

William R. Walsh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4800615/publications.pdf>

Version: 2024-02-01

343
papers

10,846
citations

29994

54
h-index

58464

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.	3.3	618
2	A New Era of Antibiotics: The Clinical Potential of Antimicrobial Peptides. International Journal of Molecular Sciences, 2020, 21, 7047.	1.8	235
3	Structural Properties of the Intact and the Reconstructed Coracoclavicular Ligament Complex. American Journal of Sports Medicine, 2000, 28, 103-108.	1.9	232
4	Spine Interbody Implants: Material Selection and Modification, Functionalization and Bioactivation of Surfaces to Improve Osseointegration. Orthopaedic Surgery, 2014, 6, 81-89.	0.7	203
5	^{45}Ca -TCP bone graft substitutes in a bilateral rabbit tibial defect model. Biomaterials, 2008, 29, 266-271.	5.7	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.	5.7	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.	0.2	155
8	Response of a Calcium Sulfate Bone Graft Substitute in a Confined Cancellous Defect. Clinical Orthopaedics and Related Research, 2003, 406, 228-236.	0.7	154
9	Plasma-sprayed titanium coating to polyetheretherketone improves the bone-implant interface. Spine Journal, 2015, 15, 1041-1049.	0.6	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.	0.9	138
12	Mechanical properties of bat wing membrane skin. Journal of Zoology, 1996, 239, 357-378.	0.8	135
13	In vivo evaluation of resorbable bone graft substitutes in a rabbit tibial defect model. Biomaterials, 2004, 25, 5037-5044.	5.7	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.	1.4	118
15	The design evolution of interbody cages in anterior cervical discectomy and fusion: a systematic review. BMC Musculoskeletal Disorders, 2015, 16, 99.	0.8	109
16	Computational bone remodelling simulations and comparisons with DEXA results. Journal of Orthopaedic Research, 2005, 23, 705-712.	1.2	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.	1.3	103
18	Anatomic variance of the coracoclavicular ligaments. Journal of Shoulder and Elbow Surgery, 2001, 10, 585-588.	1.2	101

#	ARTICLE	IF	CITATIONS
19	Primary Total Hip Arthroplasty in Severe Developmental Dysplasia of the Hip. Ten-Year Results Using a Cementless Modular Stem. <i>Journal of Arthroplasty</i> , 2009, 24, 27-32.	1.5	100
20	Fracture Healing in a Rat Osteopenia Model. <i>Clinical Orthopaedics and Related Research</i> , 1997, 342, 218-227.	0.7	94
21	A new technique of subtrochanteric shortening in total hip arthroplasty. <i>Journal of Arthroplasty</i> , 2000, 15, 617-626.	1.5	94
22	Should acute anterior dislocations of the shoulder be immobilized in external rotation? A cadaveric study. <i>Journal of Shoulder and Elbow Surgery</i> , 2004, 13, 589-592.	1.2	94
23	Biomechanical evaluation of interference screw fixation in a bovine patellar bone-tendon-bone autograft complex for anterior cruciate ligament reconstruction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1993, 9, 417-424.	1.3	88
24	The role of latency in mandibular osteodistraction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 1998, 26, 209-219.	0.7	87
25	Resistance forces acting on suture needles. <i>Journal of Biomechanics</i> , 2001, 34, 1335-1340.	0.9	81
26	Mandibular distraction osteogenesis: a comparison of distraction rates in the rabbit model. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 1998, 26, 43-49.	0.7	79
27	Compressive properties of cortical bone: mineral-organic interfacial bonding. <i>Biomaterials</i> , 1994, 15, 137-145.	5.7	78
28	Laminated tears of the human rotator cuff: A histologic and immunochemical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2001, 10, 109-115.	1.2	78
29	Molecular targeted therapies for cancer: Sorafenib monotherapy and its combination with other therapies (Review). <i>Oncology Reports</i> , 2012, 27, 1303-11.	1.2	77
30	TGF- β 2, BMPs, and their signal transducing mediators, Smads, in rat fracture healing. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 60, 392-397.	3.0	76
31	The Masquelet Technique for Membrane Induction and the Healing of Ovine Critical Sized Segmental Defects. <i>PLoS ONE</i> , 2014, 9, e114122.	1.1	74
32	Effects of local injection of corticosteroids on the healing of ligaments. A follow-up report.. <i>Journal of Bone and Joint Surgery - Series A</i> , 1995, 77, 1682-1691.	1.4	72
33	Multiaxial Pedicle Screw Designs: Static and Dynamic Mechanical Testing. <i>Spine</i> , 2004, 29, 367-375.	1.0	71
34	High-strength, porous additively manufactured implants with optimized mechanical osseointegration. <i>Biomaterials</i> , 2021, 279, 121206.	5.7	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. <i>Journal of Craniofacial Surgery</i> , 1999, 10, 80-86.	0.3	70
36	Healing Characteristics of a Type I Collagenous Structure Treated with Corticosteroids. <i>American Journal of Sports Medicine</i> , 1994, 22, 279-288.	1.9	69

#	ARTICLE	IF	CITATIONS
37	A resorbable porous ceramic composite bone graft substitute in a rabbit metaphyseal defect model. <i>Journal of Orthopaedic Research</i> , 2003, 21, 655-661.	1.2	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. <i>Journal of Craniofacial Surgery</i> , 2004, 15, 714-718.	0.3	67
39	Effects of Low-Intensity Pulsed Ultrasound on Tendon Bone Healing in an Intra-articular Sheep Knee Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2007, 23, 197-204.	1.3	66
40	Relationship between age, skeletal site, and time postovariectomy on bone mineral and trabecular microarchitecture in rats. <i>Journal of Orthopaedic Research</i> , 2011, 29, 189-196.	1.2	66
41	Does PEEK/HA Enhance Bone Formation Compared With PEEK in a Sheep Cervical Fusion Model?. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 2364-2372.	0.7	66
42	Mechanical and Histologic Evaluation of Collagraft in an Ovine Lumbar Fusion Model. <i>Clinical Orthopaedics and Related Research</i> , 2000, 375, 258-266.	0.7	65
43	The effect of substrate roughness and hydroxyapatite coating thickness on implant shear strength. <i>Journal of Arthroplasty</i> , 2002, 17, 304-311.	1.5	65
44	Response of a calcium sulfate bone graft substitute in a confined cancellous defect. <i>Clinical Orthopaedics and Related Research</i> , 2003, , 228-36.	0.7	64
45	Initial fixation strength of polylactic acid interference screws in anterior cruciate ligament reconstruction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1998, 14, 278-284.	1.3	63
46	HIGH PRESSURES ARE GENERATED AT THE TIP OF LAPAROSCOPIC GRASPERS. <i>Australian and New Zealand Journal of Surgery</i> , 1999, 69, 127-130.	0.2	63
47	Biomechanical properties of four circumferential flexor tendon suture techniques. <i>Journal of Hand Surgery</i> , 2003, 28, 824-831.	0.7	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. <i>Clinical Biomechanics</i> , 2010, 25, 613-617.	0.5	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. <i>European Spine Journal</i> , 2020, 29, 1248-1260.	1.0	61
50	Five-Year Comparison of Oxidized Zirconium and Cobalt-Chromium Femoral Components in Total Knee Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, 624-630.	1.4	59
51	Wear in alumina-on-alumina ceramic total hip replacements. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2012, 94-B, 901-907.	3.4	59
52	Effect of Distraction Rate on Biomechanical, Mineralization, and Histologic Properties of an Ovine Mandible Model. <i>Plastic and Reconstructive Surgery</i> , 2000, 105, 889-895.	0.7	58
53	Streaming potential of intact wet bone. <i>Journal of Biomechanics</i> , 1990, 23, 673-685.	0.9	57
54	Cyclic Testing of Pullout Sutures and Micro-Mitek Suture Anchors in Flexor Digitorum Profundus Tendon Distal Fixation. <i>Journal of Hand Surgery</i> , 2005, 30, 471-478.	0.7	57

