101465 <https://doi.org/10.1016/j.mtla.2022.101465> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

### **Impact of pulsed deuterium plasma irradiation on dual-phase tungsten alloys**

Tökke, Siim; Laas, Tõnu; Primets, Jaanis; Mikli, Valdek; Antonov, Maksim Fusion engineering and design 2021 / art. 112215, 10 p. : ill <https://doi.org/10.1016/j.fusengdes.2020.112215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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 2024 / p. 456-472 : ill <https://doi.org/10.1177/07316844231164563> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

### **Influence of particle impact conditions and temperature on erosion–oxidation of steels at elevated temperatures**

Huttunen-Saarivirta, E.; Antonov, Maksim; Veinthal, Renno; Tuiremo, J.; Mäkelä, K.; Siitonen, P. Wear 2011 / p. 159-175 : ill

### **Investigation of boiler materials with relation to corrosion and wear : review**

Priss, Jelena; Klevtsov, Ivan; Dedov, Andrei; Antonov, Maksim Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 389-394 : ill

### **Investigation of the corrosion and tribological properties of WC-Co tools hardened with PVD coatings in solid oak wood processing**

Kazlauskas, Deividas; Jankauskas, Vytenis; Antonov, Maksim Coatings 2024 / art. 569 <https://doi.org/10.3390/coatings14050569> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of the high temperature dry sliding wear behavior of graphene nanoplatelets reinforced aluminum matrix composites**

Seçkin, Martin; Kandemir, Sinan; Antonov, Maksim Journal of composite materials 2021 / 13 p. : ill  
<https://doi.org/10.1177/002198320979037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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>

### **Laboratory testing of materials for tunnel boring machine drag bits**

**Katušin, Dmitri; Antonov, Maksim; Vu, Trieu Minh; Yung, Der-Liang** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 300-303 : ill

### **Lightweight 3D printed Ti6Al4V-AlSi10Mg hybrid composite for impact resistance and armor piercing shielding**

**Rahmani Ahranjani, Ramin; Antonov, Maksim; Brojan, Miha** Journal of materials research and technology 2020 / p. 13842-13854 : ill <https://doi.org/10.1016/j.jmrt.2020.09.108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Loodusest inspireeritud uued komposiitmaterjalid**

**Antonov, Maksim** Horisont 2019 / lk. 16-17 : fot [http://www.ester.ee/record=b1072243\\*est](http://www.ester.ee/record=b1072243*est)

### **Mapping of impact-abrasive wear performance of WC-Co cemented carbides**

**Antonov, Maksim; Veinthal, Renno; Yung, Der-Liang; Katušin, Dmitri; Hussainova, Irina** Wear 2015 / p. 971-978 : ill  
<https://doi.org/10.1016/j.wear.2015.02.031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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> [https://www.ester.ee/record=b5175834\\*est](https://www.ester.ee/record=b5175834*est)

### **Mechanical behavior of Ti6Al4V scaffolds filled with CaSiO3 for implant applications**

**Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri; Holovenko, Yaroslav; Prashanth, Konda Gokuldoss** Applied sciences 2019 / art. 3844, 11 p. : ill <https://doi.org/10.3390/app9183844> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mechanical characterization and wear performance of WC–ZrO2–Ni cermets produced by hot isostatic pressing**

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

### **Mechanical properties of polymers recovered from multilayer food packaging by nitric acid**

**Šleiniūtė, Agnė; Mumladze, Tamari; Denafas, Gintaras; Makarevičius, Vidas; Kriūkienė, Rita; Antonov, Maksim; Vasarevičius, Saulius** Sustainability (Switzerland) 2024 / art. 2106 <https://doi.org/10.3390/su16052106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Micromechanical properties and erosive wear performance of chromium carbide based cermets**

**Hussainova, Irina; Jasiuk, Iwona; Sardela, M.; Antonov, Maksim** Wear 2009 / p. 152-159 : ill

### **Microstructural aspects of ceramic-metal composites performance in erosive media**

**Hussainova, Irina; Antonov, Maksim; Volobujeva, Olga** Advances in science and technology 2006 / 11th International Ceramic Congress, p. 132-141 : ill

