

# Lynne Bilston

## List of Publications by Year in descending order

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204  
papers

6,675  
citations

57631

44  
h-index

85405

71  
g-index

208  
all docs

208  
docs citations

208  
times ranked

5553  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In vivo</i> brain viscoelastic properties measured by magnetic resonance elastography. <i>NMR in Biomedicine</i> , 2008, 21, 755-764.	1.6	364
2	Unconfined compression of white matter. <i>Journal of Biomechanics</i> , 2007, 40, 117-124.	0.9	190
3	The mechanical properties of the human cervical spinal cord <i>In Vitro</i> . <i>Annals of Biomedical Engineering</i> , 1995, 24, 67-74.	1.3	188
4	Effects of Proteins, Blood Cells and Glucose on the Viscosity of Cerebrospinal Fluid. <i>Pediatric Neurosurgery</i> , 1998, 28, 246-251.	0.4	183
5	Rheological properties of the tissues of the central nervous system: A review. <i>Medical Engineering and Physics</i> , 2008, 30, 1318-1337.	0.8	179
6	Optimal Timing of a Single Dose of Zoledronic Acid to Increase Strength in Rat Fracture Repair. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 867-876.	3.1	171
7	Understanding on-road practices of electric bike riders: An observational study in a developed city of China. <i>Accident Analysis and Prevention</i> , 2013, 59, 319-326.	3.0	125
8	Arterial Pulsation-driven Cerebrospinal Fluid Flow in the Perivascular Space: A Computational Model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2003, 6, 235-241.	0.9	117
9	Linear Viscoelastic Properties of Bovine Brain Tissue in Shear. <i>Biorheology</i> , 1997, 34, 377-385.	1.2	114
10	A single systemic dose of pamidronate improves bone mineral content and accelerates restoration of strength in a rat model of fracture repair. <i>Journal of Orthopaedic Research</i> , 2005, 23, 1029-1034.	1.2	114
11	Viscoelastic properties of pig kidney in shear, experimental results and modelling. <i>Rheologica Acta</i> , 2002, 41, 180-192.	1.1	109
12	Viscoelastic properties of the tongue and soft palate using MR elastography. <i>Journal of Biomechanics</i> , 2011, 44, 450-454.	0.9	104
13	The influence of the relative timing of arterial and subarachnoid space pulse waves on spinal perivascular cerebrospinal fluid flow as a possible factor in syrinx development. <i>Journal of Neurosurgery</i> , 2010, 112, 808-813.	0.9	102
14	Linear viscoelastic properties of bovine brain tissue in shear. <i>Biorheology</i> , 1997, 34, 377-385.	1.2	98
15	Viscoelastic properties of human cerebellum using magnetic resonance elastography. <i>Journal of Biomechanics</i> , 2011, 44, 1909-1913.	0.9	98
16	Zoledronic Acid Prevents Osteopenia and Increases Bone Strength in a Rabbit Model of Distraction Osteogenesis. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1300-1307.	3.1	96
17	Tongue and Lateral Upper Airway Movement with Mandibular Advancement. <i>Sleep</i> , 2013, 36, 397-404.	0.6	94
18	The effects of preconditioning strain on measured tissue properties. <i>Journal of Biomechanics</i> , 2009, 42, 1360-1362.	0.9	92

