

Donal S McNally

List of Publications by Year in descending order

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64
papers

2,670
citations

279798

23
h-index

182427

51
g-index

64
all docs

64
docs citations

64
times ranked

1958
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of washing on the electrical performance of knitted textile strain sensors for quantifying joint motion. <i>Journal of Industrial Textiles</i> , 2022, 51, 8528S-8548S.	2.4	5
2	A systematic literature review and meta-analysis on digital health interventions for people living with dementia and Mild Cognitive Impairment. <i>International Journal of Geriatric Psychiatry</i> , 2022, 37, .	2.7	14
3	Smartphone monitoring of in-ambulance vibration and noise. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 428-436.	1.8	8
4	Comparison of standard automotive industry injury predictors and actual injury sustained during significant whiplash events. <i>European Spine Journal</i> , 2021, 30, 3043-3058.	2.2	2
5	Finding Comfortable Routes for Ambulance Transfers of Newborn Infants. , 2020, 2020, 5905-5908.		2
6	Study of Performance of Knitted Conductive Sleeves as Wearable Textile Strain Sensors for Joint Motion Tracking. , 2020, 2020, 4555-4558.		8
7	Canine collars: an investigation of collar type and the forces applied to a simulated neck model. <i>Veterinary Record</i> , 2020, 187, e52.	0.3	7
8	On the axial distribution of plaque stress: Influence of stenosis severity, lipid core stiffness, lipid core length and fibrous cap stiffness. <i>Medical Engineering and Physics</i> , 2019, 68, 76-84.	1.7	8
9	Computational mechanical characterization of geometrically transformed Schwarz P lattice tissue scaffolds fabricated via two photon polymerization (2PP). <i>Additive Manufacturing</i> , 2019, 25, 399-411.	3.0	8
10	Effect of mechanical preconditioning on the electrical properties of knitted conductive textiles during cyclic loading. <i>Textile Research Journal</i> , 2019, 89, 445-460.	2.2	17
11	Wear analysis of explanted conventional metal back polyethylene glenoid liners. <i>Medical Engineering and Physics</i> , 2018, 59, 1-7.	1.7	4
12	Neonatal head and torso vibration exposure during inter-hospital transfer. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 99-113.	1.8	29
13	X-ray computed tomography and additive manufacturing in medicine: a review. <i>International Journal of Metrology and Quality Engineering</i> , 2017, 8, 17.	1.0	30
14	Investigation of changes in the electrical properties of novel knitted conductive textiles during cyclic loading. , 2016, 2016, 6058-6061.		4
15	In vivo remodelling of an organic bone mineral spinal fusion. <i>Spine Journal</i> , 2016, 16, S77.	1.3	0
16	The Effect of Angulated Radius Fractures in Forearm Rotation: A Computer Based Model. <i>Journal of Biomedical Science and Engineering</i> , 2016, 09, 302-306.	0.4	0
17	The Evaluation of Digital Rectal Examination for Assessment of Anal Tone in Suspected Cauda Equina Syndrome. <i>Spine</i> , 2015, 40, 1213-1218.	2.0	21
18	Effects of Adding Resorbable Phosphate Glass Fibres and PLA to Calcium Phosphate Bone Cements. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2014, 12, 203-209.	1.6	9

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19	Combined hydrogels that switch human pluripotent stem cells from self-renewal to differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5580-5585.	7.1	67
20	Finite element investigation of the effect of a bifid arch on loading of the vertebral isthmus. Spine Journal, 2014, 14, 675-682.	1.3	9
21	MADYMO simulation of children in cycle accidents: A novel approach in risk assessment. Accident Analysis and Prevention, 2013, 59, 469-478.	5.7	16
22	A computational simulation study of the influence of helmet wearing on head injury risk in adult cyclists. Accident Analysis and Prevention, 2013, 60, 15-23.	5.7	39
23	The sensitivity of the calculation of \hat{I}^V to vehicle and impact parameters. Accident Analysis and Prevention, 2013, 55, 144-153.	5.7	10
24	Defining acute aortic syndrome after trauma. Journal of Trauma and Acute Care Surgery, 2012, 73, 977-982.	2.1	6
25	An in vitro biomechanical comparison of Cadisc [®] -L with natural lumbar discs in axial compression and sagittal flexion. European Spine Journal, 2012, 21, 612-617.	2.2	16
26	In vitro Biomechanical Comparison of the Native Intervertebral Disc and a Compliant Artificial Lumbar Disc Replacement (Cadisc-L). Spine Journal, 2011, 11, S153.	1.3	1
27	The implications of stress patterns in the vertebral body under axial support of an artificial implant. Medical Engineering and Physics, 2009, 31, 833-837.	1.7	12
28	The internal mechanical functioning of intervertebral discs and articular cartilage, and its relevance to matrix biology. Matrix Biology, 2009, 28, 384-389.	3.6	109
29	2009 ISSLS Prize Winner: What Influence Does Sustained Mechanical Load Have on Diffusion in the Human Intervertebral Disc?. Spine, 2009, 34, 2324-2337.	2.0	71
30	The internal pressure and stress environment of the scoliotic intervertebral disc – a review. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2008, 222, 209-219.	1.8	28
31	Regional wall mechanics and blunt traumatic aortic rupture at the isthmus. European Journal of Cardio-thoracic Surgery, 2008, 34, 616-622.	1.4	26
32	High pressures and asymmetrical stresses in the scoliotic disc in the absence of muscle loading. Scoliosis, 2007, 2, 4.	0.4	61
33	Intraoperative pulmonary embolism of Harrington rod during spinal surgery: the potential dangers of rod cutting. European Spine Journal, 2006, 15, 1853-1857.	2.2	1
34	The effect of leg fracture level and vehicle front-end geometry on pedestrian knee injury and response. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2006, 220, 857-869.	1.8	10
35	Demonstration of the appearance of the paraspinal musculoligamentous structures of the cervical spine using ultrasound. Clinical Anatomy, 2005, 18, 96-103.	2.7	6
36	A One-Dimensional Theoretical Prediction of the Effect of Reduced End-Plate Permeability on the Mechanics of the Intervertebral Disc. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2005, 219, 329-335.	1.8	13

