

# Meng Zou

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

490  
citations

1040056

9  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

296  
citing authors

#	ARTICLE	IF	CITATIONS
1	A bionic method for the crashworthiness design of thin-walled structures inspired by bamboo. <i>Thin-Walled Structures</i> , 2016, 101, 222-230.	5.3	158
2	Bionic design and multi-objective optimization for variable wall thickness tube inspired bamboo structures. <i>Thin-Walled Structures</i> , 2018, 125, 76-88.	5.3	70
3	Experiment and numerical simulation study on the bionic tubes with gradient thickness under oblique loading. <i>Thin-Walled Structures</i> , 2021, 163, 107624.	5.3	35
4	Crashworthiness Design for Bionic Bumper Structures Inspired by Cattail and Bamboo. <i>Applied Bionics and Biomechanics</i> , 2017, 2017, 1-9.	1.1	30
5	Identification of the shear parameters for lunar regolith based on a GA-BP neural network. <i>Journal of Terramechanics</i> , 2020, 89, 21-29.	3.1	30
6	Design and numerical study on bionic columns with grooves under lateral impact. <i>Thin-Walled Structures</i> , 2020, 148, 106546.	5.3	24
7	Effect of gravity on the mechanical properties of lunar regolith tested using a low gravity simulation device. <i>Journal of Terramechanics</i> , 2015, 60, 11-22.	3.1	22
8	In situ identification of shearing parameters for loose lunar soil using least squares support vector machine. <i>Aerospace Science and Technology</i> , 2016, 53, 154-161.	4.8	17
9	Study on the crashworthiness of bio-inspired multi-cell tube under axial impact. <i>International Journal of Crashworthiness</i> , 2022, 27, 390-399.	1.9	13
10	Bionic Design of the Bumper Beam Inspired by the Bending and Energy Absorption Characteristics of Bamboo. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-12.	1.1	10
11	Study on the energy absorption performance of bionic tube inspired by yak horn. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 7246-7258.	2.6	10
12	STRUCTURE AND MECHANICAL CHARACTERISTIC OF CATTLE HORNS. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1440011.	0.7	8
13	Mechanical properties and failure deformation mechanisms of yak horn under quasi-static compression and dynamic impact. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 107, 103753.	3.1	8
14	Microstructure and compression resistance of bean goose ( <i>Anser fabalis</i> ) feather shaft. <i>Microscopy Research and Technique</i> , 2020, 83, 156-164.	2.2	7
15	The Enhancement of the Impact of the Wintertime North Atlantic Oscillation on the Subsequent Sea Surface Temperature over the Tropical Atlantic since the Middle 1990s. <i>Journal of Climate</i> , 2020, 33, 9653-9672.	3.2	7
16	Endurance study of bionic wheels for Mars rovers. <i>Journal of Terramechanics</i> , 2017, 74, 57-68.	3.1	6
17	Bionic Design for Reducing Adhesive Resistance of the Ridger Inspired by a Boar's Head. <i>Applied Bionics and Biomechanics</i> , 2017, 2017, 1-10.	1.1	6
18	An engineering perspective on the microstructure and compression properties of the seagull <i>Larus argentatus</i> feather rachis. <i>Micron</i> , 2019, 126, 102735.	2.2	6

#	ARTICLE	IF	CITATIONS
19	Study on energy absorption behavior of bionic tube inspired by feather shaft of bean goose. <i>Rendiconti Lincei</i> , 2022, 33, 363-374.	2.2	4
20	An Experimental Study on the Gait Patterns and Kinematics of Chinese Mitten Crabs. <i>Journal of Bionic Engineering</i> , 2013, 10, 305-315.	5.0	3
21	Bionic Design for Mars Sampling Scoop Inspired by Himalayan Marmot Claw. <i>Applied Bionics and Biomechanics</i> , 2016, 2016, 1-9.	1.1	3
22	Experimental Study of Torque Using a Small Scoop on the Lunar Surface. <i>International Journal of Aerospace Engineering</i> , 2016, 2016, 1-8.	0.9	3
23	Experimental Study on Drag Reduction Characteristics of Bionic Earthworm Self-Lubrication Surface. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-8.	1.1	3
24	Pressure-Bearing Parameter Identification for Martian Soil Based on a Terramechanics Model and Genetic Algorithm. <i>Journal of Aerospace Engineering</i> , 2018, 31, 04017104.	1.4	2
25	Nonparametric Terrain Estimation for Planetary Rovers Based on Noncontact Rut Measurement. <i>Journal of Aerospace Engineering</i> , 2019, 32, 04018157.	1.4	2
26	Experimental Study on the Durability of China's Mars Rover's Mobility System. <i>Journal of Aerospace Engineering</i> , 2021, 34, .	1.4	2
27	Study on the structural features and geometric parameters affecting the axial mechanical properties of the primary feather rachis. <i>Microscopy Research and Technique</i> , 2021, , .	2.2	1
28	Microscopy imaging and modeling study on the mechanical properties of the primary flight feather shaft of the bean goose, <i>Anser fabalis</i> . <i>Microscopy Research and Technique</i> , 2022, , .	2.2	0