#	ARTICLE	IF	CITATIONS
55	Variations in the trunnion surface topography between different commercially available hip replacement stems. <i>Journal of Orthopaedic Research</i> , 2015, 33, 98-105.	1.2	57
56	Intraoperative assessment of tibiofemoral contact stresses in total knee arthroplasty. <i>Journal of Arthroplasty</i> , 1998, 13, 923-927.	1.5	56
57	Mechanical Properties of Reconstructed Achilles Tendon with Transfer of Peroneus Brevis or Flexor Hallucis Longus Tendon. <i>Journal of Foot and Ankle Surgery</i> , 2007, 46, 424-428.	0.5	53
58	PEEK Versus Ti Interbody Fusion Devices. <i>Clinical Spine Surgery</i> , 2016, 29, E208-E214.	0.7	53
59	Bone Morphogenetic Proteins and Smad Expression in Ovine Tendon-Bone Healing. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2007, 23, 205-210.	1.3	52
60	Experimental Study and Analysis of Hydrostatic Pressure Sensitivity of Polymer Fibre Bragg Gratings. <i>Journal of Lightwave Technology</i> , 2015, 33, 2456-2462.	2.7	52
61	Critical Size Bone Defect Healing Using Collagen-Calcium Phosphate Bone Graft Materials. <i>PLoS ONE</i> , 2017, 12, e0168883.	1.1	52
62	The Compressive Properties of Bone Cements Containing Large Doses of Antibiotics. <i>Journal of Arthroplasty</i> , 2009, 24, 454-460.	1.5	50
63	Influence of different polymeric gels on the ectopic bone forming ability of an osteoinductive biphasic calcium phosphate ceramic. <i>Acta Biomaterialia</i> , 2011, 7, 2007-2014.	4.1	50
64	The interosseous membrane in radio-ulnar dissociation. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1997, 79, 422-7.	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. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 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. <i>Foot and Ankle Specialist</i> , 2016, 9, 232-240.	0.5	48
68	Influence of Electron Beam Melting Manufactured Implants on Ingrowth and Shear Strength in an Ovine Model. <i>Journal of Arthroplasty</i> , 2012, 27, 1429-1436.	1.5	46
69	In vivo implant fixation of carbon fiber-reinforced PEEK hip prostheses in an ovine model. <i>Journal of Orthopaedic Research</i> , 2013, 31, 485-492.	1.2	46
70	A novel model of bone-metastatic prostate cancer in immunocompetent Mice. <i>Prostate</i> , 2009, 69, 1613-1623.	1.2	45
71	microRNA-34 family and treatment of cancers with mutant or wild-type p53 (Review). <i>International Journal of Oncology</i> , 2011, 38, 1189-95.	1.4	45
72	Influence of Locking Stitch Size in a Four-Strand Cross-Locked Cruciate Flexor Tendon Repair. <i>Journal of Hand Surgery</i> , 2011, 36, 450-455.	0.7	44

#	ARTICLE	IF	CITATIONS
73	Analysis of Retrieved Hydroxyapatite-Coated Hip Prostheses. <i>Journal of Thermal Spray Technology</i> , 2004, 13, 190-199.	1.6	43
74	Contrast enhancement in visualisation of woven composite tow architecture using a MicroCT Scanner. Part 1: Fabric coating and resin additives. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 553-565.	3.8	43
75	Biomechanical evaluation of four different transosseous-equivalent/suture bridge rotator cuff repairs. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 1582-1587.	2.3	43
76	Anterior Lumbar Interbody Fusion Using a Personalized Approach: Is Custom the Future of Implants for Anterior Lumbar Interbody Fusion Surgery?. <i>World Neurosurgery</i> , 2019, 124, 452-458.e1.	0.7	43
77	Evaluation of a bioabsorbable polylactide film in a large animal model for the reduction of retrosternal adhesions. <i>Journal of Surgical Research</i> , 2004, 118, 144-153.	0.8	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. <i>Journal of Biomechanics</i> , 2013, 46, 200-205.	0.9	42
79	Stress Relaxation and Creep: Viscoelastic Properties of Common Suture Materials Used for Flexor Tendon Repair. <i>Journal of Hand Surgery</i> , 2008, 33, 241-246.	0.7	41
80	Biomechanical evaluation of shape-memory alloy staples for internal fixation—an in vitro study. <i>Journal of Experimental Orthopaedics</i> , 2016, 3, 19.	0.8	41
81	Combination Ti/PEEK ALIF cage for anterior lumbar interbody fusion: Early clinical and radiological results. <i>Journal of Clinical Neuroscience</i> , 2016, 34, 94-99.	0.8	41
82	Optimizing biomechanical performance of the 4-strand cruciate flexor tendon repair. <i>Journal of Hand Surgery</i> , 2004, 29, 571-580.	0.7	40
83	Paracetamol induced skin blood flow and blood pressure changes in febrile intensive care patients: An observational study. <i>Australian Critical Care</i> , 2010, 23, 208-214.	0.6	40
84	PDGF-AB and 5-Azacytidine induce conversion of somatic cells into tissue-regenerative multipotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2306-15.	3.3	40
85	Bone composite behaviour: effects of mineral-organic bonding. <i>Journal of Materials Science: Materials in Medicine</i> , 1994, 5, 72-79.	1.7	39
86	Surgical management of large rotator cuff tears combined with instability in elite rugby football players * Commentary. <i>British Journal of Sports Medicine</i> , 2003, 37, 179-181.	3.1	39
87	Contrast enhancement in visualisation of woven composite architecture using a MicroCT Scanner. Part 2: Tow and preform coatings. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1870-1879.	3.8	39
88	Suture Strength and Angle of Load Application in a Suture Anchor Eyelet. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2005, 21, 1447-1451.	1.3	38
89	High Intrinsic Sensitivity Etched Polymer Fiber Bragg Grating Pair for Simultaneous Strain and Temperature Measurements. <i>IEEE Sensors Journal</i> , 2016, 16, 2453-2459.	2.4	38
90	Radiological and clinical outcomes of novel Ti/PEEK combined spinal fusion cages: a systematic review and preclinical evaluation. <i>European Spine Journal</i> , 2017, 26, 593-605.	1.0	38

