

Zhihua Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7276538/publications.pdf>

Version: 2024-02-01

15
papers

189
citations

1163117

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h-index

1125743

13
g-index

15
all docs

15
docs citations

15
times ranked

159
citing authors

#	ARTICLE	IF	CITATIONS
1	Have pedestrian subsystem tests improved passenger car front shape?. Accident Analysis and Prevention, 2018, 115, 143-150.	5.7	30
2	The dynamic failure mechanism of a lithium-ion battery at different impact velocity. Engineering Failure Analysis, 2020, 116, 104747.	4.0	25
3	Effect of osteoporosis on internal fixation after spinal osteotomy: A finite element analysis. Clinical Biomechanics, 2019, 69, 178-183.	1.2	24
4	Creating a human head finite element model using a multi-block approach for predicting skull response and brain pressure. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 169-179.	1.6	22
5	Experimental study on the protective performance of bulletproof plate and padding materials under ballistic impact. Materials and Design, 2021, 207, 109841.	7.0	17
6	A study on protective performance of bullet-proof helmet under impact loading. Journal of Vibroengineering, 2016, 18, 2495-2507.	1.0	13
7	Development of a Three-Dimensional Finite Element Model of Thoracolumbar Kyphotic Deformity following Vertebral Column Decancellation. Applied Bionics and Biomechanics, 2019, 2019, 1-9.	1.1	12
8	Study on Behind Helmet Blunt Trauma Caused by High-Speed Bullet. Applied Bionics and Biomechanics, 2020, 2020, 1-12.	1.1	10
9	Craniocerebral Dynamic Response and Cumulative Effect of Damage Under Repetitive Blast. Annals of Biomedical Engineering, 2021, 49, 2932-2943.	2.5	9
10	Development and validation of a human biomechanical model for rib fracture and thorax injuries in blunt impact. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 974-980.	1.6	8
11	The Influence of Cross-Links on Long-Segment Instrumentation Following Spinal Osteotomy: A Finite Element Analysis. World Neurosurgery, 2019, 123, e294-e302.	1.3	7
12	ANALYSES OF PEDESTRIAN'S HEAD-TO-WINDSHIELD IMPACT BIOMECHANICAL RESPONSES AND HEAD INJURIES USING A HEAD FINITE ELEMENT MODEL. Journal of Mechanics in Medicine and Biology, 2020, 20, 1950063.	0.7	5
13	Mechanical Response Analysis of Battery Modules Under Mechanical Load: Experimental Investigation and Simulation Analysis. Energy Technology, 2022, 10, .	3.8	4
14	Development and Validation of a Finite Element Model of the Human Thoracic for Rib Fractures Prediction in Automobile Collisions. Lecture Notes in Electrical Engineering, 2013, , 375-388.	0.4	3
15	Numerical Analysis of Occupant Head Injuries in Impacts with Dump Truck Panel. Applied Bionics and Biomechanics, 2018, 2018, 1-9.	1.1	0