

Thomas Seacrist

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Comparison of kinematic responses of the head and spine for children and adults in low-speed frontal sled tests. <i>Stapp Car Crash Journal</i> , 2009, 53, 329-72. | 1.1 | 56 |
| 2 | Passive cervical spine flexion: The effect of age and gender. <i>Clinical Biomechanics</i> , 2012, 27, 326-333. | 1.2 | 35 |
| 3 | Chest Compression Quality Over Time in Pediatric Resuscitations. <i>Pediatrics</i> , 2013, 131, e797-e804. | 2.1 | 32 |
| 4 | Transporting Children in Autonomous Vehicles: An Exploratory Study. <i>Human Factors</i> , 2020, 62, 278-287. | 3.5 | 31 |
| 5 | Analysis of near crashes among teen, young adult, and experienced adult drivers using the SHRP2 naturalistic driving study. <i>Traffic Injury Prevention</i> , 2018, 19, S89-S96. | 1.4 | 29 |
| 6 | Effects of Hydrostatic Loading on a Self-Aggregating, Suspension Cultureâ€Derived Cartilage Tissue Analog. <i>Cartilage</i> , 2011, 2, 254-264. | 2.7 | 28 |
| 7 | Importance of Muscle Activations for Biofidelic Pediatric Neck Response in Computational Models. <i>Traffic Injury Prevention</i> , 2013, 14, S116-S127. | 1.4 | 26 |
| 8 | Comparison of Kinematic Responses of the Head and Spine for Children and Adults in Low-Speed Frontal Sled Tests. , 0, , . | | 25 |
| 9 | Near crash characteristics among risky drivers using the SHRP2 naturalistic driving study. <i>Journal of Safety Research</i> , 2020, 73, 263-269. | 3.6 | 23 |
| 10 | Kinetics of the cervical spine in pediatric and adult volunteers during low speed frontal impacts. <i>Journal of Biomechanics</i> , 2012, 45, 99-106. | 2.1 | 20 |
| 11 | Occupant Kinematics and Shoulder Belt Retention in Far-Side Lateral and Oblique Collisions: A Parametric Study. , 0, , . | | 19 |
| 12 | Advanced driver assistance systems for teen drivers: Teen and parent impressions, perceived need, and intervention preferences. <i>Traffic Injury Prevention</i> , 2018, 19, S120-S124. | 1.4 | 18 |
| 13 | Comparison of crash rates and rear-end striking crashes among novice teens and experienced adults using the SHRP2 Naturalistic Driving Study. <i>Traffic Injury Prevention</i> , 2016, 17, 48-52. | 1.4 | 17 |
| 14 | Occupant kinematics and shoulder belt retention in far-side lateral and oblique collisions: a parametric study. <i>Stapp Car Crash Journal</i> , 2013, 57, 343-85. | 1.1 | 17 |
| 15 | Effect of automated versus manual emergency braking on rear seat adult and pediatric occupant precrash motion. <i>Traffic Injury Prevention</i> , 2019, 20, S106-S111. | 1.4 | 16 |
| 16 | The effect of vehicle countermeasures and age on human volunteer kinematics during evasive swerving events. <i>Traffic Injury Prevention</i> , 2020, 21, 48-54. | 1.4 | 15 |
| 17 | Efficacy of automatic emergency braking among risky drivers using counterfactual simulations from the SHRP 2 naturalistic driving study. <i>Safety Science</i> , 2020, 128, 104746. | 4.9 | 14 |
| 18 | Analysis of spinal motion and loads during frontal impacts. Comparison between PMHS and ATD. <i>Annals of Advances in Automotive Medicine</i> , 2010, 54, 61-78. | 0.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Simulated Driving Performance, Self-Reported Driving Behaviors, and Mental Health Symptoms in Adolescent Novice Drivers. <i>Nursing Research</i> , 2018, 67, 202-211. | 1.7 | 12 |
| 20 | 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. <i>Traffic Injury Prevention</i> , 2014, 15, 386-394. | 1.4 | 11 |
