

William R. Walsh

List of Publications by Citations

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331
papers

8,674
citations

50
h-index

75
g-index

352
ext. papers

9,725
ext. citations

3.5
avg, IF

5.97
L-index

#	Paper	IF	Citations
331	Osteoinductive ceramics as a synthetic alternative to autologous bone grafting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13614-9	11.5	519
330	Structural properties of the intact and the reconstructed coracoclavicular ligament complex. <i>American Journal of Sports Medicine</i> , 2000 , 28, 103-8	6.8	199
329	Beta-TCP bone graft substitutes in a bilateral rabbit tibial defect model. <i>Biomaterials</i> , 2008 , 29, 266-71	15.6	153
328	Mechanism of initial attachment of cells derived from human bone to commonly used prosthetic materials during cell culture. <i>Biomaterials</i> , 1994 , 15, 213-22	15.6	153
327	Spine interbody implants: material selection and modification, functionalization and bioactivation of surfaces to improve osseointegration. <i>Orthopaedic Surgery</i> , 2014 , 6, 81-9	2.5	152
326	Response of a Calcium Sulfate Bone Graft Substitute in a Confined Cancellous Defect. <i>Clinical Orthopaedics and Related Research</i> , 2003 , 406, 228-236	2.2	136
325	Increased formation and decreased resorption of bone in mice with elevated vitamin D receptor in mature cells of the osteoblastic lineage. <i>FASEB Journal</i> , 2000 , 14, 1908-16	0.9	136
324	Morphometric and mechanical evaluation of titanium implant integration: comparison of five surface structures. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 51, 15-22		122
323	An improved method for measuring tibiofemoral contact areas in total knee arthroplasty: a comparison of K-scan sensor and Fuji film. <i>Journal of Biomechanics</i> , 1999 , 32, 951-8	2.9	121
322	In vivo evaluation of resorbable bone graft substitutes in a rabbit tibial defect model. <i>Biomaterials</i> , 2004 , 25, 5037-44	15.6	112
321	Mechanical properties of bat wing membrane skin. <i>Journal of Zoology</i> , 1996 , 239, 357-378	2	112
320	Resurfacing of the glenoid in total shoulder arthroplasty. A comparison, at a mean of five years, of prostheses inserted with and without cement. <i>Journal of Bone and Joint Surgery - Series A</i> , 1999 , 81, 510-8	5.6	111
319	Plasma-sprayed titanium coating to polyetheretherketone improves the bone-implant interface. <i>Spine Journal</i> , 2015 , 15, 1041-9	4	107
318	Computational bone remodelling simulations and comparisons with DEXA results. <i>Journal of Orthopaedic Research</i> , 2005 , 23, 705-12	3.8	88
317	A New Era of Antibiotics: The Clinical Potential of Antimicrobial Peptides. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	88
316	Anatomic variance of the coracoclavicular ligaments. <i>Journal of Shoulder and Elbow Surgery</i> , 2001 , 10, 585-8	4.3	87
315	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	4.4	83

314	Can platelet-rich plasma (PRP) improve bone healing? A comparison between the theory and experimental outcomes. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013 , 133, 153-65	3.6	79
313	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, 417-24	5.4	79
312	A new technique of subtrochanteric shortening in total hip arthroplasty: surgical technique and results of 9 cases. <i>Journal of Arthroplasty</i> , 2000 , 15, 617-26	4.4	78
311	The role of latency in mandibular osteodistraction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 1998 , 26, 209-19	3.6	77
310	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, 589-92	4.3	74
309	Fracture Healing in a Rat Osteopenia Model. <i>Clinical Orthopaedics and Related Research</i> , 1997 , 342, 2187-2227	2.27	72
308	Resistance forces acting on suture needles. <i>Journal of Biomechanics</i> , 2001 , 34, 1335-40	2.9	72
307	Mandibular distraction osteogenesis: a comparison of distraction rates in the rabbit model. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 1998 , 26, 43-9	3.6	70
306	The design evolution of interbody cages in anterior cervical discectomy and fusion: a systematic review. <i>BMC Musculoskeletal Disorders</i> , 2015 , 16, 99	2.8	69
305	TGF-beta, BMPS, and their signal transducing mediators, Smads, in rat fracture healing. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 392-7		68
304	Laminated tears of the human rotator cuff: a histologic and immunochemical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2001 , 10, 109-15	4.3	67
303	Compressive properties of cortical bone: mineral-organic interfacial bonding. <i>Biomaterials</i> , 1994 , 15, 137-45	15.6	67
302	Molecular targeted therapies for cancer: sorafenib mono-therapy and its combination with other therapies (review). <i>Oncology Reports</i> , 2012 , 27, 1303-11	3.5	65
301	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, 1682-91	5.6	64
300	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, 714-8	1.2	63
299	Multiaxial pedicle screw designs: static and dynamic mechanical testing. <i>Spine</i> , 2004 , 29, 367-75	3.3	62
298	Healing characteristics of a type I collagenous structure treated with corticosteroids. <i>American Journal of Sports Medicine</i> , 1994 , 22, 279-88	6.8	62
297	A resorbable porous ceramic composite bone graft substitute in a rabbit metaphyseal defect model. <i>Journal of Orthopaedic Research</i> , 2003 , 21, 655-61	3.8	61