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19	The mechanical properties of rat spinal cord in vitro. <i>Journal of Biomechanics</i> , 2005, 38, 1509-1515.	0.9	89
20	<i>In vivo</i> passive mechanical behaviour of muscle fascicles and tendons in human gastrocnemius muscle-tendon units. <i>Journal of Physiology</i> , 2011, 589, 5257-5267.	1.3	89
21	Biomechanical properties of the human upper airway and their effect on its behavior during breathing and in obstructive sleep apnea. <i>Journal of Applied Physiology</i> , 2014, 116, 314-324.	1.2	89
22	Movement of the tongue during normal breathing in awake healthy humans. <i>Journal of Physiology</i> , 2008, 586, 4283-4294.	1.3	87
23	Respiratory Movement of Upper Airway Tissue in Obstructive Sleep Apnea. <i>Sleep</i> , 2013, 36, 1069-1076.	0.6	87
24	Zopiclone Increases the Arousal Threshold without Impairing Genioglossus Activity in Obstructive Sleep Apnea. <i>Sleep</i> , 2016, 39, 757-766.	0.6	82
25	Combining MR elastography and diffusion tensor imaging for the assessment of anisotropic mechanical properties: A phantom study. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 217-226.	1.9	77
26	Pediatric Spinal Injury Type and Severity Are Age and Mechanism Dependent. <i>Spine</i> , 2007, 32, 2339-2347.	1.0	76
27	Serious injury is associated with suboptimal restraint use in child motor vehicle occupants. <i>Journal of Paediatrics and Child Health</i> , 2006, 42, 345-349.	0.4	70
28	Measuring anisotropic muscle stiffness properties using elastography. <i>NMR in Biomedicine</i> , 2013, 26, 1387-1394.	1.6	70
29	Measuring changes in muscle stiffness after eccentric exercise using elastography. <i>NMR in Biomedicine</i> , 2012, 25, 852-858.	1.6	68
30	Myofascial force transmission between the human soleus and gastrocnemius muscles during passive knee motion. <i>Journal of Applied Physiology</i> , 2012, 113, 517-523.	1.2	61
31	Passive Mechanical Properties of Gastrocnemius Muscles of People With Ankle Contracture After Stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2012, 93, 1185-1190.	0.5	61
32	Measurement of Passive Skeletal Muscle Mechanical Properties In Vivo: Recent Progress, Clinical Applications, and Remaining Challenges. <i>Annals of Biomedical Engineering</i> , 2015, 43, 261-273.	1.3	59
33	Epidemiological profile of hospitalised injuries among electric bicycle riders admitted to a rural hospital in Suzhou: a cross-sectional study. <i>Injury Prevention</i> , 2014, 20, 128-133.	1.2	56
34	Changes in temporal flow characteristics of CSF in Chiari malformation Type I with and without syringomyelia: implications for theory of syrinx development. <i>Journal of Neurosurgery</i> , 2013, 118, 1135-1140.	0.9	53
35	Characterising soft tissues under large amplitude oscillatory shear and combined loading. <i>Journal of Biomechanics</i> , 2013, 46, 1060-1066.	0.9	53
36	The ultrastructure of spinal cord perivascular spaces: Implications for the circulation of cerebrospinal fluid. <i>Scientific Reports</i> , 2017, 7, 12924.	1.6	53