#	ARTICLE	IF	CITATIONS
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. <i>Spine Journal</i> , 2018, 18, 1231-1240.	0.6	38
92	A novel method for measuring medial compartment pressures within the knee joint in-vivo. <i>Journal of Biomechanics</i> , 2003, 36, 1391-1395.	0.9	37
93	Cemented fixation with PMMA or Bis-GMA resin hydroxyapatite cement: effect of implant surface roughness. <i>Biomaterials</i> , 2004, 25, 4929-4934.	5.7	36
94	The accuracy of bone resections made during computer navigated total knee replacement. Do we resect what the computer plans we resect?. <i>Knee</i> , 2008, 15, 238-241.	0.8	36
95	Intrinsic High-Sensitivity Sensors Based on Etched Single-Mode Polymer Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 604-607.	1.3	36
96	Does implantation site influence bone ingrowth into 3D-printed porous implants?. <i>Spine Journal</i> , 2019, 19, 1885-1898.	0.6	36
97	The Effect of Mitek Anchor Insertion Angle to Attachment of FDP Avulsion Injuries. <i>Journal of Hand Surgery</i> , 2006, 31, 292-295.	0.9	35
98	The anatomically difficult primary total hip replacement. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2008, 90-B, 430-435.	3.4	35
99	Posterolateral spinal fusion in a rabbit model using a collagenâ€“mineral composite bone graft substitute. <i>European Spine Journal</i> , 2009, 18, 1610-1620.	1.0	35
100	Platelet-Rich Plasma and Bone Defect Healing. <i>Tissue Engineering - Part A</i> , 2014, 20, 2614-2633.	1.6	35
101	Osseointegration of porous titanium implants with and without electrochemically deposited DCPD coating in an ovine model. <i>Journal of Orthopaedic Surgery and Research</i> , 2011, 6, 56.	0.9	34
102	Effects of Demineralized Bone Matrix on Tendon-Bone Healing in an Intra-articular Rodent Model. <i>American Journal of Sports Medicine</i> , 2012, 40, 2365-2374.	1.9	34
103	The effects of Low-intensity Pulsed Ultrasound on tendon-bone healing in a transosseous-equivalent sheep rotator cuff model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 466-475.	2.3	34
104	3-dimensional printing for anterior cervical surgery: a review. <i>Journal of Spine Surgery</i> , 2018, 4, 757-769.	0.6	34
105	Recombinant equine growth hormone does not affect the in vitro biomechanical properties of equine superficial digital flexor tendon. <i>Veterinary Surgery</i> , 2002, 31, 325-330.	0.5	33
106	Infection or Allergy in the Painful Metal-on-Metal Total Hip Arthroplasty?. <i>Journal of Arthroplasty</i> , 2010, 25, 334.e11-334.e16.	1.5	33
107	A Biomechanical Comparison of the Z Step-cut and Basilar Crescentic Osteotomies of the First Metatarsal. <i>Foot and Ankle International</i> , 2000, 21, 584-587.	1.1	31
108	The influence of design parameters on cortical strain distribution of a cementless titanium femoral stem. <i>Medical Engineering and Physics</i> , 2002, 24, 109-114.	0.8	31

#	ARTICLE	IF	CITATIONS
109	Biomechanics of the knee extensor mechanism and its relationship to patella tendinopathy: A review. <i>Journal of Orthopaedic Research</i> , 2018, 36, 3105-3112.	1.2	31
110	Controlled release of platelet-derived growth factor using ethylene vinyl acetate copolymer (EVAc) coated on stainless-steel wires. <i>Biomaterials</i> , 1995, 16, 1319-1325.	5.7	30
111	Patterns of Failure at the Instrumentâ€Tissue Interface. <i>Journal of Surgical Research</i> , 2000, 93, 16-20.	0.8	29
112	The function of the posterior cruciate ligament in an anteroposterior-gliding rotating platform total knee arthroplasty. <i>Journal of Arthroplasty</i> , 2002, 17, 484-489.	1.5	29
113	The epidemiology of hospitalised wrist fractures in older people, New South Wales, Australia. <i>Bone</i> , 2006, 39, 1144-1148.	1.4	29
114	Wound infusion with local anaesthesia after laparotomy: a randomized controlled trial. <i>ANZ Journal of Surgery</i> , 2010, 80, 794-801.	0.3	29
115	IGF1R-Targeted Therapy and Its Enhancement of Doxorubicin Chemosensitivity in Human Osteosarcoma Cell Lines. <i>Cancer Investigation</i> , 2011, 29, 521-532.	0.6	29
116	Effect of Surgical Fit on Integration of Cancellous Bone and Implant Cortical Bone Shear Strength for a Porous Titanium. <i>Journal of Arthroplasty</i> , 2011, 26, 1000-1007.	1.5	29
117	Poor histological healing of a femoral fracture following 12Âmonths of oestrogen deficiency in rats. <i>Osteoporosis International</i> , 2013, 24, 2581-2589.	1.3	29
118	Titanium/Polyetheretherketone Cages for Cervical Arthrodesis with Degenerative and Traumatic Pathologies: Early Clinical Outcomes and Fusion Rates. <i>Orthopaedic Surgery</i> , 2016, 8, 19-26.	0.7	29
119	Comparison of zone II flexor tendon repairs using an in vitro linear cyclic testing protocol. <i>Clinical Biomechanics</i> , 2005, 20, 718-722.	0.5	28
120	Transdermal fentanyl and its use in ovine surgery. <i>Research in Veterinary Science</i> , 2015, 100, 252-256.	0.9	28
121	The effect of recombinant equine growth hormone on the biomechanical properties of healing superficial digital flexor tendons in horses. <i>Veterinary Surgery</i> , 2002, 31, 320-324.	0.5	27
122	Hydroxyapatite Composite Resin Cement Augmentation of Pedicle Screw Fixation. <i>Clinical Orthopaedics and Related Research</i> , 2003, 406, 253-261.	0.7	27
123	Comparison of Poly-L-Lactide and Polylactide Carbonate Interference Screws in an Ovine Anterior Cruciate Ligament Reconstruction Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2007, 23, 757-765.e2.	1.3	27
124	The effect of sterilization on the mechanical properties of intact rabbit humeri in three-point bending, four-point bending and torsion. <i>Cell and Tissue Banking</i> , 2013, 14, 231-242.	0.5	27
125	The effect of sterilization methods on the osteoconductivity of allograft bone in a critical-sized bilateral tibial defect model in rabbits. <i>Biomaterials</i> , 2013, 34, 8185-8194.	5.7	27
126	A Sheep Model for Cancellous Bone Healing. <i>Frontiers in Surgery</i> , 2014, 1, 37.	0.6	27

#	ARTICLE	IF	CITATIONS
127	Performance of a knotless four-strand flexor tendon repair with a unidirectional barbed suture device: a dynamic ex vivo comparison. <i>Journal of Hand Surgery: European Volume</i> , 2014, 39, 30-39.	0.5	27
128	The effect of in vitro fluoride ion treatment on the ultrasonic properties of cortical bone. <i>Annals of Biomedical Engineering</i> , 1994, 22, 404-415.	1.3	26
129	Spinal fusion using an autologous growth factor gel and a porous resorbable ceramic. <i>European Spine Journal</i> , 2004, 13, 359-66.	1.0	26
130	Tibiofemoral contact areas and pressures in six high flexion knees. <i>International Orthopaedics</i> , 2009, 33, 403-406.	0.9	26
131	Cross-Sectional Area and Strength Differences of Fiberwire, Prolene, and Ticron Sutures. <i>Journal of Hand Surgery</i> , 2010, 35, 780-784.	0.7	26
132	Platelet Function and Constituents of Platelet Rich Plasma. <i>International Journal of Sports Medicine</i> , 2012, 34, 74-80.	0.8	26
133	Novel Surface Modifications of Carbon Fiber Reinforced Polyetheretherketone Hip Stem in an Ovine Model. <i>Artificial Organs</i> , 2012, 36, 62-70.	1.0	26
134	Biomechanical Performance of Bankart Repairs in a Human Cadaveric Shoulder Model. <i>American Journal of Sports Medicine</i> , 1998, 26, 831-835.	1.9	25
135	In Vitro Structural Properties of Braided Tendon Grafts. <i>American Journal of Sports Medicine</i> , 2000, 28, 790-793.	1.9	25
136	Evaluation of Transbronchial Lung Cryobiopsy Size and Freezing Time: A Prognostic Animal Study. <i>Respiration</i> , 2016, 92, 34-39.	1.2	25
137	Accelerometers for objective evaluation of physical activity following spine surgery. <i>Journal of Clinical Neuroscience</i> , 2016, 26, 14-18.	0.8	25
138	Effects of a delayed steroid injection on ligament healing using a rabbit medial collateral ligament model. <i>Biomaterials</i> , 1995, 16, 905-910.	5.7	24
139	The Role of Nerve Growth Factor and Brain-Derived Neurotrophic Factor in Inferior Alveolar Nerve Regeneration in Distraction Osteogenesis. <i>Journal of Craniofacial Surgery</i> , 2003, 14, 859-865.	0.3	24
140	No effect of a type I collagen gel coating in uncemented implant fixation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 74B, 423-428.	1.6	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. <i>Injury</i> , 2008, 39, 734-741.	0.7	24
142	The effect of supercritical carbon dioxide sterilization on the anisotropy of bovine cortical bone. <i>Cell and Tissue Banking</i> , 2015, 16, 109-121.	0.5	24
143	Functional repair of critically sized femoral defects treated with bioinspired titanium gyroid-sheet scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104380.	1.5	24
144	Development of a Novel Model for the Assessment of Dead-Space Management in Soft Tissue. <i>PLoS ONE</i> , 2015, 10, e0136514.	1.1	24