296	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, 80-6 ^{1.2}	59
295	Biomechanical properties of four circumferential flexor tendon suture techniques. <i>Journal of Hand Surgery</i> , 2003 , 28, 824-31	2.6 58
294	Relationship between age, skeletal site, and time post-ovariectomy on bone mineral and trabecular microarchitecture in rats. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 189-96	3.8 57
293	Initial fixation strength of polylactic acid interference screws in anterior cruciate ligament reconstruction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1998 , 14, 278-84	5.4 57
292	High pressures are generated at the tip of laparoscopic graspers. <i>Australian and New Zealand Journal of Surgery</i> , 1999 , 69, 127-30	57
291	Mechanical and histologic evaluation of Collagraft in an ovine lumbar fusion model. <i>Clinical Orthopaedics and Related Research</i> , 2000 , 258-66	2.2 56
290	The Masquelet technique for membrane induction and the healing of ovine critical sized segmental defects. <i>PLoS ONE</i> , 2014 , 9, e114122	3.7 54
289	Five-year comparison of oxidized zirconium and cobalt-chromium femoral components in total knee arthroplasty: a randomized controlled trial. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011 , 93, 624-30 ^{5.6}	54
288	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	5.4 54
287	Wear in alumina-on-alumina ceramic total hip replacements: a retrieval analysis of edge loading. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2012 , 94, 901-7	53
286	Effect of distraction rate on biomechanical, mineralization, and histologic properties of an ovine mandible model. <i>Plastic and Reconstructive Surgery</i> , 2000 , 105, 889-95	2.7 53
285	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, 613-7	2.2 52
284	Intraoperative assessment of tibiofemoral contact stresses in total knee arthroplasty. <i>Journal of Arthroplasty</i> , 1998 , 13, 923-7	4.4 52
283	The effect of substrate roughness and hydroxyapatite coating thickness on implant shear strength. <i>Journal of Arthroplasty</i> , 2002 , 17, 304-11	4.4 52
282	Variations in the trunnion surface topography between different commercially available hip replacement stems. <i>Journal of Orthopaedic Research</i> , 2015 , 33, 98-105	3.8 50
281	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, 471-8	2.6 50
280	Streaming potential of intact wet bone. <i>Journal of Biomechanics</i> , 1990 , 23, 673-85	2.9 48
279	A novel technique for quantitative detection of mRNA expression in human bone derived cells cultured on biomaterials. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 33, 217-23	46

