Francisco J Lopez-Valdes

List of Publications by Year
in descending order

49 papers	551 citations	758635 12 h-index	752256 20 g-index
49 all docs	49 docs citations	49 times ranked	420 citing authors

#	Article	IF	Citations
1	Comparison of kinematic responses of the head and spine for children and adults in low-speed frontal sled tests. Stapp Car Crash Journal, 2009, 53, 329-72.	1.1	56
2	Rear seat occupant safety: an investigation of a progressive force-limiting, pretensioning 3-point belt system using adult PMHS in frontal sled tests. Stapp Car Crash Journal, 2009, 53, 49-74.	1.1	41
3	Pedestrian injuries in eight European countries: An analysis of hospital discharge data. Accident Analysis and Prevention, 2010, 42, 1164-1171.	3.0	39
4	Bibliometric analysis in motorcycle accident research: a global overview. Scientometrics, 2019, 121, 793-815.	1.6	37
5	Seating configuration and position preferences in fully automated vehicles. Traffic Injury Prevention, 2019, 20, S103-S109.	0.6	30
6	Comparison of Kinematic Responses of the Head and Spine for Children and Adults in Low-Speed Frontal Sled Tests. , 0, , .		25
7	The tolerance of the human body to automobile collision impact â€" a systematic review of injury biomechanics research, 1990â€"2009. Accident Analysis and Prevention, 2015, 80, 7-17.	3.0	24
8	Injuries among powered two-wheeler users in eight European countries: A descriptive analysis of hospital discharge data. Accident Analysis and Prevention, 2012, 49, 229-236.	3.0	21
9	Kinetics of the cervical spine in pediatric and adult volunteers during low speed frontal impacts. Journal of Biomechanics, 2012, 45, 99-106.	0.9	20
10	Occupant Kinematics and Shoulder Belt Retention in Far-Side Lateral and Oblique Collisions: A Parametric Study. , 0, , .		19
11	Extraction of decision rules using genetic algorithms and simulated annealing for prediction of severity of traffic accidents by motorcyclists. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 10051-10072.	3.3	19
12	Rear Seat Occupant Safety: An Investigation of a Progressive Force-Limiting, Pretensioning 3-Point Belt System Using Adult PMHS in Frontal Sled Tests. , 0, , .		19
13	Analysis of spinal motion and loads during frontal impacts. Comparison between PMHS and ATD. Annals of Advances in Automotive Medicine, 2010, 54, 61-78.	0.6	14
14	Recognizing the importance of injury in other policy forums: the case of motorcycle licensing policy in Spain: Table 1. Injury Prevention, 2007, 13, 429-430.	1.2	13
15	A Parametric Study of Hard Tissue Injury Prediction Using Finite Elements: Consideration of Geometric Complexity, Subfailure Material Properties, CT-Thresholding, and Element Characteristics. Traffic Injury Prevention, 2010, 11, 286-293.	0.6	13
16	Chest injuries of elderly postmortem human surrogates (PMHSs) under seat belt and airbag loading in frontal sled impacts: Comparison to matching THOR tests. Traffic Injury Prevention, 2018, 19, S55-S63.	0.6	12
17	The rider behavior questionnaire to explore associations of motorcycle taxi crashes in Cartagena (Colombia). Traffic Injury Prevention, 2021, 22, S99-S103.	0.6	12
18	Assessment of an innovative seat belt with independent control of the shoulder and lap portions using THOR tests, the THUMS model, and PMHS tests. Traffic Injury Prevention, 2016, 17, 124-130.	0.6	11

