

Matthew P Reed

List of Publications by Year in descending order

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Version: 2024-02-01

234
papers

3,573
citations

257101

24
h-index

276539

41
g-index

239
all docs

239
docs citations

239
times ranked

1847
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Comparison of driving performance on-road and in a low-cost simulator using a concurrent telephone dialling task. <i>Ergonomics</i> , 1999, 42, 1015-1037. | 1.1 | 283 |
| 2 | Methods for Measuring and Representing Automobile Occupant Posture. , 0, , . | | 103 |
| 3 | A Statistical Method for Predicting Automobile Driving Posture. <i>Human Factors</i> , 2002, 44, 557-568. | 2.1 | 98 |
| 4 | A statistical human rib cage geometry model accounting for variations by age, sex, stature and body mass index. <i>Journal of Biomechanics</i> , 2014, 47, 2277-2285. | 0.9 | 89 |
| 5 | Comparing the effects of age, BMI and gender on severe injury (AIS 3+) in motor-vehicle crashes. <i>Accident Analysis and Prevention</i> , 2014, 72, 146-160. | 3.0 | 77 |
| 6 | Development, Validation, and Application of a Parametric Pediatric Head Finite Element Model for Impact Simulations. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2984-2997. | 1.3 | 74 |
| 7 | Effects of Vehicle Interior Geometry and Anthropometric Variables on Automobile Driving Posture. <i>Human Factors</i> , 2000, 42, 541-552. | 2.1 | 68 |
| 8 | A Statistical Skull Geometry Model for Children 0-3 Years Old. <i>PLoS ONE</i> , 2015, 10, e0127322. | 1.1 | 64 |
| 9 | Effects of Obesity on Seat Belt Fit. <i>Traffic Injury Prevention</i> , 2012, 13, 364-372. | 0.6 | 51 |
| 10 | Effects of BMI on the risk and frequency of AIS 3+ injuries in motor-vehicle crashes. <i>Obesity</i> , 2013, 21, E88-97. | 1.5 | 49 |
| 11 | An automated method to morph finite element whole-body human models with a wide range of stature and body shape for both men and women. <i>Journal of Biomechanics</i> , 2017, 60, 253-260. | 0.9 | 49 |
| 12 | Optimizing Vehicle Occupant Packaging. , 2006, , . | | 48 |
| 13 | An Improved Seating Accommodation Model with Application to Different User Populations. , 1998, , . | | 46 |
| 14 | Representing and identifying alternative movement techniques for goal-directed manual tasks. <i>Journal of Biomechanics</i> , 2005, 38, 519-527. | 0.9 | 46 |
| 15 | A parametric ribcage geometry model accounting for variations among the adult population. <i>Journal of Biomechanics</i> , 2016, 49, 2791-2798. | 0.9 | 46 |
| 16 | Creating virtual user populations by analysis of anthropometric data. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 106-111. | 1.5 | 45 |
| 17 | Optimizing Truck Cab Layout for Driver Accommodation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2007, 129, 1110-1117. | 1.7 | 43 |
| 18 | Development and Validation of Statistical Models of Femur Geometry for Use with Parametric Finite Element Models. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2503-2514. | 1.3 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Statistics for Digital Human Motion Modeling in Ergonomics. <i>Technometrics</i> , 2007, 49, 277-290. | 1.3 | 38 |
| 20 | Modelling three-dimensional trajectories by using BÃ©zier curves with application to hand motion. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2007, 56, 571-585. | 0.5 | 36 |
| 21 | Effects of obesity on occupant responses in frontal crashes: a simulation analysis using human body models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1280-1292. | 0.9 | 36 |
| 22 | Development and Validation of a High Anatomical Fidelity FE Model for the Buttock and Thigh of a Seated Individual. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2805-2816. | 1.3 | 36 |
| 23 | Static, Dynamic, and Cognitive Fit of Exosystems for the Human Operator. <i>Human Factors</i> , 2020, 62, 424-440. | 2.1 | 36 |
| 24 | An Investigation of Driver Discomfort and Related Seat Design Factors in Extended-Duration Driving. , 0, , . | | 35 |
| 25 | The HUMOSIM Ergonomics Framework: A New Approach to Digital Human Simulation for Ergonomic Analysis. , 0, , . | | 35 |
| 26 | Frontal crash simulations using parametric human models representing a diverse population. <i>Traffic Injury Prevention</i> , 2019, 20, S97-S105. | 0.6 | 33 |
| 27 | Evaluation of the static belt fit provided by belt-positioning booster seats. <i>Accident Analysis and Prevention</i> , 2009, 41, 598-607. | 3.0 | 32 |
| 28 | Parametric body shape model of standing children aged 3â€“11 years. <i>Ergonomics</i> , 2015, 58, 1714-1725. | 1.1 | 32 |
| 29 | Development of a consumer-driven Wheelchair Seating Discomfort Assessment Tool (WcS-DAT). <i>International Journal of Rehabilitation Research</i> , 2004, 27, 85-90. | 0.7 | 30 |
| 30 | Biomechanical Investigation of Airbag-Induced Upper-Extremity Injuries. , 0, , . | | 29 |
| 31 | Effects of vehicle seat and belt geometry on belt fit for children with and without belt positioning booster seats. <i>Accident Analysis and Prevention</i> , 2013, 50, 512-522. | 3.0 | 29 |
| 32 | Development of an Improved Driver Eye Position Model. , 0, , . | | 28 |
| 33 | The Tolerance of the Human Hip to Dynamic Knee Loading. , 0, , . | | 28 |
| 34 | Adaptive Experimental Design Applied to Ergonomics Testing Procedure. , 2002, , 529. | | 27 |