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

**Kumar, Rahul, 1993-; Torres, Hector; Rodriguez Ripoll, Manel; Antonov, Maksim; Hussainova, Irina** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 31 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Microstructure and high temperature tribological behaviour of self-lubricating Ti-TiBx composite doped with Ni-Bi**

**Kumar, Rahul, 1993-; Torres, Hector; Aydynyan, Sofiya; Antonov, Maksim; Varga, Markus; Rodriguez Ripoll, Manel; Hussainova, Irina** Surface and coatings technology 2022 / art. 128827 <https://doi.org/10.1016/j.surfcoat.2022.128827> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](#)

### **Modeling of microstructures and analysis of abrasive wear of arc-welded Hadfield steel**

**Jankauskas, Vytenis; Choteborsky, R.; Antonov, Maksim; Katinas, Egidijus** Journal of friction and wear 2018 / p. 78-84 : ill  
<https://doi.org/10.3103/S1068366618010142> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Modelling of impact-abrasive wear of ceramic, metallic, and composite materials**

**Rahmani Ahranjani, Ramin; Antonov, Maksim; Kamboj, Nikhil Kumar** Proceedings of the Estonian Academy of Sciences 2019 /

p. 191–197 : ill <https://doi.org/10.3176/proc.2019.2.11> [http://www.kirj.ee/public/proceedings\\_pdf/2019/issue\\_2/proc-2019-2-191-197.pdf](http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-191-197.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multifractal analysis of high-temperature plasma irradiated tungsten surfaces**

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; **Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim** Surface topography : metrology and properties 2021 / 13 p. : ill <https://doi.org/10.1088/2051-672X/ac1dc3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **NeTTUN project : how to increase the lifetime of TBM drag bits?**

Fridrici, V.; **Antonov, Maksim; Katušin, Dmitri; Yung, Der-Liang; Veinthal, Renno; Hussainova, Irina** 2nd Eastern European Tunnelling Conference "Tunneling in a Challenging Environment", Making tunneling business in difficult times : EETC 2014, Athens, Greece, 28 September - 1 October 2014 2014

### **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](https://www.researchgate.net/publication/288482524_New_high_frequency_surface_fatigue_wear_tester_Design_and_first_results)

### **Nitriding of the CoCr alloy substrate as the method for improving of the performance of promising biocoatings for hip replacement**

Ortega Saenz, Javier Alonso; **Antonov, Maksim**; Michalczewski, Remigiusz 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 44

### **Novel pathway for the combustion synthesis and consolidation of boron carbide**

Zakaryan, Marieta; Zurnachyan, Alina; Amirkhanyan, Narine; Kirakosyan, Hasmik; **Antonov, Maksim**; Rodriguez, Miguel Angel; **Aydinyan, Sofiya** Materials 2022 / art. 5042 <https://doi.org/10.3390/ma15145042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Oxidation of spark plasma sintered ZrC-Mo and ZrC-TiC composites**

Yung, Der-Liang; **Maaten, Birgit; Antonov, Maksim; Hussainova, Irina** International journal of refractory metals and hard materials 2017 / p. 244-251 : ill <https://doi.org/10.1016/j.jrmhm.2017.03.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Oxidation-abrasion of TiC-based cermets in SiC medium**

**Antonov, Maksim; Hussainova, Irina; Kübarsepp, Jakob; Traksmäa, Rainer** Wear 2011 / p. 23-31 : ill

### **Particle reinforced polymer composites resistance to three body abrasive wear**

**Aruniit, Aare; Antonov, Maksim; Kers, Jaan; Krumme, Andres** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

### **Performance of Al<sub>2</sub>O<sub>3</sub>-cBN materials and the perspective of using hyperspectral imaging during cutting tests**

**Antonov, Maksim; Zahavi, Ali; Kumar, Rahul, 1993-; Tamre, Mart; Klimczyk, Piotr** IOP conference series : materials science and engineering 2021 / art. 012029, 5 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012029>

