William R. Walsh

List of Publications by Year
in descending order

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343 papers	10,846 citations	30070 54 h-index	58581 82 g-index
352 all docs	352 docs citations	352 times ranked	9724 citing authors

#	Article	IF	Citations
1	Osteoinductive ceramics as a synthetic alternative to autologous bone grafting. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13614-13619.	7.1	618
2	A New Era of Antibiotics: The Clinical Potential of Antimicrobial Peptides. International Journal of Molecular Sciences, 2020, 21, 7047.	4.1	235
3	Structural Properties of the Intact and the Reconstructed Coracoclavicular Ligament Complex. American Journal of Sports Medicine, 2000, 28, 103-108.	4.2	232
4	Spine Interbody Implants: Material Selection and Modification, Functionalization and Bioactivation of Surfaces to Improve Osseointegration. Orthopaedic Surgery, 2014, 6, 81-89.	1.8	203
5	Î²-TCP bone graft substitutes in a bilateral rabbit tibial defect model. Biomaterials, 2008, 29, 266-271.	11.4	176
6	Mechanism of initial attachment of cells derived from human bone to commonly used prosthetic materials during cell culture. Biomaterials, 1994, 15, 213-222.	11.4	161
7	Increased formation and decreased resorption of bone in mice with elevated vitamin D receptor in mature cells of the osteoblastic lineage. FASEB Journal, 2000, 14, 1908-1916.	0.5	155
8	Response of a Calcium Sulfate Bone Graft Substitute in a Confined Cancellous Defect. Clinical Orthopaedics and Related Research, 2003, 406, 228-236.	1.5	154
9	Plasma-sprayed titanium coating to polyetheretherketone improves the bone-implant interface. Spine Journal, 2015, 15, 1041-1049.	1.3	145
10	Morphometric and mechanical evaluation of titanium implant integration: Comparison of five surface structures. , 2000, 51, 15-22.		140
11	An improved method for measuring tibiofemoral contact areas in total knee arthroplasty: a comparison of K-scan sensor and Fuji film. Journal of Biomechanics, 1999, 32, 951-958.	2.1	138
12	Mechanical properties of bat wing membrane skin. Journal of Zoology, 1996, 239, 357-378.	1.7	135
13	In vivo evaluation of resorbable bone graft substitutes in a rabbit tibial defect model. Biomaterials, 2004, 25, 5037-5044.	11.4	127
14	Resurfacing of the Glenoid in Total Shoulder Arthroplasty. A Comparison, at a Mean of Five Years, of Prostheses Inserted with and without Cement*. Journal of Bone and Joint Surgery - Series A, 1999, 81, 510-8.	3.0	118
15	The design evolution of interbody cages in anterior cervical discectomy and fusion: a systematic review. BMC Musculoskeletal Disorders, 2015, 16, 99.	1.9	109
16	Computational bone remodelling simulations and comparisons with DEXA results. Journal of Orthopaedic Research, 2005, 23, 705-712.	2.3	104
17	Can platelet-rich plasma (PRP) improve bone healing? A comparison between the theory and experimental outcomes. Archives of Orthopaedic and Trauma Surgery, 2013, 133, 153-165.	2.4	103
18	Anatomic variance of the coracoclavicular ligaments. Journal of Shoulder and Elbow Surgery, 2001, 10, 585-588.	2.6	101

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19	Primary Total Hip Arthroplasty in Severe Developmental Dysplasia of the Hip. Ten-Year Results Using a Cementless Modular Stem. Journal of Arthroplasty, 2009, 24, 27-32.	3.1	100
20	Fracture Healing in a Rat Osteopenia Model. Clinical Orthopaedics and Related Research, 1997, 342, 218???227.	1.5	94
21	A new technique of subtrochanteric shortening in total hip arthroplasty. Journal of Arthroplasty, 2000, 15, 617-626.	3.1	94
22	Should acute anterior dislocations of the shoulder be immobilized in external rotation? A cadaveric study. Journal of Shoulder and Elbow Surgery, 2004, 13, 589-592.	2.6	94
23	Biomechanical evaluation of interference screw fixation in a bovine patellar bone-tendon-bone autograft complex for anterior cruciate ligament reconstruction. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1993, 9, 417-424.	2.7	88
