

Ab initio calculations of elastic properties of isotropic and oriented Ti(1-x)AlxN hard coatings

Podgurski, Vitali Journal of physics D : applied physics 2007 / 13, p. 4021-4026

ArF laser ablation deposited NdFeB films on silicon

Kruusing, Arvi; Podgurski, Vitali International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 156-159: ill

Changes in surface morphology, deflection and wear of microcrystalline diamond film observed during sliding tests against Si₃N₄ balls

Bogatov, Andrei; Traksmas, Rainer; Podgurski, Vitali 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. 145-151 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.145>

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>

Co on thin Al₂O₃ films grown on Ni₃Al(1 0 0)

Podgurski, Vitali; Costina, Ioan; Franchy, R. Surface science 2003 / p. 419-427

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

Color center fluorescence and spin manipulation in single crystal, pyramidal diamond tips

Nelz, Richard; Fuchs, Philipp; Podgurski, Vitali Applied physics letters 2016 / p. 193105-1 - 193105-4 : ill <http://dx.doi.org/10.1063/1.4967189>

Comparative analyses of tribological behavior of ultra nanocrystalline diamond films prepared on different substrates [Online resource]

Yashin, Maxim; Bogatov, Andrei; Podgurski, Vitali; Sahul, Martin; Čaplovič, Lubomir 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/>

Comparative analysis of two methods for evaluating wear rate of nanocrystalline diamond films

Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Menezes, Pradeep; Podgurski, Vitali Engineering materials and tribology XXV 2017 / p. 345-350 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.345>

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

A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystal diamond and Si(100) substrates

Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Volobujeva, Olga; Mere, Arvo; Raadik, Taavi Diamond and related materials 2019 / p. 159-167 : ill <https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Congruent laser ablation due to pre-irradiation of target

Podgurski, Vitali; Friesel, M. Physica C 2000 / p. 49-52 : ill

Contact-mode scanning tunneling microscopy experimental technique employed for tunneling magnetoresistance measurements

Podgurski, Vitali; Adam, R.; Teske, M.; Krämer, Martina; Franchy, R. Review of scientific instruments 2006 / p. 033906-1 - 033906-3 : ill

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

Diamond-like carbon coatings on NdFeB magnets

Kruusing, Arvi; Podgurski, Vitali; Osvet, Andres; Herranen, Merja Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 1, p. 26-33: ill

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>

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 <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.414>

Evaluation of wear rate of nanocrystalline diamond films using Abbott curve

Bogatov, Andrei; Podgurski, Vitali Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 185-189 : ill <http://dx.doi.org/10.4028/www.scientific.net/SSP.267.185>

Evolution of TiN coating surface roughness during physical vapor deposition on high speed steel substrate

Kupchenko, Leonid; Tali, Rauno; Adoberg, Eron; Mikli, Valdek; Podgurski, Vitali Engineering materials & tribology XXII 2014 / p. 67-70

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 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](http://dx.doi.org/10.1016/j.aiepr.2022.11.001)

Experimental mechanics analysis of recycled polypropylene-cotton composites for commercial applications

Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Abbas, Muhammad Mujtaba; Krasnou, Illia Advanced industrial and engineering polymer research 2023 / p. 226-238 : ill <https://doi.org/10.1016/j.aiepr.2022.11.001>

Growth dynamics of nanocrystalline diamond films produced by microwave plasma enhanced chemical vapor deposition in methane/hydrogen/air mixture : scaling analysis of surface morphology

Podgurski, Vitali; Bogatov, Andrei; Sedov, V.; Sildos, Ilmo; Mere, Arvo; Viljus, Mart; Buijnsters, J. G.; Ralchenko, V. Diamond and related materials 2015 / p. 172-179 : ill <http://dx.doi.org/10.1016/j.diamond.2015.07.002>

Growth of Co nanoparticles on a nanostructured [thetha]-Al₂O₃ film on CoAl(100)

Rose, V.; **Podgurski, Vitali**; David, Rudolf; Francy, R. Surface science 2007 / 3, p. 786-791 : ill

Growth of ultra-thin amorphous Al₂O₃ films on CoAl(1 0 0)

Rose, V.; **Podgurski, Vitali**; Costina, Ioan; Franchy, R. Surface science 2003 / p. 128-136

Growth, thermal stability, and magnetic properties of Co films on Ni₃Al(001)

