

Narayan Yoganandan

List of Publications by Year
in descending order

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Version: 2024-02-01

366
papers

9,209
citations

41339
49
h-index

64791
79
g-index

368
all docs

368
docs citations

368
times ranked

3665
citing authors

#	ARTICLE	IF	CITATIONS
1	Human pelvis injury risk curves from underbody blast impact. BMJ Military Health, 2023, 169, 436-442.	0.9	4
2	A biomechanical investigation of lumbar interbody fusion techniques. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104961.	3.1	7
3	Biomechanical Analysis of 3-Level Anterior Cervical Discectomy and Fusion Under Physiologic Loads Using a Finite Element Model. Neurospine, 2022, 19, 385-392.	2.9	3
4	Cervical spine degeneration specific segmental angular rotational and displacements: A quantitative study. Clinical Biomechanics, 2022, 97, 105688.	1.2	0
5	Calcaneus fracture pattern and severity: Role of local trabecular bone density. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 134, 105332.	3.1	2
6	Gender Differences in Cervical Spine Motions and Loads with Head Supported Mass Using Finite Element Models. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2022, , .	0.5	3
7	An Improved Method for Developing Injury Risk Curves Using the Brier Metric Score. Annals of Biomedical Engineering, 2021, 49, 3091-3098.	2.5	4
8	Effect of heterotopic ossification after bryan-cervical disc arthroplasty on adjacent level range of motion: A finite element study. Journal of Clinical Orthopaedics and Trauma, 2021, 15, 99-103.	1.5	4
9	Influence of cervical spine sagittal alignment on range of motion after corpectomy: a finite element study. Acta Neurochirurgica, 2021, 163, 251-257.	1.7	4
10	Influence of Compressive Preloading on Range of Motion and Endplate Stresses in the Cervical Spine During Flexion/Extension. IFMBE Proceedings, 2021, , 121-128.	0.3	0
11	Pelvic Injury Risk Curves for the Military Populations From Lateral Impact. Military Medicine, 2021, 186, 424-429.	0.8	1
12	Comparative Finite Element Modeling Study of Anterior Cervical Arthrodesis Versus Cervical Arthroplasty With Bryan Disc or Prodisc C. Military Medicine, 2021, 186, 737-744.	0.8	8
13	Neck Vertebral Level-specific Forces and Moments Under G-x Accelerative Loading. Military Medicine, 2021, 186, 625-631.	0.8	1
14	Predictive Biomechanical Study on the Human Cervical Spine Under Complex Physiological Loading. IFMBE Proceedings, 2021, , 109-120.	0.3	0
15	Biomechanical Study of Cervical Disc Arthroplasty Devices Using Finite Element Modeling. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2021, 4, .	0.5	2
16	Human Thoracolumbar Spine Tolerance to Injury and Mechanisms From Caudo-Cephalad Loading: A Parametric Modeling Study. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2021, 4, .	0.5	2
17	Development of a detailed human neck finite element model and injury risk curves under lateral impact. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104318.	3.1	12
18	A Comparison Study of Four Cervical Disk Arthroplasty Devices Using Finite Element Models. Asian Spine Journal, 2021, 15, 283-293.	2.0	9

