

# Peter Augat

## List of Publications by Year in descending order

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247  
papers

13,032  
citations

19608

61  
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29081

104  
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276  
docs citations

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times ranked

9296  
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#	ARTICLE	IF	CITATIONS
1	Supplemental cerclage wiring in angle stable plate fixation of distal tibial spiral fractures enables immediate post-operative full weight-bearing: a biomechanical analysis. <i>European Journal of Trauma and Emergency Surgery</i> , 2022, 48, 621-628.	0.8	7
2	Early biomechanical outcome in patients with acetabular fractures treated using the pararectus approach: a gait and stair climb analysis study. <i>European Journal of Trauma and Emergency Surgery</i> , 2022, 48, 1307-1316.	0.8	1
3	Recovery of gait and function during the first six months after tibial shaft fractures. <i>Gait and Posture</i> , 2022, 91, 66-72.	0.6	5
4	Three internal fixation methods for Danis-Weber-B distal fibular fractures: A biomechanical comparison in an osteoporotic fibula model. <i>Foot and Ankle Surgery</i> , 2022, 28, 845-851.	0.8	3
5	Graft position at the femoral condyle affects knee mobility after posterior cruciate ligament replacement. <i>Knee</i> , 2022, 34, 118-123.	0.8	0
6	Biomechanical comparison of acetabular fracture fixation with stand-alone THA or in combination with plating. <i>European Journal of Trauma and Emergency Surgery</i> , 2022, 48, 3185-3192.	0.8	5
7	Mechanical and morphometric characterization of custom-made trabecular bone surrogates. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 129, 105146.	1.5	3
8	Development of the Center of Pressure velocity in the healing process after intra-articular calcaneus fractures. <i>Gait and Posture</i> , 2022, 95, 135-140.	0.6	1
9	Recovery of the medial gastrocnemius muscle after calcaneus fracture differs between contractile and elastic components. <i>Clinical Biomechanics</i> , 2022, 96, 105664.	0.5	1
10	Single or Double Plating for Acromial Type III Fractures: Biomechanical Comparison of Load to Failure and Fragment Motion. <i>Journal of Clinical Medicine</i> , 2022, 11, 3130.	1.0	4
11	Robot-assisted training after proximal humeral fracture: A randomised controlled multicentre intervention trial. <i>Clinical Rehabilitation</i> , 2021, 35, 242-252.	1.0	4
12	The role of mechanical stimulation in the enhancement of bone healing. <i>Injury</i> , 2021, 52, S78-S83.	0.7	51
13	Biomechanical models: key considerations in study design. <i>OTA International the Open Access Journal of Orthopaedic Trauma</i> , 2021, 4, e099.	0.4	11
14	Custom-made polyurethane-based synthetic bones mimic screw cut-through of intramedullary nails in human long bones. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 117, 104405.	1.5	1
15	Correlation of atherosclerosis and osteoarthritis in ancient Egypt: A standardized evaluation of 45 whole-body CT examinations. <i>International Journal of Paleopathology</i> , 2021, 33, 137-145.	0.8	2
16	Enhancement of Fracture Healing. <i>Injury</i> , 2021, 52, S1-S2.	0.7	1
17	No more rattling: biomechanical evaluation of a hexapod ring fixator free of play. <i>Biomedizinische Technik</i> , 2021, 66, 529-536.	0.9	1
18	Biomechanical Comparison of Two Double Plating Methods in a Coronal Fracture Model of Bi-condylar Tibial Plateau Fractures. <i>Journal of Orthopaedic Trauma</i> , 2021, Publish Ahead of Print, .	0.7	1

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19	Biomechanical comparison of different cerclage types in addition to an angle stable plate osteosynthesis of distal tibial fractures. <i>Injury</i> , 2021, 52, 2126-2130.	0.7	3
20	Evaluation of Meniscal Load and Load Distribution in the Canine Stifle after Tibial Plateau Levelling Osteotomy with Postoperative Tibia Plateau Angles of 6 and 1 Degrees. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2021, , .	0.2	0
21	Reliability and validity varies among smartphone apps for range of motion measurements of the lower extremity: a systematic review. <i>Biomedizinische Technik</i> , 2021, 66, 537-555.	0.9	3
22	Evolution of imaging in surgical fracture management. <i>Injury</i> , 2020, 51, S51-S56.	0.7	13
23	Gait analysis – Available platforms for outcome assessment. <i>Injury</i> , 2020, 51, S90-S96.	0.7	55
24	Upper Body Posture and Muscle Activation in Recreational Cyclists: Immediate Effects of Variable Cycling Setups. <i>Research Quarterly for Exercise and Sport</i> , 2020, 91, 298-308.	0.8	12
25	The Pararectus Approach in Acetabular Surgery: Radiological and Clinical Outcome. <i>Journal of Orthopaedic Trauma</i> , 2020, 34, 82-88.	0.7	19
26	Characterization of tissue properties in epidural needle insertion on human specimen and synthetic materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103946.	1.5	8
27	Finite element analysis of Bi-condylar Tibial Plateau fractures to assess the effect of coronal splits. <i>Medical Engineering and Physics</i> , 2020, 84, 84-95.	0.8	7
28	Fatal trauma in a mummified shrew: Micro-CT examination of a little ancient Egyptian bundle. <i>Journal of Archaeological Science: Reports</i> , 2020, 34, 102679.	0.2	2
29	E-vapor aerosols do not compromise bone integrity relative to cigarette smoke after 6-month inhalation in an ApoE <sup>-/-</sup> mouse model. <i>Archives of Toxicology</i> , 2020, 94, 2163-2177.	1.9	17
30	The effect of coronal splits on the structural stability of bi-condylar tibial plateau fractures: a biomechanical investigation. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, 140, 1719-1730.	1.3	15
31	Inter-rater reliability, sensitivity to change and responsiveness of the orthopaedic Wolf-Motor-Function-Test as functional capacity measure before and after rehabilitation in patients with proximal humeral fractures. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 315.	0.8	2
32	Stability of femoral neck fracture fixation: A finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 892-900.	1.0	33
33	Variability in trunk and pelvic movement of transfemoral amputees using a C-leg system compared to healthy controls. <i>Human Movement Science</i> , 2019, 68, 102539.	0.6	6
34	Development of open-cell polyurethane-based bone surrogates for biomechanical testing of pedicle screws. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 247-253.	1.5	7
35	Daily subcutaneous Teriparatide injection increased bone mineral density of newly formed bone after tibia distraction osteogenesis, a randomized study. <i>Injury</i> , 2019, 50, 1478-1482.	0.7	14
36	Gait characteristics and functional outcomes during early follow-up are comparable in patients with calcaneal fractures treated by either the sinus tarsi or the extended lateral approach. <i>Gait and Posture</i> , 2019, 70, 190-195.	0.6	8