Van Eek, Stella M.; Costina, Ioan; **Podgurski, Vitali**; David, Rudolf; Franchy, Rene Journal of applied physics 2006 / p. 114310-1 - 114310-10 <https://pubs.aip.org/aip/jap/article/99/11/114310/144105/Growth-thermal-stability-and-magnetic-properties>

Hard coatings manufacturing technology used in tooling

Gregor, Andre; Podgurski, Vitali; Adoberg, Eron; Kulu, Priit Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 255-260 : ill

High temperature oxidation of CoAl(100)

Volker, R.; **Podgurski, Vitali**; Costina, Ioan; Franchy, R.; Ibach, H. J.Appl. surface science 2005 / p. 139-150

High temperature tribological performance of adaptive hard nanocomposite coatings deposited on a WC-Co substrate

Alamgir, Asad; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Sondor, J.; Podgurski, Vitali GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 12 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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; Lümekemann, 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; Lümekemann, 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/nAlCo-CrN/AlCrN-AlCrO-AlTiCrN coating deposited on WC-Co substrate

Alamgir, Asad; Yashin, Maxim; Bogatov, Andrei; Viljus, Mart; Traksmaa, Rainer; Sondor, Jozef; Lümekemann, 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](#)

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 drag finishing to dry sliding wear behaviour of PVD nanocomposite nAlCo coating during running-in

Surženkov, Andrei; Podgurski, Vitali; Viljus, Mart; Adoberg, Eron; Nanits, Mats-Maidu; Kulu, Priit; Veinthal, Renno Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 26

Influence of 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 : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 38

Investigation of morphology changes on nanocrystalline diamond film surfaces during reciprocating sliding against Si₃N₄ balls

Bogatov, Andrei; Podgurski, Vitali; Raadik, Taavi; Kamjula, A. R.; Hantschel, Thomas; Tsigkourakos, M.; Kulu, Priit Engineering materials & tribology XXII 2014 / p. 126-129

Investigation of surface morphology of Nd₂Fe₁₄B and Nd₂Fe₁₄B+DLC thin films

Podgurski, Vitali; Kruusing, Arvi Proceedings of the Third National DAAAM Conference in Estonia : SCIENCE '98 1998 / p. 107-109: ill

Investigation of (Ti, Al)N based coatings grown by physical vapor deposition

Podgurski, Vitali; Torp, Bo; Traksmaa, Rainer; Veinthal, Renno; Viljus, Mart; Coddet, Olivier; Morstein, Marcus; Gregor, Andre; Kulu, Priit Materials science = Medžiagotyra 2005 / 4, p. 352-355 : ill

Laser ablation and thermal evaporation of thin films and structures

Podgurski, Vitali 2001 https://www.ester.ee/record=b1507144*est

Laser ablation deposition

Podgurski, Vitali Proceedings of the First National DAAAM Conference in Estonia : Science '95 1996 / p. 76-79: ill

Laser ablation deposition of NbFeB and CuInSe

Podgurski, Vitali Junior EUROMAT '96 : European Conference : August 26-30, Lausanne, Switzerland : [abstracts] 1996

Laser ablation of Nd-Fe-B magnets

Kruusing, Arvi; Podgurski, Vitali; Mikli, Valdek Proceedings of the Estonian Academy of Sciences. Engineering 1996 / 1, p. 137-142: ill

Magnetic shape memory (MSM) effect in textured polycrystalline Ni₂MnGa

Ezer, Y.; Sozinov, A.; Kimmel, G.; Etelaniemi, V.; Glavatskaja, N.I.; Anci, A.D.; Podgurski, Vitali; Lindroos, V.K.; Ullakko, K. Smart materials technologies : 3-4 March, 1999, Newport Beach, California 1999 / p. 244-251 : ill

Mechanical and tribological properties of 100-nm thick alumina films prepared by atomic layer deposition on Si(100) substrates

Alamgir, Asad; Bogatov, Andrei; Yashin, Maxim; Podgurski, Vitali Proceedings of the Estonian Academy of Sciences 2019 / p. 126-130 : ill <https://doi.org/10.3176/proc.2019.2.01> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-126-130.pdf [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](#)

Multifunctional, multilayered and nanostructured hard coatings

Podgurski, Vitali Nanopowders, Nanostuctured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 25-26

Nanocrystalline diamond films deformation observed during sliding tests against Si₃N₄ balls as a possible cause for ripple formation on wear scars surface

