Geoff Richards

List of Publications by Year
in descending order

290 papers	13,570 citations	44444 50 h-index	51423 90 g-index
296 all docs	296 docs citations	296 times ranked	17511 citing authors

#	Article	IF	Citations
1	One size may not fit all: patient-specific computational optimization of locking plates for improved proximal humerus fracture fixation. Journal of Shoulder and Elbow Surgery, 2022, 31, 192-200.	1.2	9
2	A single-cell transcriptome of mesenchymal stromal cells to fabricate bioactive hydroxyapatite materials for bone regeneration. Bioactive Materials, 2022, 9, 281-298.	8.6	12
3	Biomechanical analysis of recently released cephalomedullary nails for trochanteric femoral fracture fixation in a human cadaveric model. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 3787-3796.	1.3	12
4	Medial talar resection: how much remains stable?. European Journal of Trauma and Emergency Surgery, 2022, , 1.	0.8	0
5	Percutaneous fixation of intraarticular joint-depression calcaneal fractures with different screw configurations â€“ a biomechanical human cadaveric analysis. European Journal of Trauma and Emergency Surgery, 2022, 48, 3305-3315.	0.8	4
6	Cartilage decisively shapes the glenoid concavity and contributes significantly to shoulder stability. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 3626-3633.	2.3	4
7	An Antibiotic-Loaded Hydrogel Demonstrates Efficacy as Prophylaxis and Treatment in a Large Animal Model of Orthopaedic Device-Related Infection. Frontiers in Cellular and Infection Microbiology, 2022, 12, 826392.	1.8	4
8	Fractographic analysis of two different plate designs used for orthopaedic trauma surgery. Engineering Failure Analysis, 2022, 139, 106440.	1.8	2
9	Comminuted Intraarticular Calcaneal Fractures: Multiplanar VA Locked Plating And Interlocked Nailing Incorporate Longitudinal Strut And Provide Superior Stability â€“ A Biomechanical Cadaveric Study. Injury, 2022, , .	0.7	0
10	Effect of weightbearing and foot positioning on 3D distal tibiofibular joint parameters. Scientific Reports, 2022, 12, .	1.6	3
11	Continuous Implant Load Monitoring to Assess Bone Healing Statusâ€”Evidence from Animal Testing. Medicina (Lithuania), 2022, 58, 858.	0.8	14
12	Continuous Rod Load Monitoring to Assess Spinal Fusion Statusâ€“Pilot In Vivo Data in Sheep. Medicina (Lithuania), 2022, 58, 899.	0.8	6
13	Neoepitope fragments as biomarkers for different phenotypes of intervertebral disc degeneration. JOR Spine, 2022, 5, .	1.5	2
14	In vivo test of a radiographyâ€based navigation system for control of derotational osteotomies. Journal of Orthopaedic Research, 2021, 39, 130-135.	1.2	2
15	The influence of biomechanical stability on bone healing and fracture-related infection: the legacy of Stephan Perren.. Injury, 2021, 52, 43-52.	0.7	72
16	Smart implants in fracture care â€“ only buzzword or real opportunity?. Injury, 2021, 52, S101-S105.	0.7	24
17	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. Theranostics, 2021, 11, 27-47.	4.6	101
18	Cortical parameters predict bone strength at the tibial diaphysis, but are underestimated by HRâ€pQCT and Î¼CT compared to histomorphometry. Journal of Anatomy, 2021, 238, 669-678.	0.9	4

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19	One strike loading organ culture model to investigate the post-traumatic disc degenerative condition. Journal of Orthopaedic Translation, 2021, 26, 141-150.	1.9	21
20	Impact of low bone mass and antiresorptive therapy on antibiotic efficacy in a rat model of orthopedic deviceâ€related infection. Journal of Orthopaedic Research, 2021, 39, 415-425.	1.2	8
21	Singleâ€stage revision of MRSA orthopedic deviceâ€related infection in sheep with an antibioticâ€loaded hydrogel. Journal of Orthopaedic Research, 2021, 39, 438-448.	1.2	18
22	Screwâ€inâ€screw fixation of fragility sacrum fractures provides high stability without looseningâ€"biomechanical evaluation of a new concept. Journal of Orthopaedic Research, 2021, 39, 761-770.	1.2	11
