

Geoff Richards

List of Publications by Year in descending order

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Version: 2024-02-01

290
papers

13,570
citations

38738

50
h-index

45310

90
g-index

296
all docs

296
docs citations

296
times ranked

16150
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal models for implant biomaterial research in bone: A review. , 2007, 13, 1-10.		962
2	Role and regulation of RUNX2 in osteogenesis. , 2014, 28, 269-286.		452
3	Fracture-related infection: A consensus on definition from an international expert group. Injury, 2018, 49, 505-510.	1.7	440
4	Nanotopographical modification: a regulator of cellular function through focal adhesions. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 619-633.	3.3	426
5	In search of an osteoblast cell model for in vitro research. , 2012, 24, 1-17.		399
6	Osteogenic magnesium incorporated into PLGA/TCP porous scaffold by 3D printing for repairing challenging bone defect. Biomaterials, 2019, 197, 207-219.	11.4	348
7	Staphylococcus aureus adhesion to titanium oxide surfaces coated with non-functionalized and peptide-functionalized poly(L-lysine)-grafted-poly(ethylene glycol) copolymers. Biomaterials, 2004, 25, 4135-4148.	11.4	347
8	Infection after fracture fixation: Current surgical and microbiological concepts. Injury, 2018, 49, 511-522.	1.7	336
9	Staphylococci and implant surfaces: a review. Injury, 2006, 37, S3-S14.	1.7	325
10	Concise Review: Bone Marrow-Derived Mesenchymal Stem Cells Change Phenotype Following In Vitro Culture: Implications for Basic Research and the Clinic. Stem Cells, 2014, 32, 1713-1723.	3.2	262
11	The use of nanoscale topography to modulate the dynamics of adhesion formation in primary osteoblasts and ERK/MAPK signalling in STRO-1+ enriched skeletal stem cells. Biomaterials, 2009, 30, 5094-5103.	11.4	248
12	An introduction to staphylococcus aureus, and techniques for identifying and quantifying s. aureus adhesins in relation to adhesion to biomaterials: review. , 2002, 4, 39-60.		187
13	A phenotypic comparison of osteoblast cell lines versus human primary osteoblasts for biomaterials testing. Journal of Biomedical Materials Research - Part A, 2014, 102, 2636-2643.	4.0	173
14	Interactions with nanoscale topography: Adhesion quantification and signal transduction in cells of osteogenic and multipotent lineage. Journal of Biomedical Materials Research - Part A, 2009, 91A, 195-208.	4.0	160
15	Antimicrobial delivery systems for local infection prophylaxis in orthopedic- and trauma surgery. Biomaterials, 2015, 52, 113-125.	11.4	160
16	Adhesion formation of primary human osteoblasts and the functional response of mesenchymal stem cells to 330-500nm deep microgrooves. Journal of the Royal Society Interface, 2008, 5, 1231-1242.	3.4	156
17	Surface-enrichment with hydroxyapatite nanoparticles in stereolithography-fabricated composite polymer scaffolds promotes bone repair. Acta Biomaterialia, 2017, 54, 386-398.	8.3	151
18	Pathogenic Mechanisms and Host Interactions in Staphylococcus epidermidis Device-Related Infection. Frontiers in Microbiology, 2017, 8, 1401.	3.5	149