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37	Tongue Stiffness is Lower in Patients with Obstructive Sleep Apnea during Wakefulness Compared with Matched Control Subjects. <i>Sleep</i> , 2015, 38, 537-544.	0.6	51
38	MR Elastography Can Be Used to Measure Brain Stiffness Changes as a Result of Altered Cranial Venous Drainage During Jugular Compression. <i>American Journal of Neuroradiology</i> , 2015, 36, 1971-1977.	1.2	51
39	Changes in the length and three-dimensional orientation of muscle fascicles and aponeuroses with passive length changes in human gastrocnemius muscles. <i>Journal of Physiology</i> , 2015, 593, 441-455.	1.3	50
40	A Vertebral Dislocation Model of Spinal Cord Injury in Rats. <i>Journal of Neurotrauma</i> , 2004, 21, 451-458.	1.7	49
41	Computational fluid dynamics modelling of cerebrospinal fluid pressure in Chiari malformation and syringomyelia. <i>Journal of Biomechanics</i> , 2013, 46, 1801-1809.	0.9	49
42	The presence of arachnoiditis affects the characteristics of CSF flow in the spinal subarachnoid space: A modelling study. <i>Journal of Biomechanics</i> , 2012, 45, 1186-1191.	0.9	47
43	Focal spinal arachnoiditis increases subarachnoid space pressure: A computational study. <i>Clinical Biomechanics</i> , 2006, 21, 579-584.	0.5	46
44	In Vivo Anisotropic Mechanical Properties of Dystrophic Skeletal Muscles Measured by Anisotropic MR Elastographic Imaging: The mdx Mouse Model of Muscular Dystrophy. <i>Radiology</i> , 2014, 273, 726-735.	3.6	46
45	Dose-dependent effects of mandibular advancement on upper airway collapsibility and muscle function in obstructive sleep apnea. <i>Sleep</i> , 2019, 42, .	0.6	46
46	Cerebellar and hindbrain motion in Chiari malformation with and without syringomyelia. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 546-555.	0.9	45
47	Healthy humans with a narrow upper airway maintain patency during quiet breathing by dilating the airway during inspiration. <i>Journal of Physiology</i> , 2014, 592, 4763-4774.	1.3	44
48	A matched-cohort analysis of belted front and rear seat occupants in newer and older model vehicles shows that gains in front occupant safety have outpaced gains for rear seat occupants. <i>Accident Analysis and Prevention</i> , 2010, 42, 1974-1977.	3.0	43
49	Movement of the human upper airway during inspiration with and without inspiratory resistive loading. <i>Journal of Applied Physiology</i> , 2011, 110, 69-75.	1.2	43
50	Population-level estimates of child restraint practices among children aged 0-12 years in NSW, Australia. <i>Accident Analysis and Prevention</i> , 2010, 42, 2144-2148.	3.0	42
51	The mechanical properties of neonatal rat spinal cord in vitro, and comparisons with adult. <i>Journal of Biomechanics</i> , 2009, 42, 1397-1402.	0.9	41
52	Tensile radial stress in the spinal cord related to arachnoiditis or tethering: a numerical model. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 701-707.	1.6	40
53	Mathematical model for the viscoelastic properties of dura mater. <i>Journal of Orthopaedic Science</i> , 2003, 8, 432-434.	0.5	39
54	Association Between Different Restraint Use and Rear-Seated Child Passenger Fatalities. <i>JAMA Pediatrics</i> , 2008, 162, 1085.	3.6	38

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55	Aquaporin-4 Expression in Post-Traumatic Syringomyelia. <i>Journal of Neurotrauma</i> , 2013, 30, 1457-1467.	1.7	37
56	Liver Stiffness Values Are Lower in Pediatric Subjects than in Adults and Increase with Age: A Multifrequency MR Elastography Study. <i>Radiology</i> , 2017, 283, 222-230.	3.6	36
57	The Characteristics of Incorrect Restraint Use Among Children Traveling in Cars in New South Wales, Australia. <i>Traffic Injury Prevention</i> , 2010, 11, 391-398.	0.6	35
58	Using static preload with magnetic resonance elastography to estimate large strain viscoelastic properties of bovine liver. <i>Journal of Biomechanics</i> , 2011, 44, 2461-2465.	0.9	35
59	Effect of pamidronate on distraction osteogenesis and fixator-related osteoporosis. <i>Injury</i> , 2001, 32, 14-20.	0.7	34
60	Age-specific parental knowledge of restraint transitions influences appropriateness of child occupant restraint use. <i>Injury Prevention</i> , 2008, 14, 159-163.	1.2	34
61	Zoledronic acid improves the mechanical properties of normal and healing bone. <i>Clinical Biomechanics</i> , 2002, 17, 716-718.	0.5	33
62	Large deformation shear properties of liver tissue. <i>Biorheology</i> , 2002, 39, 735-42.	1.2	33
63	The Effect of Perfusion on Soft Tissue Mechanical Properties: A Computational Model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2002, 5, 283-290.	0.9	32
64	Bridging Three Orders of Magnitude: Multiple Scattered Waves Sense Fractal Microscopic Structures via Dispersion. <i>Physical Review Letters</i> , 2015, 115, 094301.	2.9	32
65	Soft tissue rheology and its implications for elastography: Challenges and opportunities. <i>NMR in Biomedicine</i> , 2018, 31, e3832.	1.6	32
66	Fluid outflow in the rat spinal cord: the role of perivascular and paravascular pathways. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 13.	2.4	32
67	Computational modelling of fluid and solute transport in the brain. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 781-800.	1.4	31
68	Molecular simulations of the large conductance mechanosensitive (MscL) channel under mechanical loading. <i>FEBS Letters</i> , 2002, 512, 185-190.	1.3	30
69	Reconstruction of Crashes Involving Injured Child Occupants: The Risk of Serious Injuries Associated with Sub-Optimal Restraint Use May Be Reduced by Better Controlling Occupant Kinematics. <i>Traffic Injury Prevention</i> , 2007, 8, 47-61.	0.6	30
70	Onset of airflow limitation in a collapsible tube model: impact of surrounding pressure, longitudinal strain, and wall folding geometry. <i>Journal of Applied Physiology</i> , 2010, 109, 1467-1475.	1.2	30
71	The effects of the interthalamic adhesion position on cerebrospinal fluid dynamics in the cerebral ventricles. <i>Journal of Biomechanics</i> , 2010, 43, 579-582.	0.9	30
72	Passive mechanical properties of the gastrocnemius after spinal cord injury. <i>Muscle and Nerve</i> , 2012, 46, 237-245.	1.0	30

