

Jens Wahlström

List of Publications by Citations

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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 pin-on-disc simulation of airborne wear particles from disc brakes. <i>Wear</i> , 2010 , 268, 763-769	3.5	76
45	Size, Shape, and Elemental Composition of Airborne Wear Particles from Disc Brake Materials. <i>Tribology Letters</i> , 2010 , 38, 15-24	2.8	63
44	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
43	A concept for reducing PM 10 emissions for car brakes by 50%. <i>Wear</i> , 2018 , 396-397, 135-145	3.5	46
42	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 ⁸	2.8	44
41	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
40	On the influence of car brake system parameters on particulate matter emissions. <i>Wear</i> , 2018 , 396-397, 67-74	3.5	36
39	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
38	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
37	Friction, wear and airborne particle emission from Cu-free brake materials. <i>Tribology International</i> , 2020 , 141, 105959	4.9	28
36	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
35	On the running-in of brake pads and discs for dyno bench tests. <i>Tribology International</i> , 2017 , 115, 424-431 ⁹	4.9	24
34	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
33	Towards the ranking of airborne particle emissions from car brakes by 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
32	A Test Stand Study on the Volatile Emissions of a Passenger Car Brake Assembly. <i>Atmosphere</i> , 2019 , 10, 263	2.7	20
31	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
30	A disc brake test stand for measurement of airborne wear particles. <i>Lubrication Science</i> , 2009 , 21, 241-252 ³	2.3	20

29	An FEA approach to simulate disc brake wear and airborne particle emissions. <i>Tribology International</i> , 2019 , 138, 90-98	4.9	18
28	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
27	A Comparison of Airborne Particles Generated from Disk Brake Contacts: Induction Versus Frictional Heating. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	14
26	A Cellular Automaton Approach to Numerically Simulate the Contact Situation in Disc Brakes. <i>Tribology Letters</i> , 2011 , 42, 253-262	2.8	14
25	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
24	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
23	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
22	Towards a cellular automaton to simulate friction, wear, and particle emission of disc brakes. <i>Wear</i> , 2014 , 313, 75-82	3.5	10
21	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
20	Simulation of Airborne Wear Particles from Disc Brakes 2009 ,		9
19	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
18	Laser Cladding Treatment for Refurbishing Disc Brake Rotors: Environmental and Tribological Analysis. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	7
17	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
16	Recycling of worn out brake pads - impact on tribology and environment. <i>Scientific Reports</i> , 2020 , 10, 8369	4.9	5
15	A Study of the Effect of Brake Pad Scorching on Tribology and Airborne Particle Emissions. <i>Atmosphere</i> , 2020 , 11, 488	2.7	5
14	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
13	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
12	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

11	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
10	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
9	Input Parameters for Airborne Brake Wear Emission Simulations: A Comprehensive Review. <i>Atmosphere</i> , 2021 , 12, 871	2.7	3
8	Ultrafine Particle Formation from Wear. <i>International Journal of Ventilation</i> , 2010 , 9, 83-88	1.1	2
7	Simulation of thermal and mechanical performance of laser clad disc brake rotors. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 135065012110091	1.4	2
6	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
5	Gear tolerancing for simultaneous optimization of transmission error and contact pressure. <i>Results in Engineering</i> , 2021 , 9, 100195	3.3	1
4	Characterization of ultrafine particles from hardfacing coated brake rotors. <i>Friction</i> , 1	5.6	1
3	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
2	A Mesoscopic Simulation Approach Based on Metal Fibre Characterization Data to Evaluate Brake Friction Performance. <i>Lubricants</i> , 2022 , 10, 34	3.1	0
1	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