

# Haichao Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

120  
citations

1478505

6  
h-index

1372567

10  
g-index

21  
all docs

21  
docs citations

21  
times ranked

90  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Friction Model and Tire Maneuvering on Tire-Pavement Contact Stress. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-11.	1.8	27
2	Numerical investigation of passive control flow to improve tire hydroplaning performance using a V-riblet non-smooth surface. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401772724.	1.6	10
3	Aerodynamic Characteristics of Isolated Loaded Tires with Different Tread Patterns: Experiment and Simulation. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021, 34, .	3.7	10
4	Design of Two-Wheeled Motorcycle Tire Crown Contour Bioinspired by Cat Paw Pads. <i>Applied Bionics and Biomechanics</i> , 2020, 2020, 1-10.	1.1	8
5	A Strain-Based Method to Estimate Longitudinal Force for Intelligent Tires by Using a Physics-Based Model. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2021, 67, 153-166.	1.1	8
6	Research on Vibration Reduction Method of Nonpneumatic Tire Spoke Based on the Mechanical Properties of Domestic cat's Paw Pads. <i>Applied Bionics and Biomechanics</i> , 2021, 2021, 1-16.	1.1	7
7	Investigation of the Effect of Dimple Bionic Nonsmooth Surface on Tire Antihydroplaning. <i>Applied Bionics and Biomechanics</i> , 2015, 2015, 1-10.	1.1	5
8	Abnormal wear analysis of straddle-type monorail vehicle running wheel tire. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401988975.	1.6	5
9	Optimization of tire tread pattern based on flow characteristics to improve hydroplaning resistance. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020, 234, 2961-2974.	1.9	5
10	Numerical Investigation of Aerodynamic Noise Reduction of Nonpneumatic Tire Using Nonsmooth Riblet Surface. <i>Applied Bionics and Biomechanics</i> , 2020, 2020, 1-13.	1.1	5
11	Study of the dynamic performance of rolling non-pneumatic tires using finite element method. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, .	1.6	5
12	Optimal Design for an Extruder Head Runner Based on Response Surface Method and Simulated Annealing Algorithm. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-10.	2.7	4
13	Relationship between Tire Ground Characteristics and Vibration Noise. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2021, 67, 11-26.	1.1	4
14	Evaluation of Tire Rolling Resistance from Tire-Deformable Pavement Interaction Modeling. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021, 147, .	1.5	4
15	A Computational Aero-Acoustic Study of Spokes of an Isolated Nonpneumatic Tire. <i>Tire Science and Technology</i> , 2020, 48, 46-61.	0.4	3
16	Bionic Method for Improving Tire Anti-hydroplaning Performance. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2015, 51, 125.	0.5	3
17	Investigation of effects of tire contour on aerodynamic characteristics and its optimization. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2022, 236, 2756-2772.	1.9	3
18	Adaptability of Kinetic Parameters to a Narrow Speed Range in Healthy Free-Moving Cats. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-9.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Study of the Influence of Tire Belt Structure on Vibration Noise. Recent Patents on Mechanical Engineering, 2018, 10, .	0.3	1
20	Investigation of wheelhouse shapes on the aerodynamic characteristics of a generic car model. Advances in Mechanical Engineering, 2021, 13, 168781402110668.	1.6	1
21	Evaluation of Shear Stress Transport, Large Eddy Simulation and Detached Eddy Simulation for the Flow around a Statically Loaded Tire. Symmetry, 2021, 13, 1319.	2.2	0