

Mark S Thompson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1896399/publications.pdf>

Version: 2024-02-01

63
papers

2,153
citations

257450

24
h-index

233421

45
g-index

66
all docs

66
docs citations

66
times ranked

3211
citing authors

#	ARTICLE	IF	CITATIONS
1	The biology of platelet-rich plasma and its application in trauma and orthopaedic surgery. Journal of Bone and Joint Surgery: British Volume, 2009, 91-B, 987-996.	3.4	478
2	Mesenchymal Stem Cells Regulate Angiogenesis According to Their Mechanical Environment. Stem Cells, 2007, 25, 903-910.	3.2	194
3	Clinical efficacy and effectiveness of 3D printing: a systematic review. BMJ Open, 2017, 7, e016891.	1.9	149
4	Digital image correlation: A technique for determining local mechanical conditions within early bone callus. Medical Engineering and Physics, 2007, 29, 820-823.	1.7	68
5	Mechanobiology of bone healing and regeneration: <i>in vivo</i> models. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 1543-1553.	1.8	67
6	Rapid and efficient differentiation of functional motor neurons from human iPSC for neural injury modelling. Stem Cell Research, 2018, 32, 126-134.	0.7	65
7	Compressive and Shear Properties of Commercially Available Polyurethane Foams. Journal of Biomechanical Engineering, 2003, 125, 732-734.	1.3	61
8	Elastic fibres are broadly distributed in tendon and highly localized around tenocytes. Journal of Anatomy, 2013, 222, 573-579.	1.5	61
9	Mechanical induction of critically delayed bone healing in sheep: Radiological and biomechanical results. Journal of Biomechanics, 2008, 41, 3066-3072.	2.1	60
10	Tensile and shear mechanical properties of rotator cuff repair patches. Journal of Shoulder and Elbow Surgery, 2012, 21, 1168-1176.	2.6	60
11	Effect of platelet-rich plasma on healing tissues in acute ruptured Achilles tendon: a human immunohistochemistry study. Lancet, The, 2015, 385, S19.	13.7	59
12	Platelet-Rich Plasma Protects Tenocytes From Adverse Side Effects of Dexamethasone and Ciprofloxacin. American Journal of Sports Medicine, 2011, 39, 1929-1935.	4.2	47
13	Gait evaluation: A tool to monitor bone healing?. Clinical Biomechanics, 2005, 20, 883-891.	1.2	45
14	Mechanical Behavior of Articular Cartilage after Osteochondral Autograft Transfer in an Ovine Model. American Journal of Sports Medicine, 2007, 35, 555-563.	4.2	44
15	Simulation of Cell Differentiation in Fracture Healing: Mechanically Loaded Composite Scaffolds in a Novel Bioreactor System. Tissue Engineering, 2006, 12, 201-208.	4.6	41
16	Chondroclasts are mature osteoclasts which are capable of cartilage matrix resorption. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2012, 461, 205-210.	2.8	41
17	Layer-dependent role of collagen recruitment during loading of the rat bladder wall. Biomechanics and Modeling in Mechanobiology, 2018, 17, 403-417.	2.8	41
18	Biaxial cell stimulation: A mechanical validation. Journal of Biomechanics, 2009, 42, 1692-1696.	2.1	39

#	ARTICLE	IF	CITATIONS
19	The Mechanical, Structural, and Compositional Changes of Tendon Exposed to Elastase. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2477-2486.	2.5	38
20	Mechanical stimulation of the pro-angiogenic capacity of human fracture haematoma: Involvement of VEGF mechano-regulation. <i>Bone</i> , 2010, 47, 438-444.	2.9	35
21	A novel chemo-mechano-biological model of arterial tissue growth and remodelling. <i>Journal of Biomechanics</i> , 2016, 49, 2321-2330.	2.1	35
22	Three-dimensional printed upper-limb prostheses lack randomised controlled trials. <i>Prosthetics and Orthotics International</i> , 2018, 42, 7-13.	1.0	33
23	Regulation of Hypoxia-Induced Cell Death in Human Tenocytes. <i>Advances in Orthopedics</i> , 2012, 2012, 1-12.	1.0	26
24	Role of hyaluronic acid and phospholipid in the lubrication of a cobalt-chromium head for total hip arthroplasty. <i>Biointerphases</i> , 2014, 9, 031007.	1.6	26
25	Acetabular morphology and resurfacing design. <i>Journal of Biomechanics</i> , 2000, 33, 1645-1653.	2.1	24
26	3D finite element formulation for mechanical-electrophysiological coupling in axonopathy. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 1025-1050.	6.6	21
27	Probing multi-scale mechanical damage in connective tissues using X-ray diffraction. <i>Acta Biomaterialia</i> , 2016, 45, 321-327.	8.3	19
28	Tendon Mechanobiology: Experimental Models Require Mathematical Underpinning. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 1238-1254.	1.9	16
29	The AutoQual ultrasound elastography method for quantitative assessment of lateral strain in post-rupture Achilles tendons. <i>Journal of Biomechanics</i> , 2013, 46, 2695-2700.	2.1	16
30	A Novel Method for the Accurate Evaluation of Poisson's Ratio of Soft Polymer Materials. <i>Scientific World Journal</i> , The, 2013, 2013, 1-7.	2.1	16
31	A hyperelastic fibre-reinforced continuum model of healing tendons with distributed collagen fibre orientations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1457-1466.	2.8	16
32	Tensile mechanical properties of polyacetal after one and six months' immersion in Ringer's solution. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 883-887.	3.6	15
33	Effects of Hyaluronic Acid and γ -Globulin Concentrations on the Frictional Response of Human Osteoarthritic Articular Cartilage. <i>PLoS ONE</i> , 2014, 9, e112684.	2.5	15
34	Mechanobiological modelling of tendons: Review and future opportunities. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 369-377.	1.8	14
35	Endochondral ossification in vitro is influenced by mechanical bending. <i>Bone</i> , 2007, 40, 597-603.	2.9	13
36	<i>In vitro</i> models for bone mechanobiology: Applications in bone regeneration and tissue engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1533-1541.	1.8	13