23	Biomechanical analysis of periâ€'implant fractures in short versus long cephalomedullary implants following pertrochanteric fracture consolidation. Injury, 2021, 52, 60-65.	0.7	5
24	Antibiofilm efficacy of focused high-energy extracorporeal shockwaves and antibiotics in vitro. Bone and Joint Research, 2021, 10, 77-84.	1.3	13
25	An Exopolysaccharide Produced by Bifidobacterium longum 35624Â® Inhibits Osteoclast Formation via a TLR2-Dependent Mechanism. Calcified Tissue International, 2021, 108, 654-666.	1.5	17
26	Angiotensin II Type 1 Receptor Antagonist Losartan Inhibits TNF-Î±-Induced Inflammation and Degeneration Processes in Human Nucleus Pulposus Cells. Applied Sciences (Switzerland), 2021, 11, 417.	1.3	2
27	A Proinflammatory, Degenerative Organ Culture Model to Simulate Early-Stage Intervertebral Disc Disease.. Journal of Visualized Experiments, 2021, , .	0.2	4
28	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. Cells, 2021, 10, 650.	1.8	31
29	Is Bridge Plating of Comminuted Humeral Shaft Fractures Advantageous When Using Compression Plates with Three versus Two Screws per Fragment? A Biomechanical Cadaveric Study. BioMed Research International, 2021, 2021, 1-10.	0.9	3
30	Humanized Mice Exhibit Exacerbated Abscess Formation and Osteolysis During the Establishment of Implant-Associated Staphylococcus aureus Osteomyelitis. Frontiers in Immunology, 2021, 12, 651515.	2.2	14
31	A Hyaluronic Acid Hydrogel Loaded with Gentamicin and Vancomycin Successfully Eradicates Chronic Methicillin-Resistant Staphylococcus aureus Orthopedic Infection in a Sheep Model. Antimicrobial Agents and Chemotherapy, 2021, 65, .	1.4	27
32	Generic Implant Positioning Technology Based on Hole Projections in X-Ray Images. Journal of Medical Devices, Transactions of the ASME, 2021, 15, 025002.	0.4	5
33	3D computational anatomy of the scaphoid and its waist for use in fracture treatment. Journal of Orthopaedic Surgery and Research, 2021, 16, 216.	0.9	7
34	Gut microbial-derived short-chain fatty acids and bone: a potential role in fracture healing. , 2021, 41, 454-470.		19
35	Transcriptional profiling of intervertebral disc in a postâ€traumatic early degeneration organ culture model. JOR Spine, 2021, 4, e1146.	1.5	4
36	Experimental and numerical investigation of secondary screw perforation in the human proximal humerus. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104344.	1.5	7

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37	Biomechanical Comparison of Five Fixation Techniques for Unstable Fragility Fractures of the Pelvic Ring. Journal of Clinical Medicine, 2021, 10, 2326.	1.0	20
38	Fracture-related infection. Bone and Joint Research, 2021, 10, 351-353.	1.3	25
39	A murine Staphylococcus aureus fracture-related infection model characterised by fracture non-union, staphylococcal abscess communities and myeloid-derived suppressor cells. , 2021, 41, 774-792.		9
40	The non-steroidal anti-inflammatory drug carprofen negatively impacts new bone formation and antibiotic efficacy in a rat model of orthopaedic-device-related infection. , 2021, 41, 739-755.		8
41	3D geometry of femoral reaming for bone graft harvesting. Scientific Reports, 2021, 11, 17153.	1.6	2
42	Non-union bone fractures. Nature Reviews Disease Primers, 2021, 7, 57.	18.1	122
43	Anatomical evaluation of the transpubic screw corridor based on a 3D statistical model of the pelvic ring. Scientific Reports, 2021, 11, 16677.	1.6	2
44	Titanium Wear Particles Exacerbate S. epidermidis-Induced Implant-Related Osteolysis and Decrease Efficacy of Antibiotic Therapy. Microorganisms, 2021, 9, 1945.	1.6	1
45	An Enzybiotic Regimen for the Treatment of Methicillin-Resistant Staphylococcus aureus Orthopaedic Device-Related Infection. Antibiotics, 2021, 10, 1186.	1.5	6
46	Fracture biomechanics influence local and systemic immune responses in a murine fracture-related infection model. Biology Open, 2021, 10, .	0.6	6
47	Sound-induced morphogenesis of multicellular systems for rapid orchestration of vascular networks. Biofabrication, 2021, 13, 015004.	3.7	40
