

Sam L Evans

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,464

citations

21

h-index

37

g-index

81

ext. papers

1,706

ext. citations

3.5

avg, IF

4.73

L-index

#	Paper	IF	Citations
62	Delta T source location for acoustic emission. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 1512-1530	5.80	123
61	An anisotropic, hyperelastic model for skin: experimental measurements, finite element modelling and identification of parameters for human and murine skin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 18, 167-80	4.1	120
60	Synthesis and characterisation of advanced ball-milled Al-Al ₂ O ₃ nanocomposites for selective laser melting. <i>Powder Technology</i> , 2016 , 297, 183-192	5.2	95
59	Laser powder bed fusion of Hastelloy X: Effects of hot isostatic pressing and the hot cracking mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 732, 228-239	5.3	94
58	Digital image correlation and finite element modelling as a method to determine mechanical properties of human soft tissue in vivo. <i>Journal of Biomechanics</i> , 2009 , 42, 1150-3	2.9	94
57	Selective laser melting of advanced Al-Al ₂ O ₃ nanocomposites: Simulation, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 162-173	5.3	71
56	Macro and nanoscale wear behaviour of Al-Al ₂ O ₃ nanocomposites fabricated by selective laser melting. <i>Composites Part B: Engineering</i> , 2017 , 127, 26-35	10	70
55	A new methodology for automating acoustic emission detection of metallic fatigue fractures in highly demanding aerospace environments: An overview. <i>Progress in Aerospace Sciences</i> , 2017 , 90, 1-11	8.8	57
54	Structural characterisation and transdermal delivery studies on sugar microneedles: experimental and finite element modelling analyses. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 89, 224-31	5.7	51
53	Chronic, intermittent convection-enhanced delivery devices. <i>Journal of Neuroscience Methods</i> , 2016 , 259, 47-56	3	47
52	A new method to investigate how mechanical loading of osteocytes controls osteoblasts. <i>Frontiers in Endocrinology</i> , 2014 , 5, 208	5.7	44
51	Poisson's ratio and strain rate dependency of the constitutive behavior of spinal dura mater. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 975-83	4.7	44
50	An innovative application of a small-scale motion analysis technique to quantify human skin deformation in vivo. <i>Journal of Biomechanics</i> , 2010 , 43, 1002-6	2.9	36
49	Accuracy and repeatability of an optical motion analysis system for measuring small deformations of biological tissues. <i>Journal of Biomechanics</i> , 2007 , 40, 210-4	2.9	34
48	Adhesive forces and surface properties of cold gas plasma treated UHMWPE. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 460, 83-89	5.1	31
47	Effect of ball-milling time on mechanical and magnetic properties of carbon nanotube reinforced FeCo alloy composites. <i>Materials and Design</i> , 2017 , 122, 296-306	8.1	30
46	Fabrication of carbon nanotube reinforced iron based magnetic alloy composites by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2014 , 601, 146-153	5.7	29

45	Additive manufacturing of high-strength crack-free Ni-based Hastelloy X superalloy. <i>Additive Manufacturing</i> , 2019 , 30, 100919	6.1	27
44	A Parametric Study and Simulations in Quantifying Human Skin Hyperelastic Parameters. <i>Procedia Engineering</i> , 2012 , 41, 1580-1586		27
43	Biomechanical study: determining the optimum insertion angle for screw-in suture anchors-is deadman angle correct?. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014 , 30, 1535-9	5.4	25
42	Characterisation and milling time optimisation of nanocrystalline aluminium powder for selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 1429-1438	3.2	23
41	Mechanical assessment of two different methods of tripling hamstring tendons when using suspensory fixation. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012 , 20, 262-7	5.5	21
40	Fibroblast growth factor 2 and transforming growth factor β induce precocious maturation of articular cartilage. <i>Arthritis and Rheumatism</i> , 2011 , 63, 3417-27		20
39	Full-surface deformation measurement of anisotropic tissues under indentation. <i>Medical Engineering and Physics</i> , 2015 , 37, 484-93	2.4	19
38	Use of Macro Fibre Composite Transducers as Acoustic Emission Sensors. <i>Remote Sensing</i> , 2009 , 1, 68-79	5	18
37	Comparison of transverse wires and half pins in Taylor Spatial Frame: a biomechanical study. <i>Journal of Orthopaedic Surgery and Research</i> , 2010 , 5, 23	2.8	17
36	Maximising coverage of brain structures using controlled reflux, convection-enhanced delivery and the recessed step catheter. <i>Journal of Neuroscience Methods</i> , 2018 , 308, 337-345	3	15
35	A transverse isotropic viscoelastic constitutive model for aortic valve tissue. <i>Royal Society Open Science</i> , 2017 , 4, 160585	3.3	14
34	Mechanical and magnetic characterisation of SiC whisker reinforced FeCo alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 592, 19-27	5.3	14
33	A comparative study of bone shortening and bone loss with use of saw blades versus burr in hallux valgus surgery. <i>Foot and Ankle Surgery</i> , 2012 , 18, 195-7	3.1	13
32	Spatial scanning for anomaly detection in acoustic emission testing of an aerospace structure. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 2462-2474	7.8	12
31	Synthesis and properties of graphene and graphene/carbon nanotube-reinforced soft magnetic FeCo alloy composites by spark plasma sintering. <i>Journal of Materials Science</i> , 2016 , 51, 7624-7635	4.3	11
30	Improvement of interfacial bonding in carbon nanotube reinforced Fe ₅₀ Co composites by NiB coating: Effect on magnetic and mechanical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 188, 94-101	3.1	8
29	Determining hyperelastic parameters of human skin using 2D finite element modelling and simulation 2012 ,		8
28	Structural and magnetic characterization of spark plasma sintered Fe-50Co alloys. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 201-207		8