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37	Computer vision elastography: speckle adaptive motion estimation for elastography using ultrasound sequences. IEEE Transactions on Medical Imaging, 2005, 24, 755-766.	8.9	40
38	Rigid-body modelling of shaken baby syndrome. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2005, 219, 63-70.	1.8	37
39	Musculoskeletal motion flow fields using hierarchical variable-sized block matching in ultrasonographic video sequences. Journal of Biomechanics, 2004, 37, 511-522.	2.1	11
40	The objectives for the mechanical evaluation of spinal instrumentation have changed. , 2004, , 123-129.		0
41	Ultrasound Imaging of the Intervertebral Disc. Spine, 2003, 28, 107-113.	2.0	22
42	The objectives for the mechanical evaluation of spinal instrumentation have changed. European Spine Journal, 2002, 11, S179-S185.	2.2	14
43	High-frequency ultrasound imaging of the intervertebral disc. Ultrasound in Medicine and Biology, 2002, 28, 939-947.	1.5	10
44	The internal mechanics of the intervertebral disc under cyclic loading. Journal of Biomechanics, 2002, 35, 1263-1271.	2.1	87
45	The angular distribution of vertebral trabeculae in modern humans, chimpanzees and the Kebara 2 Neanderthal. Journal of Human Evolution, 2002, 43, 189-205.	2.6	18
46	Pressure profilometry of the lumbosacral disk in dogs. American Journal of Veterinary Research, 2001, 62, 1734-1739.	0.6	5
47	Knoop microhardness anisotropy of the ovine radius. Journal of Biomechanics, 2000, 33, 1551-1557.	2.1	16
48	Intervertebral disc structure: observation by a novel use of ultrasound imaging. Ultrasound in Medicine and Biology, 2000, 26, 751-758.	1.5	19
49	Non-specific arm pain. Lancet, The, 1999, 354, 1558-1559.	13.7	0
50	Determination of a standard site for the measurement of bone mineral density of the human calcaneus. American Journal of Anatomy, 1998, 193, 449-456.	1.0	0
51	Microhardness anisotropy of lamellar bone. Journal of Biomechanics, 1997, 30, 1059-1061.	2.1	26
52	The Effects Of Posterior Fixation On Internal Intervertebral Disc Mechanics. Journal of Bone and Joint Surgery: British Volume, 1997, 79, 154-160.	3.4	12
53	Effects of hydrostatic pressure on matrix synthesis in different regions of the intervertebral disk. Journal of Applied Physiology, 1996, 80, 839-846.	2.5	228
54	In Vivo Stress Measurement Can Predict Pain on Discography. Spine, 1996, 21, 2580-2587.	2.0	154

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55	Stress Distributions inside Intervertebral Discs: The Validity of Experimental "Stress Profilometry"™. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 1996, 210, 81-87.	1.8	61
56	'Stress' distributions inside intervertebral discs. Journal of Bone and Joint Surgery: British Volume, 1996, 78, 965-972.	3.4	507
57	An analytical model of intervertebral disc mechanics. Journal of Biomechanics, 1995, 28, 53-68.	2.1	25
58	The clinical biomechanics award paper 1993 Posture and the compressive strength of the lumbar spine. Clinical Biomechanics, 1994, 9, 5-14.	1.2	165
59	Abnormal stress concentrations in lumbar intervertebral discs following damage to the vertebral bodies: a cause of disc failure?. European Spine Journal, 1993, 1, 214-221.	2.2	90
60	Six-element sensor for measuring vaginal pressure profiles. Medical and Biological Engineering and Computing, 1993, 31, 184-186.	2.8	4
61	Can Intervertebral Disc Prolapse Be Predicted By Disc Mechanics?. Spine, 1993, 18, 1525-1530.	2.0	83
62	Internal Intervertebral Disc Mechanics as Revealed by Stress Profilometry. Spine, 1992, 17, 66-73.	2.0	305
63	Development and validation of a new transducer for intradiscal pressure measurement. Journal of Biomedical Engineering, 1992, 14, 495-498.	0.7	50
64	Experimental determination of the frequency response characteristics of physiological pressure measurement systems. Medical and Biological Engineering and Computing, 1989, 27, 442-444.	2.8	4