24	The role of latency in mandibular osteodistraction. Journal of Cranio-Maxillo-Facial Surgery, 1998, 26, 209-219.	1.7	87
25	Resistance forces acting on suture needles. Journal of Biomechanics, 2001, 34, 1335-1340.	2.1	81
26	Mandibular distraction osteogenesis: a comparison of distraction rates in the rabbit model. Journal of Cranio-Maxillo-Facial Surgery, 1998, 26, 43-49.	1.7	79
27	Compressive properties of cortical bone: mineral-organic interfacial bonding. Biomaterials, 1994, 15, 137-145.	11.4	78
28	Laminated tears of the human rotator cuff: A histologic and immunochemical study. Journal of Shoulder and Elbow Surgery, 2001, 10, 109-115.	2.6	78
29	Molecular targeted therapies for cancer: Sorafenib monoÃ¯Â¿Â½therapy and its combination with other therapies (Review). Oncology Reports, 2012, 27, 1303-11.	2.6	77
30	TGF-Î², BMPS, and their signal transducing mediators, Smads, in rat fracture healing. Journal of Biomedical Materials Research Part B, 2002, 60, 392-397.	3.1	76
31	The Masquelet Technique for Membrane Induction and the Healing of Ovine Critical Sized Segmental Defects. PLoS ONE, 2014, 9, e114122.	2.5	74
32	Effects of local injection of corticosteroids on the healing of ligaments. A follow-up report.. Journal of Bone and Joint Surgery - Series A, 1995, 77, 1682-1691.	3.0	72
33	Multiaxial Pedicle Screw Designs: Static and Dynamic Mechanical Testing. Spine, 2004, 29, 367-375.	2.0	71
34	High-strength, porous additively manufactured implants with optimized mechanical osseointegration. Biomaterials, 2021, 279, 121206.	11.4	71
35	The Role of Transforming Growth Factor-Beta, Insulin-Like Growth Factor I, and Basic Fibroblast Growth Factor in Distraction Osteogenesis of the Mandible. Journal of Craniofacial Surgery, 1999, 10, 80-86.	0.7	70
36	Healing Characteristics of a Type I Collagenous Structure Treated with Corticosteroids. American Journal of Sports Medicine, 1994, 22, 279-288.	4.2	69

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37	A resorbable porous ceramic composite bone graft substitute in a rabbit metaphyseal defect model. Journal of Orthopaedic Research, 2003, 21, 655-661.	2.3	68
38	The Role of Bone Morphogenetic Proteins BMP-2 and BMP-4 and Their Related Postreceptor Signaling System (Smads) in Distraction Osteogenesis of the Mandible. Journal of Craniofacial Surgery, 2004, 15, 714-718.	0.7	67
39	Effects of Low-Intensity Pulsed Ultrasound on Tendonâ€“Bone Healing in an Intra-articular Sheep Knee Model. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 197-204.	2.7	66
40	Relationship between age, skeletal site, and time postâ€ovariectomy on bone mineral and trabecular microarchitecture in rats. Journal of Orthopaedic Research, 2011, 29, 189-196.	2.3	66
41	Does PEEK/HA Enhance Bone Formation Compared With PEEK in a Sheep Cervical Fusion Model?. Clinical Orthopaedics and Related Research, 2016, 474, 2364-2372.	1.5	66
42	Mechanical and Histologic Evaluation of Collagraft?? in an Ovine Lumbar Fusion Model. Clinical Orthopaedics and Related Research, 2000, 375, 258-266.	1.5	65
43	The effect of substrate roughness and hydroxyapatite coating thickness on implant shear strength. Journal of Arthroplasty, 2002, 17, 304-311.	3.1	65
44	Response of a calcium sulfate bone graft substitute in a confined cancellous defect. Clinical Orthopaedics and Related Research, 2003, , 228-36.	1.5	64
45	Initial fixation strength of polylactic acid interference screws in anterior cruciate ligament reconstruction. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1998, 14, 278-284.	2.7	63
46	HIGH PRESSURES ARE GENERATED AT THE TIP OF LAPAROSCOPIC GRASPERS. Australian and New Zealand Journal of Surgery, 1999, 69, 127-130.	0.2	63
47	Biomechanical properties of four circumferential flexor tendon suture techniques. Journal of Hand Surgery, 2003, 28, 824-831.	1.6	62