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19	A novel posture control device to induce high-rate complex loads for spine biomechanical studies. Journal of Biomechanics, 2021, 123, 110537.	2.1	2
20	The Human Lumbar Spine During High-Rate Under Seat Loading: A Combined Metric Injury Criteria. Annals of Biomedical Engineering, 2021, 49, 3018-3030.	2.5	10
21	Biomechanical effects of uncinat process excision in cervical disc arthroplasty. Clinical Biomechanics, 2021, 89, 105451.	1.2	3
22	Lower Neck Injury Assessment Risk Curves Based on Matched-Pair Human Data for Anthropomorphic Test Devices. Military Medicine, 2021, 186, 639-644.	0.8	4
23	A Comparison of Nonhuman Primate Injuries in Horizontal Versus Vertical Sled +Gz (Head-to-Foot) Impact Accelerations. Military Medicine, 2021, 186, 610-618.	0.8	0
24	Vertebral Level-dependent Kinematics of Female and Male Necks Under G+x Loading. Military Medicine, 2021, 186, 619-624.	0.8	2
25	Upright Magnetic Resonance Imaging Study of Cervical Flexor/Extensor Musculature and Cervical Lordosis in Females After Helmet Wear. Military Medicine, 2021, 186, 632-638.	0.8	4
26	Normalized vertebral-level specific range of motion corridors for female spines in rear impact. Traffic Injury Prevention, 2021, , 1-4.	1.4	1
27	Deflection-based parametric survival analysis side impact chest injury risk curves AIS 2015. Traffic Injury Prevention, 2021, , 1-5.	1.4	0
28	Application of complex neck loads to human spine at the occipital condyle joint: Implications for nonstandard postures for automated vehicles. Traffic Injury Prevention, 2021, , 1-3.	1.4	0
29	Importance of neural foraminal narrowing in lumbar spine fractures of low AIS severity. Traffic Injury Prevention, 2021, 22, S140-S142.	1.4	0
30	Belt-induced abdominal injuries in recent frontal impact CIREN cases. Traffic Injury Prevention, 2021, 22, S142-S146.	1.4	0
31	Sagittal plane moment responses of the THOR-05F anthropomorphic test device. Traffic Injury Prevention, 2021, , 1-4.	1.4	0
32	Neck Motions and Loads With Head Supported Mass Under Sagittal Accelerative Loading. , 2021, , .		0
33	Regional Strain Response of an Anatomically Accurate Finite Element Head Model. , 2021, , .		3
34	Effects of Personal Protective Equipment on Spinal Column Loads From Underbody Blast Loading. , 2021, , .		0
35	Quantifying the Effect of Pelvis Fracture on Lumbar Spine Compression during High-rate Vertical Loading. , 2021, 65, 189-216.		0
36	Hierarchical process using Brier Score Metrics for lower leg injury risk curves in vertical impact. BMJ Military Health, 2020, 166, 318-323.	0.9	3

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37	“A method to measure predictive ability of an injury risk curve using an observation-adjusted area under the receiver operating characteristic curve” by A.M. Baker, F.C. Hsu, F.S. Gayzik (2018). Journal of Biomechanics, 2020, 100, 109087.	2.1	1
38	Human Lumbar Spine Responses from Vertical Loading: Ranking of Forces Via Brier Score Metrics and Injury Risk Curves. Annals of Biomedical Engineering, 2020, 48, 79-91.	2.5	16
39	Unique biomechanical signatures of Bryan, Prodisc C, and Prestige LP cervical disc replacements: a finite element modelling study. European Spine Journal, 2020, 29, 2631-2639.	2.2	27
40	Lower neck injury criteria for THOR and Hybrid III dummies in rear impact. Traffic Injury Prevention, 2020, 21, S176-S178.	1.4	1
41	Intervertebral foramen narrowing during vertical dynamic loading. Traffic Injury Prevention, 2020, 21, S163-S165.	1.4	3
42	Trabecular bone mineral density correlations using QCT: Central and peripheral human skeleton. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104076.	3.1	4
43	Uncertainty Evaluations for Risk Assessment in Impact Injuries and Implications for Clinical Practice. Frontiers in Bioengineering and Biotechnology, 2020, 8, 877.	4.1	0
44	Development of chest deflection injury risk curve in oblique frontal small female PMHS sled tests. Traffic Injury Prevention, 2020, 21, S161-S163.	1.4	2
45	Development and validation of an elderly human body model for frontal impacts. Traffic Injury Prevention, 2020, 21, S147-S149.	1.4	2
46	Development and validation of osteoligamentous lumbar spine under complex loading conditions: A step towards patient-specific modeling. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103898.	3.1	7
47	Human lumbar spinal column injury criteria from vertical loading at the base: Applications to military environments. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 105, 103690.	3.1	14
48	External and internal responses of cervical disc arthroplasty and anterior cervical discectomy and fusion: A finite element modeling study. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 106, 103735.	3.1	15
49	Human Pelvis Bayesian Injury Probability Curves From Whole Body Lateral Impact Experiments. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2020, 3, .	0.5	1
50	Identification of Pedicle Screw Pullout Load Paths for Osteoporotic Vertebrae. Asian Spine Journal, 2020, 14, 273-279.	2.0	5
51	Effects of different severities of disc degeneration on the range of motion of cervical spine. Journal of Craniovertebral Junction and Spine, 2020, 11, 269.	0.8	3
52	Human Thoracolumbar Spine Tolerance to Injury and Mechanisms From Caudo-Cephalad Impacts. , 2020, , .		0
53	Biomechanical Study of Cervical Disc Arthroplasty Devices Using Finite Element Models. , 2020, , .		1
54	Application of resampling techniques to improve the quality of survival analysis risk curves for human frontal bone fracture. Clinical Biomechanics, 2019, 64, 28-34.	1.2	4