48	Screw tightness and stripping rates vary between biomechanical researchers and practicing orthopaedic surgeons. Journal of Orthopaedic Surgery and Research, 2021, 16, 642.	0.9	3
49	Is Anterior Plating Superior to the Bilateral Use of Retrograde Transpubic Screws for Treatment of Straddle Pelvic Ring Fractures? A Biomechanical Investigation. Journal of Clinical Medicine, 2021, 10, 5049.	1.0	3
50	In Vitro 3D Staphylococcus aureus Abscess Communities Induce Bone Marrow Cells to Expand into Myeloid-Derived Suppressor Cells. Pathogens, 2021, 10, 1446.	1.2	6
51	Butyrate Inhibits Osteoclast Activity In Vitro and Regulates Systemic Inflammation and Bone Healing in a Murine Osteotomy Model Compared to Antibiotic-Treated Mice. Mediators of Inflammation, 2021, 2021, 1-17.	1.4	17
52	Does Cement Augmentation of the Sacroiliac Screw Lead to Superior Biomechanical Results for Fixation of the Posterior Pelvic Ring? A Biomechanical Study. Medicina (Lithuania), 2021, 57, 1368.	0.8	9
53	Bacteriophage Therapy for the Prevention and Treatment of Fracture-Related Infection Caused by Staphylococcus aureus: a Preclinical Study. Microbiology Spectrum, 2021, 9, e0173621.	1.2	15
54	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. Cartilage, 2020, 11, 169-180.	1.4	22

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55	Intervertebral disc organ culture for the investigation of disc pathology and regeneration â€“ benefits, limitations, and future directions of bioreactors. Connective Tissue Research, 2020, 61, 304-321.	1.1	30
56	Development of bone seekerâ€“functionalised microspheres as a targeted local antibiotic delivery system for bone infections. Journal of Orthopaedic Translation, 2020, 21, 136-145.	1.9	19
57	General treatment principles for fracture-related infection: recommendations from an international expert group. Archives of Orthopaedic and Trauma Surgery, 2020, 140, 1013-1027.	1.3	141
58	Development of generic Asian pelvic bone models using CT-based 3D statistical modelling. Journal of Orthopaedic Translation, 2020, 20, 100-106.	1.9	12
59	Focused highâ€energy extracorporeal shockwaves as supplemental treatment in a rabbit model of fractureâ€related infection. Journal of Orthopaedic Research, 2020, 38, 1351-1358.	1.2	9
60	Local Application of a Gentamicin-Loaded Hydrogel Early After Injury Is Superior to Perioperative Systemic Prophylaxis in a Rabbit Open Fracture Model. Journal of Orthopaedic Trauma, 2020, 34, 231-237.	0.7	10
61	Higher stability and more predictive fixation with the Femoral Neck System versus Hansson Pins in femoral neck fractures Pauwels II. Journal of Orthopaedic Translation, 2020, 24, 88-95.	1.9	44
62	Innovative Tissueâ€Engineered Strategies for Osteochondral Defect Repair and Regeneration: Current Progress and Challenges. Advanced Healthcare Materials, 2020, 9, e2001008.	3.9	57
63	Stripping torques in human bone can be reliably predicted prior to screw insertion with optimum tightness being found between 70% and 80% of the maximum. Bone and Joint Research, 2020, 9, 493-500.	1.3	12
64	Local Bacteriophage Delivery for Treatment and Prevention of Bacterial Infections. Frontiers in Microbiology, 2020, 11, 538060.	1.5	36
65	Three-Dimensional In Vitro Staphylococcus aureus Abscess Communities Display Antibiotic Tolerance and Protection from Neutrophil Clearance. Infection and Immunity, 2020, 88, .	1.0	16
66	Variations in non-locking screw insertion conditions generate unpredictable changes to achieved fixation tightness and stripping rates. Clinical Biomechanics, 2020, 80, 105201.	0.5	4
67	Longitudinal time-lapse in vivo micro-CT reveals differential patterns of peri-implant bone changes after subclinical bacterial infection in a rat model. Scientific Reports, 2020, 10, 20901.	1.6	8
68	Influence of the Reamer-Irrigator-Aspirator diameter on femoral bone strength and amount of harvested bone graft â€“ a biomechanical cadaveric study. Injury, 2020, 51, 2846-2850.	0.7	3
