Thomas Seacrist

List of Publications by Year
in descending order

44 papers	571 citations	687363 13 h-index	752698 20 g-index
44 all docs	44 docs citations	44 times ranked	507 citing authors

#	Article	IF	Citations
1	Laboratory assessment of a head impact sensor for youth soccer ball heading impacts using an anthropomorphic test device. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2024, 238, 36-43.	0.7	2
2	Synthetic Muscleâ„¢ for Deep Space Travel and Other Applications on Earth and in Space. , 2022, , 1-48.		0
3	In-depth analysis of crash contributing factors and potential ADAS interventions among at-risk drivers using the SHRP 2 naturalistic driving study. Traffic Injury Prevention, 2021, 22, S68-S73.	1.4	7
4	Transporting Children in Autonomous Vehicles: An Exploratory Study. Human Factors, 2020, 62, 278-287.	3.5	31
5	The effect of vehicle countermeasures and age on human volunteer kinematics during evasive swerving events. Traffic Injury Prevention, 2020, 21, 48-54.	1.4	15
6	Efficacy of automatic emergency braking among risky drivers using counterfactual simulations from the SHRP 2 naturalistic driving study. Safety Science, 2020, 128, 104746.	4.9	14
7	Age Differences in Occupant Motion during Simulated In-Vehicle Swerving Maneuvers. International Journal of Environmental Research and Public Health, 2020, 17, 1834.	2.6	2
8	Near crash characteristics among risky drivers using the SHRP2 naturalistic driving study. Journal of Safety Research, 2020, 73, 263-269.	3.6	23
9	Characterization of the motion of booster-seated children during simulated in-vehicle precrash maneuvers. Traffic Injury Prevention, 2019, 20, S75-S80.	1.4	7
10	Effect of automated versus manual emergency braking on rear seat adult and pediatric occupant precrash motion. Traffic Injury Prevention, 2019, 20, S106-S111.	1.4	16
11	Biofidelic Evaluation of the Large Omni-Directional Child Anthropomorphic Test Device in Low Speed Loading Conditions. Stapp Car Crash Journal, 2019, 63, 213-234.	1.1	1
12	Advanced driver assistance systems for teen drivers: Teen and parent impressions, perceived need, and intervention preferences. Traffic Injury Prevention, 2018, 19, S120-S124.	1.4	18
13	Analysis of near crashes among teen, young adult, and experienced adult drivers using the SHRP2 naturalistic driving study. Traffic Injury Prevention, 2018, 19, S89-S96.	1.4	29
14	Simulated Driving Performance, Self-Reported Driving Behaviors, and Mental Health Symptoms in Adolescent Novice Drivers. Nursing Research, 2018, 67, 202-211.	1.7	12
15	Advanced driver assistance systems for teen drivers: A national survey of teen and parent perceptions. Traffic Injury Prevention, 2018, 19, S84-S90.	1.4	10
16	Synthetic Muscle electroactive polymer (EAP) based actuation and sensing for prosthetic and robotic applications. , 2018, , .		6
17	Comparison of crash rates and rear-end striking crashes among novice teens and experienced adults using the SHRP2 Naturalistic Driving Study. Traffic Injury Prevention, 2016, 17, 48-52.	1.4	17
18	Modeling spatial trajectories in dynamics testing using basis splines: application to tracking human volunteers in low-speed frontal impacts. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1046-1052.	1.6	1