#	ARTICLE	IF	CITATIONS
37	See-saw rocking: an <i>in vitro</i> model for mechanotransduction research. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140330.	3.4	12
38	Ion current and action potential alterations in peripheral neurons subject to uniaxial strain. <i>Journal of Neuroscience Research</i> , 2019, 97, 744-751.	2.9	12
39	Quantification and significance of fluid shear stress field in biaxial cell stretching device. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 559-564.	2.8	11
40	Examining the needs of affordable upper limb prosthetic users in India: A questionnaire-based survey. <i>Technology and Disability</i> , 2016, 28, 101-110.	0.6	11
41	Quantitative multiphoton microscopy of murine urinary bladder morphology during <i>in situ</i> uniaxial loading. <i>Acta Biomaterialia</i> , 2017, 64, 59-66.	8.3	11
42	Membrane Mechanical Properties Regulate the Effect of Strain on Spontaneous Electrophysiology in Human iPSC-Derived Neurons. <i>Neuroscience</i> , 2019, 404, 165-174.	2.3	11
43	A biomechanical model for fibril recruitment: Evaluation in tendons and arteries. <i>Journal of Biomechanics</i> , 2018, 74, 192-196.	2.1	8
44	Probing multi-scale mechanics of peripheral nerve collagen and myelin by X-ray diffraction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 87, 205-212.	3.1	8
45	Comparing thermal discomfort with skin temperature response of lower-limb prosthesis users during exercise. <i>Clinical Biomechanics</i> , 2019, 69, 148-155.	1.2	8
46	Engineering a uniaxial substrate-stretching device for simultaneous electrophysiological measurements and imaging of strained peripheral neurons. <i>Medical Engineering and Physics</i> , 2019, 67, 1-10.	1.7	8
47	Strain partitioning between nerves and axons: Estimating axonal strain using sodium channel staining in intact peripheral nerves. <i>Journal of Neuroscience Methods</i> , 2018, 309, 1-5.	2.5	7
48	A novel <i>in vitro</i> loading system for high frequency loading of cultured tendon fascicles. <i>Medical Engineering and Physics</i> , 2013, 35, 205-210.	1.7	6
49	<i>Mechanobiology of Bone</i> . , 2011, , 217-236.		5
50	Controlled motion strain measurement using lateral speckle tracking in Achilles tendons during healing. , 2012, , .		5
51	Why is Designing for Developing Countries More Challenging? Modelling the Product Design Domain for Medical Devices. <i>Procedia Manufacturing</i> , 2015, 3, 5693-5698.	1.9	5
52	Tribological changes in the articular cartilage of a human femoral head with avascular necrosis. <i>Biointerphases</i> , 2015, 10, 021004.	1.6	4
53	OxVent: Design and evaluation of a rapidly-manufactured Covid-19 ventilator. <i>EBioMedicine</i> , 2022, 76, 103868.	6.1	3
54	Quantitative biomechanical comparison of ankle fracture casting methods. <i>Biomedizinische Technik</i> , 2015, 60, 263-7.	0.8	2

#	ARTICLE	IF	CITATIONS
55	Experimental Analysis of a Novel, Magnetic-Driven Tactile Feedback Device. <i>Prosthesis</i> , 2020, 2, 25-38.	2.9	2
56	FLUID SHEAR STRESSES IN FLEXCELL™ DEVICE. <i>Journal of Biomechanics</i> , 2008, 41, S347.	2.1	1
57	ULTRASOUND STRAIN IMAGING MEASUREMENT IN ACHILLES TENDONS AS A MEASURE OF HEALING FROM RUPTURE WITH CONTROLLED ANKLE MOTION. <i>Journal of Biomechanics</i> , 2012, 45, S402.	2.1	1
58	Probabilistic sensor network design. , 2016, , .		1
59	BIAXIAL CELL STIMULATION: MECHANICAL VALIDATION AND BIOLOGICAL RESPONSE. <i>Journal of Biomechanics</i> , 2008, 41, S194.	2.1	0
60	Curvatures with uncertainties derived in conformal space to characterize tendon microstructure. , 2010, 2010, 5589-92.		0
61	LOW DOSES OF HIGH FREQUENCY LOW MAGNITUDE LOADING INCREASE MODULUS & MAINTAIN GAG IN CULTURED TENDONS. <i>Journal of Biomechanics</i> , 2012, 45, S406.	2.1	0
62	Platelet-rich plasma stimulates human tenocyte proliferation and potently up-regulates growth factor production by tenocytes. <i>Osteoarthritis and Cartilage</i> , 2012, 20, S249-S250.	1.3	0
63	11â€¦Prp Enhances The Maturity Of Healing Tendon Tissues In Acute Achilles Ruptures. <i>British Journal of Sports Medicine</i> , 2014, 48, A7-A7.	6.7	0