

# Oleksii Nosko

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

475  
citations

840585

11  
h-index

752573

20  
g-index

31  
all docs

31  
docs citations

31  
times ranked

337  
citing authors

#	ARTICLE	IF	CITATIONS
1	A concept for reducing PM 10 emissions for car brakes by 50%. <i>Wear</i> , 2018, 396-397, 135-145.	1.5	68
2	A Study on Emission of Airborne Wear Particles from Car Brake Friction Pairs. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 9, 147-157.	0.3	61
3	Emission of $1.3 \times 10^6$ nm airborne particles from brake materials. <i>Aerosol Science and Technology</i> , 2017, 51, 91-96.	1.5	55
4	Quantification of ultrafine airborne particulate matter generated by the wear of car brake materials. <i>Wear</i> , 2017, 374-375, 92-96.	1.5	52
5	Effective density of airborne wear particles from car brake materials. <i>Journal of Aerosol Science</i> , 2017, 107, 94-106.	1.8	39
6	Prevention of resonance oscillations in gear mechanisms using non-circular gears. <i>Mechanism and Machine Theory</i> , 2017, 114, 1-10.	2.7	33
7	Partition of friction heat between sliding semispaces due to adhesion-deformational heat generation. <i>International Journal of Heat and Mass Transfer</i> , 2013, 64, 1189-1195.	2.5	23
8	Measurement of temperature at sliding polymer surface by grindable thermocouples. <i>Tribology International</i> , 2015, 88, 100-106.	3.0	16
9	Porosity and shape of airborne wear microparticles generated by sliding contact between a low-metallic friction material and a cast iron. <i>Journal of Aerosol Science</i> , 2017, 113, 130-140.	1.8	14
10	Correlations between the wear of car brake friction materials and airborne wear particle emissions. <i>Wear</i> , 2020, 456-457, 203361.	1.5	14
11	A pin-on-disc study of airborne wear particle emissions from studed tyre on concrete road contacts. <i>Wear</i> , 2018, 410-411, 165-172.	1.5	13
12	Performance of acicular grindable thermocouples for temperature measurements at sliding contacts. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 181, 109641.	2.5	11
13	Application of the generalized boundary condition to solving thermal friction problems. <i>Journal of Friction and Wear</i> , 2009, 30, 455-462.	0.1	10
14	Calculation of temperature of carbon disks of aircraft brakes with account of heat exchange with the environment. <i>Journal of Friction and Wear</i> , 2012, 33, 233-238.	0.1	9
15	Thermoelastic problem of friction of plane-parallel layers with allowance for nonstationarity of thermal processes. <i>Journal of Friction and Wear</i> , 2010, 31, 317-325.	0.1	8
16	Analytical Study of Sliding Instability due to Velocity- and Temperature-Dependent Friction. <i>Tribology Letters</i> , 2016, 61, 1.	1.2	7
17	Inverse determination of sliding surface temperature based on measurements by thermocouples with account of their thermal inertia. <i>Tribology International</i> , 2021, 164, 107200.	3.0	7
18	Analytical solution of non-stationary heat conduction problem for two sliding layers with time-dependent friction conditions. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 624-630.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Perfect thermal contact of hyperbolic conduction semispaces with an interfacial heat source. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120541.	2.5	6
20	Mathematical simulation of thermal friction processes under conditions of nonideal contact. <i>High Temperature</i> , 2009, 47, 123-130.	0.1	5
21	Hyperbolic heat conduction at a microscopic sliding contact with account of adhesion-deformational heat generation and wear. <i>International Journal of Thermal Sciences</i> , 2019, 137, 101-109.	2.6	5
22	Thermal boundary conditions to simulate friction layers and coatings at sliding contacts. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 1128-1137.	2.5	4
23	Reliability of acicular grindable thermocouples for transient temperature measurements at sliding contacts. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 196, 111270.	2.5	4
24	Modeling of thermoelastic frictional contact. <i>Journal of Friction and Wear</i> , 2007, 28, 338-341.	0.1	1
25	Selection of a contact geometry model when simulating thermal friction processes. <i>Journal of Friction and Wear</i> , 2009, 30, 127-136.	0.1	1
26	Theoretical study of thermofrictional oscillations due to negative friction-temperature characteristic. <i>Tribology International</i> , 2013, 61, 235-243.	3.0	1
27	Accuracy and Transparency of Sliding Surface Temperature Measurements by Acicular Grindable Thermocouples. , 2021, , .		1
28	Friction-Induced Oscillations of a Non-Asbestos Organic Pin Sliding on a Steel Disc. <i>Acta Mechanica Et Automatica</i> , 2015, 9, 84-88.	0.3	1
29	High load capacity spur gears with conchoidal path of contact. <i>Mechanics and Industry</i> , 2021, 22, 47.	0.5	0
30	Airborne wear particle emission from train brake friction materials with different contents of steel and copper fibres. <i>Wear</i> , 2022, 504-505, 204424.	1.5	0