#	ARTICLE	IF	CITATIONS
145	Electrokinetic behavior of intact wet bone: Compartmental model. <i>Journal of Orthopaedic Research</i> , 1991, 9, 683-692.	1.2	23
146	Ion concentration effects on bone streaming potentials and zeta potentials. <i>Biomaterials</i> , 1993, 14, 331-336.	5.7	23
147	Does the sheep mandible relapse following lengthening by distraction osteogenesis?. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2000, 28, 251-257.	0.7	23
148	Tophaceous gout of the rotator cuff: A case report. <i>Journal of Shoulder and Elbow Surgery</i> , 2003, 12, 200-201.	1.2	23
149	Growth factor expression following clinical mandibular distraction osteogenesis in humans and its comparison with existing animal studies. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2005, 33, 361-369.	0.7	23
150	Effect of low intensity pulsed ultrasound on healing of an ulna defect filled with a bone graft substitute. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 86B, 74-81.	1.6	23
151	The effect of sterilization on the dynamic mechanical properties of paired rabbit cortical bone. <i>Journal of Biomechanics</i> , 2013, 46, 1670-1675.	0.9	23
152	Bone ongrowth and mechanical fixation of implants in cortical and cancellous bone. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 177.	0.9	23
153	Mechanical properties of the rotator cuff: response to cyclic loading at varying abduction angles. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2003, 11, 389-392.	2.3	22
154	Pore distribution and material properties of bone cement cured at different temperatures. <i>Acta Biomaterialia</i> , 2010, 6, 886-891.	4.1	22
155	In vitro assessment of proximal polyethylene contact surface areas and stresses in mobile bearing knees. <i>Medical Engineering and Physics</i> , 2003, 25, 437-443.	0.8	21
156	Mechanisms for Pumping Fluid Through Cementless Acetabular Components With Holes. <i>Journal of Arthroplasty</i> , 2005, 20, 1042-1048.	1.5	21
157	Midterm results using a medial pivot total knee replacement compared with the Australian National Joint Replacement Registry data. <i>ANZ Journal of Surgery</i> , 2014, 84, 172-176.	0.3	21
158	Osseointegration of Multiphase Anodic Spark Deposition Treated Porous Titanium Implants in an Ovine Model. <i>Journal of Arthroplasty</i> , 2015, 30, 484-488.	1.5	21
159	Ovine model for critical-size tibial segmental defects. <i>Comparative Medicine</i> , 2014, 64, 377-85.	0.4	21
160	Biomechanical analysis of five fixation techniques used in glenohumeral arthrodesis. <i>ANZ Journal of Surgery</i> , 2003, 73, 1015-1017.	0.3	20
161	The immunolocalisation of VEGF in the articular cartilage of sheep mandibular condyles. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2003, 31, 244-251.	0.7	20
162	Flexor tendon pulley VàY Plasty: an Alternative to Pulley Venting or Resection. <i>Journal of Hand Surgery</i> , 2006, 31, 133-137.	0.9	20

#	ARTICLE	IF	CITATIONS
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.	1.3	20
164	Lumbar spinal fusion with β -TCP granules and variable Escherichia coli-derived rhBMP-2 dose. Spine Journal, 2014, 14, 1758-1768.	0.6	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.	1.2	19
166	Endovascular Reconstruction of the Occluded Aortoiliac Segment Using "Double-Barrel" Self-Expanding Stents and Selective Use of the Outback LTD Catheter. Journal of Endovascular Therapy, 2011, 18, 25-31.	0.8	19
167	Meniscal allograft sterilisation: effect on biomechanical and histological properties. Cell and Tissue Banking, 2015, 16, 467-475.	0.5	19
168	Corrosion of 3D-Printed Orthopaedic Implant Materials. Annals of Biomedical Engineering, 2019, 47, 162-173.	1.3	19
169	The Reliability and Validity of Wearable Inertial Sensors Coupled with the Microsoft Kinect to Measure Shoulder Range-of-Motion. Sensors, 2020, 20, 7238.	2.1	19
170	In-vivo Performance of Seven Commercially Available Demineralized Bone Matrix Fiber and Putty Products in a Rat Posterolateral Fusion Model. Frontiers in Surgery, 2020, 7, 10.	0.6	19
171	Role of community diagnostic ultrasound examination in the diagnosis of full-thickness rotator cuff tears. ANZ Journal of Surgery, 2003, 73, 797-799.	0.3	18
172	Effect of suture material on gap formation and failure in type 1 FDP avulsion repairs in a cadaver model. Clinical Biomechanics, 2006, 21, 481-484.	0.5	18
173	Acromioclavicular reconstructions with hamstring tendon grafts: A comparative biomechanical study. Journal of Shoulder and Elbow Surgery, 2008, 17, 772-778.	1.2	18
174	The change in three-dimensional geometry of the Kessler flexor tendon repair under tension: a qualitative assessment using radiographs. Journal of Hand Surgery: European Volume, 2010, 35, 676-677.	0.5	18
175	Integral Fixation Titanium/Polyetheretherketone Cages for Cervical Arthrodesis: Evolution of Cage Design and Early Radiological Outcomes and Fusion Rates. Orthopaedic Surgery, 2019, 11, 52-59.	0.7	18
176	Subsidence and fusion performance of a 3D-printed porous interbody cage with stress-optimized body lattice and microporous endplates - a comprehensive mechanical and biological analysis. Spine Journal, 2022, 22, 1028-1037.	0.6	18
177	Fracture healing in a rat osteopenia model. Clinical Orthopaedics and Related Research, 1997, , 218-27.	0.7	18
178	Matrix metalloproteinases and their inhibitors in bone remodelling following distraction osteogenesis of the sheep mandible. Journal of Cranio-Maxillo-Facial Surgery, 2002, 30, 208-212.	0.7	17
179	Effects of Braiding on Tensile Properties of Four-Strand Human Hamstring Tendon Grafts. American Journal of Sports Medicine, 2003, 31, 714-717.	1.9	17
180	Patellar Tendon-to-Bone Healing Using High-Density Collagen Bone Anchor at 4 Years in a Sheep Model. American Journal of Sports Medicine, 2004, 32, 91-95.	1.9	17

