

# Francisco J Lopez-Valdes

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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.	0.6	5
2	Effects of Including a Penetration Test in Motorcyclist Helmet Standards: Influence on Helmet Stiffness and Impact Performance. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2455.	1.3	2
3	Editorial: Understanding Age and Sex-Related Differences in the Biomechanics of Road Traffic Associated Injuries Through Population Diversity Analyses. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	0
4	Cluster analysis of seriously injured occupants in motor vehicle crashes. <i>Accident Analysis and Prevention</i> , 2021, 151, 105787.	3.0	10
5	Real-time CO2 emissions estimation in Spain and application to the COVID-19 pandemic. <i>Journal of Cleaner Production</i> , 2021, 296, 126425.	4.6	4
6	Prediction of motorcyclist traffic crashes in Cartagena (Colombia): development of a safety performance function. <i>RAIRO - Operations Research</i> , 2021, 55, 1257-1278.	1.0	4
7	Comparison of Upper Neck Loading in Young Adult and Elderly Volunteers During Low Speed Frontal Impacts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 682974.	2.0	3
8	The rider behavior questionnaire to explore associations of motorcycle taxi crashes in Cartagena (Colombia). <i>Traffic Injury Prevention</i> , 2021, 22, S99-S103.	0.6	12
9	Extraction of decision rules using genetic algorithms and simulated annealing for prediction of severity of traffic accidents by motorcyclists. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 10051-10072.	3.3	19
10	The Influence of Headform/Helmet Friction on Head Impact Biomechanics in Oblique Impacts at Different Tangential Velocities. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11318.	1.3	8
11	Understanding users' characteristics in the selection of vehicle seating configurations and positions in fully automated vehicles. <i>Traffic Injury Prevention</i> , 2020, 21, S19-S24.	0.6	5
12	Understanding motorcyclist-related accidents in Colombia. <i>International Journal of Injury Control and Safety Promotion</i> , 2020, 27, 215-231.	1.0	6
13	Injury patterns within clusters of seriously injured occupants comparing real-world crashes in the United States and the European Union. <i>Traffic Injury Prevention</i> , 2020, 21, S78-S83.	0.6	1
14	Seating configuration and position preferences in fully automated vehicles. <i>Traffic Injury Prevention</i> , 2019, 20, S103-S109.	0.6	30
15	Feasibility study of a safe sled environment for reclined frontal deceleration tests with human volunteers. <i>Traffic Injury Prevention</i> , 2019, 20, S171-S174.	0.6	3
16	Bibliometric analysis in motorcycle accident research: a global overview. <i>Scientometrics</i> , 2019, 121, 793-815.	1.6	37
17	Using Data-Mining Techniques for the Prediction of the Severity of Road Crashes in Cartagena, Colombia. <i>Communications in Computer and Information Science</i> , 2019, , 309-320.	0.4	5
18	Differences in the kinematics of booster-seated pediatric occupants using two different car seats. <i>Traffic Injury Prevention</i> , 2018, 19, 18-22.	0.6	0

#	ARTICLE	IF	CITATIONS
19	Chest injuries of elderly postmortem human surrogates (PMHSs) under seat belt and airbag loading in frontal sled impacts: Comparison to matching THOR tests. <i>Traffic Injury Prevention</i> , 2018, 19, S55-S63.	0.6	12
20	Analysis of occupant kinematics and dynamics in nearside oblique impacts. <i>Traffic Injury Prevention</i> , 2016, 17, 86-92.	0.6	9
21	Assessment of an innovative seat belt with independent control of the shoulder and lap portions using THOR tests, the THUMS model, and PMHS tests. <i>Traffic Injury Prevention</i> , 2016, 17, 124-130.	0.6	11
22	Foreword. <i>Traffic Injury Prevention</i> , 2016, 17, iii-iii.	0.6	0
23	The tolerance of the human body to automobile collision impact – a systematic review of injury biomechanics research, 1990–2009. <i>Accident Analysis and Prevention</i> , 2015, 80, 7-17.	3.0	24
24	A Comparison of the Performance of Two Advanced Restraint Systems in Frontal Impacts. <i>Traffic Injury Prevention</i> , 2014, 15, S119-S125.	0.6	4
25	The Six Degrees of Freedom Motion of the Human Head, Spine, and Pelvis in a Frontal Impact. <i>Traffic Injury Prevention</i> , 2014, 15, 294-301.	0.6	9
26	Assessment of a head support system to prevent pediatric out-of-position: an observational study. <i>Annals of Advances in Automotive Medicine</i> , 2013, 57, 297-310.	0.6	1
27	Reduction in the exposure to being out-of-position among car occupants who used a sleeping device. <i>Injury Prevention</i> , 2012, 18, 165-169.	1.2	4
28	A Methodology to Estimate the Kinematics of Pediatric Occupants in Frontal Impacts. <i>Traffic Injury Prevention</i> , 2012, 13, 393-401.	0.6	2
29	Biomechanical Response Targets for Physical and Computational Models of the Pediatric Trunk. <i>Traffic Injury Prevention</i> , 2012, 13, 499-506.	0.6	5
30	Kinetics of the cervical spine in pediatric and adult volunteers during low speed frontal impacts. <i>Journal of Biomechanics</i> , 2012, 45, 99-106.	0.9	20
31	Injuries among powered two-wheeler users in eight European countries: A descriptive analysis of hospital discharge data. <i>Accident Analysis and Prevention</i> , 2012, 49, 229-236.	3.0	21
32	Injury Severity Scaling. , 2012, , 281-295.		3
33	Exposure to Traffic and Risk of Hospitalization Due to Injuries. <i>Risk Analysis</i> , 2011, 31, 466-474.	1.5	7
34	Pressure waves in the aorta during isolated abdominal belt loading: the magnitude, phasing, and attenuation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2011, 225, 688-695.	1.0	3
35	Assessment of a three-point restraint system with a pre-tensioned lap belt and an inflatable, force-limited shoulder belt. <i>Stapp Car Crash Journal</i> , 2011, 55, 141-59.	1.1	7
36	Pedestrian injuries in eight European countries: An analysis of hospital discharge data. <i>Accident Analysis and Prevention</i> , 2010, 42, 1164-1171.	3.0	39

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37	Real-world performance of vehicle crash test: the case of EuroNCAP. Injury Prevention, 2010, 16, 101-106.	1.2	4
38	The Frontal-Impact Response of a Booster-Seated Child-Size PMHS. Traffic Injury Prevention, 2010, 11, 320-327.	0.6	6
39	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
40	A Methodology to Obtain Kinematic Corridors for Pediatric Occupants in Frontal Impacts. IFMBE Proceedings, 2010, , 529-532.	0.2	1
41	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
42	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
43	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
44	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
45	Accidents of Motorcyclists Against Roadside Infrastructure. , 2005, , 163-170.		2
46	Occupant Kinematics and Shoulder Belt Retention in Far-Side Lateral and Oblique Collisions: A Parametric Study. , 0, , .		19
47	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
48	Comparison of Kinematic Responses of the Head and Spine for Children and Adults in Low-Speed Frontal Sled Tests. , 0, , .		25
49	Assessment of a Three-Point Restraint System with a Pre-tensioned Lap Belt and an Inflatable, Force-Limited Shoulder Belt. , 0, , .		3