69	Identification and Characterization of Serum microRNAs as Biomarkers for Human Disc Degeneration: An RNA Sequencing Analysis. Diagnostics, 2020, 10, 1063.	1.3	5
70	Current Concepts of Osteomyelitis. American Journal of Pathology, 2020, 190, 1151-1163.	1.9	61
71	Preclinical ex-vivo Testing of Anti-inflammatory Drugs in a Bovine Intervertebral Degenerative Disc Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 583.	2.0	26
72	Surgical performance when inserting non-locking screws: a systematic review. EFORT Open Reviews, 2020, 5, 26-36.	1.8	20

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73	Fracture-related infection: current methods for prevention and treatment. Expert Review of Anti-Infective Therapy, 2020, 18, 307-321.	2.0	38
74	Ligamentous Lisfranc injuries: analysis of CT findings under weightbearing. European Journal of Trauma and Emergency Surgery, 2020, 47, 1243-1248.	0.8	9
75	The tissue-renin-angiotensin-system of the human intervertebral disc. , 2020, 40, 115-132.		14
76	Comparison of Ligament-Repair Techniques for the Syndesmosis: A Simulated Cadaveric Weight-Bearing Computed Tomography Analysis. Journal of Foot and Ankle Surgery, 2020, 59, 1156-1161.	0.5	2
77	Computed Tomography Analysis for Quantification of Displacement of the Distal Fibula in Different Foot Positions With Weightbearing and Sequentially Increased Instability: An Anatomic Cadaveric Study on Syndesmosis. Journal of Foot and Ankle Surgery, 2019, 58, 734-738.	0.5	7
78	Bacterial osteomyelitis in veterinary orthopaedics: Pathophysiology, clinical presentation and advances in treatment across multiple species. Veterinary Journal, 2019, 250, 44-54.	0.6	36
79	Optimization of electrospray fabrication of stem cellâ€“embedded alginateâ€“gelatin microspheres and their assembly in 3D-printed poly(îµ-caprolactone) scaffold for cartilage tissue engineering. Journal of Orthopaedic Translation, 2019, 18, 128-141.	1.9	49
80	Secondary Perforation Risk in Plate Osteosynthesis of Unstable Proximal Humerus Fractures: A Biomechanical Investigation of the Effect of Screw Length. Journal of Orthopaedic Research, 2019, 37, 2625-2633.	1.2	7
81	Late screw-related complications in locking plating of proximal humerus fractures: A systematic review. Injury, 2019, 50, 2176-2195.	0.7	32
82	Osteogenic magnesium incorporated into PLGA/TCP porous scaffold by 3D printing for repairing challenging bone defect. Biomaterials, 2019, 197, 207-219.	5.7	348
83	Importance of locking plate positioning in proximal humeral fractures as predicted by computer simulations. Journal of Orthopaedic Research, 2019, 37, 957-964.	1.2	26
84	Recommendations for design and conduct of preclinical in vivo studies of orthopedic deviceâ€related infection. Journal of Orthopaedic Research, 2019, 37, 271-287.	1.2	38
85	Osseointegration of Permanent and Temporary Orthopedic Implants. , 2019, , 257-269.		4
86	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.	1.2	22
87	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.	1.3	24
88	Bacterial Interactions With PEEK. , 2019, , 121-145.		0
89	Introduction of the Anspach drill as a novel surgical driller for creating calvarial defects in animal models. Journal of Orthopaedic Research, 2019, 37, 1183-1191.	1.2	4
90	Surface Modification Techniques of PEEK, Including Plasma Surface Treatment. , 2019, , 179-201.		8

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91	Intraoperative loading of calcium phosphate-coated implants with gentamicin prevents experimental Staphylococcus aureus infection in vivo. PLoS ONE, 2019, 14, e0210402.	1.1	21
92	Does Supplemental Intramedullary Grafting Increase Stability of Plated Proximal Humerus Fractures?. Journal of Orthopaedic Trauma, 2019, 33, 196-202.	0.7	11
93	3D statistical model of the pelvic ring â€“ a <scp>CT</scp>â€based statistical evaluation of anatomical variation. Journal of Anatomy, 2019, 234, 376-383.	0.9	12
