

# Bingbing Nie

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

335  
citations

933410

10  
h-index

996954

15  
g-index

36  
all docs

36  
docs citations

36  
times ranked

188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Can new passenger cars reduce pedestrian lower extremity injury? A review of geometrical changes of front-end design before and after regulatory efforts. <i>Traffic Injury Prevention</i> , 2016, 17, 712-719.	1.4	35
2	Are riders of electric two-wheelers safer than bicyclists in collisions with motor vehicles?. <i>Accident Analysis and Prevention</i> , 2020, 134, 105336.	5.7	27
3	Active muscle response contributes to increased injury risk of lower extremity in occupant knee airbag interaction. <i>Traffic Injury Prevention</i> , 2018, 19, S76-S82.	1.4	19
4	Propagation of Syndesmotic Injuries During Forced External Rotation in Flexed Cadaveric Ankles. <i>Orthopaedic Journal of Sports Medicine</i> , 2018, 6, 232596711878133.	1.7	18
5	Computational investigation of the effects of knee airbag design on the interaction with occupant lower extremity in frontal and oblique impacts. <i>Traffic Injury Prevention</i> , 2017, 18, 207-215.	1.4	17
6	Seating preferences in highly automated vehicles and occupant safety awareness: A national survey of Chinese perceptions. <i>Traffic Injury Prevention</i> , 2020, 21, 247-253.	1.4	17
7	A data-driven, kinematic feature-based, near real-time algorithm for injury severity prediction of vehicle occupants. <i>Accident Analysis and Prevention</i> , 2021, 156, 106149.	5.7	17
8	Safety envelope of pedestrians upon motor vehicle conflicts identified via active avoidance behaviour. <i>Scientific Reports</i> , 2021, 11, 3996.	3.3	15
9	Determination of the in situ mechanical behavior of ankle ligaments. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 502-512.	3.1	13
10	Obesity effects on pedestrian lower extremity injuries in vehicle-to-pedestrian impacts: A numerical investigation using human body models. <i>Traffic Injury Prevention</i> , 2020, 21, 569-574.	1.4	13
11	The Contribution of Pre-impact Posture on Restrained Occupant Finite Element Model Response in Frontal Impact. <i>Traffic Injury Prevention</i> , 2015, 16, S87-S95.	1.4	12
12	Influence of Pre-impact Pedestrian Posture on Lower Extremity Kinematics in Vehicle Collisions. <i>SAE International Journal of Transportation Safety</i> , 0, 4, 278-288.	0.4	11
13	Accelerated Inverse Reinforcement Learning with Randomly Pre-sampled Policies for Autonomous Driving Reward Design. , 2019, , .		11
14	Analysis of Motion Sickness Associated Brain Activity Using fNIRS: A Driving Simulator Study. <i>IEEE Access</i> , 2020, 8, 207415-207425.	4.2	11
15	A framework for parametric modeling of ankle ligaments to determine the in situ response under gross foot motion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1254-1265.	1.6	10
16	Sensitivity of Electrodermal Activity Features for Driver Arousal Measurement in Cognitive Load: The Application in Automated Driving Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 14954-14967.	8.0	10
17	Response Surface Generation for Kinematics and Injury Prediction in Pedestrian Impact Simulations. <i>SAE International Journal of Transportation Safety</i> , 0, 1, 286-296.	0.4	8
18	A response-surface-based tool for vehicle front-end design for pedestrian impact protection using human body model. <i>International Journal of Vehicle Design</i> , 2014, 66, 347.	0.3	6

#	ARTICLE	IF	CITATIONS
19	Comparison of two scaling approaches for the development of biomechanical multi-body human models. <i>Multibody System Dynamics</i> , 2016, 38, 297-316.	2.7	6
20	Searching for the "sweet spot": the foot rotation and parallel engagement of ankle ligaments in maximizing injury tolerance. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1937-1945.	2.8	6
21	Kinetic and Kinematic Features of Pedestrian Avoidance Behavior in Motor Vehicle Conflicts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 783003.	4.1	6
22	Estimation of energy-absorption space for pedestrian leg protection of car front-end structures. <i>International Journal of Vehicle Design</i> , 2012, 60, 20.	0.3	5
23	Experimental investigation of the effect of occupant characteristics on contemporary seat belt payout behavior in frontal impacts. <i>Traffic Injury Prevention</i> , 2016, 17, 374-380.	1.4	5
24	Fiber-based modeling of in situ ankle ligaments with consideration of progressive failure. <i>Journal of Biomechanics</i> , 2017, 61, 102-110.	2.1	5
25	Human injury-based safety decision of automated vehicles. <i>IScience</i> , 2022, 25, 104703.	4.1	5
26	Scaling approach in predicting the seatbelt loading and kinematics of vulnerable occupants: How far can we go?. <i>Traffic Injury Prevention</i> , 2016, 17, 93-100.	1.4	4
27	Evaluation and injury investigation of a finite element foot and ankle model for small female occupants. <i>International Journal of Crashworthiness</i> , 2019, 24, 580-591.	1.9	4
28	A framework for rapid on-board deterministic estimation of occupant injury risk in motor vehicle crashes with quantitative uncertainty evaluation. <i>Science China Technological Sciences</i> , 2021, 64, 521-534.	4.0	4
29	Multisource Adaption for Driver Attention Prediction in Arbitrary Driving Scenes. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 20912-20925.	8.0	4
30	Transient and long-time kinetic responses of the cadaveric leg during internal and external foot rotation. <i>Journal of Biomechanics</i> , 2017, 53, 196-200.	2.1	3
31	Influence of population variability in ligament material properties on the mechanical behavior of ankle: a computational investigation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 43-53.	1.6	3
32	A Cortical Thickness Mapping Method for the Coxal Bone Using Morphing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 149.	4.1	2
33	Constructing personalized situation awareness dataset for hazard perception, comprehension, projection, and action of drivers. , 2021, , .		2
34	Improvement of lateral shoulder impact response of a multi-body pedestrian model. <i>International Journal of Crashworthiness</i> , 2018, 23, 134-143.	1.9	1
35	Influencing Factors of Contact Force Distribution in Pedestrian Upper Legform Impact with Vehicle Front-End. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 0, 5, 231-241.	0.4	0
36	Multi-Level Reconstruction of Motor Vehicle Crash Identifies Real-World Injury Mechanism: An Example of Occupant Lumbar Spine Fracture. , 2020, , .		0