| 35 | A New Approach to Modeling Driver Reach. , 0, , . | | 27 |
| 36 | Improving an Ergonomics Testing Procedure via Approximation-based Adaptive Experimental Design. <i>Journal of Mechanical Design</i> , <i>Transactions of the ASME</i> , 2005, 127, 1006-1013. | 1.7 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Modeling Variability in Torso Shape for Chair and Seat Design. , 2008, , . | | 27 |
| 38 | Motion sickness in passenger vehicles during test track operations. Ergonomics, 2019, 62, 1357-1371. | 1.1 | 27 |
| 39 | ATD Positioning Based on Driver Posture and Position. , 1998, , . | | 25 |
| 40 | Test-Retest Reliability, Internal Item Consistency, and Concurrent Validity of the Wheelchair Seating Discomfort Assessment Tool. Assistive Technology, 2005, 17, 98-107. | 1.2 | 25 |
| 41 | Child body shape measurement using depth cameras and a statistical body shape model. Ergonomics, 2015, 58, 301-309. | 1.1 | 25 |
| 42 | Effects of driver characteristics on seat belt fit. Stapp Car Crash Journal, 2013, 57, 43-57. | 1.1 | 25 |
| 43 | Comparison of Child Body Dimensions with Rear Seat Geometry. , 0, , . | | 24 |
| 44 | Development and Validation of an Older Occupant Finite Element Model of a Mid-Sized Male for Investigation of Age-related Injury Risk. Stapp Car Crash Journal, 2015, 59, 359-83. | 1.1 | 24 |
| 45 | Anthropometric and Postural Variability: Limitations of the Boundary Manikin Approach. , 0, , . | | 23 |
| 46 | Anthropometric specification of child crash dummy pelves through statistical analysis of skeletal geometry. Journal of Biomechanics, 2009, 42, 1143-1145. | 0.9 | 23 |
| 47 | Development and validation of a modified Hybrid-III six-year-old dummy model for simulating submarining in motor-vehicle crashes. Medical Engineering and Physics, 2012, 34, 541-551. | 0.8 | 23 |
| 48 | Deformation of the gluteal soft tissues during sitting. Clinical Biomechanics, 2015, 30, 662-668. | 0.5 | 23 |
| 49 | Statistical Models for Predicting Automobile Driving Postures for Men and Women Including Effects of Age. Human Factors, 2016, 58, 261-278. | 2.1 | 23 |
| 50 | A parametric model of child body shape in seated postures. Traffic Injury Prevention, 2017, 18, 533-536. | 0.6 | 22 |
| 51 | Automobile Occupant Posture Prediction for Use with Human Models. , 0, , . | | 21 |
| 52 | Modeling Vehicle Ingress and Egress Using the Human Motion Simulation Framework. , 0, , . | | 21 |
| 53 | Improved positioning procedures for 6YO and 10YO ATDs based on child occupant postures. Stapp Car Crash Journal, 2006, 50, 337-88. | 1.1 | 21 |
| 54 | A statistical model including age to predict passenger postures in the rear seats of automobiles. Ergonomics, 2016, 59, 796-805. | 1.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Posture and belt fit in reclined passenger seats. <i>Traffic Injury Prevention</i> , 2019, 20, S38-S42. | 0.6 | 20 |
| 56 | Development and Testing of a More Realistic Pelvis for the Hybrid III 6-Year-Old ATD. <i>Traffic Injury Prevention</i> , 2010, 11, 606-612. | 0.6 | 19 |
| 57 | Prevalence of non-nominal seat positions and postures among front-seat passengers. <i>Traffic Injury Prevention</i> , 2020, 21, S7-S12. | 0.6 | 19 |
| 58 | Lumbar Support in Auto Seats: Conclusions from a Study of Preferred Driving Posture. , 0, , . | | 18 |
| 59 | Anthropometry for WorldSID A World-Harmonized Midsize Male Side Impact Crash Dummy. , 0, , . | | 18 |
| 60 | A Dynamic Seating Intervention for Wheelchair Seating Discomfort. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2007, 86, 988-993. | 0.7 | 18 |
| 61 | Effects of child restraint system features on installation errors. <i>Applied Ergonomics</i> , 2014, 45, 270-277. | 1.7 | 18 |
| 62 | Cervical spine geometry in the automotive seated posture: variations with age, stature, and gender. <i>Stapp Car Crash Journal</i> , 2004, 48, 301-30. | 1.1 | 18 |
| 63 | Investigation of Airbag-Induced Skin Abrasions. , 0, , . | | 17 |
| 64 | Some Effects of Lumbar Support Contour on Driver Seated Posture. , 1995, , . | | 16 |
| 65 | Assessing the Importance of Motion Dynamics for Ergonomic Analysis of Manual Materials Handling Tasks using the AnyBody Modeling System. , 2007, , . | | 16 |
| 66 | The development of a model to predict the effects of worker and task factors on foot placements in manual material handling tasks. <i>Ergonomics</i> , 2010, 53, 1368-1384. | 1.1 | 16 |
| 67 | Rear Seat Restraint System Optimization for Older Children in Frontal Crashes. <i>Traffic Injury Prevention</i> , 2013, 14, 614-622. | 0.6 | 16 |
| 68 | A Simulation Study on the Efficacy of Advanced Belt Restraints to Mitigate the Effects of Obesity for Rear-Seat Occupant Protection in Frontal Crashes. <i>Traffic Injury Prevention</i> , 2015, 16, S75-S83. | 0.6 | 16 |
| 69 | Informative Sensor and Feature Selection via Hierarchical Nonnegative Garrote. <i>Technometrics</i> , 2015, 57, 514-523. | 1.3 | 16 |
| 70 | Effects of Driver Characteristics on Seat Belt Fit. , 0, , . | | 16 |
| 71 | Development and Validation of an Older Occupant Finite Element Model of a Mid-Sized Male for Investigation of Age-related Injury Risk. , 0, , . | | 16 |
| 72 | Assessing the Validity of Kinematically Generated Reach Envelopes for Simulations of Vehicle Operators. , 2003, , . | | 15 |