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55	THOR dummy chest deflection response in oblique and lateral far-side sled tests. Traffic Injury Prevention, 2019, 20, S32-S37.	1.4	5
56	Compression-based injury variables from chestbands in far-side impact THOR sled tests. Traffic Injury Prevention, 2019, 20, S179-S182.	1.4	1
57	Effectiveness of center-mounted airbag in far-side impacts based on THOR sled tests. Traffic Injury Prevention, 2019, 20, 726-731.	1.4	6
58	Rear-Impact Neck Whiplash: Role of Head Inertial Properties and Spine Morphological Variations on Segmental Rotations. Journal of Biomechanical Engineering, 2019, 141, .	1.3	12
59	A Comparative in vivo Study of Semi-constrained and Unconstrained Cervical Artificial Disc Prostheses. Military Medicine, 2019, 184, 637-643.	0.8	13
60	Development of a Methodology for Simulating Complex Head Impacts With the Advanced Combat Helmet. Military Medicine, 2019, 184, 237-244.	0.8	6
61	Pelvis injury risk curves in side impacts from human cadaver experiments using survival analysis and Brier score metrics. Traffic Injury Prevention, 2019, 20, S137-S142.	1.4	3
62	Cervical spine morphology and ligament property variations: A finite element study of their influence on sagittal bending characteristics. Journal of Biomechanics, 2019, 85, 18-26.	2.1	20
63	Forces and moments in cervical spinal column segments in frontal impacts using finite element modeling and human cadaver tests. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 681-688.	3.1	14
64	Human Pelvis Bayesian Injury Probability Curves From Whole Body Lateral Impact. , 2019, , .		0
65	Role of disc area and trabecular bone density on lumbar spinal column fracture risk curves under vertical impact. Journal of Biomechanics, 2018, 72, 90-98.	2.1	19
66	The influence of child restraint lower attachment method on protection offered by forward facing child restraint systems in oblique loading conditions. Traffic Injury Prevention, 2018, 19, S139-S145.	1.4	1
67	Initial analysis of archived non-human primate frontal and rear impact data from the biodynamics data resource. Traffic Injury Prevention, 2018, 19, S44-S49.	1.4	7
68	Posterior cervical spine crisscross fixation: Biomechanical evaluation. Clinical Biomechanics, 2018, 55, 18-22.	1.2	4
69	Survival Analysis-Based Human Head Injury Risk Curves: Focus on Skull Fracture. Journal of Neurotrauma, 2018, 35, 1272-1279.	3.4	16
70	Normalized frontal impact biofidelity kinematic corridors using post mortem human surrogates. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 20-29.	3.1	3
71	Preliminary female cervical spine injury risk curves from PMHS tests. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 83, 143-147.	3.1	2
72	Influence of morphological variations on cervical spine segmental responses from inertial loading. Traffic Injury Prevention, 2018, 19, S29-S36.	1.4	23

