

Johan Iraeus

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

204
citations

1307594

7
h-index

1281871

11
g-index

21
all docs

21
docs citations

21
times ranked

118
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulse shape analysis and data reduction of real-life frontal crashes with modern passenger cars. <i>International Journal of Crashworthiness</i> , 2015, 20, 535-546.	1.9	24
2	Generic finite element models of human ribs, developed and validated for stiffness and strain prediction – To be used in rib fracture risk evaluation for the human population in vehicle crashes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 106, 103742.	3.1	21
3	Hello, world! VIVA+: A human body model lineup to evaluate sex-differences in crash protection. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	20
4	Development and validation of a generic finite element vehicle buck model for the analysis of driver rib fractures in real life nearside oblique frontal crashes. <i>Accident Analysis and Prevention</i> , 2016, 95, 42-56.	5.7	18
5	Detailed subject-specific FE rib modeling for fracture prediction. <i>Traffic Injury Prevention</i> , 2019, 20, S88-S95.	1.4	16
6	Occupant injuries in light passenger vehicles – A NASS study to enable priorities for development of injury prediction capabilities of human body models. <i>Accident Analysis and Prevention</i> , 2020, 138, 105443.	5.7	15
7	Optimization of Female Head-Neck Model with Active Reflexive Cervical Muscles in Low Severity Rear Impact Collisions. <i>Annals of Biomedical Engineering</i> , 2021, 49, 115-128.	2.5	13
8	Comparison of control strategies for the cervical muscles of an average female head-neck finite element model. <i>Traffic Injury Prevention</i> , 2019, 20, S116-S122.	1.4	12
9	Rib Cortical Bone Fracture Risk as a Function of Age and Rib Strain: Updated Injury Prediction Using Finite Element Human Body Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 677768.	4.1	10
10	The effect of adipose tissue material properties on the lap belt-pelvis interaction: A global sensitivity analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 107, 103739.	3.1	8
11	Analysis of Delta Velocity and PDOF by Means of Collision Partner and Structural Involvement in Real-Life Crash Pulses With Modern Passenger Cars. <i>Traffic Injury Prevention</i> , 2014, 15, 56-65.	1.4	7
12	Evaluation of a diverse population of morphed human body models for prediction of vehicle occupant crash kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022, 25, 1125-1155.	1.6	7
13	Predicting pelvis geometry using a morphometric model with overall anthropometric variables. <i>Journal of Biomechanics</i> , 2021, 126, 110633.	2.1	6
14	Assessment of in situ chest deflection of post mortem human subjects (PMHS) and personalized human body models (HBM) in nearside oblique impacts. <i>Traffic Injury Prevention</i> , 2022, 23, 181-186.	1.4	5
15	Postoperative stability following a triple pelvic osteotomy is affected by implant configuration: a finite element analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, 275.	2.3	5
16	Evaluation of finite element models of seat structures with integrated safety belts using full-scale experiments. <i>International Journal of Crashworthiness</i> , 2010, 15, 265-280.	1.9	4
17	Influence of Vehicle Kinematic Components on Chest Injury in Frontal-Offset Impacts. <i>Traffic Injury Prevention</i> , 2014, 15, S88-S95.	1.4	4
18	Analysis of minimum pulse shape information needed for accurate chest injury prediction in real life frontal crashes. <i>International Journal of Crashworthiness</i> , 2020, , 1-8.	1.9	4

#	ARTICLE	IF	CITATIONS
19	A numerical study on the safety belt-to-pelvis interaction. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3572.	2.1	3
20	Evaluation of finite element human body models in lateral padded pendulum impacts to the shoulder. International Journal of Crashworthiness, 2010, 15, 125-142.	1.9	2
21	Evaluation of chest injury mechanisms in nearside oblique frontal impacts. Annals of Advances in Automotive Medicine, 2013, 57, 183-96.	0.6	0