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| 73 | A study of the difference between nominal and actual hand forces in two-handed sagittal plane whole-body exertions. <i>Ergonomics</i> , 2011, 54, 47-59. | 1.1 | 15 |
| 74 | Development, Evaluation, and Sensitivity Analysis of Parametric Finite Element Whole-Body Human Models in Side Impacts. , 0, , . | | 15 |
| 75 | Rapid Development of Diverse Human Body Models for Crash Simulations through Mesh Morphing. , 0, , . | | 15 |
| 76 | Passenger head kinematics in abrupt braking and lane change events. <i>Traffic Injury Prevention</i> , 2018, 19, S70-S77. | 0.6 | 15 |
| 77 | Development of ATD Installation Procedures Based on Rear-Seat Occupant Postures. <i>Stapp Car Crash Journal</i> , 2005, 49, 381-421. | 1.1 | 15 |
| 78 | Development, Evaluation, and Sensitivity Analysis of Parametric Finite Element Whole-Body Human Models in Side Impacts. <i>Stapp Car Crash Journal</i> , 2016, 60, 473-508. | 1.1 | 15 |
| 79 | ASPECT: The Next-Generation H-Point Machine and Related Vehicle and Seat Design and Measurement Tools. , 0, , . | | 14 |
| 80 | Comparison of Methods for Predicting Automobile Driver Posture. , 0, , . | | 14 |
| 81 | Impact Response Comparison Between Parametric Human Models and Postmortem Human Subjects with a Wide Range of Obesity Levels. <i>Obesity</i> , 2017, 25, 1786-1794. | 1.5 | 14 |
| 82 | New Concepts in Vehicle Interior Design Using ASPECT. , 1999, , . | | 13 |
| 83 | Body-pillar vision obstructions and lane-change crashes. <i>Journal of Safety Research</i> , 2007, 38, 557-561. | 1.7 | 13 |
| 84 | Foot motions in manual material handling transfer tasks: A taxonomy and data from an automotive assembly plant. <i>Ergonomics</i> , 2009, 52, 362-383. | 1.1 | 13 |
| 85 | An Anthropometric Comparison of Current ATDs with the U.S. Adult Population. <i>Traffic Injury Prevention</i> , 2013, 14, 703-705. | 0.6 | 13 |
| 86 | The effect of bracing availability on one-hand isometric force exertion capability. <i>Ergonomics</i> , 2013, 56, 667-681. | 1.1 | 13 |
| 87 | Validation of a parametric finite element human femur model. <i>Traffic Injury Prevention</i> , 2017, 18, 420-426. | 0.6 | 13 |
| 88 | Validating diverse human body models against side impact tests with post-mortem human subjects. <i>Journal of Biomechanics</i> , 2020, 98, 109444. | 0.9 | 13 |
| 89 | Effects of Hip Posture on the Frontal Impact Tolerance of the Human Hip Joint. , 0, , . | | 13 |
| 90 | Optimizing Seat Belt and Airbag Designs for Rear Seat Occupant Protection in Frontal Crashes. , 0, , . | | 13 |