#	ARTICLE	IF	CITATIONS
181	Plating of Metacarpal Fractures: Unicortical or Bicortical Screws?. Journal of Hand Surgery, 2004, 29, 216-219.	0.9	17
182	How do porosity-inducing techniques affect antibiotic elution from bone cement? An in vitro comparison between hydrogen peroxide and a mechanical mixer. Journal of Orthopaedics and Traumatology, 2008, 9, 17-22.	1.0	17
183	Performance of bone cements: Are current preclinical specifications adequate?. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 79, 826-831.	1.2	17
184	The histology of facial aesthetic subunits: Implications for common nasal reconstructive procedures. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2010, 63, 753-756.	0.5	17
185	Etching Process Related Changes and Effects on Solid-Core Single-Mode Polymer Optical Fiber Grating. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	17
186	The effect of screw type on the biomechanical properties of SCARF and crescentic osteotomies of the first metatarsal. Journal of Foot and Ankle Surgery, 2003, 42, 161-164.	0.5	16
187	Mechanical properties of gamma irradiated morselized bone during compaction. Biomaterials, 2005, 26, 6009-6013.	5.7	16
188	BMP-7 and CBFA1 in allograft bone in vivo bone formation and the influence of β -irradiation. Journal of Biomedical Materials Research - Part A, 2007, 80A, 435-443.	2.1	16
189	In Vitro Comparison of Lagged and Nonlagged Screw Fixation of Metacarpal Fractures in Cadavers. Journal of Hand Surgery, 2008, 33, 1732-1736.	0.7	16
190	The effect of gamma irradiation on the anisotropy of bovine cortical bone. Medical Engineering and Physics, 2012, 34, 1117-1122.	0.8	16
191	What Is the Standard Volume to Increase a Cup Size for Breast Augmentation Surgery? A Novel Three-Dimensional Computed Tomographic Approach. Plastic and Reconstructive Surgery, 2017, 139, 1084-1089.	0.7	16
192	A Novel Suture Anchor of High-Density Collagen Compared with a Metallic Anchor. American Journal of Sports Medicine, 2000, 28, 883-887.	1.9	15
193	A curved edge moderates high pressure generated by a laparoscopic grasper. Surgical Endoscopy and Other Interventional Techniques, 2001, 15, 1232-1234.	1.3	15
194	Reoperated clavicular nonunion treated with osteogenic protein 1 and electrical stimulation. Journal of Shoulder and Elbow Surgery, 2004, 13, 573-575.	1.2	15
195	Application of Resorbable Poly(Lactide-co-Glycolide) with Entangled Hyaluronic Acid as an Autograft Extender for Posterolateral Intertransverse Lumbar Fusion in Rabbits. Tissue Engineering - Part A, 2011, 17, 213-220.	1.6	15
196	Demineralized bone matrix as a template for mineral-organic composites. Biomaterials, 1995, 16, 1363-1371.	5.7	14
197	The Influence of Ambient Theater Temperature on Cement Setting Time. Journal of Arthroplasty, 2006, 21, 381-384.	1.5	14
198	Knee arthroplasty: a cross-sectional study assessing energy expenditure and activity. ANZ Journal of Surgery, 2011, 81, 371-374.	0.3	14

#	ARTICLE	IF	CITATIONS
199	Biomechanical evaluation of a biomimetic spinal construct. <i>Journal of Experimental Orthopaedics</i> , 2014, 1, 3.	0.8	14
200	Evaluation of Intrinsic Biomechanical Risk Factors in Patellar Tendinopathy: A Retrospective Radiographic Case-Control Series. <i>Orthopaedic Journal of Sports Medicine</i> , 2018, 6, 232596711881603.	0.8	14
201	Biphasic calcium phosphate with submicron surface topography in an <i>Ovine</i> model of instrumented posterolateral spinal fusion. <i>JOR Spine</i> , 2018, 1, e1039.	1.5	14
202	C3-C5 Chordoma Resection and Reconstruction with a Three-Dimensional Printed Titanium Patient-Specific Implant. <i>World Neurosurgery</i> , 2020, 136, 226-233.	0.7	14
203	A novel, resorbable suture anchor: Pullout strength from the human cadaver greater tuberosity. <i>Journal of Shoulder and Elbow Surgery</i> , 2001, 10, 286-291.	1.2	13
204	Lunate trabecular structure: a cadaveric radiograph study of risk factors for Kienbock's disease. <i>Journal of Hand Surgery: European Volume</i> , 2010, 35, 120-124.	0.5	13
205	Influence of Scan Resolution, Thresholding, and Reconstruction Algorithm on Computed Tomography-Based Kinematic Measurements. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	13
206	How Does Cage Lordosis Influence Postoperative Segmental Lordosis in Lumbar Interbody Fusion. <i>World Neurosurgery</i> , 2019, 126, e606-e611.	0.7	13
207	Effects of SCCO ₂ , Gamma Irradiation, and Sodium Dodecyl Sulfate Treatments on the Initial Properties of Tendon Allografts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1565.	1.8	13
208	Regional antibiotic prophylaxis in elbow surgery. <i>Journal of Shoulder and Elbow Surgery</i> , 2004, 13, 57-59.	1.2	12
209	Biomechanical Influence of the Vincula Tendinum on Digital Motion After Isolated Flexor Tendon Injury: A Cadaveric Study. <i>Journal of Hand Surgery</i> , 2007, 32, 1190-1194.	0.7	12
210	A Biomechanical Assessment of Repair Versus Nonrepair of Sheep Flexor Tendons Lacerated to 75 Percent. <i>Journal of Hand Surgery</i> , 2010, 35, 546-551.	0.7	12
211	The relationship between gap formation and grip-to-grip displacement during cyclic testing of repaired flexor tendons. <i>Journal of Biomechanics</i> , 2010, 43, 2835-2838.	0.9	12
212	A biomechanical comparison of 4-strand and 5-strand anterior cruciate ligament graft constructs. <i>Orthopedic Reviews</i> , 2017, 9, 6989.	0.3	12
213	The contribution of the cortical shell to pedicle screw fixation. <i>Journal of Spine Surgery</i> , 2017, 3, 184-192.	0.6	12
214	The Reliability of the Microsoft Kinect and Ambulatory Sensor-Based Motion Tracking Devices to Measure Shoulder Range-of-Motion: A Systematic Review and Meta-Analysis. <i>Sensors</i> , 2021, 21, 8186.	2.1	12
215	Human osteoblast response to PTFE surfaces. <i>Clinical Materials</i> , 1994, 16, 201-210.	0.5	11
216	The Effect of Rate of Distraction Osteogenesis on Structure and Function of Anterior Digastric Muscle Fibers. <i>Plastic and Reconstructive Surgery</i> , 2005, 115, 831-837.	0.7	11