#	Article	IF	Citations
19	Evaluation of a Risk Awareness Perception Training Program on Novice Teen Driver Behavior at Left-Turn Intersections. Transportation Research Record, 2015, 2516, 15-21.	1.9	7
20	LiveMetrics: Providing Individualized Feedback on Driving Performance. , 2015, , .		2
21	Evaluation of Pediatric ATD Biofidelity as Compared to Child Volunteers in Low-Speed Far-Side Oblique and Lateral Impacts. Traffic Injury Prevention, 2014, 15, S206-S214.	1.4	9
22	Comparison of Q3s ATD Biomechanical Responses to Pediatric Volunteers. Traffic Injury Prevention, 2014, 15, S215-S222.	1.4	3
23	Pediatric Head and Neck Dynamics in Frontal Impact: Analysis of Important Mechanical Factors and Proposed Neck Performance Corridors for 6- and 10-Year-Old ATDs. Traffic Injury Prevention, 2014, 15, 386-394.	1.4	11
24	Evaluation of the Hybrid III and Q-Series Pediatric ATD Upper Neck Loads as Compared to Pediatric Volunteers in Low-Speed Frontal Crashes. Annals of Biomedical Engineering, 2013, 41, 2381-2390.	2.5	6
25	Electromyography responses of pediatric and young adult volunteers in low-speed frontal impacts. Journal of Electromyography and Kinesiology, 2013, 23, 1206-1214.	1.7	10
26	Forensic analysis of crib mattress properties on pediatric CPR qualityâ€"Can we balance pressure reduction with CPR effectiveness?. Resuscitation, 2013, 84, 1131-1136.	3.0	6
27	Chest Compression Quality Over Time in Pediatric Resuscitations. Pediatrics, 2013, 131, e797-e804.	2.1	32
28	Importance of Muscle Activations for Biofidelic Pediatric Neck Response in Computational Models. Traffic Injury Prevention, 2013, 14, S116-S127.	1.4	26
29	Occupant kinematics and shoulder belt retention in far-side lateral and oblique collisions: a parametric study. Stapp Car Crash Journal, 2013, 57, 343-85.	1.1	17
30	A Methodology to Estimate the Kinematics of Pediatric Occupants in Frontal Impacts. Traffic Injury Prevention, 2012, 13, 393-401.	1.4	2
31	Kinetics of the cervical spine in pediatric and adult volunteers during low speed frontal impacts. Journal of Biomechanics, 2012, 45, 99-106.	2.1	20
32	Passive cervical spine flexion: The effect of age and gender. Clinical Biomechanics, 2012, 27, 326-333.	1.2	35
33	Kinematic Comparison of the Hybrid III and Q-Series Pediatric ATDs to Pediatric Volunteers in Low-Speed Frontal Crashes. Annals of Advances in Automotive Medicine, 2012, 56, 285-98.	0.6	1
34	The effect of pretensioning and age on torso rollout in restrained human volunteers in far-side lateral and oblique loading. Stapp Car Crash Journal, 2012, 56, 443-67.	1.1	10
35	Effects of Hydrostatic Loading on a Self-Aggregating, Suspension Cultureâ€"Derived Cartilage Tissue Analog. Cartilage, 2011, 2, 254-264.	2.7	28
36	Kinematic Comparison of Pediatric Human Volunteers and the Hybrid III 6-Year-Old Anthropomorphic Test Device. Annals of Advances in Automotive Medicine, 2010, 54, 97-108.	0.6	9

#	Article	IF	Citations
37	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
38	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
39	Occupant Kinematics and Shoulder Belt Retention in Far-Side Lateral and Oblique Collisions: A Parametric Study. , 0, , .		19
40	Simulated Driving Assessment: Case Study for the Development of Drivelab, Extendable Matlabâ„¢ Toolbox for Data Reduction of Clinical Driving Simulator Data. , 0, , .		4
41	Experience and Skill Predict Failure to Brake Errors: Further Validation of the Simulated Driving Assessment. , 0, , .		2
42	Vehicle Automation Emergency Scenario: Using a Driving Simulator to Assess the Impact of Hand and Foot Placement on Reaction Time. , 0, , .		1
43	Comparison of Kinematic Responses of the Head and Spine for Children and Adults in Low-Speed Frontal Sled Tests. , 0, , .		25
44	The Effect of Pretensioning and Age on Torso Rollout in Restrained Human Volunteers in Far-Side Lateral and Oblique Loading. , 0, , .		5