

Sam L Evans

List of Publications by Year in Descending Order

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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 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 | |
| 58 | Nonlinear scaling effects in the stiffness of soft cellular structures. <i>Royal Society Open Science</i> , 2019 , 6, 181361 | 3.3 | 3 |
| 57 | Additive manufacturing of high-strength crack-free Ni-based Hastelloy X superalloy. <i>Additive Manufacturing</i> , 2019 , 30, 100919 | 6.1 | 27 |
| 56 | Thermoneutrality improves skeletal impairment in adult Prader-Willi syndrome mice. <i>Journal of Endocrinology</i> , 2019 , | 4.7 | 2 |
| 55 | 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 |
| 54 | An Analysis of Systematic Elemental Changes in Decomposing Bone. <i>Journal of Forensic Sciences</i> , 2018 , 63, 207-213 | 1.8 | 3 |
| 53 | Influence of spark plasma sintering parameters on magnetic properties of FeCo alloy. <i>AIP Advances</i> , 2018 , 8, 047705 | 1.5 | 4 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |

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| 45 | A transverse isotropic viscoelastic constitutive model for aortic valve tissue. <i>Royal Society Open Science</i> , 2017 , 4, 160585 | 3.3 | 14 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | Chronic, intermittent convection-enhanced delivery devices. <i>Journal of Neuroscience Methods</i> , 2016 , 259, 47-56 | 3 | 47 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | Full-surface deformation measurement of anisotropic tissues under indentation. <i>Medical Engineering and Physics</i> , 2015 , 37, 484-93 | 2.4 | 19 |
| 32 | Effect of diagenetic recrystallization on the strength of planktonic foraminifer tests under compression. <i>Journal of Micropalaeontology</i> , 2015 , 34, 59-64 | 2 | 7 |
| 31 | 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 |
| 30 | Author's reply: 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 |
| 29 | Improvement of interfacial bonding in carbon nanotube reinforced Fe ₃ SiCo 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 |
| 28 | 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 |

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| 27 | Mechanical and magnetic characterisation of SiC whisker reinforced Fe ₉₀ Co alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 592, 19-27 | 5.3 | 14 |
| 26 | 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 |
| 25 | A new method to investigate how mechanical loading of osteocytes controls osteoblasts. <i>Frontiers in Endocrinology</i> , 2014 , 5, 208 | 5.7 | 44 |
| 24 | Biomechanical study: determining the optimum insertion angle for screw-in suture anchors-is deadman's angle correct?. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014 , 30, 1535-9 | 5.4 | 25 |
| 23 | Influence of coated SiC particulates on the mechanical and magnetic behaviour of Fe ₉₀ Co alloy composites. <i>Journal of Materials Science</i> , 2014 , 49, 2578-2587 | 4.3 | 5 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | Determining hyperelastic parameters of human skin using 2D finite element modelling and simulation 2012 , | | 8 |
| 17 | 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 |
| 16 | A Parametric Study and Simulations in Quantifying Human Skin Hyperelastic Parameters. <i>Procedia Engineering</i> , 2012 , 41, 1580-1586 | | 27 |
| 15 | Structural and magnetic characterization of spark plasma sintered Fe-50Co alloys. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 201-207 | | 8 |
| 14 | 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 |
| 13 | 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 |
| 12 | Bone cement: an overview. <i>International Journal of Nano and Biomaterials</i> , 2010 , 3, 4 | 0.2 | 4 |
| 11 | Effects of intermittent overloads on fatigue of PMMA bone cement. <i>International Journal of Nano and Biomaterials</i> , 2010 , 3, 65 | 0.2 | 1 |
| 10 | 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 |

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| 9 | 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 |
| 8 | 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 |
| 7 | Use of Macro Fibre Composite Transducers as Acoustic Emission Sensors. <i>Remote Sensing</i> , 2009 , 1, 68-79 | 5 | 18 |
| 6 | 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 |
| 5 | 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 |
| 4 | A Nonlinear Compressible Transversely-Isotropic Viscohyperelastic Constitutive Model of the Periodontal Ligament 2008 , | | 1 |
| 3 | Delta T source location for acoustic emission. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 1512-1520 | 5.8 | 123 |
| 2 | 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 |
| 1 | Advanced Location and Characterisation of Damage in Complex Metallic Structures Using Acoustic Emission 2007 , 925-926 | | 0 |