

Zhihua Cai

List of Publications by Year in descending order

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15
papers

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1163117

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times ranked

159
citing authors

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