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73	AIS scores in spine and spinal cord trauma: Epidemiological considerations. Traffic Injury Prevention, 2018, 19, S169-S173.	1.4	2
74	Role of age and injury mechanism on cervical spine injury tolerance from head contact loading. Traffic Injury Prevention, 2018, 19, 165-172.	1.4	10
75	Biomechanical tolerance of whole lumbar spines in straightened posture subjected to axial acceleration. Journal of Orthopaedic Research, 2018, 36, 1747-1756.	2.3	18
76	Influence of ATD versus PMHS reference sensor inputs on computational brain response in frontal impacts to advanced combat helmet (ACH). Traffic Injury Prevention, 2018, 19, S159-S161.	1.4	3
77	Development of an injury risk curve for pelvic fracture in vertical loading environments. Traffic Injury Prevention, 2018, 19, S178-S181.	1.4	5
78	Ranking of Biomechanical Metrics to Describe Human Response to Impact-Induced Damage. , 2018, , .		0
79	Novel learning framework (knockoff technique) to evaluate metric ranking algorithms to describe human response to injury. Traffic Injury Prevention, 2018, 19, S121-S126.	1.4	0
80	Three-dimensional kinematic corridors of the head, spine, and pelvis for small female driver seat occupants in near- and far-side oblique frontal impacts. Traffic Injury Prevention, 2018, 19, S64-S69.	1.4	6
81	Comparison of NOCSAE head kinematics using the Hybrid III and EuroSID-2 necks. Journal of Biomechanics, 2018, 80, 37-44.	2.1	5
82	Mechanisms of Cervical Spine Disc Injury under Cyclic Loading. Asian Spine Journal, 2018, 12, 910-918.	2.0	6
83	A Novel Competing Risk Analysis Model to Determine the Role of Cervical Lordosis in Bony and Ligamentous Injuries. World Neurosurgery, 2018, 119, e962-e967.	1.3	1
84	Factors influencing the effectiveness of occupant retention under far-side impacts: A parametric study. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 235-248.	3.1	4
85	Injury Risk Curves for the Human Cervical Spine from Inferior-to-Superior Loading. Stapp Car Crash Journal, 2018, 62, 271-292.	1.1	3
86	Load-Based Lower Neck Injury Criteria for Females from Rear Impact from Cadaver Experiments. Annals of Biomedical Engineering, 2017, 45, 1194-1203.	2.5	19
87	Response to Letter to the Editor on "Deriving injury risk curves using survival analysis from biomechanical experiments", Journal of Biomechanics (in press). Journal of Biomechanics, 2017, 52, 189-190.	2.1	1
88	Foot-ankle complex injury risk curves using calcaneus bone mineral density data. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 246-251.	3.1	10
89	Male and Female Cervical Spine Biomechanics and Anatomy: Implication for Scaling Injury Criteria. Journal of Biomechanical Engineering, 2017, 139, .	1.3	24
90	Male and female WorldSID and post mortem human subject responses in full-scale vehicle tests. Traffic Injury Prevention, 2017, 18, S136-S141.	1.4	2

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91	Fatigue responses of the human cervical spine intervertebral discs. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 69, 30-38.	3.1	15
92	Acoustic Emission Signatures During Failure of Vertebra and Long Bone. Annals of Biomedical Engineering, 2017, 45, 1520-1533.	2.5	8
93	The Thoracolumbar Spine. , 2017, , 309-328.		0
94	Biomechanics of Lumbar Motion-Segments in Dynamic Compression. Stapp Car Crash Journal, 2017, 61, 1-25.	1.1	6
95	Human Foot-Ankle Injuries and Associated Risk Curves from Under Body Blast Loading Conditions. Stapp Car Crash Journal, 2017, 61, 157-173.	1.1	11
96	Practical Anatomy and Fundamental Biomechanics. , 2017, , 58-82.e2.		2
97	Non-Destructive and Failure Responses of Cervical Spine Artificial Disc Surgery for Military Applications. , 2016, , .		0
98	Finite Element Study of a Lumbar Intervertebral Disc Nucleus Replacement Device. Frontiers in Bioengineering and Biotechnology, 2016, 4, 93.	4.1	15
99	Occupant and Crash Characteristics of Elderly Subjects With Thoracic and Lumbar Spine Injuries After Motor Vehicle Collisions. Spine, 2016, 41, 32-38.	2.0	10
100	Cervical spine injuries, mechanisms, stability and AIS scores from vertical loading applied to military environments. European Spine Journal, 2016, 25, 2193-2201.	2.2	10
101	Protection of children in forward-facing child restraint systems during oblique side impact sled tests: Intrusion and tether effects. Traffic Injury Prevention, 2016, 17, 156-162.	1.4	6
102	Radiographic Changes in the Cervical Spine Following Anterior Arthrodesis. Journal of Bone and Joint Surgery - Series A, 2016, 98, 1606-1613.	3.0	20
103	Deriving injury risk curves using survival analysis from biomechanical experiments. Journal of Biomechanics, 2016, 49, 3260-3267.	2.1	36
104	Changing threshold for AIS scores of thoracolumbar compression fractures. Traffic Injury Prevention, 2016, 17, 11-15.	1.4	2
105	Evaluation of kinematics and injuries to restrained occupants in far-side crashes using full-scale vehicle and human body models. Traffic Injury Prevention, 2016, 17, 116-123.	1.4	14
106	Foot-ankle Fractures and Injury Probability Curves from Post-mortem Human Surrogate Tests. Annals of Biomedical Engineering, 2016, 44, 2937-2947.	2.5	30
107	Development of skull fracture criterion based on real-world head trauma simulations using finite element head model. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 57, 24-41.	3.1	40
108	Incidence and mechanism of neurological deficit after thoracolumbar fractures sustained in motor vehicle collisions. Journal of Neurosurgery: Spine, 2016, 24, 323-331.	1.7	8