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19	General treatment principles for fracture-related infection: recommendations from an international expert group. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, 140, 1013-1027.	2.4	141
20	Dual-functional 3D-printed composite scaffold for inhibiting bacterial infection and promoting bone regeneration in infected bone defect models. <i>Acta Biomaterialia</i> , 2018, 79, 265-275.	8.3	134
21	The effects of nanoscale pits on primary human osteoblast adhesion formation and cellular spreading. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 399-404.	3.6	132
22	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. <i>EFORT Open Reviews</i> , 2016, 1, 89-99.	4.1	131
23	Osseointegration of machined, injection moulded and oxygen plasma modified PEEK implants in a sheep model. <i>Biomaterials</i> , 2014, 35, 3717-3728.	11.4	130
24	Anti-infective efficacy, cytocompatibility and biocompatibility of a 3D-printed osteoconductive composite scaffold functionalized with quaternized chitosan. <i>Acta Biomaterialia</i> , 2016, 46, 112-128.	8.3	128
25	Analysis of Ehb, a 1.1-Megadalton Cell Wall-Associated Fibronectin-Binding Protein of <i>Staphylococcus aureus</i> . <i>Infection and Immunity</i> , 2002, 70, 6680-6687.	2.2	127
26	Non-union bone fractures. <i>Nature Reviews Disease Primers</i> , 2021, 7, 57.	30.5	122
27	Reduced medical infection related bacterial strains adhesion on bioactive RGD modified titanium surfaces: A first step toward cell selective surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 425-435.	4.0	118
28	<i>Staphylococcus aureus</i> adhesion to different treated titanium surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 311-314.	3.6	107
29	Regulation of implant surface cell adhesion: characterization and quantification of S-phase primary osteoblast adhesions on biomimetic nanoscale substrates. <i>Journal of Orthopaedic Research</i> , 2007, 25, 273-282.	2.3	107
30	Fibroblast and osteoblast adhesion and morphology on calcium phosphate surfaces. , 2002, 4, 1-17.		106
31	The use of titanium and stainless steel in fracture fixation. <i>Expert Review of Medical Devices</i> , 2010, 7, 843-853.	2.8	103
32	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. <i>Theranostics</i> , 2021, 11, 27-47.	10.0	101
33	Bacteria and cell cytocompatibility studies on coated medical grade titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 50-58.	4.0	96
34	Influence of material on the development of device-associated infections. <i>Clinical Microbiology and Infection</i> , 2012, 18, 1162-1167.	6.0	94
35	A combined biomaterial and cellular approach for annulus fibrosus rupture repair. <i>Biomaterials</i> , 2015, 42, 11-19.	11.4	91
36	Focal adhesion quantification - A new assay of material biocompatibility? : Review. , 2005, 9, 85-96.		86

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37	Coating of carbon fiber-reinforced polyetheretherketone implants with titanium to improve bone apposition. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 591-598.	3.4	82
38	<i>Staphylococcus aureus</i> adhesion to standard micro-rough and electropolished implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1151-1156.	3.6	81
39	Immunohistochemistry of matrix markers in Technovit 9100 New-embedded undecalcified bone sections. , 2003, 6, 57-71.		80
40	3D scaffolds co-seeded with human endothelial progenitor and mesenchymal stem cells: Evidence of prevascularisation within 7 days. , 2013, 26, 59-65.		80
41	Sacral Bone Mass Distribution Assessed by Averaged Three-Dimensional CT Models. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 584-590.	3.0	77
42	Biomechanical performance of different cable and wire cerclage configurations. <i>International Orthopaedics</i> , 2013, 37, 125-130.	1.9	76
43	Direct Cell-Cell Contact between Mesenchymal Stem Cells and Endothelial Progenitor Cells Induces a Pericyte-Like Phenotype In Vitro. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	75
44	Drug delivery systems functionalized with bone mineral seeking agents for bone targeted therapeutics. <i>Journal of Controlled Release</i> , 2018, 269, 88-99.	9.9	74
45	The influence of biomechanical stability on bone healing and fracture-related infection: the legacy of Stephan Perren.. <i>Injury</i> , 2021, 52, 43-52.	1.7	72
46	Bacterial adhesion to orthopaedic implant materials and a novel oxygen plasma modified PEEK surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 213-222.	5.0	68
47	Definition of infection after fracture fixation: A systematic review of randomized controlled trials to evaluate current practice. <i>Injury</i> , 2018, 49, 497-504.	1.7	66
48	Mechanically loaded ex vivo bone culture system 'Zetos': Systems and culture preparation. , 2006, 11, 57-75.		64
49	A doxycycline-loaded polymer-lipid encapsulation matrix coating for the prevention of implant-related osteomyelitis due to doxycycline-resistant methicillin-resistant <i>Staphylococcus aureus</i> . <i>Journal of Controlled Release</i> , 2015, 209, 47-56.	9.9	63
50	Infections associated with mesh repairs of abdominal wall hernias: Are antimicrobial biomaterials the longed-for solution?. <i>Biomaterials</i> , 2018, 167, 15-31.	11.4	61
51	Current Concepts of Osteomyelitis. <i>American Journal of Pathology</i> , 2020, 190, 1151-1163.	3.8	61
52	Injectable gentamicin-loaded thermo-responsive hyaluronic acid derivative prevents infection in a rabbit model. <i>Acta Biomaterialia</i> , 2016, 43, 185-194.	8.3	60
53	Antibiotic stability over six weeks in aqueous solution at body temperature with and without heat treatment that mimics the curing of bone cement. <i>Bone and Joint Research</i> , 2017, 6, 296-306.	3.6	58
54	Antibiotic Resistance of Commensal <i>Staphylococcus aureus</i> and Coagulase-Negative Staphylococci in an International Cohort of Surgeons: A Prospective Point-Prevalence Study. <i>PLoS ONE</i> , 2016, 11, e0148437.	2.5	58