94	Biomechanical comparison between standard and inclined screw orientation in dynamic hip screw side-plate fixation: The lift-off phenomenon. Journal of Orthopaedic Translation, 2019, 18, 92-99.	1.9	5
95	Infection burden and immunological responses are equivalent for polymeric and metallic implant materials in vitro and in a murine model of fractureâ€related infection. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1095-1106.	1.6	6
96	International survey among orthopaedic trauma surgeons: Lack of a definition of fracture-related infection. Injury, 2018, 49, 491-496.	0.7	31
97	An intervertebral disc whole organ culture system to investigate proinflammatory and degenerative disc disease condition. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e2051-e2061.	1.3	55
98	The role of a small posterior malleolar fragment in trimalleolar fractures. Bone and Joint Journal, 2018, 100-B, 95-100.	1.9	26
99	Fragility fractures of the sacrum occur in elderly patients with severe loss of sacral bone mass. Archives of Orthopaedic and Trauma Surgery, 2018, 138, 971-977.	1.3	36
100	The impact of translational orthopaedic research: Journal of Orthopaedic Translation indexed in Science Citation Index Expanded. Journal of Orthopaedic Translation, 2018, 12, A1-A2.	1.9	2
101	Infections associated with mesh repairs of abdominal wall hernias: Are antimicrobial biomaterials the longed-for solution?. Biomaterials, 2018, 167, 15-31.	5.7	61
102	Infection after fracture fixation: Current surgical and microbiological concepts. Injury, 2018, 49, 511-522.	0.7	336
103	Definition of infection after fracture fixation: A systematic review of randomized controlled trials to evaluate current practice. Injury, 2018, 49, 497-504.	0.7	66
104	Influence of steel implant surface microtopography on soft and hard tissue integration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 705-715.	1.6	9
105	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.	0.7	18
106	Fracture-related infection: A consensus on definition from an international expert group. Injury, 2018, 49, 505-510.	0.7	440
107	Antibiotic Prophylaxis With Cefuroxime: Influence of Duration on Infection Rate With Staphylococcus aureus in a Contaminated Open Fracture Model. Journal of Orthopaedic Trauma, 2018, 32, 190-195.	0.7	4
108	Drug delivery systems functionalized with bone mineral seeking agents for bone targeted therapeutics. Journal of Controlled Release, 2018, 269, 88-99.	4.8	74

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109	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.	1.2	23
110	Is augmented LISS plating biomechanically advantageous over conventional LISS plating in unstable osteoporotic distal femoral fractures?. Journal of Orthopaedic Research, 2018, 36, 2604-2611.	1.2	19
111	Axial and shear pullout forces of composite, porcine and human metatarsal and cuboid bones. Journal of Orthopaedic Translation, 2018, 14, 67-73.	1.9	5
112	LagLocâ€”a new surgical technique for locking plate systems. Journal of Orthopaedic Research, 2018, 36, 2886-2891.	1.2	2
113	Benefits of hardware removal after plating. Injury, 2018, 49, S91-S95.	0.7	14
114	Biomechanical evaluation of a new gliding screw concept for the fixation of proximal humeral fractures. Bone and Joint Research, 2018, 7, 422-429.	1.3	7
115	Phenotype and Viability of MLO-Y4 Cells Is Maintained by TGFÎ²3 in a Serum-Dependent Manner within a 3D-Co-Culture with MG-63 Cells. International Journal of Molecular Sciences, 2018, 19, 1932.	1.8	5
116	Dual-functional 3D-printed composite scaffold for inhibiting bacterial infection and promoting bone regeneration in infected bone defect models. Acta Biomaterialia, 2018, 79, 265-275.	4.1	134
117	Transcriptional activation of ENPP1 by osterix in osteoblasts and osteocytes. , 2018, 36, 1-14.		14
118	Preclinical in vivo models of fracture-related infection: a systematic review and critical appraisal. , 2018, 36, 184-199.		16
119	The calcification potential of human MSCs can be enhanced by interleukin-1Î²in osteogenic medium. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 564-571.	1.3	20
