

Jens Wahlström

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7514357/jens-wahlstrom-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

787
citations

18
h-index

26
g-index

52
ext. papers

956
ext. citations

2.7
avg, IF

4.74
L-index

#	Paper	IF	Citations
46	A Mesoscopic Simulation Approach Based on Metal Fibre Characterization Data to Evaluate Brake Friction Performance. <i>Lubricants</i> , 2022 , 10, 34	3.1	0
45	Tribology and Airborne Particle Emission of Laser-Cladded Fe-Based Coatings versus Non-Asbestos Organic and Low-Metallic Brake Materials. <i>Metals</i> , 2021 , 11, 1703	2.3	3
44	Gear tolerancing for simultaneous optimization of transmission error and contact pressure. <i>Results in Engineering</i> , 2021 , 9, 100195	3.3	1
43	Laser Cladding Treatment for Refurbishing Disc Brake Rotors: Environmental and Tribological Analysis. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	7
42	A finite element analysis (FEA) approach to simulate the coefficient of friction of a brake system starting from material friction characterization. <i>Friction</i> , 2021 , 9, 191-200	5.6	6
41	Input Parameters for Airborne Brake Wear Emission Simulations: A Comprehensive Review. <i>Atmosphere</i> , 2021 , 12, 871	2.7	3
40	Recycling of worn out brake pads - impact on tribology and environment. <i>Scientific Reports</i> , 2020 , 10, 8369	4.9	5
39	A Comparison of Airborne Particles Generated from Disk Brake Contacts: Induction Versus Frictional Heating. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	14
38	A Study of the Effect of Brake Pad Scorching on Tribology and Airborne Particle Emissions. <i>Atmosphere</i> , 2020 , 11, 488	2.7	5
37	Airborne Wear Particle Emissions Produced during the Dyno Bench Tests with a Slag Containing Semi-Metallic Brake Pads. <i>Atmosphere</i> , 2020 , 11, 1220	2.7	3
36	Influence of manufacturing error tolerances on contact pressure in gears. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 095440622097671	1.3	0
35	A proposed driving cycle for brake emissions investigation for test stand. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020 , 234, 122-135	1.4	12
34	Friction, wear and airborne particle emission from Cu-free brake materials. <i>Tribology International</i> , 2020 , 141, 105959	4.9	28
33	A Multi-Scale Simulation Approach to Investigate Local Contact Temperatures for Commercial Cu-Full and Cu-Free Brake Pads. <i>Lubricants</i> , 2019 , 7, 80	3.1	4
32	A pin-on-disc study on the tribology of cast iron, sinter and composite railway brake blocks at low temperatures. <i>Wear</i> , 2019 , 424-425, 48-52	3.5	11
31	An FEA approach to simulate disc brake wear and airborne particle emissions. <i>Tribology International</i> , 2019 , 138, 90-98	4.9	18
30	A Test Stand Study on the Volatile Emissions of a Passenger Car Brake Assembly. <i>Atmosphere</i> , 2019 , 10, 263	2.7	20

29	Simulation of Contact Area and Pressure Dependence of Initial Surface Roughness for Cermet-Coated Discs Used in Disc Brakes. <i>Tribology in Industry</i> , 2019 , 41, 1-13	1.9	4
28	A pin-on-disc tribometer study of friction at low contact pressures and sliding speeds for a disc brake material combination. <i>Results in Engineering</i> , 2019 , 4, 100051	3.3	3
27	Towards a two-part train traffic emissions factor model for airborne wear particles. <i>Transportation Research, Part D: Transport and Environment</i> , 2019 , 67, 67-76	6.4	2
26	Scaling effects of measuring disc brake airborne particulate matter emissions – A comparison of a pin-on-disc tribometer and an inertia dynamometer bench under dragging conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018 , 232, 1538-1547	1.4	8
25	A concept for reducing PM 10 emissions for car brakes by 50%. <i>Wear</i> , 2018 , 396-397, 135-145	3.5	46
24	A Friction, Wear and Emission Tribometer Study of Non-Asbestos Organic Pins Sliding Against AlSiC MMC Discs. <i>Tribology in Industry</i> , 2018 , 40, 274-282	1.9	11
23	On the influence of car brake system parameters on particulate matter emissions. <i>Wear</i> , 2018 , 396-397, 67-74	3.5	36
22	A pin-on-disc tribometer study of disc brake contact pairs with respect to wear and airborne particle emissions. <i>Wear</i> , 2017 , 384-385, 124-130	3.5	48
21	On the running-in of brake pads and discs for dyno bench tests. <i>Tribology International</i> , 2017 , 115, 424-431	4.1	24
20	Towards the ranking of airborne particle emissions from car brakes – A system approach. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017 , 231, 781-797	1.4	24
19	Contact Pressure and Sliding Velocity Maps of the Friction, Wear and Emission from a Low-Metallic/Cast-Iron Disc Brake Contact Pair. <i>Tribology in Industry</i> , 2017 , 39, 460-470	1.9	16
18	Towards a test stand for standardized measurements of the brake emissions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2016 , 230, 1521-1528	1.4	27
17	A Factorial Design to Numerically Study the Effects of Brake Pad Properties on Friction and Wear Emissions. <i>Advances in Tribology</i> , 2016 , 2016, 1-10	1.6	10
16	A comparison of measured and simulated friction, wear, and particle emission of disc brakes. <i>Tribology International</i> , 2015 , 92, 503-511	4.9	32
15	A field study of airborne particle emissions from automotive disc brakes. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015 , 229, 747-757	1.4	24
14	Towards a cellular automaton to simulate friction, wear, and particle emission of disc brakes. <i>Wear</i> , 2014 , 313, 75-82	3.5	10
13	A Pin-on-Disc Study Focusing on How Different Load Levels Affect the Concentration and Size Distribution of Airborne Wear Particles from the Disc Brake Materials. <i>Tribology Letters</i> , 2012 , 46, 195-204	2.8	44
12	A pin-on-disc investigation of novel nanoporous composite-based and conventional brake pad materials focussing on airborne wear particles. <i>Tribology International</i> , 2011 , 44, 1838-1843	4.9	20

11	A study of airborne wear particles generated from organic railway brake pads and brake discs. <i>Wear</i> , 2011 , 273, 93-99	3.5	41
10	A Cellular Automaton Approach to Numerically Simulate the Contact Situation in Disc Brakes. <i>Tribology Letters</i> , 2011 , 42, 253-262	2.8	14
9	Airborne wear particles from passenger car disc brakes: A comparison of measurements from field tests, a disc brake assembly test stand, and a pin-on-disc machine. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2010 , 224, 179-188	1.4	29
8	Ultrafine Particle Formation from Wear. <i>International Journal of Ventilation</i> , 2010 , 9, 83-88	1.1	2
7	Size, Shape, and Elemental Composition of Airborne Wear Particles from Disc Brake Materials. <i>Tribology Letters</i> , 2010 , 38, 15-24	2.8	63
6	A pin-on-disc simulation of airborne wear particles from disc brakes. <i>Wear</i> , 2010 , 268, 763-769	3.5	76
5	Simulation of Airborne Wear Particles from Disc Brakes 2009 ,		9
4	A disc brake test stand for measurement of airborne wear particles. <i>Lubrication Science</i> , 2009 , 21, 241-252		20
3	Simulation of thermal and mechanical performance of laser cladded disc brake rotors. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 135065012110091	1.4	2
2	Reducing scrapping of gears by assessment of tip contact threshold torque. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 135065012110662	1.4	0
1	Characterization of ultrafine particles from hardfacing coated brake rotors. <i>Friction</i> , 1	5.6	1