### **Performance of Al<sub>2</sub>O<sub>3</sub>-cBN materials and the perspective of using hyperspectral imaging during cutting tests**

**Antonov, Maksim; Zahavi, Ali; Kumar, Rahul, 1993-; Tamre, Mart; Klimczyk, Piotr** Proceedings of the Estonian Academy of Sciences 2021 / p. 524-532 : ill <https://doi.org/10.3176/proc.2021.4.21> [Journal Metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Kumar, Rahul, 1993-; Malaval, Bastien; Antonov, Maksim; Zhaoc, 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](#)

### **Perspectives of metal-diamond composites additive manufacturing using SLM-SPS and other techniques for increased wear-impact resistance**

**Rahmani Ahranjani, Ramin; Brojan, Miha; Antonov, Maksim; Prashanth, Konda Gokuldoss** International journal of refractory metals and hard materials 2020 / art. 105192, 13 p. : ill <https://doi.org/10.1016/j.jrmhm.2020.105192> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Physical-chemical interaction in NiAl-MeB<sub>2</sub> systems intended for tribological applications**

Umanskiy, Oleksandr; Poliarus, Olena; Ukrainets, Maksym; **Antonov, Maksim** Welding journal 2015 / p. 225-230 : ill <https://aws-p-001-delivery.sitecorecontenthub.cloud/api/public/content/de3281a8c6654d108b8b8dfcdf286c4b?v=1c0c676e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Progress in sustainable recycling and circular economy of tungsten carbide hard metal scraps for industry 5.0 and onwards**

**Kumar, Rahul, 1993-; Kariminejad, Arash; Antonov, Maksim; Goljandin, Dmitri; Klimczyk, Piotr; Hussainova, Irina** Sustainability 2023 / art. 12249 <https://doi.org/10.3390/su151612249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Raman spectroscopy for reliability assessment of multilayered AlCrN coating in tribo-corrosive conditions [Online resource]**

**Baroninš, Janis; Antonov, Maksim; Bereznev, Sergei; Raadik, Taavi; Hussainova, Irina** Coatings 2018 / art. 229, 12 p. : ill <https://doi.org/10.3390/coatings8070229> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

**Recycled wc powder for manufacturing of duplex interpenetrating tool materials for dry machining**

**Kariminejad, Arash; Antonov, Maksim; Hussainova, Irina; Goljandin, Dmitri; Kumar, Rahul, 1993-; Klimczyk, Piotr** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / 1 p <https://fmttk.ut.ee/programm-2023/>

**Recycling of waste printed circuit boards by mechanical milling**

**Goljandin, Dmitri; Kulu, Priit; Klauson, Aleksander; Antonov, Maksim** Proceedings of the Estonian Academy of Sciences 2024 / p. 43-49 <https://doi.org/10.3176/proc.2024.1.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Regression models and fuzzy logic prediction of TBM penetration rate**

**Vu, Trieu Minh; Katušin, Dmitri; Antonov, Maksim; Veinthal, Renno** Open engineering 2017 / p. 60-68 : ill <https://doi.org/10.1515/eng-2017-0012> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Reliability aspects of PVD coatings sliding under wear and corrosive conditions = PVD pinnete töökindluse aspektid liughõõrdumise ja korrosiooni tingimustes**

**Baroninš, Janis** 2018 <https://digi.lib.ttu.ee/i/?11163> [https://www.ester.ee/record=b5174063\\*est](https://www.ester.ee/record=b5174063*est)

**Reliability assessment of cutting tool materials using surface fatigue device**

**Kumar, Rahul, 1993-; Antonov, Maksim** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 48 <http://fmttk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Research of abrasive erosion wear for Fe-C-Cr-B hard layers**

**Janauskas, V.; Kreivaitis, R.; Kulu, Priit; Antonov, Maksim; Milcius, D.; Varnauskas, V.** Mechanika 2008 / 4, p. 71-76 : ill <https://mechanika.ktu.lt/index.php/Mech/article/view/15098>