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73	Respiratory cerebrospinal fluid flow is driven by the thoracic and lumbar spinal pressures. <i>Journal of Physiology</i> , 2020, 598, 5789-5805.	1.3	30
74	Immature Sheep Spines Are More Flexible Than Mature Spines. <i>Spine</i> , 2007, 32, 2970-2979.	1.0	29
75	Tailoring Stimuli Responsiveness using Dynamic Covalent Cross-Linking of Poly(vinyl alcohol)-Heparin Hydrogels for Controlled Cell and Growth Factor Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1267-1277.	2.6	29
76	Oscillatory squeezing flow of a biological material. <i>Rheologica Acta</i> , 2000, 39, 409-417.	1.1	28
77	Computational Model of the Cerebral Ventricles in Hydrocephalus. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 054501.	0.6	28
78	Low-Intensity Ultrasound Stimulation in Distraction Osteogenesis in Rabbits. <i>Clinical Orthopaedics and Related Research</i> , 2003, 417, 303-312.	0.7	28
79	Changes in Rat Brain Tissue Microstructure and Stiffness during the Development of Experimental Obstructive Hydrocephalus. <i>PLoS ONE</i> , 2016, 11, e0148652.	1.1	27
80	Child Restraint Fitting Stations reduce incorrect restraint use among child occupants. <i>Accident Analysis and Prevention</i> , 2011, 43, 1128-1133.	3.0	26
81	Factors predicting incorrect use of restraints by children travelling in cars: a cluster randomised observational study. <i>Injury Prevention</i> , 2011, 17, 91-96.	1.2	25
82	Effects of fluid structure interaction in a three dimensional model of the spinal subarachnoid space. <i>Journal of Biomechanics</i> , 2014, 47, 2826-2830.	0.9	25
83	Relative Benefits of Population-Level Interventions Targeting Restraint-Use in Child Car Passengers. <i>Pediatrics</i> , 2010, 125, 304-312.	1.0	24
84	Evaluation of an Education, Restraint Distribution, and Fitting Program to Promote Correct Use of Age-Appropriate Child Restraints for Children Aged 3 to 5 Years: A Cluster Randomized Trial. <i>American Journal of Public Health</i> , 2012, 102, e96-e102.	1.5	24
85	Changes in human sensory axonal excitability induced by focal nerve compression. <i>Journal of Physiology</i> , 2010, 588, 1737-1745.	1.3	23
86	Motor unit territories in human genioglossus estimated with multichannel intramuscular electrodes. <i>Journal of Applied Physiology</i> , 2018, 124, 664-671.	1.2	23
87	Anterior Fracture-Dislocation Is More Severe than Lateral: A Biomechanical and Neuropathological Comparison in Rat Thoracolumbar Spine. <i>Journal of Neurotrauma</i> , 2008, 25, 371-383.	1.7	22
88	The development of an improved physical surrogate model of the human spinal cord—Tension and transverse compression. <i>Journal of Biomechanics</i> , 2009, 42, 878-883.	0.9	22
89	Aquaporin-4 expression and blood—spinal cord barrier permeability in canalicular syringomyelia. <i>Journal of Neurosurgery: Spine</i> , 2012, 17, 602-612.	0.9	22
90	Paediatric brain tissue properties measured with magnetic resonance elastography. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1497-1505.	1.4	22