#	ARTICLE	IF	CITATIONS
217	The Effect on Loop Elongation and Stress Relaxation During Longitudinal Loading of FiberWire in Shoulder Arthroscopic Knots. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2011, 27, 750-754.	1.3	11
218	Adjunctive Ultrasonography to Minimize Iodinated Contrast Administration During Carotid Artery Stenting:A Randomized Trial. <i>Journal of Endovascular Therapy</i> , 2012, 19, 638-647.	0.8	11
219	The histological and elemental characterisation of corrosion particles from taper junctions. <i>Bone and Joint Research</i> , 2016, 5, 370-378.	1.3	11
220	Analysis of the cephalometric changes in the first 3 months after spring-assisted cranioplasty for scaphocephaly. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2017, 70, 673-685.	0.5	11
221	Suture wear particles cause a significant inflammatory response in a murine synovial airpouch model. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 311.	0.9	11
222	A novel in vivo large animal model of lumbar spinal joint degeneration. <i>Spine Journal</i> , 2018, 18, 1896-1909.	0.6	11
223	Effects of supercritical fluid CO ₂ and 25 kGy gamma irradiation on the initial mechanical properties and histological appearance of tendon allograft. <i>Cell and Tissue Banking</i> , 2018, 19, 603-612.	0.5	11
224	Efficacy of a synthetic calcium phosphate with submicron surface topography as autograft extender in lapine posterolateral spinal fusion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2080-2090.	1.6	11
225	Surface roughness of the proximal and distal bearing surface of mobile bearing total knee prostheses. <i>Journal of Arthroplasty</i> , 2002, 17, 713-717.	1.5	10
226	A compliant tip reduces the peak pressure of laparoscopic graspers. <i>ANZ Journal of Surgery</i> , 2002, 72, 476-478.	0.3	10
227	The effect of two nonresorbable suture types on the mechanical performance over a metal suture anchor eyelet. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2004, 12, 165-168.	2.3	10
228	Effects of Recombinant Equine Growth Hormone on In Vitro Biomechanical Properties of the Superficial Digital Flexor Tendon of Standardbred Yearlings in Training. <i>Veterinary Surgery</i> , 2005, 34, 253-259.	0.5	10
229	Evaluation of a bioresorbable polylactide sheet for the reduction of pelvic soft tissue attachments in a porcine animal model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 79B, 166-175.	1.6	10
230	Porosity in Polyaryletheretherketone. , 2012, , 181-199.		10
231	An Arteriovenous Fistula Model of Intimal Hyperplasia for Evaluation of a Nitinol U-Clip Anastomosis. <i>European Journal of Vascular and Endovascular Surgery</i> , 2012, 43, 224-231.	0.8	10
232	Biomechanical assessment of a novel tendon junction. <i>Journal of Hand Surgery: European Volume</i> , 2013, 38, 795-800.	0.5	10
233	Tibial tuberosity transposition-advancement for lateralization of the tibial tuberosity: An ex vivo canine study. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2014, 27, 271-276.	0.2	10
234	A Microscopic and Biomarker Evaluation of Embolic Filter Debris Collected During Carotid Artery Stenting. <i>Journal of Endovascular Therapy</i> , 2016, 23, 275-284.	0.8	10

#	ARTICLE	IF	CITATIONS
235	Animal Models for Tendon Repair Experiments: A Comparison of Pig, Sheep and Human Deep Flexor Tendons in Zone II. <i>Journal of hand surgery Asian-Pacific volume, The</i> , 2017, 22, 329-336.	0.2	10
236	Patella tendinopathy Zoobiquity – What can we learn from dogs?. <i>Knee</i> , 2019, 26, 115-123.	0.8	10
237	Choice of Spinal Interbody Fusion Cage Material and Design Influences Subsidence and Osseointegration Performance. <i>World Neurosurgery</i> , 2022, 162, e626-e634.	0.7	10
238	Piezoelectric and Electrokinetic Effects in Bone Tissue – Review. <i>Electromagnetic Biology and Medicine</i> , 1993, 12, 51-82.	0.4	9
239	Radiofrequency Energy Effects on the Mechanical Properties of Tendon and Capsule. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2005, 21, 1479-1485.	1.3	9
240	'Smart' biomaterials and osteoinductivity. <i>Nature Reviews Rheumatology</i> , 2011, 7, 1-1.	3.5	9
241	Relationship of Surgical Accuracy and Clinical Outcomes in Charit – Lumbar Disc Replacement. <i>Orthopaedic Surgery</i> , 2012, 4, 145-155.	0.7	9
242	Influence of plate – bone contact on cyclically loaded conically coupled locking plate failure. <i>Injury</i> , 2014, 45, 515-521.	0.7	9
243	Looped suture properties: implications for multistranded flexor tendon repair. <i>Journal of Hand Surgery: European Volume</i> , 2015, 40, 234-238.	0.5	9
244	Application of Calcium Sulfate for Dead Space Management in Soft Tissue: Characterisation of a Novel In Vivo Response. <i>BioMed Research International</i> , 2018, 2018, 1-7.	0.9	9
245	MagnetOs, Vitoss, and Novabone in a Multi-endpoint Study of Posterolateral Fusion. <i>Clinical Spine Surgery</i> , 2020, 33, E276-E287.	0.7	9
246	Effects of Gaps Induced Into the ACL Tendon Graft on Tendon-Bone Healing in a Rodent ACL Reconstruction Model. <i>Muscles, Ligaments and Tendons Journal</i> , 2011, 1, 91-9.	0.1	9
247	The Role of Ions and Mineral-Organic Interfacial Bonding on the Compressive Properties of Cortical Bone. <i>Bio-Medical Materials and Engineering</i> , 1993, 3, 75-84.	0.4	8
248	Wound healing and growth factor expression in T lymphocyte deficiency. <i>ANZ Journal of Surgery</i> , 2002, 72, 491-495.	0.3	8
249	In Vivo Response of Bone Defects Filled with Pmma in an Ovine Model. <i>HIP International</i> , 2011, 21, 616-622.	0.9	8
250	Factors Affecting Flexural Strength in Cement Within Cement Revisions. <i>Journal of Arthroplasty</i> , 2011, 26, 1540-1548.	1.5	8
251	Effects of cement augmentation on the mechanical stability of multilevel spine after vertebral compression fracture. <i>Journal of Spine Surgery</i> , 2016, 2, 111-121.	0.6	8
252	The Interlocking Modification of the Cross Locked Cruciate Tendon Repair (Modified Adelaide Repair): A Static and Dynamic Biomechanical Assessment. <i>Journal of Hand and Microsurgery</i> , 2016, 07, 6-12.	0.1	8

#	ARTICLE	IF	CITATIONS
253	Anterior Lumbar Interbody Fusion Integrated Screw Cages: Intrinsic Load Generation, Subsidence, and Torsional Stability. <i>Orthopaedic Surgery</i> , 2017, 9, 191-197.	0.7	8
254	Use of a polymeric device to deliver growth factors to a healing fracture. <i>ANZ Journal of Surgery</i> , 2003, 73, 1022-1027.	0.3	7
255	Whip stitch versus grasping suture for tendon autograft. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2013, 23, 105-109.	0.6	7
256	Relationship between patellar tendon shortening and in vitro kinematics in the ovine stifle joint. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 438-447.	1.0	7
257	Quantification of Head Shape and Cranioplasty Outcomes: Six-compartment Volume Method Applied to Sagittal Synostosis. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2019, 7, e2171.	0.3	7
258	In-Vivo response to a novel pillared surface morphology for osseointegration in an ovine model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104462.	1.5	7
259	Single level posterolateral lumbar fusion in a New Zealand White rabbit (<scp><i>Oryctolagus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 perioperative care. <i>JOR Spine</i> , 2021, 4, e1135.	1.5	7
260	Effect of head size and rotation on taper corrosion in a hip simulator. <i>Bone & Joint Open</i> , 2021, 2, 1004-1016.	1.1	7
261	The role of ions and mineral-organic interfacial bonding on the compressive properties of cortical bone. <i>Bio-Medical Materials and Engineering</i> , 1993, 3, 75-84.	0.4	7
262	Bioinspired Polydopamine Coatings Facilitate Attachment of Antimicrobial Peptidomimetics with Broad-Spectrum Antibacterial Activity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2952.	1.8	7
263	Corrosion Resistance of 3D Printed Ti6Al4V Gyroid Lattices with Varying Porosity. <i>Materials</i> , 2022, 15, 4805.	1.3	7
264	Influence of surgical preparation on the <i>in-vivo</i> response of osteochondral defects. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2007, 221, 489-498.	1.0	6
265	Biomechanical Evaluation of Flexor Tendon Repair Using Barbed Suture Material: A Comparative ex vivo Study. <i>Journal of Hand Surgery</i> , 2011, 36, 1565-1566.	0.7	6
266	Cement-Implant Interface Contamination: Possible Reason of Inferior Clinical Outcomes for Rough Surface Cemented Stems. <i>The Open Orthopaedics Journal</i> , 2013, 7, 250-257.	0.1	6
267	11ÂkGy gamma irradiated demineralized bone matrix enhances osteoclast activity. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2014, 24, 655-661.	0.6	6
268	Structural Failure Mechanisms of Common Flexor Tendon Repairs. <i>Hand Surgery</i> , 2015, 20, 369-379.	0.6	6
269	Biomechanical comparison of pin and nitinol bone staple fixation to pin and tension band wire fixation for the stabilization of canine olecranon osteotomies. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2017, 30, 324-330.	0.2	6
270	A biomechanical comparison of Kirschner-wire fixation on fracture stability in Salter-Harris type I fractures of the proximal humeral physis in a porcine cadaveric model. <i>BMC Veterinary Research</i> , 2017, 13, 306.	0.7	6