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|-----|---|-----|-----------|
| 91 | Design and Development of the ASPECT Manikin. , 1999, , . | | 12 |
| 92 | Predicting Force-Exertion Postures from Task Variables. , 0, , . | | 12 |
| 93 | A model of head movement contribution for gaze transitions. Ergonomics, 2010, 53, 447-457. | 1.1 | 12 |
| 94 | Does unbelted safety requirement affect protection for belted occupants?. Traffic Injury Prevention, 2017, 18, S85-S95. | 0.6 | 12 |
| 95 | A New Database of Child Anthropometry and Seated Posture for Automotive Safety Applications. , 2005, , . | | 11 |
| 96 | Integration of Physical and Cognitive Human Models to Simulate Driving With a Secondary In-Vehicle Task. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 967-972. | 4.7 | 11 |
| 97 | Anthropometric Dimensions of Individuals With High Body Mass Index. Human Factors, 2019, 61, 1277-1296. | 2.1 | 11 |
| 98 | Characterization of Knee-Thigh-Hip Response in Frontal Impacts Using Biomechanical Testing and Computational Simulations. , 0, , . | | 11 |
| 99 | Laboratory Investigations and Mathematical Modeling of Airbag-Induced Skin Burns. , 1994, , . | | 10 |
| 100 | Methods for Laboratory Investigation of Truck and Bus Driver Postures. , 2000, , . | | 10 |
| 101 | Improved Head Restraint Design for Safety and Compliance. , 2006, , 133. | | 10 |
| 102 | Influence of visibility out of the vehicle cabin on lane-change crashes. Accident Analysis and Prevention, 2006, 38, 969-972. | 3.0 | 10 |
| 103 | The influence of personal protection equipment, occupant body size, and restraint system on the frontal impact responses of Hybrid III ATDs in tactical vehicles. Traffic Injury Prevention, 2017, 18, 642-649. | 0.6 | 10 |
| 104 | Anatomically-based skeletal coordinate systems for use with impact biomechanics data intended for anthropomorphic test device development. Journal of Biomechanics, 2019, 92, 162-168. | 0.9 | 10 |
| 105 | A three-dimensional parametric adult head model with representation of scalp shape variability under hair. Applied Ergonomics, 2021, 90, 103239. | 1.7 | 10 |
| 106 | Modeling Population Distributions of Subjective Ratings. , 0, , . | | 9 |
| 107 | A pilot study of a method for assessing the reach capability of wheelchair users for safety belt design. Applied Ergonomics, 2005, 36, 523-528. | 1.7 | 9 |
| 108 | Responsiveness of the TAWC tool for assessing wheelchair discomfort. Disability and Rehabilitation: Assistive Technology, 2007, 2, 97-103. | 1.3 | 9 |