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91	Magnetic Resonance Elastography Reconstruction for Anisotropic Tissues. <i>Medical Image Analysis</i> , 2021, 74, 102212.	7.0	22
92	Models of the pulsatile hydrodynamics of cerebrospinal fluid flow in the normal and abnormal intracranial system. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007, 10, 151-157.	0.9	21
93	Spinal injury in car crashes: crash factors and the effects of occupant age. <i>Injury Prevention</i> , 2011, 17, 228-232.	1.2	21
94	Exploring child car passenger safety practices in China: experience from a parental survey in Shanghai. <i>Injury Prevention</i> , 2012, 18, 133-137.	1.2	21
95	Child restraint use in low socio-economic areas of urban Sydney during transition to new legislation. <i>Accident Analysis and Prevention</i> , 2013, 50, 984-991.	3.0	21
96	Nonlinear viscoelastic constitutive model for bovine liver tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1641-1662.	1.4	21
97	Geometry of rear seats and child restraints compared to child anthropometry. <i>Stapp Car Crash Journal</i> , 2007, 51, 275-98.	1.1	21
98	Microvasculature alters the dispersion properties of shear waves - a multi-frequency MR elastography study. <i>NMR in Biomedicine</i> , 2015, 28, 1763-1771.	1.6	20
99	Brain Tissue Mechanical Properties. <i>Biological and Medical Physics Series</i> , 2011, , 69-89.	0.3	20
100	Increase in best practice child car restraint use for children aged 2-5 years in low socioeconomic areas after introduction of mandatory child restraint laws. <i>Australian and New Zealand Journal of Public Health</i> , 2013, 37, 272-277.	0.8	19
101	Chiari malformation may increase perivascular cerebrospinal fluid flow into the spinal cord: A subject-specific computational modelling study. <i>Journal of Biomechanics</i> , 2017, 65, 185-193.	0.9	19
102	Modelling the biaxial elongational deformation of soft solids. <i>Rheologica Acta</i> , 2004, 43, 68-79.	1.1	18
103	Restraint use and seating position among child car passengers: An observational study in Shanghai. <i>Accident Analysis and Prevention</i> , 2011, 43, 2195-2199.	3.0	18
104	Improved Protection for Children in Forward-Facing Restraints During Side Impacts. <i>Traffic Injury Prevention</i> , 2005, 6, 135-146.	0.6	17
105	Peripharyngeal tissue deformation and stress distributions in response to caudal tracheal displacement: pivotal influence of the hyoid bone?. <i>Journal of Applied Physiology</i> , 2014, 116, 746-756.	1.2	17
106	Effect of head and jaw position on respiratory-related motion of the genioglossus. <i>Journal of Applied Physiology</i> , 2016, 120, 758-765.	1.2	17
107	Longitudinal measurements of syrinx size in a rat model of posttraumatic syringomyelia. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 941-948.	0.9	17
108	Barriers to correct child restraint use: A qualitative study of child restraint users and their needs. <i>Safety Science</i> , 2018, 109, 186-194.	2.6	17

