

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	On the feasibility of remote palpation using acoustic radiation force. Journal of the Acoustical Society of America, 2001, 110, 625-634.	0.5	726
2	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
3	The Cervical Facet Capsule and Its Role in Whiplash Injury. Spine, 2000, 25, 1238-1246.	1.0	181
4	Dynamic responses of the head and cervical spine to axial impact loading. Journal of Biomechanics, 1996, 29, 307-318.	0.9	160
5	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
6	Flexion and extension structural properties and strengths for male cervical spine segments. Journal of Biomechanics, 2007, 40, 535-542.	0.9	116
7	Experimental Impact Injury to the Cervical Spine. Journal of Bone and Joint Surgery - Series A, 1996, 78, 412-21.	1.4	106
8	An Integrated Indenter-ARFI Imaging System for Tissue Stiffness Quantification. Ultrasonic Imaging, 2008, 30, 95-111.	1.4	101
9	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
10	The Dynamic Responses of the Cervical Spine: Buckling, End Conditions, and Tolerance in Compressive Impacts. , 0, , .		65
11	Mechanical properties and anthropometry of the human infant head. Stapp Car Crash Journal, 2004, 48, 279-99.	1.1	62
12	Experimental Flexibility Measurements for the Development of a Computational Head-Neck Model Validated for Near-Vertex Head Impact. , 0, , .		59
13	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
14	The Effects of Padded Surfaces on the Risk for Cervical Spine Injury. Spine, 1997, 22, 2380-2387.	1.0	49
15	Comparison of Soccer Shin Guards in Preventing Tibia Fracture. American Journal of Sports Medicine, 2000, 28, 227-233.	1.9	47
16	The mechanical and morphological properties of 6 year-old cranial bone. Journal of Biomechanics, 2012, 45, 2493-2498.	0.9	47
17	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
18	Surface friction in near-vertex head and neck impact increases risk of injury. Journal of Biomechanics, 1999, 32, 293-301.	0.9	38

#	ARTICLE	IF	CITATIONS
19	Mechanisms of Basilar Skull Fracture. <i>Journal of Neurotrauma</i> , 1995, 12, 669-678.	1.7	37
20	Tensile mechanical properties of the perinatal and pediatric PMHS osteoligamentous cervical spine. <i>Stapp Car Crash Journal</i> , 2008, 52, 107-34.	1.1	35
21	The Influence of Reduced Friction on Head Injury Metrics in Helmeted Head Impacts. <i>Traffic Injury Prevention</i> , 2008, 9, 483-488.	0.6	34
22	Tensile Failure Properties of the Perinatal, Neonatal, and Pediatric Cadaveric Cervical Spine. <i>Spine</i> , 2013, 38, E1-E12.	1.0	31
23	A kinematic and anthropometric study of the upper cervical spine and the occipital condyles. <i>Journal of Biomechanics</i> , 2007, 40, 1953-1959.	0.9	30
24	Tension and Combined Tension-Extension Structural Response and Tolerance Properties of the Human Male Ligamentous Cervical Spine. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 081008.	0.6	28
25	Biomechanical Aspects of Cervical Trauma. , 2002, , 324-373.		27
26	Impact responses of the cervical spine: A computational study of the effects of muscle activity, torso constraint, and pre-flexion. <i>Journal of Biomechanics</i> , 2016, 49, 558-564.	0.9	27
27	Lower Cervical Spine Motion Segment Computational Model Validation: Kinematic and Kinetic Response for Quasi-Static and Dynamic Loading. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	27
28	The Influence of Surface Padding Properties on Head and Neck Injury Risk. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 432-439.	0.6	26
29	Mechanical Properties and Anthropometry of the Human Infant Head. , 2004, , .		26
30	Importance of Muscle Activations for Biofidelic Pediatric Neck Response in Computational Models. <i>Traffic Injury Prevention</i> , 2013, 14, S116-S127.	0.6	26
31	Tensile Properties of the Human Muscular and Ligamentous Cervical Spine. , 0, , .		26
32	Improved Estimation of Human Neck Tensile Tolerance: Reducing the Range of Reported Tolerance Using Anthropometrically Correct Muscles and Optimized Physiologic Initial Conditions. , 0, , .		21
33	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. <i>Traffic Injury Prevention</i> , 1999, 1, 67-82.	0.5	11
34	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.	0.6	11
35	The response of the adult and ATD heads to impacts onto a rigid surface. <i>Accident Analysis and Prevention</i> , 2014, 72, 219-229.	3.0	11
36	On the relative importance of bending and compression in cervical spine bilateral facet dislocation. <i>Clinical Biomechanics</i> , 2019, 64, 90-97.	0.5	10

#	ARTICLE	IF	CITATIONS
37	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
38	Neck Injury Biomechanics. , 2015, , 259-308.		9
39	The compressive stiffness of human pediatric heads. Journal of Biomechanics, 2015, 48, 3766-3775.	0.9	8
40	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
41	The role of cervical muscles in mitigating concussion. Journal of Science and Medicine in Sport, 2019, 22, 667-671.	0.6	7
42	<title>Investigation of real-time remote palpation imaging</title>. , 2001, 4325, 113.		6
43	Variation of Neck Muscle Strength Along the Human Cervical Spine. , 0, , .		6
44	Time and temperature sensitivity of the Hybrid III neck. Traffic Injury Prevention, 2018, 19, 657-663.	0.6	4
45	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
46	The response of the pediatric head to impacts onto a rigid surface. Journal of Biomechanics, 2019, 93, 167-176.	0.9	3
47	Time and temperature sensitivity of the hybrid III lumbar spine. Traffic Injury Prevention, 2021, 22, 483-488.	0.6	1
48	Experimental Injury Biomechanics of the Pediatric Neck. , 2013, , 191-220.		0