

**Adaptive wear mechanisms of diamond coatings at room and elevated temperatures = Teemantpinnette adaptiivkulumise mehhanismid toa- ja kõrgendatud temperatuuridel**

**Yashin, Maxim** 2019 <https://digikogu.taltech.ee/et/item/6cb35baa-eb31-42e2-8134-3235c7f796ef>

**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

**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://fmtdk.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>

**A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystaldiamond 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

**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>

**Evaluation of wear rate of nanocrystalline diamond films esing 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>

**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>

**High temperature tribological properties of Al<sub>2</sub>O<sub>3</sub>/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

**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

**Transition from self-organized criticality into self-organization during sliding Si<sub>3</sub>N<sub>4</sub> 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 properties of nanocrystalline diamond coating at high temperature sliding conductions [Online resource]**

**Yashin, Maxim; Baroniņš, 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://fmtdk.ut.ee/teesid-2018/>

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

**Yashin, Maxim; Baroniņš, 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