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109	Magnetic resonance elastography in nonlinear viscoelastic materials under load. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 111-135.	1.4	17
110	Regional respiratory movement of the tongue is coordinated during wakefulness and is larger in severe obstructive sleep apnoea. <i>Journal of Physiology</i> , 2020, 598, 581-597.	1.3	17
111	Single motor unit recordings in human geniohyoid reveal minimal respiratory activity during quiet breathing. <i>Journal of Applied Physiology</i> , 2011, 110, 1054-1059.	1.2	16
112	Gastrocnemius Muscle Contracture After Spinal Cord Injury. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2013, 92, 565-574.	0.7	16
113	Contemporary image-based methods for measuring passive mechanical properties of skeletal muscles in vivo. <i>Journal of Applied Physiology</i> , 2019, 126, 1454-1464.	1.2	16
114	Abnormalities in spinal cord ultrastructure in a rat model of post-traumatic syringomyelia. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 11.	2.4	16
115	Contrasting Biomechanics and Neuropathology of Spinal Cord Injury in Neonatal and Adult Rats following Vertebral Dislocation. <i>Journal of Neurotrauma</i> , 2008, 25, 817-832.	1.7	15
116	Variations in Rear Seat Cushion Properties and the Effects on Submarining. <i>Traffic Injury Prevention</i> , 2011, 12, 54-61.	0.6	15
117	A novel ultrasound technique to measure genioglossus movement in vivo. <i>Journal of Applied Physiology</i> , 2014, 117, 556-562.	1.2	15
118	Buckle Up Safely (Shoalhaven): A Process and Impact Evaluation of a Pragmatic, Multifaceted Preschool-Based Pilot Program to Increase Correct Use of Age-Appropriate Child Restraints. <i>Traffic Injury Prevention</i> , 2014, 15, 483-490.	0.6	15
119	Characteristics of CSF Velocity-Time Profile in Posttraumatic Syringomyelia. <i>American Journal of Neuroradiology</i> , 2017, 38, 1839-1844.	1.2	15
120	Longitudinal measurements of postnatal rat brain mechanical properties in-vivo. <i>Journal of Biomechanics</i> , 2016, 49, 1751-1756.	0.9	14
121	Direct-trauma model of posttraumatic syringomyelia with a computer-controlled motorized spinal cord impactor. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 797-805.	0.9	14
122	Respiratory-related displacement of the trachea in obstructive sleep apnea. <i>Journal of Applied Physiology</i> , 2019, 127, 1307-1316.	1.2	14
123	Cerebellar Tissue Strain in Chiari Malformation with Headache. <i>World Neurosurgery</i> , 2019, 130, e74-e81.	0.7	14
124	Sagittal Measurement of Tongue Movement During Respiration: Comparison Between Ultrasonography and Magnetic Resonance Imaging. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 921-934.	0.7	14
125	Severity of Spinal Cord Injury in Adult and Infant Rats after Vertebral Dislocation Depends upon Displacement but not Speed. <i>Journal of Neurotrauma</i> , 2013, 30, 1361-1373.	1.7	13
126	Effect of extradural constriction on CSF flow in rat spinal cord. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 7.	2.4	13