48	A comparison of the thermal properties of 2- and 3-fluted drills and the effects on bone cell viability and screw pull-out strength in an ovine model. Clinical Biomechanics, 2010, 25, 613-617.	1.2	62
49	3D-printed spine surgery implants: a systematic review of the efficacy and clinical safety profile of patient-specific and off-the-shelf devices. European Spine Journal, 2020, 29, 1248-1260.	2.2	61
50	Five-Year Comparison of Oxidized Zirconium and Cobalt-Chromium Femoral Components in Total Knee Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2011, 93, 624-630.	3.0	59
51	Wear in alumina-on-alumina ceramic total hip replacements. Journal of Bone and Joint Surgery: British Volume, 2012, 94-B, 901-907.	3.4	59
52	Effect of Distraction Rate on Biomechanical, Mineralization, and Histologic Properties of an Ovine Mandible Model. Plastic and Reconstructive Surgery, 2000, 105, 889-895.	1.4	58
53	Streaming potential of intact wet bone. Journal of Biomechanics, 1990, 23, 673-685.	2.1	57
54	Cyclic Testing of Pullout Sutures and Micro-Mitek Suture Anchors in Flexor Digitorum Profundus Tendon Distal Fixation. Journal of Hand Surgery, 2005, 30, 471-478.	1.6	57

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55	Variations in the trunnion surface topography between different commercially available hip replacement stems. Journal of Orthopaedic Research, 2015, 33, 98-105.	2.3	57
56	Intraoperative assessment of tibiofemoral contact stresses in total knee arthroplasty. Journal of Arthroplasty, 1998, 13, 923-927.	3.1	56
57	Mechanical Properties of Reconstructed Achilles Tendon with Transfer of Peroneus Brevis or Flexor Hallucis Longus Tendon. Journal of Foot and Ankle Surgery, 2007, 46, 424-428.	1.0	53
58	PEEK Versus Ti Interbody Fusion Devices. Clinical Spine Surgery, 2016, 29, E208-E214.	1.3	53
59	Bone Morphogenetic Proteins and Smad Expression in Ovine Tendon-Bone Healing. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 205-210.	2.7	52
60	Experimental Study and Analysis of Hydrostatic Pressure Sensitivity of Polymer Fibre Bragg Gratings. Journal of Lightwave Technology, 2015, 33, 2456-2462.	4.6	52
61	Critical Size Bone Defect Healing Using Collagenâ€“Calcium Phosphate Bone Graft Materials. PLoS ONE, 2017, 12, e0168883.	2.5	52
62	The Compressive Properties of Bone Cements Containing Large Doses of Antibiotics. Journal of Arthroplasty, 2009, 24, 454-460.	3.1	50
63	Influence of different polymeric gels on the ectopic bone forming ability of an osteoinductive biphasic calcium phosphate ceramic. Acta Biomaterialia, 2011, 7, 2007-2014.	8.3	50
64	The Interosseous Membrane In Radio-ulnar Dissociation. Journal of Bone and Joint Surgery: British Volume, 1997, 79, 422-427.	3.4	49
65	A novel technique for quantitative detection of mRNA expression in human bone derived cells cultured on biomaterials. , 1996, 33, 217-223.		48
66	Expression of growth factors in the mandibular distraction zone: a sheep study. Journal of Plastic, Reconstructive and Aesthetic Surgery, 1999, 52, 434-439.	1.1	48
67	The Impact of Nitinol Staples on the Compressive Forces, Contact Area, and Mechanical Properties in Comparison to a Claw Plate and Crossed Screws for the First Tarsometatarsal Arthrodesis. Foot and Ankle Specialist, 2016, 9, 232-240.	1.0	48
68	Influence of Electron Beam Melting Manufactured Implants on Ingrowth and Shear Strength in an Ovine Model. Journal of Arthroplasty, 2012, 27, 1429-1436.	3.1	46
69	In vivo implant fixation of carbon fiberâ€reinforced PEEK hip prostheses in an ovine model. Journal of Orthopaedic Research, 2013, 31, 485-492.	2.3	46
70	A novel model of boneâ€metastatic prostate cancer in immunocompetent Mice. Prostate, 2009, 69, 1613-1623.	2.3	45
71	microRNA-34 family and treatment of cancers with mutant or wild-type p53 (Review). International Journal of Oncology, 2011, 38, 1189-95.	3.3	45
72	Influence of Locking Stitch Size in a Four-Strand Cross-Locked Cruciate Flexor Tendon Repair. Journal of Hand Surgery, 2011, 36, 450-455.	1.6	44