**Review of existing devices for erosion-corrosion testing of materials [Online resource]**

**Baroninš, Janis; Antonov, Maksim; Hussainova, Irina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmttk.ut.ee/teesid/>

**Rippling on wear scar surfaces of nanocrystalline diamond films after reciprocating sliding against ceramic balls**

**Podgurski, Vitali; Hantschel, Thomas; Bogatov, Andrei; Kimmari, Eduard; Antonov, Maksim; Viljus, Mart; Mikli, Valdek; Raadik, Taavi; Kulu, Priit** Tribology letters 2014 / p. 493-501 : ill <https://doi.org/10.1007/s11249-014-0379-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Role of laser remelting and heat treatment in mechanical and tribological properties of selective laser melted Ti6Al4V alloy**

**Karimi, Javad; Antonov, Maksim; Kollo, Lauri; Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 163207 <https://doi.org/10.1016/j.jallcom.2021.163207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Selective laser melting of diamond-containing or postnitrided materials intended for impact-abrasive conditions: experimental and analytical study**

**Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri** Advances in materials science and engineering 2019 / art. 4210762 ; 11 p. : ill <https://doi.org/10.1155/2019/4210762> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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



### **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 behaviour of basalt containing composites with additions of either metallic and/or ceramic phases**

**Antonov, Maksim; Goljandin, Dmitri; Andreev, A.; Voltšihhin, Nikolai; Hussainova, Irina** BaltTrib 2013 : VII International Scientific Conference : proceedings 2013 / p. 67-72 : ill

### **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](#)

### **Sliding wear performance of AlCrN coating on TiB<sub>2</sub>/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](#)

### **Sliding wear performance of in-situ spark plasma sintered Ti-TiB<sub>w</sub> composites at temperatures up to 900 °C**

**Kumar, Rahul, 1993-; Antonov, Maksim; Liu, Lei; Hussainova, Irina** Wear 2021 / art. 203663, 9 p.: ill

<https://doi.org/10.1016/j.wear.2021.203663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Slurry erosion testing of steel with oil shale ash as abrasive**

**Priss, Jelena; Klevtsov, Ivan; Juhani, Kristjan; Antonov, Maksim** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 300-302 : ill

### **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 Cr<sub>3</sub>C<sub>2</sub>-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

### **Spark plasma sintered ZrC-Mo cermets : influence of temperature and compaction pressure**

**Yung, Der-Liang; Antonov, Maksim; Hussainova, Irina** Ceramics international 2016 / p. 12907-12913 : ill

<https://doi.org/10.1016/j.ceramint.2016.05.059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Spark plasma sintering of combustion synthesized TiB<sub>2</sub>-Si composite**

**Liu, Le; Aydinyan, Sofiya; Minasyan, Tatevik; Baroninš, Janis; Antonov, Maksim;** Kharatyan, Suren; **Hussainova, Irina**

Ceramics in modern technologies 2019 / p. 59-66 <https://doi.org/10.29272/cmt.2018.0009>

### **Structural and mechanical properties of laminate-type thin film SWCNT/SiOXNY composites**

**Shmagina, Elizaveta; Volobujeva, Olga; Antonov, Maksim; Bereznev, Sergei** SICT 2024, PLASMA TECH 2024 and

TRIBOLOGY 2024 : JOINT international conferences : book of abstracts 2024 / p. 142 <https://www.setcor.org/conferences/tribology-2024/conference-program>

### **Structural, mechanical, and optical properties of laminate-type thin film SWCNT/SiOxNy composites**

**Shmagina, Elizaveta; Antonov, Maksim;** Kasikov, Aarne; **Volobujeva, Olga;** Khabushev, Eldar M.; Kallio, Tanja; **Bereznev, Sergei** Nanomaterials 2024 / art. 1806 <https://doi.org/10.3390/nano14221806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structure, phase composition, and wear mechanisms of plasma-sprayed NiCrSiB-20wt.% TiB<sub>2</sub> coatings**