Bogatov, Andrei; Viljus, Mart; Raadik, Taavi; Hantschel, Thomas; Podgurski, Vitali Medžiagotyra = Materials science 2015 / p. 349-352 : ill <http://dx.doi.org/10.5755/j01.ms.21.3.7232>

Nanopowders and nanostructured coatings

Kulu, Priit; Zimakov, Sergei; Podgurski, Vitali; Peetsalu, Priidu; Tarbe, Riho Nanopowders, Nanostuctured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 8

Ni₂MnGa thin films deposited by laser ablation

Podgurski, Vitali; Galambos, Szabolcs Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 229-232 : ill

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

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

Production of fine powders by laser light

Kruusing, Arvi; Podgurski, Vitali; Mikli, Valdek Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / I. 9-12: ill https://www.ester.ee/record=b1492085*est

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 of permanent magnet microfabrication technology and electromagnetic microdevices at Tallinn Technical University

Kruusing, Arvi; Podgurski, Vitali Proceedings of the Third Micro Structure Workshop : March 24-25, 1998 1998 / p. 71-78

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

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>

Roughness of TiN and nanocomposite nc-Ti_{1-x}Al_xN/[alpha]-Si₃N₄ surface evaluated by means of AFM

Podgurski, Vitali; Nisumaa, Reet; Gregor, Andre; Adoberg, Eron; Kulu, Priit Latvijas kimijas žurnals = Latvian journal of chemistry 2008 / 1, p. 62-66 : ill

Study of phase transitions within alumina grown on top of CoAl(100) surface

Podgurski, Vitali; Rose, V.; Costina, Ioan; Francy, R. Surface science 2007 / 16, p. 3315-3323 : ill <https://www.sciencedirect.com/science/article/pii/S0039602807006371>

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>

The coexistence of [gamma(gamma')] and [teeta] alumina observed by STM and LEED on top of oxide layer grown on CoAl(1 0 0)

Podgurski, Vitali; Rose, V.; Costina, J.; Franchy, R. Applied surface science 2006 / 24, p. 8394-8398 : ill

The effect of surface pre-treatment and coating post-treatment to the properties of TiN coatings

Adoberg, Eron; Podgurski, Vitali; Peetsalu, Priidu; Lind, Liina; Mikli, Valdek; Hvizdoš, Pavol; **Kulu, Priit** Estonian journal of engineering 2012 / p. 185-192 : ill https://kirj.ee/public/Engineering/2012/issue_3/Eng-2012-3-185-192.pdf

The influence of target surface alterations on pulsed laser deposited YBa₂Cu₃O_{7-x} film properties

Podgurski, Vitali Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 1, p. 14-24 : ill
https://artiklid.elnet.ee/record=b1003509*est

The structure and magnetic properties of Co films on Ni₃Al(0 0 1)

Van Eek, Stella M; Costina, Ioan; **Podgurski, Vitali;** Franchy, Rene Journal of magnetism and magnetic materials 2004 / p. 1607-1608 : ill

Thin films by laser ablation

Podgurski, Vitali; Kruusing, Arvi; Altosaar, Mare; Krunks, Malle; Mellikov, Enn International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 199

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, Iosif 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](#)

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 carbon nanofibers deposited on hard nanocomposite (nc-Ti_{1-x}Al_xN)/(a-Si₃N₄) coating

Kimmari, Eduard; Podgurski, Vitali; Simunin, M.; Adoberg, Eron; Surženkov, Andrei; Viljus, Mart; Hartelt, M.; Wäsche, R.; **Sildos, Ilmo; Kulu, Priit** Surface & coatings technology 2013 / p. 21-25 : ill

Tribological properties of nanocrystalline diamond coating at high temperature sliding conduction [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://fmdtk.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 thin Al₂O₃ films grown on Ni₃Al(1 0 0)

Podgurski, Vitali; Costina, Ioan; Franchy, R. Applied surface science 2003 / p. 29-36 : ill

<https://www.sciencedirect.com/science/article/pii/S0169433202008024>

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 of hard coatings evaluated by means of kaloMax

Podgurski, Vitali; Gregor, Andre; Adoberg, Eron; Kulu, Priit 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 64-65

Wear of hard coatings, evaluated by means of kaloMax

Podgurski, Vitali; Gregor, Andre; Adoberg, Eron; Kulu, Priit Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 419-426 : 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>

Лазерная абляция магнитных и полупроводниковых материалов : работа ... магистра технических наук

Podgurski, Vitali 1996 https://www.ester.ee/record=b2681294*est