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73	Analysis of Retrieved Hydroxyapatite-Coated Hip Prostheses. Journal of Thermal Spray Technology, 2004, 13, 190-199.	3.1	43
74	Contrast enhancement in visualisation of woven composite tow architecture using a MicroCT Scanner. Part 1: Fabric coating and resin additives. Composites Part A: Applied Science and Manufacturing, 2009, 40, 553-565.	7.6	43
75	Biomechanical evaluation of four different transosseous-equivalent/suture bridge rotator cuff repairs. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 1582-1587.	4.2	43
76	Anterior Lumbar Interbody Fusion Using a Personalized Approach: Is Custom the Future of Implants for Anterior Lumbar Interbody Fusion Surgery?. World Neurosurgery, 2019, 124, 452-458.e1.	1.3	43
77	Evaluation of a bioabsorable polylactide film in a large animal model for the reduction of retrosternal adhesions. Journal of Surgical Research, 2004, 118, 144-153.	1.6	42
78	Finite element micro-modelling of a human ankle bone reveals the importance of the trabecular network to mechanical performance: New methods for the generation and comparison of 3D models. Journal of Biomechanics, 2013, 46, 200-205.	2.1	42
79	Stress Relaxation and Creep: Viscoelastic Properties of Common Suture Materials Used for Flexor Tendon Repair. Journal of Hand Surgery, 2008, 33, 241-246.	1.6	41
80	Biomechanical evaluation of shape-memory alloy staples for internal fixationâ€”an in vitro study. Journal of Experimental Orthopaedics, 2016, 3, 19.	1.8	41
81	Combination Ti/PEEK ALIF cage for anterior lumbar interbody fusion: Early clinical and radiological results. Journal of Clinical Neuroscience, 2016, 34, 94-99.	1.5	41
82	Optimizing biomechanical performance of the 4-strand cruciate flexor tendon repair. Journal of Hand Surgery, 2004, 29, 571-580.	1.6	40
83	Paracetamol induced skin blood flow and blood pressure changes in febrile intensive care patients: An observational study. Australian Critical Care, 2010, 23, 208-214.	1.3	40
84	PDGF-AB and 5-Azacytidine induce conversion of somatic cells into tissue-regenerative multipotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2306-15.	7.1	40
85	Bone composite behaviour: effects of mineral-organic bonding. Journal of Materials Science: Materials in Medicine, 1994, 5, 72-79.	3.6	39
86	Surgical management of large rotator cuff tears combined with instability in elite rugby football players * Commentary. British Journal of Sports Medicine, 2003, 37, 179-181.	6.7	39
87	Contrast enhancement in visualisation of woven composite architecture using a MicroCT Scanner. Part 2: Tow and preform coatings. Composites Part A: Applied Science and Manufacturing, 2009, 40, 1870-1879.	7.6	39
88	Suture Strength and Angle of Load Application in a Suture Anchor Eyelet. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2005, 21, 1447-1451.	2.7	38
89	High Intrinsic Sensitivity Etched Polymer Fiber Bragg Grating Pair for Simultaneous Strain and Temperature Measurements. IEEE Sensors Journal, 2016, 16, 2453-2459.	4.7	38
90	Radiological and clinical outcomes of novel Ti/PEEK combined spinal fusion cages: a systematic review and preclinical evaluation. European Spine Journal, 2017, 26, 593-605.	2.2	38

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91	The in vivo response to a novel Ti coating compared with polyether ether ketone: evaluation of the periphery and inner surfaces of an implant. Spine Journal, 2018, 18, 1231-1240.	1.3	38
92	A novel method for measuring medial compartment pressures within the knee joint in-vivo. Journal of Biomechanics, 2003, 36, 1391-1395.	2.1	37
93	Cemented fixation with PMMA or Bis-GMA resin hydroxyapatite cement: effect of implant surface roughness. Biomaterials, 2004, 25, 4929-4934.	11.4	36
94	The accuracy of bone resections made during computer navigated total knee replacement. Do we resect what the computer plans we resect?. Knee, 2008, 15, 238-241.	1.6	36