278	Response of a calcium sulfate bone graft substitute in a confined cancellous defect. <i>Clinical Orthopaedics and Related Research</i> , 2003 , 228-36	2.2	46
277	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	2.2	45
276	Influence of different polymeric gels on the ectopic bone forming ability of an osteoinductive biphasic calcium phosphate ceramic. <i>Acta Biomaterialia</i> , 2011 , 7, 2007-14	10.8	44
275	The compressive properties of bone cements containing large doses of antibiotics. <i>Journal of Arthroplasty</i> , 2009 , 24, 454-60	4.4	43
274	Bone morphogenetic proteins and Smad expression in ovine tendon-bone healing. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2007 , 23, 205-10	5.4	43
273	Expression of growth factors in the mandibular distraction zone: a sheep study. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 1999 , 52, 434-9		43
272	The interosseous membrane in radio-ulnar dissociation. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1997 , 79, 422-7		41
271	PEEK Versus Ti Interbody Fusion Devices: Resultant Fusion, Bone Apposition, Initial and 26-Week Biomechanics. <i>Clinical Spine Surgery</i> , 2016 , 29, E208-14	1.8	40
270	Experimental Study and Analysis of Hydrostatic Pressure Sensitivity of Polymer Fibre Bragg Gratings. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2456-2462	4	40
269	Influence of locking stitch size in a four-strand cross-locked cruciate flexor tendon repair. <i>Journal of Hand Surgery</i> , 2011 , 36, 450-5	2.6	40
268	microRNA-34 family and treatment of cancers with mutant or wild-type p53 (Review). <i>International Journal of Oncology</i> , 2011 , 38, 1189-95	4.4	40
267	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	8.4	39
266	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, 424-8	1.6	39
265	Optimizing biomechanical performance of the 4-strand cruciate flexor tendon repair. <i>Journal of Hand Surgery</i> , 2004 , 29, 571-80	2.6	39
264	Influence of electron beam melting manufactured implants on ingrowth and shear strength in an ovine model. <i>Journal of Arthroplasty</i> , 2012 , 27, 1429-36	4.4	38
263	Biomechanical evaluation of four different transosseous-equivalent/suture bridge rotator cuff repairs. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011 , 19, 1582-7	5.5	37
262	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	8.4	37
261	A novel model of bone-metastatic prostate cancer in immunocompetent mice. <i>Prostate</i> , 2009 , 69, 1613-23	2.2	36

260	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, 144-53	2.5	36
259	Suture strength and angle of load application in a suture anchor eyelet. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2005 , 21, 1447-51	5.4	35
258	Critical Size Bone Defect Healing Using Collagen-Calcium Phosphate Bone Graft Materials. <i>PLoS ONE</i> , 2017 , 12, e0168883	3.7	34
257	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, 238-41	2.6	34
256	Stress relaxation and creep: viscoelastic properties of common suture materials used for flexor tendon repair. <i>Journal of Hand Surgery</i> , 2008 , 33, 241-6	2.6	34
255	A novel method for measuring medial compartment pressures within the knee joint in-vivo. <i>Journal of Biomechanics</i> , 2003 , 36, 1391-5	2.9	34
254	Surgical management of large rotator cuff tears combined with instability in elite rugby football players. <i>British Journal of Sports Medicine</i> , 2003 , 37, 179-81; discussion 181	10.3	34
253	Bone composite behaviour: effects of mineral-organic bonding. <i>Journal of Materials Science: Materials in Medicine</i> , 1994 , 5, 72-79	4.5	34
252	Cemented fixation with PMMA or Bis-GMA resin hydroxyapatite cement: effect of implant surface roughness. <i>Biomaterials</i> , 2004 , 25, 4929-34	15.6	33
251	Effects of demineralized bone matrix on tendon-bone healing in an intra-articular rodent model. <i>American Journal of Sports Medicine</i> , 2012 , 40, 2365-74	6.8	32
250	In vivo implant fixation of carbon fiber-reinforced PEEK hip prostheses in an ovine model. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 485-92	3.8	31
249	Paracetamol induced skin blood flow and blood pressure changes in febrile intensive care patients: An observational study. <i>Australian Critical Care</i> , 2010 , 23, 208-14	2.9	31
248	Analysis of retrieved hydroxyapatite-coated hip prostheses. <i>Journal of Thermal Spray Technology</i> , 2004 , 13, 190-199	2.5	31
247	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	2.7	30
246	Platelet-rich plasma and bone defect healing. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2614-33	3.9	30
245	Posterolateral spinal fusion in a rabbit model using a collagen-mineral composite bone graft substitute. <i>European Spine Journal</i> , 2009 , 18, 1610-20	2.7	29
244	Infection or allergy in the painful metal-on-metal total hip arthroplasty?. <i>Journal of Arthroplasty</i> , 2010 , 25, 334.e11-6	4.4	29
243	The effect of mitek anchor insertion angle to attachment of FDP avulsion injuries. <i>Journal of Hand Surgery</i> , 2006 , 31, 292-5		29