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127	Lubricated squeezing flow: a useful method for measuring the viscoelastic properties of soft tissues. <i>Biorheology</i> , 2003, 40, 545-51.	1.2	13
128	Buckle up safely: a cluster randomised trial to evaluate the effectiveness of a pre-school based program to increase appropriate use of child restraints. <i>BMC Public Health</i> , 2011, 11, 16.	1.2	12
129	Fluid Outflow in a Large-Animal Model of Posttraumatic Syringomyelia. <i>Neurosurgery</i> , 2012, 71, 474-480.	0.6	12
130	Development and validation of a computational finite element model of the rabbit upper airway: simulations of mandibular advancement and tracheal displacement. <i>Journal of Applied Physiology</i> , 2016, 120, 743-757.	1.2	12
131	Seatbelts and the law: how well do we protect Australian children?. <i>Medical Journal of Australia</i> , 2007, 186, 635-638.	0.8	11
132	Assessment of Vehicle and Restraint Design Changes for Mitigating Rear Seat Occupant Injuries. <i>Traffic Injury Prevention</i> , 2014, 15, 711-719.	0.6	11
133	Inwardly rectifying potassium channel 4.1 expression in post-traumatic syringomyelia. <i>Neuroscience</i> , 2016, 317, 23-35.	1.1	11
134	Development of acute hydrocephalus does not change brain tissue mechanical properties in adult rats, but in juvenile rats. <i>PLoS ONE</i> , 2017, 12, e0182808.	1.1	11
135	Viscous elements have little impact on measured passive length-tension properties of human gastrocnemius muscle-tendon units in vivo. <i>Journal of Biomechanics</i> , 2011, 44, 1334-1339.	0.9	10
136	The Scope and Nature of Injuries to Rear Seat Passengers in NSW Using Linked Hospital Admission and Police Data. <i>Traffic Injury Prevention</i> , 2014, 15, 462-469.	0.6	10
137	Characterising skeletal muscle under large strain using eccentric and Fourier Transform-rheology. <i>Journal of Biomechanics</i> , 2015, 48, 3788-3795.	0.9	10
138	Measurement of large strain properties in calf muscles in vivo using magnetic resonance elastography and spatial modulation of magnetization. <i>NMR in Biomedicine</i> , 2018, 31, e3925.	1.6	10
139	Effect of upper airway fat on tongue dilation during inspiration in awake people with obstructive sleep apnea. <i>Sleep</i> , 2021, 44, .	0.6	10
140	Treatment usage patterns of oral appliances for obstructive sleep apnea over the first 60 days: a cluster analysis. <i>Journal of Clinical Sleep Medicine</i> , 2021, 17, 1785-1792.	1.4	10
141	Geometry of Rear Seats and Child Restraints Compared to Child Anthropometry. , 0, , .		10
142	Mechanically evoked sensory and motor responses to dynamic compression of the ulnar nerve. <i>Muscle and Nerve</i> , 2007, 35, 303-311.	1.0	9
143	Stress relaxation of human ankles is only minimally affected by knee and ankle angle. <i>Journal of Biomechanics</i> , 2010, 43, 990-993.	0.9	9
144	A qualitative approach using the integrative model of behaviour change to identify intervention strategies to increase optimal child restraint practices among culturally and linguistically diverse families in New South Wales. <i>Injury Prevention</i> , 2013, 19, 6-12.	1.2	9

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145	Peripharyngeal tissue deformation, stress distributions, and hyoid bone movement in response to mandibular advancement. <i>Journal of Applied Physiology</i> , 2015, 118, 282-291.	1.2	9
146	Injury patterns of rear seat occupants in frontal impact: an in-depth crash investigation study. <i>Injury Prevention</i> , 2016, 22, 165-170.	1.2	9
147	Effect of endoscopic third ventriculostomy on cerebrospinal fluid pressure in the cerebral ventricles. <i>Journal of Clinical Neuroscience</i> , 2016, 23, 63-67.	0.8	9
148	Restraint Factors and Child Passenger Deaths in New South Wales, Australia. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1147.	1.2	9
149	Changes in intrathoracic pressure, not arterial pulsations, exert the greatest effect on tracer influx in the spinal cord. <i>Fluids and Barriers of the CNS</i> , 2022, 19, 14.	2.4	9
150	Program Fidelity Measures Associated With an Effective Child Restraint Program: Buckle-Up Safely. <i>American Journal of Public Health</i> , 2015, 105, 584-590.	1.5	8
151	Magnetic resonance imaging of the upper airway in patients with quadriplegia and obstructive sleep apnea. <i>Journal of Sleep Research</i> , 2018, 27, e12616.	1.7	8
152	Influence of respiratory mechanics and drive on genioglossus movement under ultrasound imaging. <i>PLoS ONE</i> , 2018, 13, e0195884.	1.1	8
153	Influence of mandibular advancement on tongue dilatory movement during wakefulness and how this is related to oral appliance therapy outcome for obstructive sleep apnea. <i>Sleep</i> , 2021, 44, .	0.6	7
154	“œHeâ€™s the Number One Thing in My Worldâ€” Application of the PRECEDE-PROCEED Model to Explore Child Car Seat Use in a Regional Community in New South Wales. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1206.	1.2	6
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156	Influence of child restraint system design features on comfort, belt fit and posture. <i>Safety Science</i> , 2020, 128, 104707.	2.6	6
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