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55	Innovative Tissue-Engineered Strategies for Osteochondral Defect Repair and Regeneration: Current Progress and Challenges. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001008.	7.6	57
56	Infection in fracture fixation: Can we influence infection rates through implant design?. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1031-1035.	3.6	56
57	Phenotypic and genotypic characterisation of <i>Staphylococcus aureus</i> causing musculoskeletal infections. <i>International Journal of Medical Microbiology</i> , 2014, 304, 565-576.	3.6	56
58	Comparative Genomics Study of <i>Staphylococcus epidermidis</i> Isolates from Orthopedic-Device-Related Infections Correlated with Patient Outcome. <i>Journal of Clinical Microbiology</i> , 2017, 55, 3089-3103.	3.9	55
59	An intervertebral disc whole organ culture system to investigate proinflammatory and degenerative disc disease condition. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e2051-e2061.	2.7	55
60	3D statistical modeling techniques to investigate the anatomy of the sacrum, its bone mass distribution, and the trans-sacral corridors. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1543-1548.	2.3	54
61	Vancomycin displays time-dependent eradication of mature <i>Staphylococcus aureus</i> biofilms. <i>Journal of Orthopaedic Research</i> , 2017, 35, 381-388.	2.3	54
62	Challenges in linking preclinical anti-microbial research strategies with clinical outcomes for device-associated infections. , 2014, 28, 112-128.		51
63	Microtopography of metal surfaces influence fibroblast growth by modifying cell shape, cytoskeleton, and adhesion. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1523-1533.	2.3	50
64	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. <i>Biomaterials</i> , 2016, 84, 196-209.	11.4	50
65	A comparison of non-radioactive methods for assessing viability in ex vivo cultured cancellous bone: Technical Note. , 2006, 12, 16-25.		50
66	Adult human bone cells from jaw bones cultured on plasma-sprayed or polished surfaces of titanium or hydroxylapatite discs. <i>Journal of Materials Science: Materials in Medicine</i> , 1996, 7, 21-28.	3.6	49
67	Potential of polymethylmethacrylate cement-augmented helical proximal femoral nail antirotation blades to improve implant stability—a biomechanical investigation in human cadaveric femoral heads. <i>Journal of Trauma</i> , 2012, 72, E54-E59.	2.3	49
68	Optimization of electrospray fabrication of stem cell-embedded alginate-gelatin microspheres and their assembly in 3D-printed poly(μ -caprolactone) scaffold for cartilage tissue engineering. <i>Journal of Orthopaedic Translation</i> , 2019, 18, 128-141.	3.9	49
69	Surfaces to control tissue adhesion for osteosynthesis with metal implants: <i>in vitro</i> and <i>in vivo</i> studies to bring solutions to the patient. <i>Expert Review of Medical Devices</i> , 2010, 7, 131-142.	2.8	47
70	The effect of surface roughness on fibroblast adhesion <i>in vitro</i> . <i>Injury</i> , 1996, 27, S/C38-S/C43.	1.7	46
71	Biomechanical evaluation of bone-cement augmented Proximal Femoral Nail Antirotation blades in a polyurethane foam model with low density. <i>Clinical Biomechanics</i> , 2012, 27, 71-76.	1.2	46
72	Backscattered electron imaging of the undersurface of resin-embedded cells by field-emission scanning electron microscopy. <i>Journal of Microscopy</i> , 1995, 177, 43-52.	1.8	45