Umanskii, A.; Storozhenko, M.; **Hussainova, Irina; Antonov, Maksim** Powder metallurgy and metal ceramics 2015 / p. 663-671 : ill

<https://doi.org/10.1007/s11106-015-9661-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Study of submerged and plasma arc welded composite hardfacings with a novel Cr3C2–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

### **Subsurface of Cr3C2-Ni cermets modified by wear [Electronic resource]**

Antonov, Maksim; Hussainova, Irina Proceedings of the 10th International Conference of the European Ceramic Society 2008 / ? p. [CD-ROM] [https://www.academia.edu/24587100/Subsurface\\_of\\_Cr\\_3\\_C\\_2\\_Ni\\_Cermets\\_Modified\\_by\\_Wear](https://www.academia.edu/24587100/Subsurface_of_Cr_3_C_2_Ni_Cermets_Modified_by_Wear)

### **Superhard CBN-AL2O3 composites for cutting tool applications**

Kumar, Rahul, 1993-; Antonov, Maksim Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

### **Sustainable fabrication of polypropylene-postconsumer cotton composite materials : circularity, characterization, mechanical testing, and tribology**

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Viljus, Mart; Krasnou, Illia Materials today sustainability 2023 / art. 100344, 16 p. : ill <https://doi.org/10.1016/j.mtsust.2023.100344> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Synergistic effect of Ag and MoS2 on high-temperature tribology of self-lubricating NiCrBSi composite coatings by laser metal deposition**

Kumar, Rahul, 1993-; Antonov, Maksim; Varga, Markus; Hussainova, Irina; Rodríguez Ripoll, Manel Wear 2023 / art. 205114 <https://doi.org/10.1016/j.wear.2023.205114> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **ZrC-based and ZrC-doped composites for high-temperature and wear applications = ZrC baasil ja ZrC-ga legeritud komposiitmaterjalid rakendusteks kõrgtemperatuursetes ja kulumistingimustes**

Yung, Der-Liang 2016 [http://www.ester.ee/record=b4621174\\*est](http://www.ester.ee/record=b4621174*est)

### **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

### **Tekstiiljäätmete ringmajandamine nõuab praegusest tõhusamat tehnoloogiat [Võrguväljaanne]**

Hellerma, Juhan novaator.err.ee 2021 / fot [Tekstiiljäätmete ringmajandamine nõuab praegusest tõhusamat tehnoloogiat](http://www.ester.ee/record=b4621174*est)

### **Temperature-induced wear micro-mechanism transition in additively deposited nickel alloys with different solid lubricants**

Kumar, Rahul, 1993-; Hussainova, Irina; Antonov, Maksim; Maurya, Himanshu Singh; Rodríguez Ripoll, Manel Wear 2024 / art. 205452 <https://doi.org/10.1016/j.wear.2024.205452> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **The assessment of the coated elements behaviour before and after scuffing under four-ball lubricated testing conditions**

Michalczewski, Remigiusz; Antonov, Maksim; Vlad, Mihaela; Szczerek, Marian; Hussainova, Irina Proceedings of the 2nd European Conference on Tribology ECOTRIB 2009 : Pisa, Italy, June 7-10, 2009 2009 / p. 107-112

### **The effect of fine erodent retained on the surface during erosion of metals, ceramics, plastic, rubber and hardmetal**

Antonov, Maksim; Pirso, Jüri; Goljandin, Dmitri; Vallikivi, Ahto; Hussainova, Irina Wear 2016 / p. 53-68 : ill <https://doi.org/10.1016/j.wear.2016.02.018> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **The effect of low-friction PVD coatings on scuffing and pitting resistance of spur gears**

Michalczewski, Remigiusz; Szczerek, Marian; Tuszyński, Waldemar; Wulczyński, Jan; Antonov, Maksim Tribologia : teoria i praktyka 2013 / p. 55-66 : ill

### **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.jrmhm.2022.106079> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