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109	Responses and Injuries to PMHS in Side-Facing and Oblique Seats in Horizontal Longitudinal Sled Tests per FAA Emergency Landing Conditions. Stapp Car Crash Journal, 2016, 60, 135-163.	1.1	5
110	Biomechanical Response of Military Booted and Unbooted Foot-Ankle-Tibia from Vertical Loading. Stapp Car Crash Journal, 2016, 60, 247-285.	1.1	7
111	Body Morphology and Its Associations With Thoracolumbar Trauma Sustained in Motor Vehicle Collisions. Journal of the American Academy of Orthopaedic Surgeons, The, 2015, 23, 769-777.	2.5	5
112	An Examination of Isolated and Interaction-Based Biomechanical Metrics for Potential Lower Neck Injury Criteria. , 2015, , .		2
113	Oblique Loading in Post Mortem Human Surrogates from Vehicle Lateral Impact Tests Using Chestbands. , 2015, , .		0
114	Age-Infusion Approach to Derive Injury Risk Curves for Dummies from Human Cadaver Tests. Frontiers in Bioengineering and Biotechnology, 2015, 3, 196.	4.1	0
115	The Influence of Enhanced Side Impact Protection on Kinematics and Injury Measures of Far- or Center-Seated Children in Forward-Facing Child Restraints. Traffic Injury Prevention, 2015, 16, S9-S15.	1.4	6
116	Injuries in Full-Scale Vehicle Side Impact Moving Deformable Barrier and Pole Tests Using Postmortem Human Subjects. Traffic Injury Prevention, 2015, 16, S224-S230.	1.4	11
117	Vertical accelerator device to apply loads simulating blast environments in the military to human surrogates. Journal of Biomechanics, 2015, 48, 3534-3538.	2.1	30
118	Influence of stiffness and shape of contact surface on skull fractures and biomechanical metrics of the human head of different population under lateral impacts. Accident Analysis and Prevention, 2015, 80, 97-105.	5.7	15
119	Influence of head mass on temporo-parietal skull impact using finite element modeling. Medical and Biological Engineering and Computing, 2015, 53, 869-878.	2.8	17
120	Neck Injury Biomechanics. , 2015, , 259-308.		9
121	Lower Leg Injury Reference Values and Risk Curves from Survival Analysis for Male and Female Dummies: Meta-analysis of Postmortem Human Subject Tests. Traffic Injury Prevention, 2015, 16, S100-S107.	1.4	23
122	Effects of acceleration level on lumbar spine injuries in military populations. Spine Journal, 2015, 15, 1318-1324.	1.3	18
123	Rate-dependent fracture characteristics of lumbar vertebral bodies. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 271-279.	3.1	20
124	Normalization and Scaling for Human Response Corridors and Development of Injury Risk Curves. , 2015, , 769-792.		25
125	Skull and Facial Bone Injury Biomechanics. , 2015, , 203-220.		5
126	Lumbopelvic parameters and the extent of lumbar fusion. , 2015, 6, 164.		0