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| 109 | Optimizing the Rear Seat Environment for Older Children, Adults, and Infants. Traffic Injury Prevention, 2013, 14, S13-S22. | 0.6 | 9 |
| 110 | Development of seating accommodation models for soldiers in vehicles. Ergonomics, 2017, 60, 589-596. | 1.1 | 9 |
| 111 | Cervical Spine Geometry in the Automotive Seated Posture: Variations with Age, Stature, and Gender. , 0, , . | | 9 |
| 112 | Human Subject Testing in Support of ASPECT. , 1999, , . | | 8 |
| 113 | Improved ATD Positioning Procedures. , 0, , . | | 8 |
| 114 | A Pilot Study of the Effects of Vertical Ride Motion on Reach Kinematics. , 2003, , . | | 8 |
| 115 | Predicting Foot Positions for Manual Materials Handling Tasks. , 2005, , . | | 8 |
| 116 | A Task-Based Stepping Behavior Model for Digital Human Models. , 0, , . | | 8 |
| 117 | Quantifying Cervical-Spine Curvature Using BÃ©zier Splines. Journal of Biomechanical Engineering, 2012, 134, 114503. | 0.6 | 8 |
| 118 | An updated estimate of the body dimensions of US children. Ergonomics, 2015, 58, 1045-1057. | 1.1 | 8 |
| 119 | Effects of Seat and Sitter Dimensions on Pressure Distribution in Automotive Seats. , 0, , . | | 8 |
| 120 | Predicting the Effects of Muscle Activation on Knee, Thigh, and Hip Injuries in Frontal Crashes Using a Finite-Element Model with Muscle Forces from Subject Testing and Musculoskeletal Modeling. , 0, , . | | 8 |
| 121 | Development of ATD Installation Procedures Based on Rear-Seat Occupant Postures. , 0, , . | | 8 |
| 122 | Improved Positioning Procedures for 6YO and 10YO ATDs Based on Child Occupant Postures. , 0, , . | | 8 |
| 123 | Restraint systems considering occupant diversity and pre-crash posture. Traffic Injury Prevention, 2020, 21, S31-S36. | 0.6 | 8 |
| 124 | Methods for In-Vehicle Measurement of Truck Driver Postures. , 0, , . | | 7 |
| 125 | Robust Truck Cabin Layout Optimization Using Advanced Driver Variance Models. , 2005, , 1103. | | 7 |
| 126 | Development and validation of a parametric child anthropomorphic test device model representing 6â€“12-year-old children. International Journal of Crashworthiness, 2012, 17, 606-620. | 1.1 | 7 |