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73	Human fibroblast reactions to standard and electropolished titanium and Ti-6Al-7Nb, and electropolished stainless steel. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 541-555.	4.0	45
74	Monitoring immune responses in a mouse model of fracture fixation with and without <i>Staphylococcus aureus</i> osteomyelitis. <i>Bone</i> , 2016, 83, 82-92.	2.9	45
75	Heterodimeric BMP α 2/7 for nucleus pulposus regenerationâ€”In vitro and ex vivo studies. <i>Journal of Orthopaedic Research</i> , 2017, 35, 51-60.	2.3	45
76	Biomechanical comparison of augmented versus non-augmented sacroiliac screws in a novel hemi-pelvis test model. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1485-1493.	2.3	45
77	A biomechanical study on proximal plate fixation techniques in periprosthetic femur fractures. <i>Injury</i> , 2014, 45, S71-S75.	1.7	44
78	Higher stability and more predictive fixation with the Femoral Neck System versus Hansson Pins in femoral neck fractures Pauwels II. <i>Journal of Orthopaedic Translation</i> , 2020, 24, 88-95.	3.9	44
79	The role of surface microtopography in the modulation of osteoblast differentiation. , 2010, 20, 98-108.		43
80	IMMUNOGOLD LABELLING OF FIBROBLAST FOCAL ADHESION SITES VISUALISED IN FIXED MATERIAL USING SCANNING ELECTRON MICROSCOPY, AND LIVING, USING INTERNAL REFLECTION MICROSCOPY. <i>Cell Biology International</i> , 2001, 25, 1237-1249.	3.0	42
81	Underneath the cerclage: an ex vivo study on the cerclage-bone interface mechanics. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2012, 132, 1467-1472.	2.4	42
82	Platelet-rich plasma induces annulus fibrosus cell proliferation and matrix production. <i>European Spine Journal</i> , 2014, 23, 745-753.	2.2	42
83	Stress-shielding induced bone remodeling in cementless shoulder resurfacing arthroplasty: a finite element analysis and in vivo results. <i>Journal of Biomechanics</i> , 2014, 47, 3509-3516.	2.1	42
84	Local application of a gentamicin-loaded thermo-responsive hydrogel allows for fracture healing upon clearance of a high <i>Staphylococcus aureus</i> load in a rabbit model. , 0, 35, 151-164.		41
85	Surface polishing positively influences ease of plate and screw removal. , 2010, 19, 117-126.		41
86	Pellet culture model for human primary osteoblasts. , 2010, 20, 149-161.		41
87	A rabbit humerus model of plating and nailing osteosynthesis with and without <i>Staphylococcus aureus</i> osteomyelitis. , 2015, 30, 148-162.		41
88	Freeze-substitution of rabbit tibial articular cartilage reveals that radial zone collagen fibres are tubules. <i>Journal of Microscopy</i> , 2000, 197, 159-172.	1.8	40
89	Sound-induced morphogenesis of multicellular systems for rapid orchestration of vascular networks. <i>Biofabrication</i> , 2021, 13, 015004.	7.1	40
90	Biofilm formation increases treatment failure in <i>Staphylococcus epidermidis</i> device-related osteomyelitis of the lower extremity in human patients. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1905-1913.	2.3	39