#	ARTICLE	IF	CITATIONS
127	Preliminary FAA-Hybrid III Spinal Injury Criteria for Oblique-Facing Aircraft Seats. , 2015, , .		2
128	Hybrid III Lower Leg Injury Assessment Reference Curves Under Axial Impacts Using Matched-Pair Tests. Biomedical Sciences Instrumentation, 2015, 51, 230-7.	0.2	6
129	Oblique Loading in Post Mortem Human Surrogates from Vehicle Lateral Impact Tests using Chestbands. Stapp Car Crash Journal, 2015, 59, 1-22.	1.1	8
130	Geometrical Properties of the Human Child Cervical Spine With a Focus on the C1 Vertebra. Traffic Injury Prevention, 2014, 15, 287-293.	1.4	3
131	Deflection Corridors of Abdomen and Thorax in Oblique Side Impacts Using Equal Stress Equal Velocity Approach: Comparison With Other Normalization Methods. Journal of Biomechanical Engineering, 2014, 136, 101012.	1.3	5
132	Unilateral atlanto-axial fractures in near side impact collisions: An under recognized entity in cervical trauma. Journal of Craniovertebral Junction and Spine, 2014, 5, 33.	0.8	0
133	Optimized Lower Leg Injury Probability Curves From Postmortem Human Subject Tests Under Axial Impacts. Traffic Injury Prevention, 2014, 15, S151-S156.	1.4	34
134	Crash Characteristics and Injury Patterns of Restrained Front Seat Occupants in Far-side Impacts. Traffic Injury Prevention, 2014, 15, S27-S34.	1.4	11
135	Occupant and crash characteristics in thoracic and lumbar spine injuries resulting from motor vehicle collisions. Spine Journal, 2014, 14, 2355-2365.	1.3	42
136	A methodology to condition distorted acoustic emission signals to identify fracture timing from human cadaver spine impact tests. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 40, 156-160.	3.1	13
137	Normalizing and scaling of data to derive human response corridors from impact tests. Journal of Biomechanics, 2014, 47, 1749-1756.	2.1	29
138	Military boot attenuates axial loading to the lower leg. Biomedical Sciences Instrumentation, 2014, 50, 179-85.	0.2	1
139	Dynamic Responses of Intact Post Mortem Human Surrogates from Inferior-to-Superior Loading at the Pelvis. Stapp Car Crash Journal, 2014, 58, 123-43.	1.1	13
140	Cervical spine injury biomechanics: Applications for under body blast loadings in military environments. Clinical Biomechanics, 2013, 28, 602-609.	1.2	31
141	Anisotropic composite human skull model and skull fracture validation against temporo-parietal skull fracture. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 340-353.	3.1	38
142	Determination of peak deflections from human surrogates using chestbands in side impact tests. Medical Engineering and Physics, 2013, 35, 1181-1187.	1.7	6
143	Patient Mechanisms of Injury in Whiplash-Associated Disorders. Seminars in Spine Surgery, 2013, 25, 67-74.	0.2	6
144	Methodology to determine skull bone and brain responses from ballistic helmet-to-head contact loading using experiments and finite element analysis. Medical Engineering and Physics, 2013, 35, 1682-1687.	1.7	21