#	ARTICLE	IF	CITATIONS
271	Three-dimensional kinematics of the canine carpal bones imaged with computed tomography after ex vivo axial limb loading and palmar ligament transection. <i>Veterinary Surgery</i> , 2018, 47, 861-871.	0.5	6
272	Treatment of patella tendinopathy by distalising tibial tubercle osteotomy. <i>BMJ Case Reports</i> , 2019, 12, e229209.	0.2	6
273	Three-Dimensional Morphometric Analysis of Lumbar Vertebral End Plate Anatomy. <i>World Neurosurgery</i> , 2020, 135, e321-e332.	0.7	6
274	Comparative osteoconductivity of bone void fillers with antibiotics in a critical size bone defect model. <i>Journal of Materials Science: Materials in Medicine</i> , 2020, 31, 80.	1.7	6
275	Fatigue implications for bending orthopaedic plates. <i>Injury</i> , 2021, 52, 2896-2902.	0.7	6
276	Historical Note: The Evolution of Cortical Bone Trajectory and Associated Techniques. <i>Spine Surgery and Related Research</i> , 2022, 6, 1-9.	0.4	6
277	Cytokines and matrix metalloproteinases mRNA expression in archival human tissues from failed total hip arthroplasty using in situ hybridization and color video image analysis. <i>Bulletin of the Hospital for Joint Diseases</i> , 1998, 57, 23-9.	0.3	6
278	Cement penetration after patella venting. <i>Knee</i> , 2009, 16, 50-53.	0.8	5
279	Intraoperative patellar kinematics following resection of the central one-third of the patellar tendon in the ovine stifle joint. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2011, 24, 197-204.	0.2	5
280	The Knotless Tendon Repair With a Resorbable Unidirectional Barbed Suture Device: An In Vivo Comparison in the Turkey Foot. <i>Journal of Hand Surgery</i> , 2013, 38, e33-e34.	0.7	5
281	Potentiodynamic Corrosion Testing. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	5
282	The Quantification of Corrosion Damage for Pre-stressed Conditions: A Model Using Stainless Steel. <i>Journal of Bio- and Tribo-Corrosion</i> , 2016, 2, 1.	1.2	5
283	Undercut macrostructure topography on and within an interbody cage improves biomechanical stability and interbody fusion. <i>Spine Journal</i> , 2020, 20, 1876-1886.	0.6	5
284	Distalising tibial tubercle osteotomy decreases patellar tendon force – A treatment rationale for recalcitrant patellar tendinopathy. <i>Knee</i> , 2020, 27, 871-877.	0.8	5
285	Load Sharing and Endplate Pressure Distribution in Anterior Interbody Fusion Influenced by Graft Choice. <i>World Neurosurgery</i> , 2021, 146, e336-e340.	0.7	5
286	Restoring Segmental Biomechanics Through Nucleus Augmentation. <i>Clinical Spine Surgery</i> , 2016, 29, 461-467.	0.7	5
287	“SMART” implantable devices for spinal implants: a systematic review on current and future trends. <i>Journal of Spine Surgery</i> , 2022, 8, 117-131.	0.6	5
288	Correlation Between Ultrasound Imaging and Mechanical and Physical Properties of Lengthened Bone. <i>Journal of Pediatric Orthopaedics</i> , 1995, 15, 206-211.	0.6	4

#	ARTICLE	IF	CITATIONS
289	Boundary conditions at the tendon?bone interface. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2005, 13, 55-59.	2.3	4
290	Effects of patellar position and defect healing on in vitro stifle joint kinematics following removal of the central one?third of the patellar tendon in an ovine model. <i>Journal of Orthopaedic Research</i> , 2011, 29, 572-581.	1.2	4
291	Does systemic administration of casein phosphopeptides affect orthodontic movement and root resorption in rats?. <i>European Journal of Orthodontics</i> , 2017, 39, 541-546.	1.1	4
292	Evaluation of comparative soft tissue response to bone void fillers with antibiotics in a rabbit intramuscular model. <i>Journal of Biomaterials Applications</i> , 2019, 34, 117-129.	1.2	4
293	Sagittal patellar flexion angle: a novel clinically validated patellar height measurement reflecting patellofemoral kinematics useful throughout knee flexion. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 975-983.	2.3	4
294	The efficacy of a nanosynthetic bone graft substitute as a bone graft extender in rabbit posterolateral fusion. <i>Spine Journal</i> , 2021, 21, 1925-1937.	0.6	4
295	Reduction of bacterial load with the addition of ultraviolet-C disinfection inside the hyperbaric chamber. <i>Diving and Hyperbaric Medicine</i> , 2020, 50, 332-337.	0.2	4
296	Physico-Chemical Characteristics and Posterolateral Fusion Performance of Biphasic Calcium Phosphate with Submicron Needle-Shaped Surface Topography Combined with a Novel Polymer Binder. <i>Materials</i> , 2022, 15, 1346.	1.3	4
297	DIFFICULTIES IN THE SALVAGE OF FOREARM STABILITY IN RADIO-ULNAR DISSOCIATION. <i>ANZ Journal of Surgery</i> , 1998, 68, 154-157.	0.3	3
298	Cell Structure and Biology of Bone and Cartilage. , 2003, , 35-58.		3
299	A new technique for distal fixation of flexor digitorum profundus tendon. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2008, 61, 475-477.	0.5	3
300	Simulation of patella alta and the implications for in vitro patellar tracking in the ovine stifle joint. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1789-1797.	1.2	3
301	The Effect of Saline Coolant on Temperature Levels during Decortication with a Midas Rex: An in Vitro Model Using Sheep Cervical Vertebrae. <i>Frontiers in Surgery</i> , 2015, 2, 37.	0.6	3
302	A Nitinol ?Clip?versus Sutured Arteriovenous Anastomosis: Local Tissue Response and Intimal Hyperplasia Development in a Sheep Model. <i>European Journal of Vascular and Endovascular Surgery</i> , 2015, 49, 344-352.	0.8	3
303	The effect of surgery on patellar tendinopathy: Novel use of MRI questions the exploitability of the rat collagenase model to humans. <i>Knee</i> , 2019, 26, 1182-1191.	0.8	3
304	Innovation and New Technologies in Spine Surgery, Circa 2020: A Fifty-Year Review. <i>Frontiers in Surgery</i> , 2020, 7, 575318.	0.6	3
305	Induction of muscle-regenerative multipotent stem cells from human adipocytes by PDGF-AB and 5-azacytidine. <i>Science Advances</i> , 2021, 7, .	4.7	3
306	Effect of ultraviolet-C light on the environmental bacterial bioburden in various veterinary facilities. <i>American Journal of Veterinary Research</i> , 2021, 82, 582-588.	0.3	3