120	Vancomycin displays timeâ€dependent eradication of mature Staphylococcus aureus biofilms. Journal of Orthopaedic Research, 2017, 35, 381-388.	1.2	54
121	Heterodimeric BMPâ€2/7 for nucleus pulposus regenerationâ€”In vitro and ex vivo studies. Journal of Orthopaedic Research, 2017, 35, 51-60.	1.2	45
122	Computational anatomy of the dens axis evaluated by quantitative computed tomography: Implications for anterior screw fixation. Journal of Orthopaedic Research, 2017, 35, 2154-2163.	1.2	16
123	Surface-enrichment with hydroxyapatite nanoparticles in stereolithography-fabricated composite polymer scaffolds promotes bone repair. Acta Biomaterialia, 2017, 54, 386-398.	4.1	151
124	Subchondral screw abutment: does it harm the joint cartilage? An in vivo study on sheep tibiae. International Orthopaedics, 2017, 41, 1607-1615.	0.9	5
125	Critical dimensions of transâ€sacral corridors assessed by 3D CT models: Relevance for implant positioning in fractures of the sacrum. Journal of Orthopaedic Research, 2017, 35, 2577-2584.	1.2	33
126	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.	1.5	21

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127	Antibiotic stability over six weeks in aqueous solution at body temperature with and without heat treatment that mimics the curing of bone cement. Bone and Joint Research, 2017, 6, 296-306.	1.3	58
128	Reconstruction of the lateral tibia plateau fracture with a third triangular support screw: A biomechanical study. Journal of Orthopaedic Translation, 2017, 11, 30-38.	1.9	6
129	Morphometry of the sacrum and its implication on trans-sacral corridors using a computed tomography data-based three-dimensional statistical model. Spine Journal, 2017, 17, 1141-1147.	0.6	34
130	Biomimetic matrix fabricated by LMP-1 gene-transduced MC3T3-E1 cells for bone regeneration. Biofabrication, 2017, 9, 045010.	3.7	10
131	Comparative Genomics Study of Staphylococcus epidermidis Isolates from Orthopedic-Device-Related Infections Correlated with Patient Outcome. Journal of Clinical Microbiology, 2017, 55, 3089-3103.	1.8	55
132	Are two retrograde 3.5 mm screws superior to one 7.3 mm screw for anterior pelvic ring fixation in bones with low bone mineral density?. Bone and Joint Research, 2017, 6, 8-13.	1.3	15
133	Biomechanical comparison of augmented versus non-augmented sacroiliac screws in a novel hemi-pelvis test model. Journal of Orthopaedic Research, 2017, 35, 1485-1493.	1.2	45
134	Hyaluronic acid derivatives and its polyelectrolyte complexes with gentamicin as a delivery system for antibiotics. Polymers for Advanced Technologies, 2017, 28, 1325-1333.	1.6	5
135	Influence of tibialis posterior muscle activation on foot anatomy under axial loading: A biomechanical CT human cadaveric study. Foot and Ankle Surgery, 2017, 23, 250-254.	0.8	9
136	Poly(trimethylene carbonate) and nanoâ€hydroxyapatite porous scaffolds manufactured by stereolithography. Polymers for Advanced Technologies, 2017, 28, 1219-1225.	1.6	32
137	4.8 Bacterial Adhesion and Biomaterial Surfaces. , 2017, , 101-129.		9
138	Pathogenic Mechanisms and Host Interactions in Staphylococcus epidermidis Device-Related Infection. Frontiers in Microbiology, 2017, 8, 1401.	1.5	149
139	A large animal model for a failed two-stage revision of intramedullary nail-related infection by methicillin-resistant Staphylococcus aureus. , 2017, 34, 83-98.		13
140	Characterization of nasal methicillin-resistant Staphylococcus aureus isolated from international human and veterinary surgeons. Journal of Medical Microbiology, 2017, 66, 360-370.	0.7	5
141	Biomechanical investigation of two plating systems for medial column fusion in foot. PLoS ONE, 2017, 12, e0172563.	1.1	9
142	Reamed locked intramedullary nailing for studying femur fracture and its complications. , 2017, 34, 99-107.		10
143	Influence of fracture stability on Staphylococcus epidermidis and Staphylococcus aureus infection in a murine femoral fracture model. , 2017, 34, 321-340.		17