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| 127 | Distribution of Belt Anchorage Locations in the Second Row of Passenger Cars and Light Trucks. SAE International Journal of Transportation Safety, 0, 1, 25-31. | 0.4 | 7 |
| 128 | Development of an Automatic Seat-Dimension Extraction System. , 2016, , . | | 7 |
| 129 | Quantifying the in vivo quasi-static response to loading of sub-dermal tissues in the human buttock using magnetic resonance imaging. Clinical Biomechanics, 2017, 50, 70-77. | 0.5 | 7 |
| 130 | Influence of automobile seat form and comfort rating on willingness-to-pay. International Journal of Vehicle Design, 2017, 75, 75. | 0.1 | 7 |
| 131 | Comparison of three-point belt fit between humans and ATDs in rear seats. Traffic Injury Prevention, 2018, 19, S65-S69. | 0.6 | 7 |
| 132 | In-Vehicle Occupant Head Tracking Using aLow-Cost Depth Camera. , 2018, , . | | 7 |
| 133 | Child Posture and Belt Fit in a Range of Booster Configurations. International Journal of Environmental Research and Public Health, 2020, 17, 810. | 1.2 | 7 |
| 134 | The Effects of Forward Vision Restriction on Automobile Driver Posture. Transportation Human Factors, 2000, 2, 173-189. | 0.3 | 7 |
| 135 | PMHS Impact Response in 3 m/s and 8 m/s Nearside Impacts with Abdomen Offset. , 0, , . | | 7 |
| 136 | Postural Behaviors during One-Hand Force Exertions. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 1, 1136-1142. | 0.4 | 6 |
| 137 | Driver Report of Improper Seat Belt Position Among 4- to 9-Year-old Children. Academic Pediatrics, 2011, 11, 487-492. | 1.0 | 6 |
| 138 | Measurement of the Contour and Deflection of Vehicle Seats for Comparison with the FMVSS 213 Dynamic Test Bench. , 0, , . | | 6 |
| 139 | Development of an Optimization Method for Locating the Pelvis in an Automobile Seat. Procedia Manufacturing, 2015, 3, 3738-3744. | 1.9 | 6 |
| 140 | Predicting Subjective Responses From Human Motion: Application to Vehicle Ingress Assessment. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, . | 1.3 | 6 |
| 141 | Effects of child restraint misuse on dynamic performance. Traffic Injury Prevention, 2019, 20, 860-865. | 0.6 | 6 |
| 142 | Predicting pelvis geometry using a morphometric model with overall anthropometric variables. Journal of Biomechanics, 2021, 126, 110633. | 0.9 | 6 |
| 143 | ASPECT Manikin Applications and Measurements for Design, Audit, and Benchmarking. , 0, , . | | 5 |
| 144 | Characterization of Driver Seatbelt Donning Behavior. , 2002, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | A Method for Measuring the Field of View in Vehicle Mirrors. , 0, , . | | 5 |
| 146 | Sitter-Selected Postures in an Office Chair with Minimal Task Constraints. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 1086-1090. | 0.2 | 5 |
| 147 | Application of Digital Human Modeling to the Design of a Postal Delivery Vehicle. , 0, , . | | 5 |
| 148 | Behavior-Based Model of Clavicle Motion for Simulating Seated Reaches. , 0, , . | | 5 |
| 149 | An Integrated Model of Gait and Transition Stepping for Simulation of Industrial Workcell Tasks. , 2007, , . | | 5 |
| 150 | Effect of In-Vehicle Touch Screen Position on Driver Performance. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1893-1897. | 0.2 | 5 |
| 151 | A Pilot Study of Three-Dimensional Child Anthropometry for Vehicle Safety Analysis. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 2326-2330. | 0.2 | 5 |
| 152 | Effects of task characteristics on unimanual and bimanual movement times. Ergonomics, 2013, 56, 612-622. | 1.1 | 5 |
| 153 | Development of a Methodology for Simulating Seat Back Interaction Using Realistic Body Contours. SAE International Journal of Passenger Cars - Mechanical Systems, 2013, 6, 623-628. | 0.4 | 5 |
| 154 | Predicting vehicle belt fit for children ages 6â€“12. Traffic Injury Prevention, 2016, 17, 58-64. | 0.6 | 5 |
| 155 | The influence of pre-existing rib fractures on Global Human Body Models Consortium thorax response in frontal and oblique impact. Journal of Biomechanics, 2018, 69, 54-63. | 0.9 | 5 |
| 156 | Evaluating an intervention to improve belt fit for adult occupants: Promoting positive beliefs. Journal of Safety Research, 2018, 64, 105-111. | 1.7 | 5 |
| 157 | Development of a three-dimensional body shape model of young children for child restraint design. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 784-794. | 0.9 | 5 |