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145	Experimentally validated three-dimensional finite element model of the rat for mild traumatic brain injury. Medical and Biological Engineering and Computing, 2013, 51, 353-365.	2.8	29
146	Force Corridors of Post Mortem Human Surrogates in Oblique Side Impacts from Sled Tests. Annals of Biomedical Engineering, 2013, 41, 2391-2398.	2.5	7
147	Developmental Morphology and Ossification Patterns of the C1 Vertebra. Journal of Bone and Joint Surgery - Series A, 2013, 95, e124.	3.0	18
148	Biomechanics of foot/ankle trauma with variable energy impacts. Annals of Advances in Automotive Medicine, 2013, 57, 123-32.	0.6	7
149	Comparison of AIS 1990 update 98 versus AIS 2005 for describing PMHS injuries in lateral and oblique sled tests. Annals of Advances in Automotive Medicine, 2013, 57, 197-208.	0.6	3
150	Biomechanics of human thoracolumbar spinal column trauma from vertical impact loading. Annals of Advances in Automotive Medicine, 2013, 57, 155-66.	0.6	13
151	Injury potential at center rear seating positions in rear-facing child restraint systems in side impacts. Annals of Advances in Automotive Medicine, 2013, 57, 281-96.	0.6	3
152	Injury patterns to other body regions and load vectors in nearside impact occupants with and without shoulder injuries. Annals of Advances in Automotive Medicine, 2013, 57, 133-44.	0.6	1
153	Oblique lateral impact biofidelity deflection corridors from Post Mortem Human Surrogates. Stapp Car Crash Journal, 2013, 57, 427-40.	1.1	5
154	Prediction of visceral response to multi-directional loading as measured by the chestband. Medical Engineering and Physics, 2012, 34, 906-913.	1.7	1
155	Modular and scalable load-wall sled buck for pure-lateral and oblique side impact tests. Journal of Biomechanics, 2012, 45, 1546-1549.	2.1	11
156	Rate-Dependent Failure Characteristics of Thoraco-Lumbar Vertebrae: Application to the Military Environment. , 2012, , .		1
157	Spine Biomechanics. , 2012, , 179-202.		1
158	Upper and lower neck loads in belted human surrogates in frontal impacts. Annals of Advances in Automotive Medicine, 2012, 56, 125-36.	0.6	1
159	Thoracolumbar spine fractures in frontal impact crashes. Annals of Advances in Automotive Medicine, 2012, 56, 277-83.	0.6	29
160	Kinematic analysis of flailing injuries of lower extremities in side impacts. Biomedical Sciences Instrumentation, 2012, 48, 501-7.	0.2	2
161	Thoraco-abdominal deflection responses of post mortem human surrogates in side impacts. Stapp Car Crash Journal, 2012, 56, 49-64.	1.1	10
162	Technique for chestband contour shape-mapping in lateral impact. Journal of Biomechanics, 2011, 44, 2328-2332.	2.1	2

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163	An Operational Definition of Small Overlap Impact for Published NASS Data. , 2011, , .		5
164	Effects of Treatment for Cervical Disc Degenerative Disease in Military Populations. , 2011, , .		0
165	Methodology to Study Attenuation of a Blast Wave Through the Cranium. , 2011, , .		4
166	Use of postmortem human subjects to describe injury responses and tolerances. Clinical Anatomy, 2011, 24, 282-293.	2.7	17
167	The relationship between lower neck shear force and facet joint kinematics during automotive rear impacts. Clinical Anatomy, 2011, 24, 319-326.	2.7	8
168	Door velocity and occupant distance affect lateral thoracic injury mitigation with side airbag. Accident Analysis and Prevention, 2011, 43, 829-839.	5.7	9
169	Sensitivity of THOR and Hybrid III Dummy Lower Neck Loads to Belt Systems in Frontal Impact. Traffic Injury Prevention, 2011, 12, 88-95.	1.4	8
170	A New PMHS Model for Lumbar Spine Injuries During Vertical Acceleration. Journal of Biomechanical Engineering, 2011, 133, 081002.	1.3	32
171	A Thoraco-Abdominal Model for Visceral Response to Experimentally Measured Deformations. , 2011, , .		0
172	Level- and Region-Specific Properties of Young Human Lumbar Annulus. , 2011, , .		0
173	Study of mild traumatic brain injuries using experiments and finite element modeling. Annals of Advances in Automotive Medicine, 2011, 55, 125-35.	0.6	8
174	Lateral neck injury assessments in side impact using post mortem human subject tests. Annals of Advances in Automotive Medicine, 2011, 55, 169-79.	0.6	2
175	Comparison of head-neck responses in frontal impacts using restrained human surrogates. Annals of Advances in Automotive Medicine, 2011, 55, 181-91.	0.6	2
176	Demographics, Velocity Distributions, and Impact Type as Predictors of AIS 4+ Head Injuries in Motor Vehicle Crashes. Annals of Advances in Automotive Medicine, 2011, 55, 267-80.	0.6	7
177	Quantitative analyses of pediatric cervical spine ossification patterns using computed tomography. Annals of Advances in Automotive Medicine, 2011, 55, 159-68.	0.6	8
178	Region-specific deflection responses of WorldSID and ES2-re devices in pure lateral and oblique side impacts. Stapp Car Crash Journal, 2011, 55, 351-78.	1.1	15
179	Finite Element Study of Collapse of Pediatric Spine Due to Tuberculosis of Spine. , 2010, , .		1
180	Severe-to-fatal head injuries in motor vehicle impacts. Accident Analysis and Prevention, 2010, 42, 1370-1378.	5.7	35

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