| 21 | Electromyography responses of pediatric and young adult volunteers in low-speed frontal impacts. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 1206-1214. | 1.7 | 10 |
| 22 | Advanced driver assistance systems for teen drivers: A national survey of teen and parent perceptions. <i>Traffic Injury Prevention</i> , 2018, 19, S84-S90. | 1.4 | 10 |
| 23 | The effect of pretensioning and age on torso rollout in restrained human volunteers in far-side lateral and oblique loading. <i>Stapp Car Crash Journal</i> , 2012, 56, 443-67. | 1.1 | 10 |
| 24 | Evaluation of Pediatric ATD Biofidelity as Compared to Child Volunteers in Low-Speed Far-Side Oblique and Lateral Impacts. <i>Traffic Injury Prevention</i> , 2014, 15, S206-S214. | 1.4 | 9 |
| 25 | Kinematic Comparison of Pediatric Human Volunteers and the Hybrid III 6-Year-Old Anthropomorphic Test Device. <i>Annals of Advances in Automotive Medicine</i> , 2010, 54, 97-108. | 0.6 | 9 |
| 26 | Evaluation of a Risk Awareness Perception Training Program on Novice Teen Driver Behavior at Left-Turn Intersections. <i>Transportation Research Record</i> , 2015, 2516, 15-21. | 1.9 | 7 |
| 27 | Characterization of the motion of booster-seated children during simulated in-vehicle precrash maneuvers. <i>Traffic Injury Prevention</i> , 2019, 20, S75-S80. | 1.4 | 7 |
| 28 | In-depth analysis of crash contributing factors and potential ADAS interventions among at-risk drivers using the SHRP 2 naturalistic driving study. <i>Traffic Injury Prevention</i> , 2021, 22, S68-S73. | 1.4 | 7 |
| 29 | Evaluation of the Hybrid III and Q-Series Pediatric ATD Upper Neck Loads as Compared to Pediatric Volunteers in Low-Speed Frontal Crashes. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2381-2390. | 2.5 | 6 |
| 30 | Forensic analysis of crib mattress properties on pediatric CPR quality—Can we balance pressure reduction with CPR effectiveness?. <i>Resuscitation</i> , 2013, 84, 1131-1136. | 3.0 | 6 |
| 31 | Synthetic Muscle electroactive polymer (EAP) based actuation and sensing for prosthetic and robotic applications. , 2018, , . | | 6 |
| 32 | The Effect of Pretensioning and Age on Torso Rollout in Restrained Human Volunteers in Far-Side Lateral and Oblique Loading. , 0, , . | | 5 |
| 33 | Simulated Driving Assessment: Case Study for the Development of Drivelab, Extendable Matlabâ„¢ Toolbox for Data Reduction of Clinical Driving Simulator Data. , 0, , . | | 4 |
| 34 | Comparison of Q3s ATD Biomechanical Responses to Pediatric Volunteers. <i>Traffic Injury Prevention</i> , 2014, 15, S215-S222. | 1.4 | 3 |
| 35 | A Methodology to Estimate the Kinematics of Pediatric Occupants in Frontal Impacts. <i>Traffic Injury Prevention</i> , 2012, 13, 393-401. | 1.4 | 2 |
| 36 | Experience and Skill Predict Failure to Brake Errors: Further Validation of the Simulated Driving Assessment. , 0, , . | | 2 |

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|----|---|-----|-----------|
| 37 | LiveMetrics: Providing Individualized Feedback on Driving Performance. , 2015, , . | | 2 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Vehicle Automation Emergency Scenario: Using a Driving Simulator to Assess the Impact of Hand and Foot Placement on Reaction Time. , 0, , . | | 1 |
| 42 | 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 |
| 43 | 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 |
| 44 | Synthetic Muscleâ„¢ for Deep Space Travel and Other Applications on Earth and in Space. , 2022, , 1-48. | | 0 |