144	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. EFORT Open Reviews, 2016, 1, 89-99.	1.8	131

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145	Biomechanical comparison of plate and screw fixation in anterior pelvic ring fractures with low bone mineral density. Injury, 2016, 47, 1456-1460.	0.7	29
146	Sacral Bone Mass Distribution Assessed by Averaged Three-Dimensional CT Models. Journal of Bone and Joint Surgery - Series A, 2016, 98, 584-590.	1.4	77
147	Influence of implant properties and local delivery systems on the outcome in operative fracture care. Injury, 2016, 47, 595-604.	0.7	26
148	The influence of the Peroneus Longus muscle on the foot under axial loading: A CT evaluated dynamic cadaveric model study. Clinical Biomechanics, 2016, 34, 7-11.	0.5	35
149	Bone cement flow analysis by stepwise injection through medical cannulas. Medical Engineering and Physics, 2016, 38, 1434-1438.	0.8	2
150	Letter to the Editor: New Definition for Periprosthetic Joint Infection: From the Workgroup of the Musculoskeletal Infection Society. Clinical Orthopaedics and Related Research, 2016, 474, 2726-2727.	0.7	13
151	Anti-infective efficacy, cytocompatibility and biocompatibility of a 3D-printed osteoconductive composite scaffold functionalized with quaternized chitosan. Acta Biomaterialia, 2016, 46, 112-128.	4.1	128
152	Improving translation success of cell-based therapies in orthopaedics. Journal of Orthopaedic Research, 2016, 34, 17-21.	1.2	15
153	Innovating in the medical device industry â€“ challenges & opportunities ESB 2015 translational research symposium. Journal of Materials Science: Materials in Medicine, 2016, 27, 144.	1.7	19
154	Virtual bite registration using intraoral digital scanning, CT and CBCT: InÂvitro evaluation of a new method and its implication for orthognathic surgery. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 1194-1200.	0.7	33
155	Injectable gentamicin-loaded thermo-responsive hyaluronic acid derivative prevents infection in a rabbit model. Acta Biomaterialia, 2016, 43, 185-194.	4.1	60
156	Biofilm formation increases treatment failure in Staphylococcus epidermidis deviceâ€related osteomyelitis of the lower extremity in human patients. Journal of Orthopaedic Research, 2016, 34, 1905-1913.	1.2	39
157	Cement augmentation of implantsâ€”no general cure in osteoporotic fracture treatment. A biomechanical study on nonâ€displaced femoral neck fractures. Journal of Orthopaedic Research, 2016, 34, 314-319.	1.2	11
158	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.	0.9	18
159	Titanium and steel fracture fixation plates with different surface topographies: Influence on infection rate in a rabbit fracture model. Injury, 2016, 47, 633-639.	0.7	35
160	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. Biomaterials, 2016, 84, 196-209.	5.7	50
161	Computed tomography-based virtual fracture reduction techniques in bimandibular fractures. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 177-185.	0.7	28
162	Monitoring immune responses in a mouse model of fracture fixation with and without Staphylococcus aureus osteomyelitis. Bone, 2016, 83, 82-92.	1.4	45

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163	Antibiotic Resistance of Commensal Staphylococcus aureus and Coagulase-Negative Staphylococci in an International Cohort of Surgeons: A Prospective Point-Prevalence Study. PLoS ONE, 2016, 11, e0148437.	1.1	58
164	Musculoskeletal regeneration research network: A global initiative. Journal of Orthopaedic Translation, 2015, 3, 160-165.	1.9	1
165	Histomorphometric Assessment of Cancellous and Cortical Bone Material Distribution in the Proximal Humerus of Normal and Osteoporotic Individuals. Medicine (United States), 2015, 94, e2043.	0.4	23
166	Preparation of gentamicin dioctyl sulfosuccinate loaded poly(trimethylene carbonate) matrices intended for the treatment of orthopaedic infections. Clinical Hemorheology and Microcirculation, 2015, 60, 89-98.	0.9	8
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