

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	Study on the crashworthiness of bio-inspired multi-cell tube under axial impact. International Journal of Crashworthiness, 2022, 27, 390-399.	1.9	13
2	Study on the energy absorption performance of bionic tube inspired by yak horn. Mechanics of Advanced Materials and Structures, 2022, 29, 7246-7258.	2.6	10
3	Microscopy imaging and modeling study on the mechanical properties of the primary flight feather shaft of the bean goose, <i>Anser fabalis</i> . Microscopy Research and Technique, 2022, , .	2.2	0
4	Study on energy absorption behavior of bionic tube inspired by feather shaft of bean goose. Rendiconti Lincei, 2022, 33, 363-374.	2.2	4
5	Experiment and numerical simulation study on the bionic tubes with gradient thickness under oblique loading. Thin-Walled Structures, 2021, 163, 107624.	5.3	35
6	Experimental Study on the Durability of China's Mars Rover's Mobility System. Journal of Aerospace Engineering, 2021, 34, .	1.4	2
7	Study on the structural features and geometric parameters affecting the axial mechanical properties of the primary feather rachis. Microscopy Research and Technique, 2021, , .	2.2	1
8	Microstructure and compression resistance of bean goose (<i>Anser fabalis</i>) feather shaft. Microscopy Research and Technique, 2020, 83, 156-164.	2.2	7
9	Design and numerical study on bionic columns with grooves under lateral impact. Thin-Walled Structures, 2020, 148, 106546.	5.3	24
10	Identification of the shear parameters for lunar regolith based on a GA-BP neural network. Journal of Terramechanics, 2020, 89, 21-29.	3.1	30
11	Mechanical properties and failure deformation mechanisms of yak horn under quasi-static compression and dynamic impact. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 107, 103753.	3.1	8
12	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. Journal of Climate, 2020, 33, 9653-9672.	3.2	7
13	Experimental Study on Drag Reduction Characteristics of Bionic Earthworm Self-Lubrication Surface. Applied Bionics and Biomechanics, 2019, 2019, 1-8.	1.1	3
14	An engineering perspective on the microstructure and compression properties of the seagull <i>Larus argentatus</i> feather rachis. Micron, 2019, 126, 102735.	2.2	6
15	Nonparametric Terrain Estimation for Planetary Rovers Based on Noncontact Rut Measurement. Journal of Aerospace Engineering, 2019, 32, 04018157.	1.4	2
16	Bionic design and multi-objective optimization for variable wall thickness tube inspired bamboo structures. Thin-Walled Structures, 2018, 125, 76-88.	5.3	70
17	Pressure-Bearing Parameter Identification for Martian Soil Based on a Terramechanics Model and Genetic Algorithm. Journal of Aerospace Engineering, 2018, 31, 04017104.	1.4	2
18	Bionic Design of the Bumper Beam Inspired by the Bending and Energy Absorption Characteristics of Bamboo. Applied Bionics and Biomechanics, 2018, 2018, 1-12.	1.1	10

#	ARTICLE	IF	CITATIONS
19	Endurance study of bionic wheels for Mars rovers. Journal of Terramechanics, 2017, 74, 57-68.	3.1	6
20	Crashworthiness Design for Bionic Bumper Structures Inspired by Cattail and Bamboo. Applied Bionics and Biomechanics, 2017, 2017, 1-9.	1.1	30
21	Bionic Design for Reducing Adhesive Resistance of the Ridger Inspired by a Boar's Head. Applied Bionics and Biomechanics, 2017, 2017, 1-10.	1.1	6
22	Bionic Design for Mars Sampling Scoop Inspired by Himalayan Marmot Claw. Applied Bionics and Biomechanics, 2016, 2016, 1-9.	1.1	3
23	Experimental Study of Torque Using a Small Scoop on the Lunar Surface. International Journal of Aerospace Engineering, 2016, 2016, 1-8.	0.9	3
24	In situ identification of shearing parameters for loose lunar soil using least squares support vector machine. Aerospace Science and Technology, 2016, 53, 154-161.	4.8	17
25	A bionic method for the crashworthiness design of thin-walled structures inspired by bamboo. Thin-Walled Structures, 2016, 101, 222-230.	5.3	158
26	Effect of gravity on the mechanical properties of lunar regolith tested using a low gravity simulation device. Journal of Terramechanics, 2015, 60, 11-22.	3.1	22
27	STRUCTURE AND MECHANICAL CHARACTERISTIC OF CATTLE HORNS. Journal of Mechanics in Medicine and Biology, 2014, 14, 1440011.	0.7	8
28	An Experimental Study on the Gait Patterns and Kinematics of Chinese Mitten Crabs. Journal of Bionic Engineering, 2013, 10, 305-315.	5.0	3