27	Variation in electrosurgical vessel seal quality along the length of a porcine carotid artery. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 169-74	1.7	7
26	Enhancement in the elongation, yield strength and magnetic properties of intermetallic FeCo alloy using spark plasma sintering. <i>Journal of Materials Science</i> , 2017 , 52, 13284-13295	4.3	7
25	Changes in Vickers hardness during the decomposition of bone: Possibilities for forensic anthropology. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 672-678	4.1	7
24	Effect of diagenetic recrystallization on the strength of planktonic foraminifer tests under compression. <i>Journal of Micropalaeontology</i> , 2015 , 34, 59-64	2	7
23	Pull-out strength of a polished tapered stem is improved by placing bone cement over the shoulder of the implant. <i>Journal of Arthroplasty</i> , 2009 , 24, 139-43	4.4	6
22	Feasibility of detecting orthopaedic screw overtightening using acoustic emission. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017 , 231, 213-221	1.7	5
21	Disrupted mitochondrial function in the Opa3L122P mouse model for Costeff Syndrome impairs skeletal integrity. <i>Human Molecular Genetics</i> , 2016 , 25, 2404-2416	5.6	5
20	Influence of coated SiC particulates on the mechanical and magnetic behaviour of FeCo alloy composites. <i>Journal of Materials Science</i> , 2014 , 49, 2578-2587	4.3	5
19	Quantifying Skin Properties Using a Novel Integration Experiment-Finite Element Simulation and Skin Pre-Stretch Model. <i>Advanced Science Letters</i> , 2013 , 19, 3155-3160	0.1	5
18	Influence of spark plasma sintering parameters on magnetic properties of FeCo alloy. <i>AIP Advances</i> , 2018 , 8, 047705	1.5	4
17	How Can We Measure the Mechanical Properties of Soft Tissues?. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017 , 67-83	0.6	4
16	Bone cement: an overview. <i>International Journal of Nano and Biomaterials</i> , 2010 , 3, 4	0.2	4
15	Mechanical and magnetic properties of spark plasma sintered soft magnetic FeCo alloy reinforced by carbon nanotubes. <i>Journal of Materials Research</i> , 2016 , 31, 3448-3458	2.5	4
14	Nonlinear scaling effects in the stiffness of soft cellular structures. <i>Royal Society Open Science</i> , 2019 , 6, 181361	3.3	3
13	An Analysis of Systematic Elemental Changes in Decomposing Bone. <i>Journal of Forensic Sciences</i> , 2018 , 63, 207-213	1.8	3
12	Distal humerus cortical strains following total elbow arthroplasty. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013 , 227, 120-8	1.7	2
11	Thermoneutrality improves skeletal impairment in adult Prader-Willi syndrome mice. <i>Journal of Endocrinology</i> , 2019 ,	4.7	2
10	Full-field MRI measurements of in-vivo positional brain shift reveal the significance of intra-cranial geometry and head orientation for stereotactic surgery. <i>Scientific Reports</i> , 2021 , 11, 17684	4.9	2

9	Analysis of variability in additive manufactured open cell porous structures. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017 , 231, 534-546	1.7	1
8	AuthorWreply: The "deadman" concept in practice: should we believe a mathematical theory or accept the experimental evidence?. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2015 , 31, 182-3	5.4	1
7	Effects of intermittent overloads on fatigue of PMMA bone cement. <i>International Journal of Nano and Biomaterials</i> , 2010 , 3, 65	0.2	1
6	A Nonlinear Compressible Transversely-Isotropic Viscohyperelastic Constitutive Model of the Periodontal Ligament 2008 ,		1
5	Acoustic emission technology can warn of impending iatrogenic femur fracture during femoral canal preparation for uncemented hip replacement. A cadaveric animal bone study. <i>Journal of Medical Engineering and Technology</i> , 2018 , 42, 72-87	1.8	0
4	Advanced Location and Characterisation of Damage in Complex Metallic Structures Using Acoustic Emission 2007 , 925-926		0
3	Progressive dehydration in decomposing bone: a potential tool for forensic anthropology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 3517-3524	4.1	0
2	Alternative radiopacifiers for polymethyl methacrylate bone cements: Silane-treated anatase titanium dioxide and yttria-stabilised zirconium dioxide. <i>Journal of Biomaterials Applications</i> , 2021 , 35, 1235-1252	2.9	0
1	Effect of gap outside contact area on lubrication of metal-on-Metal total hip replacement. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 675-689	2.1	