| 158 | A Laboratory Technique for Assessing the Skin Abrasion Potential of Airbags. , 0, , . | | 4 |
| 159 | Distribution of Automobile Trip Durations for Studies of Seat Comfort. , 1996, , . | | 4 |
| 160 | Investigating Driver Headroom Perception: Methods and Models. , 1999, , . | | 4 |
| 161 | Considering Driver Balance Capability in Truck Shifter Design. , 2006, , . | | 4 |
| 162 | The Virtual Driver: Integrating Task Planning and Cognitive Simulation with Human Movement Models. , 2007, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Force-Exertion Postures with External Bracing in Industrial Tasks: Data from an Automotive Assembly Plant. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1049-1053. | 0.2 | 4 |
| 164 | Modeling Ascending and Descending Stairs Using the Human Motion Simulation Framework. , 2009, , . | | 4 |
| 165 | An Eyellipse for Rear Seats with Fixed Seat Back Angles. SAE International Journal of Passenger Cars - Mechanical Systems, 2011, 4, 586-590. | 0.4 | 4 |
| 166 | Driver Preference for Fore-Aft Steering Wheel Location. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 6, 629-635. | 0.4 | 4 |
| 167 | Kinematics of Pediatric Crash Dummies Seated on Vehicle Seats with Realistic Belt Geometry. Traffic Injury Prevention, 2014, 15, 866-874. | 0.6 | 4 |
| 168 | Identifying and classifying force-generation strategies for one-hand isometric force exertion tasks with bracing availability. Theoretical Issues in Ergonomics Science, 2015, 16, 326-344. | 1.0 | 4 |
| 169 | Statistical prediction of eye locations for drivers of military ground vehicles. International Journal of Industrial Ergonomics, 2017, 59, 20-28. | 1.5 | 4 |
| 170 | Development of a Vehicle-Based Experimental Platform for Quantifying Passenger Motion Sickness during Test Track Operations. , 0, , . | | 4 |
| 171 | Comparison across vehicles of passenger head kinematics in abrupt vehicle maneuvers. Traffic Injury Prevention, 2019, 20, S128-S132. | 0.6 | 4 |
| 172 | PMHS impact response in 3 m/s and 8 m/s nearside impacts with abdomen offset. Stapp Car Crash Journal, 2013, 57, 387-425. | 1.1 | 4 |
| 173 | Facial, Periorbital and Ocular Injuries Related to Steering-Wheel Airbag Deployments. , 1997, , . | | 3 |
| 174 | Comparison of Airbag-Aggressivity Predictors in Relation to Forearm Fractures. , 1998, , . | | 3 |
| 175 | Development of Anthropometric Specifications for the Six-Year-Old OCATD. , 2001, , . | | 3 |
| 176 | Critical Features in Human Motion Simulation for Ergonomic Analysis. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1196-1199. | 0.2 | 3 |
| 177 | Standing Reach Envelopes Incorporating Anthropometric Variance and Postural Cost. , 2007, , . | | 3 |
| 178 | Child Passenger Restraints in Relation to Other Second-Row Passengers: An Analysis of the 2007â€“2009 National Survey of the Use of Booster Seats. Traffic Injury Prevention, 2013, 14, 209-214. | 0.6 | 3 |
| 179 | A Simulation Study of Spine Biofidelity in the Hybrid-III 6-Year-Old ATD. Traffic Injury Prevention, 2013, 14, 397-404. | 0.6 | 3 |
| 180 | Uncertainty Assessment in Restraint System Optimization for Occupants of Tactical Vehicles. SAE International Journal of Materials and Manufacturing, 0, 9, 436-443. | 0.3 | 3 |

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|-----|--|-----|-----------|
| 181 | Development of A New Dynamic Rollover Test Methodology for Heavy Vehicles. , 2017, , . | | 3 |
| 182 | A parametric modeling of adult body shape in a supported seated posture including effects of age. Ergonomics, 2022, 65, 795-803. | 1.1 | 3 |
| 183 | Response and Tolerance of Female and/or Elderly PMHS to Lateral Impact. , 0, , . | | 3 |
| 184 | Freshwater Mussels (Bivalvia: Margaritiferidae and Unionidae) of the Buffalo River Drainage, Tennessee. Southeastern Naturalist, 2019, 18, 346. | 0.2 | 3 |
| 185 | Response and Tolerance of Female and/or Elderly PMHS to Lateral Impact. Stapp Car Crash Journal, 2014, 58, 423-63. | 1.1 | 3 |
| 186 | Creating Human Figure Models for Ergonomic Analysis from Whole-Body Scan Data. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 1040-1043. | 0.2 | 2 |
| 187 | Development of Surrogate Child Restraints for Testing Occupant Sensing and Classification Systems. , 2004, , . | | 2 |
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