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91	Recommendations for design and conduct of preclinical in vivo studies of orthopedic device-related infection. <i>Journal of Orthopaedic Research</i> , 2019, 37, 271-287.	2.3	38
92	Fracture-related infection: current methods for prevention and treatment. <i>Expert Review of Anti-Infective Therapy</i> , 2020, 18, 307-321.	4.4	38
93	Effect of surface topography on removal of cortical bone screws in a novel sheep model. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1377-1383.	2.3	36
94	The locking attachment plate for proximal fixation of periprosthetic femur fractures—a biomechanical comparison of two techniques. <i>International Orthopaedics</i> , 2012, 36, 1915-1921.	1.9	36
95	Fragility fractures of the sacrum occur in elderly patients with severe loss of sacral bone mass. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2018, 138, 971-977.	2.4	36
96	Bacterial osteomyelitis in veterinary orthopaedics: Pathophysiology, clinical presentation and advances in treatment across multiple species. <i>Veterinary Journal</i> , 2019, 250, 44-54.	1.7	36
97	Local Bacteriophage Delivery for Treatment and Prevention of Bacterial Infections. <i>Frontiers in Microbiology</i> , 2020, 11, 538060.	3.5	36
98	MEASUREMENT OF FIBROBLAST AND BACTERIAL DETACHMENT FROM BIOMATERIALS USING JET IMPINGEMENT. <i>Cell Biology International</i> , 2001, 25, 289-307.	3.0	35
99	Influence of Material and Microtopography on the Development of Local Infection <i>in vivo</i> : Experimental Investigation in Rabbits. <i>International Journal of Artificial Organs</i> , 2009, 32, 663-670.	1.4	35
100	Advances in Biomaterials and Surface Technologies. <i>Journal of Orthopaedic Trauma</i> , 2012, 26, 703-707.	1.4	35
101	The influence of the Peroneus Longus muscle on the foot under axial loading: A CT evaluated dynamic cadaveric model study. <i>Clinical Biomechanics</i> , 2016, 34, 7-11.	1.2	35
102	Titanium and steel fracture fixation plates with different surface topographies: Influence on infection rate in a rabbit fracture model. <i>Injury</i> , 2016, 47, 633-639.	1.7	35
103	The Selection of Appropriate Bacterial Strains in Preclinical Evaluation of Infection-Resistant Biomaterials. <i>International Journal of Artificial Organs</i> , 2008, 31, 841-847.	1.4	34
104	Morphometry of the sacrum and its implication on trans-sacral corridors using a computed tomography data-based three-dimensional statistical model. <i>Spine Journal</i> , 2017, 17, 1141-1147.	1.3	34
105	Virtual bite registration using intraoral digital scanning, CT and CBCT: In vitro evaluation of a new method and its implication for orthognathic surgery. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 1194-1200.	1.7	33
106	Critical dimensions of trans-sacral corridors assessed by 3D CT models: Relevance for implant positioning in fractures of the sacrum. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2577-2584.	2.3	33
107	Deformation of Chondrocytes in Articular Cartilage under Compressive Load: A Morphological Study. <i>Cells Tissues Organs</i> , 2003, 175, 133-139.	2.3	32
108	In Vivo Evaluation of the Effect of Intramedullary Nail Microtopography on the Development of Local Infection in Rabbits. <i>International Journal of Artificial Organs</i> , 2010, 33, 667-675.	1.4	32