**The effect of Zinc Oxide on DLP hybrid composite manufacturability and mechanical-chemical resistance**

Baroninš, Janis; **Antonov, Maksim**; Abramovskis, Vitalijs; Rautmane, Aija; Lapkovskis, Vjaceslavs; Bockovs, Ivans; Goel, Saurav; Kumar Thakur, Vijay; Shishkin, Andrei Polymers 2023 / art. 4679, p. 1–19 <https://doi.org/10.3390/polym15244679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effect of test conditions on the erosion resistance of cermets**

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

**The impact resistance of highly densified metal alloys manufactured from gas-atomized pre-alloyed powders**

**Rahmani Ahranjani, Ramin; Antonov, Maksim; Prashanth, Konda Gokuldoss** Coatings 2021 / art. 216, 14 p. : ill <https://doi.org/10.3390/coatings11020216> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

**The wear mechanism in heavy-loaded lubricated coated/steel sliding contacts**

Vlad, Mihaela; Szczerek, Marian; Michalczewski, Remigiusz; **Antonov, Maksim** Tribologia 2010 / 6, p. 153-168 : ill [https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://bibliotekanauki.pl/articles/190040.pdf&ved=2ahUKewi29Zn44oeIAxhMhAIHUbTCiYQFnoECBIQAQ&usq=AOvVaw2FT2xYT98MhnLtuIMDb\\_IU](https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://bibliotekanauki.pl/articles/190040.pdf&ved=2ahUKewi29Zn44oeIAxhMhAIHUbTCiYQFnoECBIQAQ&usq=AOvVaw2FT2xYT98MhnLtuIMDb_IU)

**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](#)

**Thermal residual stresses in chromium carbide based cermets**

Jasiuk, Iwona; **Hussainova, Irina**; Hamed, Elham; Yang, Ning; **Antonov, Maksim** Proceedings of the 8th International Congress on Thermal Stresses, 1-4 June 2009 : Thermal Stresses 2009 : Abstract book vol. 2 2009 / p. 483-486 : ill

**Thermal shock behaviour of cermets**

**Antonov, Maksim; Pirso, Jüri; Hussainova, Irina**; Klug, Markus Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 75

**Thermal shock resistance of chromium carbide-based cermets**

**Antonov, Maksim; Pirso, Jüri** Encyclopedia of thermal stresses 2014 / p. 5128-5135 : ill

**Thermophysical properties and thermal shock resistance of chromium carbide based cermets**

**Antonov, Maksim; Hussainova, Irina** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 358-367 : ill

**Thermo-physical properties and thermal shock resistance of chromium carbide based cermets**

**Antonov, Maksim; Hussainova, Irina** 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 26-27 : ill

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

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

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

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

**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](#)

#### **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 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; Rodriguez Ripoll, Manel** Surface and coatings technology 2023 / art. 129270, 14 p. : ill <https://doi.org/10.1016/j.surfcoat.2023.129270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Tribological properties of nanocrystalline diamond coating at high temperature sliding condictions [Online resource]**

**Yashin, Maxim; Baroninš, Janis; Menezes, Pradeep; Viljus, Mart; Raadik, Taavi; Bogatov, Andrei; Antonov, Maksim; Podgurski, Vitali** 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. : ill <http://fntdk.ut.ee/teesid-2018/>

#### **Tribology of alumina materials for the circular economy of manufacturing textile industries**

**Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Viljus, Mart** Proceedings of the Estonian Academy of Sciences 2021 / lk. 215-220 : ill <https://doi.org/10.3176/proc.2021.3.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Tungsten carbide material tribology and circular economy relationship in polymer and composites industries**

**Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim; Abbas, Muhammad Mujtaba; Rizwan, Muhammad** Proceedings of the Institution of Mechanical Engineers, Part L : Journal of Materials : Design and Applications 2022 / p. 2066-2073 <https://doi.org/10.1177%2F14644207221096929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Ultra high-pressure spark plasma sintered ZrC-Mo and ZrC-TiC composites**