242	The function of the posterior cruciate ligament in an anteroposterior-gliding rotating platform total knee arthroplasty. <i>Journal of Arthroplasty</i> , 2002 , 17, 484-9	4.4	29
241	Controlled release of platelet-derived growth factor using ethylene vinyl acetate copolymer (EVAc) coated on stainless-steel wires. <i>Biomaterials</i> , 1995 , 16, 1319-25	15.6	29
240	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	2.7	29
239	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, 452-452	2.1	29
238	High Intrinsic Sensitivity Etched Polymer Fiber Bragg Grating Pair for Simultaneous Strain and Temperature Measurements. <i>IEEE Sensors Journal</i> , 2016 , 16, 2453-2459	4	28
237	Wound infusion with local anaesthesia after laparotomy: a randomized controlled trial. <i>ANZ Journal of Surgery</i> , 2010 , 80, 794-801	1	28
236	Recombinant equine growth hormone does not affect the in vitro biomechanical properties of equine superficial digital flexor tendon. <i>Veterinary Surgery</i> , 2002 , 31, 325-30	1.7	28
235	A biomechanical comparison of the Z step-cut and basilar crescentic osteotomies of the first metatarsal. <i>Foot and Ankle International</i> , 2000 , 21, 584-7	3.3	28
234	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, 200-5	2.9	27
233	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, 466-75	5.5	27
232	Intrinsic High-Sensitivity Sensors Based on Etched Single-Mode Polymer Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 604-607	2.2	27
231	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	2.2	27
230	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	2.8	26
229	Comparison of zone II flexor tendon repairs using an in vitro linear cyclic testing protocol. <i>Clinical Biomechanics</i> , 2005 , 20, 718-22	2.2	26
228	The epidemiology of hospitalised wrist fractures in older people, New South Wales, Australia. <i>Bone</i> , 2006 , 39, 1144-1148	4.7	26
227	The influence of design parameters on cortical strain distribution of a cementless titanium femoral stem. <i>Medical Engineering and Physics</i> , 2002 , 24, 109-14	2.4	26
226	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	11.5	26
225	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, 231-42	2.2	25

224	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, 30-9	1.4	25
223	Hydroxyapatite Composite Resin Cement Augmentation of Pedicle Screw Fixation. <i>Clinical Orthopaedics and Related Research</i> , 2003 , 406, 253-261	2.2	25
222	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, 8185-94	15.6	24
221	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, 1000-7	4.4	24
220	Cross-sectional area and strength differences of fiberwire, prolene, and ticron sutures. <i>Journal of Hand Surgery</i> , 2010 , 35, 780-4	2.6	24
219	IGF1R-targeted therapy and its enhancement of doxorubicin chemosensitivity in human osteosarcoma cell lines. <i>Cancer Investigation</i> , 2011 , 29, 521-32	2.1	24
218	The anatomically difficult primary total hip replacement: medium- to long-term results using a cementless odular stem. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2008 , 90, 430-5		24
217	Spinal fusion using an autologous growth factor gel and a porous resorbable ceramic. <i>European Spine Journal</i> , 2004 , 13, 359-66	2.7	24
216	In vitro structural properties of braided tendon grafts. <i>American Journal of Sports Medicine</i> , 2000 , 28, 790-3	6.8	24
215	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	4	23
214	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, 232-40	1.7	23
213	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, 734-41	2.5	23
212	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, 757-65, 765.e1-2	5.4	23
211	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, 320-4	1.7	23
210	The effect of in vitro fluoride ion treatment on the ultrasonic properties of cortical bone. <i>Annals of Biomedical Engineering</i> , 1994 , 22, 404-15	4.7	23
209	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	2.5	23
208	Transdermal fentanyl and its use in ovine surgery. <i>Research in Veterinary Science</i> , 2015 , 100, 252-6	2.5	22
207	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, 361-9	3.6	22