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109	Implant Augmentation. <i>Medicine (United States)</i> , 2014, 93, e166.	1.0	32
110	<i>In Vivo</i> MicroCT Monitoring of Osteomyelitis in a Rat Model. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	32
111	Poly(trimethylene carbonate) and nano-hydroxyapatite porous scaffolds manufactured by stereolithography. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1219-1225.	3.2	32
112	Late screw-related complications in locking plating of proximal humerus fractures: A systematic review. <i>Injury</i> , 2019, 50, 2176-2195.	1.7	32
113	International survey among orthopaedic trauma surgeons: Lack of a definition of fracture-related infection. <i>Injury</i> , 2018, 49, 491-496.	1.7	31
114	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. <i>Cells</i> , 2021, 10, 650.	4.1	31
115	Intervertebral disc organ culture for the investigation of disc pathology and regeneration – benefits, limitations, and future directions of bioreactors. <i>Connective Tissue Research</i> , 2020, 61, 304-321.	2.3	30
116	Novel aspects to the structure of rabbit articular cartilage. , 2002, 4, 18-29.		30
117	An in vivo evaluation of surface polishing of TAN intermedullary nails for ease of removal. , 2009, 18, 15-26.		30
118	Biomechanical comparison of plate and screw fixation in anterior pelvic ring fractures with low bone mineral density. <i>Injury</i> , 2016, 47, 1456-1460.	1.7	29
119	Microstructural Parameters of Bone Evaluated Using HR-pQCT Correlate with the DXA-Derived Cortical Index and the Trabecular Bone Score in a Cohort of Randomly Selected Premenopausal Women. <i>PLoS ONE</i> , 2014, 9, e88946.	2.5	29
120	Microjet impingement followed by scanning electron microscopy as a qualitative technique to compare cellular adhesion to various biomaterials. <i>Cell Biology International</i> , 1995, 19, 1015-1024.	3.0	28
121	Assessment of the cytocompatibility of different coated titanium surfaces to fibroblasts and osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 73A, 12-20.	4.0	28
122	What is the underlying mechanism for the failure mode observed in the proximal femoral locking compression plate? A biomechanical study. <i>Injury</i> , 2015, 46, 1483-1490.	1.7	28
123	Computed tomography-based virtual fracture reduction techniques in bimaxillary fractures. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 177-185.	1.7	28
124	Variation in cell-substratum adhesion in relation to cell cycle phases. <i>Experimental Cell Research</i> , 2004, 293, 58-67.	2.6	27
125	Focal adhesion interactions with topographical structures: a novel method for immuno-SEM labelling of focal adhesions in S-phase cells. <i>Journal of Microscopy</i> , 2008, 231, 28-37.	1.8	27
126	A Hyaluronic Acid Hydrogel Loaded with Gentamicin and Vancomycin Successfully Eradicates Chronic Methicillin-Resistant <i>Staphylococcus aureus</i> Orthopedic Infection in a Sheep Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	27

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127	In vitro experiments with primary mammalian cells: To Pool or not to Pool?. , 2012, 24, i-ii.		27
128	Influence of implant properties and local delivery systems on the outcome in operative fracture care. Injury, 2016, 47, 595-604.	1.7	26
129	The role of a small posterior malleolar fragment in trimalleolar fractures. Bone and Joint Journal, 2018, 100-B, 95-100.	4.4	26
130	Importance of locking plate positioning in proximal humeral fractures as predicted by computer simulations. Journal of Orthopaedic Research, 2019, 37, 957-964.	2.3	26
131	Preclinical ex-vivo Testing of Anti-inflammatory Drugs in a Bovine Intervertebral Degenerative Disc Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 583.	4.1	26
132	Fracture-related infection. Bone and Joint Research, 2021, 10, 351-353.	3.6	25
133	The influence of screw length on predicted cut-out failures for proximal humeral fracture fixations predicted by finite element simulations. Archives of Orthopaedic and Trauma Surgery, 2019, 139, 1069-1074.	2.4	24
134	Smart implants in fracture care – only buzzword or real opportunity?. Injury, 2021, 52, S101-S105.	1.7	24
135	Histomorphometric Assessment of Cancellous and Cortical Bone Material Distribution in the Proximal Humerus of Normal and Osteoporotic Individuals. Medicine (United States), 2015, 94, e2043.	1.0	23
136	Biomechanical investigation of four different fixation techniques in sacrum Denis type II fracture with low bone mineral density. Journal of Orthopaedic Research, 2018, 36, 1624-1629.	2.3	23
137	Propionibacterium acnes and Staphylococcus lugdunensis Cause Pyogenic Osteomyelitis in an Intramedullary Nail Model in Rabbits. Journal of Clinical Microbiology, 2014, 52, 1595-1606.	3.9	22
138	Screw configuration in proximal humerus plating has a significant impact on fixation failure risk predicted by finite element models. Journal of Shoulder and Elbow Surgery, 2019, 28, 1816-1823.	2.6	22
139	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. Cartilage, 2020, 11, 169-180.	2.7	22
140	Is surface chemical composition important for orthopaedic implant materials?. Journal of Materials Science: Materials in Medicine, 2007, 18, 405-413.	3.6	21
141	Prediction of bone strength at the distal tibia by HR-pQCT and DXA. Bone, 2012, 50, 296-300.	2.9	21
142	High-Resolution Tomography-Based Quantification of Cortical Porosity and Cortical Thickness at the Surgical Neck of the Humerus During Aging. Calcified Tissue International, 2017, 101, 271-279.	3.1	21
143	Intraoperative loading of calcium phosphate-coated implants with gentamicin prevents experimental Staphylococcus aureus infection in vivo. PLoS ONE, 2019, 14, e0210402.	2.5	21
144	One strike loading organ culture model to investigate the post-traumatic disc degenerative condition. Journal of Orthopaedic Translation, 2021, 26, 141-150.	3.9	21