95	Intrinsic High-Sensitivity Sensors Based on Etched Single-Mode Polymer Optical Fibers. IEEE Photonics Technology Letters, 2015, 27, 604-607.	2.5	36
96	Does implantation site influence bone ingrowth into 3D-printed porous implants?. Spine Journal, 2019, 19, 1885-1898.	1.3	36
97	The Effect of Mitek Anchor Insertion Angle to Attachment of FDP Avulsion Injuries. Journal of Hand Surgery, 2006, 31, 292-295.	0.8	35
98	The anatomically difficult primary total hip replacement. Journal of Bone and Joint Surgery: British Volume, 2008, 90-B, 430-435.	3.4	35
99	Posterolateral spinal fusion in a rabbit model using a collagenâ€“mineral composite bone graft substitute. European Spine Journal, 2009, 18, 1610-1620.	2.2	35
100	Platelet-Rich Plasma and Bone Defect Healing. Tissue Engineering - Part A, 2014, 20, 2614-2633.	3.1	35
101	Osseointegration of porous titanium implants with and without electrochemically deposited DCPD coating in an ovine model. Journal of Orthopaedic Surgery and Research, 2011, 6, 56.	2.3	34
102	Effects of Demineralized Bone Matrix on Tendon-Bone Healing in an Intra-articular Rodent Model. American Journal of Sports Medicine, 2012, 40, 2365-2374.	4.2	34
103	The effects of Low-intensity Pulsed Ultrasound on tendon-bone healing in a transosseous-equivalent sheep rotator cuff model. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 466-475.	4.2	34
104	3-dimensional printing for anterior cervical surgery: a review. Journal of Spine Surgery, 2018, 4, 757-769.	1.2	34
105	Recombinant equine growth hormone does not affect the in vitro biomechanical properties of equine superficial digital flexor tendon. Veterinary Surgery, 2002, 31, 325-330.	1.0	33
106	Infection or Allergy in the Painful Metal-on-Metal Total Hip Arthroplasty?. Journal of Arthroplasty, 2010, 25, 334.e11-334.e16.	3.1	33
107	A Biomechanical Comparison of the Z Step-cut and Basilar Crescentic Osteotomies of the First Metatarsal. Foot and Ankle International, 2000, 21, 584-587.	2.3	31
108	The influence of design parameters on cortical strain distribution of a cementless titanium femoral stem. Medical Engineering and Physics, 2002, 24, 109-114.	1.7	31

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109	Biomechanics of the knee extensor mechanism and its relationship to patella tendinopathy: A review. Journal of Orthopaedic Research, 2018, 36, 3105-3112.	2.3	31
110	Controlled release of platelet-derived growth factor using ethylene vinyl acetate copolymer (EVAc) coated on stainless-steel wires. Biomaterials, 1995, 16, 1319-1325.	11.4	30
111	Patterns of Failure at the Instrumentâ€"Tissue Interface. Journal of Surgical Research, 2000, 93, 16-20.	1.6	29
112	The function of the posterior cruciate ligament in an anteroposterior-gliding rotating platform total knee arthroplasty. Journal of Arthroplasty, 2002, 17, 484-489.	3.1	29
113	The epidemiology of hospitalised wrist fractures in older people, New South Wales, Australia. Bone, 2006, 39, 1144-1148.	2.9	29
114	Wound infusion with local anaesthesia after laparotomy: a randomized controlled trial. ANZ Journal of Surgery, 2010, 80, 794-801.	0.7	29
115	IGF1R-Targeted Therapy and Its Enhancement of Doxorubicin Chemosensitivity in Human Osteosarcoma Cell Lines. Cancer Investigation, 2011, 29, 521-532.	1.3	29
116	Effect of Surgical Fit on Integration of Cancellous Bone and Implant Cortical Bone Shear Strength for a Porous Titanium. Journal of Arthroplasty, 2011, 26, 1000-1007.	3.1	29
117	Poor histological healing of a femoral fracture following 12Âmonths of oestrogen deficiency in rats. Osteoporosis International, 2013, 24, 2581-2589.	3.1	29
118	Titanium/Polyetheretherketone Cages for Cervical Arthrodesis with Degenerative and Traumatic Pathologies: Early Clinical Outcomes and Fusion Rates. Orthopaedic Surgery, 2016, 8, 19-26.	1.8	29
119	Comparison of zone II flexor tendon repairs using an in vitro linear cyclic testing protocol. Clinical Biomechanics, 2005, 20, 718-722.	1.2	28