#	ARTICLE	IF	CITATIONS
307	Temporal response of an injectable calcium phosphate material in a critical size defect. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 496.	0.9	3
308	The effect of a novel pillar surface morphology and material composition demonstrates uniform osseointegration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 123, 104775.	1.5	3
309	In Vitro Study of Shear Force on Interbody Implants. <i>Journal of Spinal Disorders and Techniques</i> , 2006, 19, 32-36.	1.8	2
310	A novel method of suspending sheep for clinical research. <i>Laboratory Animals</i> , 2017, 51, 652-655.	0.5	2
311	Knee kinematics in anatomic anterior cruciate ligament reconstruction with four- and five-strand hamstring tendon autografts. <i>Orthopedic Reviews</i> , 2018, 10, 7738.	0.3	2
312	Teaching Tip: Simulated Tumors as an Aid to Teaching Principles of Surgical Oncology. <i>Journal of Veterinary Medical Education</i> , 2018, 45, 250-254.	0.4	2
313	Sagittal patellar flexion angle measurement determines greater incidence of patella alta in patellar tendinopathy patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 3115-3123.	2.3	2
314	Moment arm function dictates patella sagittal height anatomy: Rabbit epiphyseodesis model alters limb length ratios and subsequent patellofemoral anatomical development. <i>Journal of Orthopaedic Research</i> , 2021, 39, 637-647.	1.2	2
315	Effect of Bicortical Interfragmentary Screw Size on the Fixation of Metacarpal Shaft Fractures: A 3-Dimensional-Printed Biomechanical Study. <i>Journal of Hand Surgery Global Online</i> , 2021, 3, 154-159.	0.3	2
316	Test-Retest and Intra-rater Reliability of Using Inertial Sensors and Its Integration with Microsoft Kinect [®] to Measure Shoulder Range-of-Motion. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2016, , 177-184.	0.2	2
317	The use of demineralised bone fibres (DBF) in conjunction with supercritical carbon dioxide (SCCO ₂) treated allograft in anterior lumbar interbody fusion (ALIF). <i>Journal of Spine Surgery</i> , 2019, 5, 589-595.	0.6	2
318	Bone Cell Response to Ion Implanted Silicon Wafers. <i>Materials Research Society Symposia Proceedings</i> , 1991, 252, 213.	0.1	1
319	Osteoblast - Orthopaedic Biomaterial Response. <i>Materials Research Society Symposia Proceedings</i> , 1993, 331, 127.	0.1	1
320	Biomechanical assessment of Weber B ankle fractures in a human cadaver model. <i>Foot</i> , 2002, 12, 77-82.	0.4	1
321	Viscosity of Bone Cement Influences Effectiveness of Vacuum Mixing. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 95-100.	1.8	1
322	Corrosion Resistance, Surface Evaluation, and Geometric Design Comparison of Five Self-Expanding Nitinol Stents Used in Clinical Practice. <i>Journal of Endovascular Therapy</i> , 2014, 21, 230-239.	0.8	1
323	Demineralisierte Knochenmatrix zur Augmentation der Sehnen-Knochen-Heilung. <i>Sports Orthopaedics and Traumatology</i> , 2015, 31, 293-298.	0.1	1
324	Evaluation of the artificial cotton roll tendon model for mechanical tendon repair experiments. <i>Journal of Hand Surgery: European Volume</i> , 2017, 42, 526-528.	0.5	1

#	ARTICLE	IF	CITATIONS
325	Antibacterial peptidomimetic and characterization of its efficacy as an antibacterial and biocompatible coating for bioceramic-based bone substitutes. <i>Materials Advances</i> , 0, , .	2.6	1
326	Do combined glucosamine sulfate and chondroitin sulfate supplements affect condylar remodelling during functional appliance therapy?. <i>Australasian Orthodontic Journal</i> , 2018, 34, 27-35.	0.3	1
327	Kinematics of the Feline Antebrachiocarpal Joint from Supination to Pronation. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2021, 34, 115-123.	0.2	1
328	IN VIVO ASSESSMENT OF GAMMA IRRADIATED BONE: OSTEOCONDUCTIVITY AND OSTEOINDUCTIVITY. , 2004, , 321-337.		1
329	The thermal profile of self-tapping screws: The effect of insertion speed, power insertion, and screw geometry on heat production at the bone-screw interface.. <i>Medical Engineering and Physics</i> , 2022, 100, 103754.	0.8	1
330	Biomechanical and physical properties of lengthened bone in a canine model. <i>Clinical Orthopaedics and Related Research</i> , 1994, , 230-8.	0.7	1
331	Human Osteoblast Expression of Osteonectin on Different Charged Substrata. <i>Materials Research Society Symposia Proceedings</i> , 1993, 331, 133.	0.1	0
332	A NEW SYSTEM FOR ESTIMATING SCLEROSIS OF IN VIVO COMMON CAROTID ARTERY BY ULTRASOUND B-MODE IMAGE ANALYSIS. , 2009, , .		0
333	Heart motion visualized from chest vibration based on multi-channel signal processing. , 2011, , .		0
334	Human polyethylene granuloma tissues inhibit bone healing in a novel xenograft animal model. <i>Journal of Orthopaedic Research</i> , 2014, 32, 735-743.	1.2	0
335	Corrigendum to "Influence of plate-bone contact on cyclically loaded conically coupled locking plate failure" [<i>Injury</i> 45(3) (2014) 515-521]. <i>Injury</i> , 2014, 45, 1023.	0.7	0
336	Stand up! Are normal weight-bearing forces sufficient for a 12/14 Morse taper locking in total hip arthroplasty?. <i>HIP International</i> , 2020, , 112070002096700.	0.9	0
337	Authors reply to "does undercut macrostructure cage cause increase of subsidence incidence and decrease of disc height?" <i>Spine Journal</i> , 2021, 21, 353-354.	0.6	0
338	Influence of Screw-Hole Defect Size on the Biomechanical Properties of Feline Femora in an Ex Vivo Model. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2021, , .	0.2	0
339	Mechanical Properties of Arteries with Aging and its Noninvasive Estimation Method. <i>IFMBE Proceedings</i> , 2009, , 1935-1938.	0.2	0
340	CERAMIC PROSTHETIC FEMORAL HEAD: THE EFFECT OF THE CONTACT STRESS DISTRIBUTION. , 1999, , .		0
341	Integral fixation titanium/polyetheretherketone cages for cervical arthrodesis: Two-year clinical outcomes and fusion rates using ¹²⁵ I-tricalcium phosphate or supercritical carbon dioxide treated allograft. <i>Journal of Craniovertebral Junction and Spine</i> , 2021, 12, 368.	0.4	0
342	Standalone titanium/polyetheretherketone interbody cage for anterior lumbar interbody fusion: Clinical and radiological results at 24 months. <i>Journal of Craniovertebral Junction and Spine</i> , 2022, 13, 42.	0.4	0

#	ARTICLE	IF	CITATIONS
343	CORR Insights®: The High-cycle Fatigue Life of Cortical Bone Allografts Is Radiation Sterilization Dose-dependent: An In Vitro Study. Clinical Orthopaedics and Related Research, 2022, Publish Ahead of Print, .	0.7	0