206	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, 859-65	1.2	22
205	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 , 74, 423-8	3.5	22
204	Patterns of failure at the instrument-tissue interface. <i>Journal of Surgical Research</i> , 2000 , 93, 16-20	2.5	22
203	Biomechanical performance of Bankart repairs in a human cadaveric shoulder model. <i>American Journal of Sports Medicine</i> , 1998 , 26, 831-5	6.8	22
202	Effects of a delayed steroid injection on ligament healing using a rabbit medial collateral ligament model. <i>Biomaterials</i> , 1995 , 16, 905-10	15.6	22
201	Does implantation site influence bone ingrowth into 3D-printed porous implants?. <i>Spine Journal</i> , 2019 , 19, 1885-1898	4	21
200	A sheep model for cancellous bone healing. <i>Frontiers in Surgery</i> , 2014 , 1, 37	2.3	21
199	Poor histological healing of a femoral fracture following 12 months of oestrogen deficiency in rats. <i>Osteoporosis International</i> , 2013 , 24, 2581-9	5.3	21
198	Platelet function and constituents of platelet rich plasma. <i>International Journal of Sports Medicine</i> , 2013 , 34, 74-80	3.6	21
197	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 , 86, 74-81	3.5	21
196	Does the sheep mandible relapse following lengthening by distraction osteogenesis?. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2000 , 28, 251-7	3.6	21
195	Development of a Novel Model for the Assessment of Dead-Space Management in Soft Tissue. <i>PLoS ONE</i> , 2015 , 10, e0136514	3.7	21
194	Evaluation of Transbronchial Lung Cryobiopsy Size and Freezing Time: A Prognostic Animal Study. <i>Respiration</i> , 2016 , 92, 34-9	3.7	21
193	Novel surface modifications of carbon fiber-reinforced polyetheretherketone hip stem in an ovine model. <i>Artificial Organs</i> , 2012 , 36, 62-70	2.6	20
192	The effect of sterilization on the dynamic mechanical properties of paired rabbit cortical bone. <i>Journal of Biomechanics</i> , 2013 , 46, 1670-5	2.9	20
191	Tibiofemoral contact areas and pressures in six high flexion knees. <i>International Orthopaedics</i> , 2009 , 33, 403-6	3.8	20
190	Biomechanical evaluation of shape-memory alloy staples for internal fixation-an in vitro study. <i>Journal of Experimental Orthopaedics</i> , 2016 , 3, 19	2.3	20
189	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, 172-6	1	19

188	Mechanisms for pumping fluid through cementless acetabular components with holes. <i>Journal of Arthroplasty</i> , 2005 , 20, 1042-8	4.4	19
187	Electrokinetic behavior of intact wet bone: compartmental model. <i>Journal of Orthopaedic Research</i> , 1991 , 9, 683-92	3.8	19
186	The effect of supercritical carbon dioxide sterilization on the anisotropy of bovine cortical bone. <i>Cell and Tissue Banking</i> , 2015 , 16, 109-21	2.2	18
185	Accelerometers for objective evaluation of physical activity following spine surgery. <i>Journal of Clinical Neuroscience</i> , 2016 , 26, 14-8	2.2	18
184	Photoelastic comparison of strains in the underlying glenoid with metal-backed and all-polyethylene implants. <i>Journal of Shoulder and Elbow Surgery</i> , 2008 , 17, 779-83	4.3	18
183	Flexor tendon pulley V-Y plasty: an alternative to pulley venting or resection. <i>Journal of Hand Surgery</i> , 2006 , 31, 133-7		18
182	Mechanical properties of the rotator cuff: response to cyclic loading at varying abduction angles. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2003 , 11, 389-92	5.5	18
181	In vitro assessment of proximal polyethylene contact surface areas and stresses in mobile bearing knees. <i>Medical Engineering and Physics</i> , 2003 , 25, 437-43	2.4	18
180	Ion concentration effects on bone streaming potentials and zeta potentials. <i>Biomaterials</i> , 1993 , 14, 331-6	5.6	18
179	Ovine model for critical-size tibial segmental defects. <i>Comparative Medicine</i> , 2014 , 64, 377-85	1.6	18
178	3-dimensional printing for anterior cervical surgery: a review. <i>Journal of Spine Surgery</i> , 2018 , 4, 757-769	2.5	18
177	Biomechanics of the knee extensor mechanism and its relationship to patella tendinopathy: A review. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 3105-3112	3.8	17
176	Anatomic and biomechanical study of the biceps vinculum, a structure within the biceps sheath. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2009 , 25, 515-21	5.4	17
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