120	Transdermal fentanyl and its use in ovine surgery. Research in Veterinary Science, 2015, 100, 252-256.	1.9	28
121	The effect of recombinant equine growth hormone on the biomechanical properties of healing superficial digital flexor tendons in horses. Veterinary Surgery, 2002, 31, 320-324.	1.0	27
122	Hydroxyapatite Composite Resin Cement Augmentation of Pedicle Screw Fixation. Clinical Orthopaedics and Related Research, 2003, 406, 253-261.	1.5	27
123	Comparison of Poly-L-Lactide and Polylactide Carbonate Interference Screws in an Ovine Anterior Cruciate Ligament Reconstruction Model. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 757-765.e2.	2.7	27
124	The effect of sterilization on the mechanical properties of intact rabbit humeri in three-point bending, four-point bending and torsion. Cell and Tissue Banking, 2013, 14, 231-242.	1.1	27
125	The effect of sterilization methods on the osteoconductivity of allograft bone in a critical-sized bilateral tibial defect model in rabbits. Biomaterials, 2013, 34, 8185-8194.	11.4	27
126	A Sheep Model for Cancellous Bone Healing. Frontiers in Surgery, 2014, 1, 37.	1.4	27

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127	Performance of a knotless four-strand flexor tendon repair with a unidirectional barbed suture device: a dynamic ex vivo comparison. Journal of Hand Surgery: European Volume, 2014, 39, 30-39.	1.0	27
128	The effect ofin vitro fluoride ion treatment on the ultrasonic properties of cortical bone. Annals of Biomedical Engineering, 1994, 22, 404-415.	2.5	26
129	Spinal fusion using an autologous growth factor gel and a porous resorbable ceramic. European Spine Journal, 2004, 13, 359-66.	2.2	26
130	Tibiofemoral contact areas and pressures in six high flexion knees. International Orthopaedics, 2009, 33, 403-406.	1.9	26
131	Cross-Sectional Area and Strength Differences of Fiberwire, Prolene, and Ticron Sutures. Journal of Hand Surgery, 2010, 35, 780-784.	1.6	26
132	Platelet Function and Constituents of Platelet Rich Plasma. International Journal of Sports Medicine, 2012, 34, 74-80.	1.7	26
133	Novel Surface Modifications of Carbon Fiberâ€Reinforced Polyetheretherketone Hip Stem in an Ovine Model. Artificial Organs, 2012, 36, 62-70.	1.9	26
134	Biomechanical Performance of Bankart Repairs in a Human Cadaveric Shoulder Model. American Journal of Sports Medicine, 1998, 26, 831-835.	4.2	25
135	In Vitro Structural Properties of Braided Tendon Grafts. American Journal of Sports Medicine, 2000, 28, 790-793.	4.2	25
136	Evaluation of Transbronchial Lung Cryobiopsy Size and Freezing Time: A Prognostic Animal Study. Respiration, 2016, 92, 34-39.	2.6	25
137	Accelerometers for objective evaluation of physical activity following spine surgery. Journal of Clinical Neuroscience, 2016, 26, 14-18.	1.5	25
138	Effects of a delayed steroid injection on ligament healing using a rabbit medial collateral ligament model. Biomaterials, 1995, 16, 905-910.	11.4	24
139	The Role of Nerve Growth Factor and Brain-Derived Neurotrophic Factor in Inferior Alveolar Nerve Regeneration in Distraction Osteogenesis. Journal of Craniofacial Surgery, 2003, 14, 859-865.	0.7	24
140	No effect of a type I collagen gel coating in uncemented implant fixation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 74B, 423-428.	3.4	24
141	3-Fluted orthopaedic drills exhibit superior bending stiffness to their 2-fluted rivals: Clinical implications for targeting ability and the incidence of drill-bit failure. Injury, 2008, 39, 734-741.	1.7	24
142	The effect of supercritical carbon dioxide sterilization on the anisotropy of bovine cortical bone. Cell and Tissue Banking, 2015, 16, 109-121.	1.1	24
143	Functional repair of critically sized femoral defects treated with bioinspired titanium gyroid-sheet scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104380.	3.1	24
144	Development of a Novel Model for the Assessment of Dead-Space Management in Soft Tissue. PLoS ONE, 2015, 10, e0136514.	2.5	24