**Yung, Der-Liang; Cygan, Slawomir; Antonov, Maksim; Jaworska, Lucyna; Hussainova, Irina** International journal of refractory metals and hard materials 2016 / p. 201-206 : ill <https://doi.org/10.1016/j.jrmhm.2016.09.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### **Wear behavior of Co-free hardmetals doped by zirconia and produced by conventional PM and SPS routines**

**Hussainova, Irina; Antonov, Maksim; Voltšihhin, Nikolai; Kübarsepp, Jakob** Wear 2014 / p. 83-90 : ill <https://doi.org/10.1016/j.wear.2014.01.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Wear behaviour and wear mechanisms of different hardmetal grades in comparison with polycrystalline diamond in a new impact-abrasion test**

**Konyashin, I.; Antonov, Maksim; Ries, B.** International journal of refractory metals and hard materials 2020 / art. 105286 <https://doi.org/10.1016/j.jrmhm.2020.105286> [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; Sertvytis, 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 behaviour of doped WC–Ni based hardmetals tested by four methods**

**Yung, Der-Liang; Antonov, Maksim; Veinthal, Renno; Hussainova, Irina** Wear 2016 / p. 171-179 : ill <https://doi.org/10.1016/j.wear.2016.02.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Wear mechanisms of PM-HIP tool steels under low and high-stress abrasion : role of carbide type and content**

**Kumar, Rahul, 1993-; Antonov, Maksim; Berglund, Tomas; Pampori, Tabeen Halawat; Maurya, Himanshu Singh; Viljus, Mart** Journal of materials research and technology 2025 / p. 7016-7025 <https://doi.org/10.1016/j.jmrt.2025.04.317>



**Wear performance of hierarchically structured alumina reinforced by hybrid graphene encapsulated alumina nanofibers**

Hussainova, Irina; Baroninš, Janis; Drozdova, Maria; Antonov, Maksim Wear 2016 / p. 287-295 : ill

<https://doi.org/10.1016/j.wear.2016.09.028> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Yashin, Maxim; Baroninš, Janis; Menezes, Pradeep; Viljus, Mart; Raadik, Taavi; Bogatov, Andrei; Antonov, Maksim;

Podgurski, Vitali Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 219-223 : ill

<https://doi.org/10.4028/www.scientific.net/SSP.267.219> Conference proceedings at Scopus Article at Scopus

**Wear resistance analysis of duplex interpenetrating ceramic composites via in-situ vibration monitoring**

Kariminejad, Arash; Auriemma, Fabio; Antonov, Maksim; Klimczyk, Piotr; Hussainova, Irina International journal of refractory metals and hard materials 2026 / art. 107454 <https://doi.org/10.1016/j.jirmhm.2025.107454>

**Wear resistance influencers of particle reinforced polymer composite**

Aruniit, Aare; Kers, Jaan; Krumme, Andres; Antonov, Maksim; Allikas, Georg; Herranen, Henrik; Pabut, Ott Proceedings of 19th International Conference on Composite Materials (ICCM19) 2013

**Wear resistance of (Diamond-Ni)-Ti6Al4V gradient materials prepared by combined selective laser melting and spark plasma sintering techniques**

Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri Advances in tribology 2019 / art. 5415897, 12 p. : ill

<https://doi.org/10.1155/2019/5415897> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Verification of new 1000 [degree] C tester designed for investigation of wear-corrosion properties of advanced materials for high temperature applications**

Antonov, Maksim; Hussainova, Irina; Kimmari, Eduard; Juhani, Kristjan Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 395-399 : ill

<http://innomet.ttu.ee/daaam08/online/Materials%20Engineering/Antonov.pdf>

**Wetting and interfacial behaviour in the TiB2-NiCrBSiC system**

Storozhenko, Maryna; Umanskyi, Oleksandr; Antonov, Maksim Journal of alloys and compounds 2019 / p. 15-22 : ill

<https://doi.org/10.1016/j.jallcom.2018.11.102> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**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](https://www.researchgate.net/publication/265794312_Vickers_hardness_of_ceramics_fired_at_different_temperatures)

**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