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145	Reinforcing the role of the conventional C-arm - a novel method for simplified distal interlocking. BMC Musculoskeletal Disorders, 2012, 13, 8.	1.9	20
146	Cement augmentation of hip implants in osteoporotic bone: How much cement is needed and where should it go?. Journal of Orthopaedic Research, 2014, 32, 362-368.	2.3	20
147	The calcification potential of human MSCs can be enhanced by interleukin-1 β in osteogenic medium. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 564-571.	2.7	20
148	Surgical performance when inserting non-locking screws: a systematic review. EFORT Open Reviews, 2020, 5, 26-36.	4.1	20
149	Biomechanical Comparison of Five Fixation Techniques for Unstable Fragility Fractures of the Pelvic Ring. Journal of Clinical Medicine, 2021, 10, 2326.	2.4	20
150	Microwave-enhanced fixation of rabbit articular cartilage. Journal of Microscopy, 1996, 181, 269-276.	1.8	19
151	Innovating in the medical device industry – challenges & opportunities ESB 2015 translational research symposium. Journal of Materials Science: Materials in Medicine, 2016, 27, 144.	3.6	19
152	Is augmented LISS plating biomechanically advantageous over conventional LISS plating in unstable osteoporotic distal femoral fractures?. Journal of Orthopaedic Research, 2018, 36, 2604-2611.	2.3	19
153	Development of bone seeker-functionalised microspheres as a targeted local antibiotic delivery system for bone infections. Journal of Orthopaedic Translation, 2020, 21, 136-145.	3.9	19
154	Gut microbial-derived short-chain fatty acids and bone: a potential role in fracture healing. , 2021, 41, 454-470.		19
155	TGF β ₃ and loading increases osteocyte survival in human cancellous bone cultured <i>ex vivo</i> . Cell Biochemistry and Function, 2009, 27, 23-29.	2.9	18
156	Bacterial Adhesion and Biomaterial Surfaces. , 2011, , 75-100.		18
157	Analysis of sacro-iliac joint screw fixation: does quality of reduction and screw orientation influence joint stability? A biomechanical study. International Orthopaedics, 2016, 40, 1537-1543.	1.9	18
158	Biomechanical Analysis of the Proximal Femoral Locking Compression Plate: Do Quality of Reduction and Screw Orientation Influence Construct Stability?. Journal of Orthopaedic Trauma, 2018, 32, 67-74.	1.4	18
159	Single-stage revision of MRSA orthopedic device-related infection in sheep with an antibiotic-loaded hydrogel. Journal of Orthopaedic Research, 2021, 39, 438-448.	2.3	18
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