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145	Electrokinetic behavior of intact wet bone: Compartmental model. Journal of Orthopaedic Research, 1991, 9, 683-692.	2.3	23
146	Ion concentration effects on bone streaming potentials and zeta potentials. Biomaterials, 1993, 14, 331-336.	11.4	23
147	Does the sheep mandible relapse following lengthening by distraction osteogenesis?. Journal of Cranio-Maxillo-Facial Surgery, 2000, 28, 251-257.	1.7	23
148	Tophaceous gout of the rotator cuff: A case report. Journal of Shoulder and Elbow Surgery, 2003, 12, 200-201.	2.6	23
149	Growth factor expression following clinical mandibular distraction osteogenesis in humans and its comparison with existing animal studies. Journal of Cranio-Maxillo-Facial Surgery, 2005, 33, 361-369.	1.7	23
150	Effect of low intensity pulsed ultrasound on healing of an ulna defect filled with a bone graft substitute. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 74-81.	3.4	23
151	The effect of sterilization on the dynamic mechanical properties of paired rabbit cortical bone. Journal of Biomechanics, 2013, 46, 1670-1675.	2.1	23
152	Bone ongrowth and mechanical fixation of implants in cortical and cancellous bone. Journal of Orthopaedic Surgery and Research, 2020, 15, 177.	2.3	23
153	Mechanical properties of the rotator cuff: response to cyclic loading at varying abduction angles. Knee Surgery, Sports Traumatology, Arthroscopy, 2003, 11, 389-392.	4.2	22
154	Pore distribution and material properties of bone cement cured at different temperatures. Acta Biomaterialia, 2010, 6, 886-891.	8.3	22
155	In vitro assessment of proximal polyethylene contact surface areas and stresses in mobile bearing knees. Medical Engineering and Physics, 2003, 25, 437-443.	1.7	21
156	Mechanisms for Pumping Fluid Through Cementless Acetabular Components With Holes. Journal of Arthroplasty, 2005, 20, 1042-1048.	3.1	21
157	Midterm results using a medial pivot total knee replacement compared with the Australian National Joint Replacement Registry data. ANZ Journal of Surgery, 2014, 84, 172-176.	0.7	21
158	Osseointegration of Multiphase Anodic Spark Deposition Treated Porous Titanium Implants in an Ovine Model. Journal of Arthroplasty, 2015, 30, 484-488.	3.1	21
159	Ovine model for critical-size tibial segmental defects. Comparative Medicine, 2014, 64, 377-85.	1.0	21
160	Biomechanical analysis of five fixation techniques used in glenohumeral arthrodesis. ANZ Journal of Surgery, 2003, 73, 1015-1017.	0.7	20
161	The immunolocalisation of VEGF in the articular cartilage of sheep mandibular condyles. Journal of Cranio-Maxillo-Facial Surgery, 2003, 31, 244-251.	1.7	20
162	Flexor tendon pulley Vâ€“Y Plasty: an Alternative to Pulley Venting or Resection. Journal of Hand Surgery, 2006, 31, 133-137.	0.8	20

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163	Anatomic and Biomechanical Study of the Biceps Vinculum, a Structure Within the Biceps Sheath. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2009, 25, 515-521.	2.7	20
164	Lumbar spinal fusion with Î²-TCP granules and variable Escherichia coliâ€“derived rhBMP-2 dose. Spine Journal, 2014, 14, 1758-1768.	1.3	20
165	Photoelastic comparison of strains in the underlying glenoid with metal-backed and all-polyethylene implants. Journal of Shoulder and Elbow Surgery, 2008, 17, 779-783.	2.6	19
166	Endovascular Reconstruction of the Occluded Aortoiliac Segment Using â€œDouble-Barrelâ€• Self-Expanding Stents and Selective Use of the Outback LTD Catheter. Journal of Endovascular Therapy, 2011, 18, 25-31.	1.5	19
167	Meniscal allograft sterilisation: effect on biomechanical and histological properties. Cell and Tissue Banking, 2015, 16, 467-475.	1.1	19
168	Corrosion of 3D-Printed Orthopaedic Implant Materials. Annals of Biomedical Engineering, 2019, 47, 162-173.	2.5	19
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