#	Article	IF	Citations
19	Cluster analysis of seriously injured occupants in motor vehicle crashes. Accident Analysis and Prevention, 2021, 151, 105787.	3.0	10
20	The Six Degrees of Freedom Motion of the Human Head, Spine, and Pelvis in a Frontal Impact. Traffic Injury Prevention, 2014, 15, 294-301.	0.6	9
21	Analysis of occupant kinematics and dynamics in nearside oblique impacts. Traffic Injury Prevention, 2016, 17, 86-92.	0.6	9
22	The Influence of Headform/Helmet Friction on Head Impact Biomechanics in Oblique Impacts at Different Tangential Velocities. Applied Sciences (Switzerland), 2021, 11, 11318.	1.3	8
23	Exposure to Traffic and Risk of Hospitalization Due to Injuries. Risk Analysis, 2011, 31, 466-474.	1.5	7
24	Assessment of a three-point restraint system with a pre-tensioned lap belt and an inflatable, force-limited shoulder belt. Stapp Car Crash Journal, 2011, 55, 141-59.	1.1	7
25	The Frontal-Impact Response of a Booster-Seated Child-Size PMHS. Traffic Injury Prevention, 2010, 11, 320-327.	0.6	6
26	Understanding motorcyclist-related accidents in Colombia. International Journal of Injury Control and Safety Promotion, 2020, 27, 215-231.	1.0	6
27	Biomechanical Response Targets for Physical and Computational Models of the Pediatric Trunk. Traffic Injury Prevention, 2012, 13, 499-506.	0.6	5
28	Understanding users' characteristics in the selection of vehicle seating configurations and positions in fully automated vehicles. Traffic Injury Prevention, 2020, 21, S19-S24.	0.6	5
29	Using Data-Mining Techniques for the Prediction of the Severity of Road Crashes in Cartagena, Colombia. Communications in Computer and Information Science, 2019, , 309-320.	0.4	5
30	Assessment of in situ chest deflection of post mortem human subjects (PMHS) and personalized human body models (HBM) in nearside oblique impacts. Traffic Injury Prevention, 2022, 23, 181-186.	0.6	5
31	Real-world performance of vehicle crash test: the case of EuroNCAP. Injury Prevention, 2010, 16, 101-106.	1.2	4
32	Reduction in the exposure to being out-of-position among car occupants who used a sleeping device. Injury Prevention, 2012, 18, 165-169.	1.2	4
33	A Comparison of the Performance of Two Advanced Restraint Systems in Frontal Impacts. Traffic Injury Prevention, 2014, 15, S119-S125.	0.6	4
34	Real-time CO2 emissions estimation in Spain and application to the COVID-19 pandemic. Journal of Cleaner Production, 2021, 296, 126425.	4.6	4
35	Prediction of motorcyclist traffic crashes in Cartagena (Colombia): development of a safety performance function. RAIRO - Operations Research, 2021, 55, 1257-1278.	1.0	4
36	Pressure waves in the aorta during isolated abdominal belt loading: the magnitude, phasing, and attenuation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 688-695.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Feasibility study of a safe sled environment for reclined frontal deceleration tests with human volunteers. Traffic Injury Prevention, 2019, 20, S171-S174.	0.6	3
38	Comparison of Upper Neck Loading in Young Adult and Elderly Volunteers During Low Speed Frontal Impacts. Frontiers in Bioengineering and Biotechnology, 2021, 9, 682974.	2.0	3
39	Injury Severity Scaling. , 2012, , 281-295.		3
40	Assessment of a Three-Point Restraint System with a Pre-tensioned Lap Belt and an Inflatable, Force-Limited Shoulder Belt. , 0, , .		3
41	Accidents of Motorcyclists Against Roadside Infrastructure. , 2005, , 163-170.		2
42	A Methodology to Estimate the Kinematics of Pediatric Occupants in Frontal Impacts. Traffic Injury Prevention, 2012, 13, 393-401.	0.6	2
43	Effects of Including a Penetration Test in Motorcyclist Helmet Standards: Influence on Helmet Stiffness and Impact Performance. Applied Sciences (Switzerland), 2022, 12, 2455.	1.3	2
44	A Methodology to Obtain Kinematic Corridors for Pediatric Occupants in Frontal Impacts. IFMBE Proceedings, 2010, , 529-532.	0.2	1
45	Injury patterns within clusters of seriously injured occupants comparing real-world crashes in the United States and the European Union. Traffic Injury Prevention, 2020, 21, S78-S83.	0.6	1
46	Assessment of a head support system to prevent pediatric out-of-position: an observational study. Annals of Advances in Automotive Medicine, 2013, 57, 297-310.	0.6	1
47	Foreword. Traffic Injury Prevention, 2016, 17, iii-iii.	0.6	0
48	Differences in the kinematics of booster-seated pediatric occupants using two different car seats. Traffic Injury Prevention, 2018, 19, 18-22.	0.6	0
49	Editorial: Understanding Age and Sex-Related Differences in the Biomechanics of Road Traffic Associated Injuries Through Population Diversity Analyses. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	2.0	0