Roger W Nightingale

List of Publications by Year
in descending order

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48 papers	2,873 citations	257101 24 h-index	329751 37 g-index
48 all docs	48 docs citations	48 times ranked	1601 citing authors

#	Article	IF	Citations
1	Time and temperature sensitivity of the hybrid III lumbar spine. Traffic Injury Prevention, 2021, 22, 483-488.	0.6	1
2	The response of the pediatric head to impacts onto a rigid surface. Journal of Biomechanics, 2019, 93, 167-176.	0.9	3
3	The role of cervical muscles in mitigating concussion. Journal of Science and Medicine in Sport, 2019, 22, 667-671.	0.6	7
4	On the relative importance of bending and compression in cervical spine bilateral facet dislocation. Clinical Biomechanics, 2019, 64, 90-97.	0.5	10
5	Time and temperature sensitivity of the Hybrid III neck. Traffic Injury Prevention, 2018, 19, 657-663.	0.6	4
6	Lower Cervical Spine Motion Segment Computational Model Validation: Kinematic and Kinetic Response for Quasi-Static and Dynamic Loading. Journal of Biomechanical Engineering, 2017, 139, .	0.6	27
7	Impact responses of the cervical spine: A computational study of the effects of muscle activity, torso constraint, and pre-flexion. Journal of Biomechanics, 2016, 49, 558-564.	0.9	27
8	The compressive stiffness of human pediatric heads. Journal of Biomechanics, 2015, 48, 3766-3775.	0.9	8
9	Neck Injury Biomechanics. , 2015, , 259-308.		9
10	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.	0.6	11
11	The response of the adult and ATD heads to impacts onto a rigid surface. Accident Analysis and Prevention, 2014, 72, 219-229.	3.0	11
12	Experimental Injury Biomechanics of the Pediatric Neck. , 2013, , 191-220.		0
13	Importance of Muscle Activations for Biofidelic Pediatric Neck Response in Computational Models. Traffic Injury Prevention, 2013, 14, S116-S127.	0.6	26
14	Tensile Failure Properties of the Perinatal, Neonatal, and Pediatric Cadaveric Cervical Spine. Spine, 2013, 38, E1-E12.	1.0	31
15	An apparatus for tensile and bending tests of perinatal, neonatal, pediatric and adult cadaver osteoligamentous cervical spines. Journal of Biomechanics, 2012, 45, 386-389.	0.9	3
16	The mechanical and morphological properties of 6 year-old cranial bone. Journal of Biomechanics, 2012, 45, 2493-2498.	0.9	47
17	Tension and Combined Tension-Extension Structural Response and Tolerance Properties of the Human Male Ligamentous Cervical Spine. Journal of Biomechanical Engineering, 2009, 131, 081008.	0.6	28
18	The Influence of Reduced Friction on Head Injury Metrics in Helmeted Head Impacts. Traffic Injury Prevention, 2008, 9, 483-488.	0.6	34

#	Article	IF	Citations
19	An Integrated Indenter-ARFI Imaging System for Tissue Stiffness Quantification. Ultrasonic Imaging, 2008, 30, 95-111.	1.4	101
20	Tensile mechanical properties of the perinatal and pediatric PMHS osteoligamentous cervical spine. Stapp Car Crash Journal, 2008, 52, 107-34.	1.1	35
21	Flexion and extension structural properties and strengths for male cervical spine segments. Journal of Biomechanics, 2007, 40, 535-542.	0.9	116
22	A kinematic and anthropometric study of the upper cervical spine and the occipital condyles. Journal of Biomechanics, 2007, 40, 1953-1959.	0.9	30
23	Comparative structural neck responses of the THOR-NT, Hybrid III, and human in combined tension-bending and pure bending. Stapp Car Crash Journal, 2006, 50, 567-81.	1.1	8
24	A finite-element method model of soft tissue response to impulsive acoustic radiation force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1699-1712.	1.7	291
25	Mechanical Properties and Anthropometry of the Human Infant Head. , 2004, , .		26
26	The Human Cervical Spine in Tension: Effects of Frame and Fixation Compliance on Structural Responses. Traffic Injury Prevention, 2004, 5, 151-155.	0.6	9
27	Mechanical properties and anthropometry of the human infant head. Stapp Car Crash Journal, 2004, 48, 279-99.	1.1	62
28	Improved estimation of human neck tensile tolerance: reducing the range of reported tolerance using anthropometrically correct muscles and optimized physiologic initial conditions. Stapp Car Crash Journal, 2003, 47, 135-53.	1.1	54
29	Biomechanical Aspects of Cervical Trauma. , 2002, , 324-373.		27
30	Comparative strengths and structural properties of the upper and lower cervical spine in flexion and extension. Journal of Biomechanics, 2002, 35, 725-732.	0.9	134
31	The Influence of Surface Padding Properties on Head and Neck Injury Risk. Journal of Biomechanical Engineering, 2001, 123, 432-439.	0.6	26
32	<title>Investigation of real-time remote palpation imaging</title>. , 2001, 4325, 113.		6
33	On the feasibility of remote palpation using acoustic radiation force. Journal of the Acoustical Society of America, 2001, 110, 625-634.	0.5	726
34	Comparison of Soccer Shin Guards in Preventing Tibia Fracture. American Journal of Sports Medicine, 2000, 28, 227-233.	1.9	47
35	The Cervical Facet Capsule and Its Role in Whiplash Injury. Spine, 2000, 25, 1238-1246.	1.0	181
36	Inertial properties and loading rates affect buckling modes and injury mechanisms in the cervical spine. Journal of Biomechanics, 2000, 33, 191-197.	0.9	40

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37	A Finite Element Model of Remote Palpation of Breast Lesions Using Radiation Force: Factors Affecting Tissue Displacement. Ultrasonic Imaging, 2000, 22, 35-54.	1.4	89
38	Surface friction in near-vertex head and neck impact increases risk of injury. Journal of Biomechanics, 1999, 32, 293-301.	0.9	38
39	Review: The Dynamics of Near Vertex Head Impact and its Role in Injury Prevention and the Complex Clinical Presentation of Basicranial and Cervical Spine Injury. Traffic Injury Prevention, 1999, 1, 67-82.	0.5	11
40	The Effects of Padded Surfaces on the Risk for Cervical Spine Injury. Spine, 1997, 22, 2380-2387.	1.0	49
41	Dynamic responses of the head and cervical spine to axial impact loading. Journal of Biomechanics, 1996, 29, 307-318.	0.9	160
42	Experimental Impact Injury to the Cervical Spine. Journal of Bone and Joint Surgery - Series A, 1996, 78, 412-21.	1.4	106
43	Mechanisms of Basilar Skull Fracture. Journal of Neurotrauma, 1995, 12, 669-678.	1.7	37
44	Experimental Flexibility Measurements for the Development of a Computational Head-Neck Model Validated for Near-Vertex Head Impact. , 0, , .		59
45	The Dynamic Responses of the Cervical Spine: Buckling, End Conditions, and Tolerance in Compressive Impacts. , 0, , .		65
46	Tensile Properties of the Human Muscular and Ligamentous Cervical Spine. , 0, , .		26
47	Improved Estimation of Human Neck Tensile Tolerance: Reducing the Range of Reported Tolerance Using Anthropometrically Correct Muscles and Optimized Physiologic Initial Conditions. , 0, , .		21
48	Variation of Neck Muscle Strength Along the Human Cervical Spine. , 0, , .		6