

# Jiangyue Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

641  
citations

687363

13  
h-index

752698

20  
g-index

29  
all docs

29  
docs citations

29  
times ranked

663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical properties of the human head: Mass, center of gravity and moment of inertia. Journal of Biomechanics, 2009, 42, 1177-1192.	2.1	156
2	Momentâ€“rotation responses of the human lumbosacral spinal column. Journal of Biomechanics, 2007, 40, 1975-1980.	2.1	94
3	Validation of a clinical finite element model of the human lumbosacral spine. Medical and Biological Engineering and Computing, 2006, 44, 633-641.	2.8	69
4	Temporal Cavity and Pressure Distribution in a Brain Simulant following Ballistic Penetration. Journal of Neurotrauma, 2005, 22, 1335-1347.	3.4	45
5	Effects of tissue preservation temperature on high strain-rate material properties of brain. Journal of Biomechanics, 2011, 44, 391-396.	2.1	44
6	Experimental model for civilian ballistic brain injury biomechanics quantification. Journal of Biomechanics, 2007, 40, 2341-2346.	2.1	39
7	Role of translational and rotational accelerations on brain strain in lateral head impact. Biomedical Sciences Instrumentation, 2006, 42, 501-6.	0.2	35
8	Methodology to determine skull bone and brain responses from ballistic helmet-to-head contact loading using experiments and finite element analysis. Medical Engineering and Physics, 2013, 35, 1682-1687.	1.7	21
9	Upper Neck Forces and Moments and Cranial Angular Accelerations in Lateral Impact. Annals of Biomedical Engineering, 2008, 36, 406-414.	2.5	20
10	Role of disc area and trabecular bone density on lumbar spinal column fracture risk curves under vertical impact. Journal of Biomechanics, 2018, 72, 90-98.	2.1	19
11	Human Lumbar Spine Responses from Vertical Loading: Ranking of Forces Via Brier Score Metrics and Injury Risk Curves. Annals of Biomedical Engineering, 2020, 48, 79-91.	2.5	16
12	Regional brain strains and role of falx in lateral impact-induced head rotational acceleration. Biomedical Sciences Instrumentation, 2007, 43, 24-9.	0.2	14
13	Experimental study of blast-induced traumatic brain injury using a physical head model. Stapp Car Crash Journal, 2009, 53, 215-27.	1.1	14
14	The Human Lumbar Spine During High-Rate Under Seat Loading: A Combined Metric Injury Criteria. Annals of Biomedical Engineering, 2021, 49, 3018-3030.	2.5	10
15	Brain strains in vehicle impact tests. Annual Proceedings, 2006, 50, 1-12.	0.2	9
16	A finite element study of blast traumatic brain injury - biomed 2009. Biomedical Sciences Instrumentation, 2009, 45, 119-24.	0.2	8
17	How to test brain and brain simulant at ballistic and blast strain rates. Biomedical Sciences Instrumentation, 2008, 44, 129-34.	0.2	6
18	Dynamic biomechanics of the human head in lateral impacts. Annals of Advances in Automotive Medicine, 2009, 53, 249-56.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Specimen-specific fracture risk curves of lumbar vertebrae under dynamic axial compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 118, 104457.	3.1	4
20	Role of Falx on Brain Stress-Strain Responses. , 2009, , 281-297.		4
21	Finite Element Analysis of Penetrating Head Injury. , 2003, , 193.		3
22	Cortical and Trabecular Bone Fracture Characterisation in the Vertebral Body Using Acoustic Emission. <i>Annals of Biomedical Engineering</i> , 2019, 47, 2384-2401.	2.5	3
23	Rotational Acceleration Duration Affects Brain Strains in Lateral Impact. , 2007, , .		2
24	Experimental Study on Non-Exit Ballistic Induced Traumatic Brain Injury. , 2007, , .		1
25	Analysis of Penetrating Head Impact. , 2004, , 257.		0
26	An Experimental Study of Blast Traumatic Brain Injury. , 2008, , .		0
27	A Finite Element Study of Blast Overpressure on the Skull With and Without Helmet. , 2010, , .		0
28	Effects of Vertebral Body Changes on Cervical Spine Load Sharing. , 2002, , .		0
29	Translational and Rotational Head Kinematics in Side Impact. , 2009, , .		0