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37	Biomechanics of Femoral Neck Fractures and Implications for Fixation. <i>Journal of Orthopaedic Trauma</i> , 2019, 33, S27-S32.	0.7	74
38	External fixation of the lower extremities: Biomechanical perspective and recent innovations. <i>Injury</i> , 2019, 50, S10-S17.	0.7	42
39	Biomechanics of Osteoporotic Fracture Fixation. <i>Current Osteoporosis Reports</i> , 2019, 17, 363-374.	1.5	54
40	Relation between the amount of daily activity and gait quality in transfemoral amputees. <i>International Journal of Rehabilitation Research</i> , 2019, 42, 139-144.	0.7	3
41	The pararectus approach for internal fixation of acetabular fractures involving the anterior column: evaluating the functional outcome. <i>International Orthopaedics</i> , 2019, 43, 1487-1493.	0.9	27
42	Bone surrogates provide authentic onlay graft fixation torques. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 91, 159-163.	1.5	2
43	Opening-wedge osteotomies of the distal femur: minor advantages for a biplanar compared to a uniplanar technique. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 2375-2384.	2.3	11
44	Treatment of infection following intramedullary nailing of tibial shaft fractures – results of the ORS/ISFR expert group survey. <i>International Orthopaedics</i> , 2019, 43, 417-423.	0.9	7
45	CT checklist and scoring system for the assessment of soft tissue preservation in human mummies: application to catacomb mummies from Palermo, Sicily. <i>International Journal of Paleopathology</i> , 2018, 20, 50-59.	0.8	7
46	Procedure-Specific Validation of Artificial Vertebrae. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1852-1858.	2.5	4
47	Inter-rater and intra-rater reliability of an adapted Wolf motor function test for older patients with shoulder injuries. <i>Zeitschrift Fur Gerontologie Und Geriatrie</i> , 2018, 51, 293-300.	0.8	4
48	Biomechanical comparison of a novel monocortical and two common bicortical external fixation systems regarding rigidity and dynamic stability. <i>Biomedizinische Technik</i> , 2018, 63, 665-672.	0.9	5
49	Unicortical self-drilling external fixator pins reduce thermal effects during pin insertion. <i>European Journal of Trauma and Emergency Surgery</i> , 2018, 44, 939-946.	0.8	5
50	Characterization of polyurethane-based synthetic vertebrae for spinal cement augmentation training. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 153.	1.7	6
51	Locking design affects the jamming of screws in locking plates. <i>Injury</i> , 2018, 49, S61-S65.	0.7	17
52	Plating of fractures: current treatments and complications. <i>Injury</i> , 2018, 49, S1.	0.7	1
53	Treating patella fractures with a locking patella plate - first clinical results. <i>Injury</i> , 2018, 49, S51-S55.	0.7	47
54	Effect of local infiltration analgesia, peripheral nerve blocks, general and spinal anesthesia on early functional recovery and pain control in total knee arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 232.	0.8	24

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55	Effect of local infiltration analgesia, peripheral nerve blocks, general and spinal anesthesia on early functional recovery and pain control in unicompartmental knee arthroplasty. BMC Musculoskeletal Disorders, 2018, 19, 249.	0.8	31
56	Characterization of an artificial skull cap for cranio-maxillofacial surgery training. Journal of Materials Science: Materials in Medicine, 2018, 29, 135.	1.7	4
57	Validation of a simulator for cranial graft lift training: Face, content, and construct validity. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 1390-1394.	0.7	8
58	Evolution of fracture treatment with bone plates. Injury, 2018, 49, S2-S7.	0.7	90
59	Train4OrthoMIS Online Course as a Manner of Improving Ergonomics in Orthopaedic Surgery. Advances in Intelligent Systems and Computing, 2018, , 149-158.	0.5	3
60	Comparing the osteogenic potential of bone marrow and tendon-derived stromal cells to repair a critical-sized defect in the rat femur. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2014-2023.	1.3	11
61	A high-glucose diet affects Achilles tendon healing in rats. Scientific Reports, 2017, 7, 780.	1.6	26
62	Biomechanical comparison of anatomical plating systems for comminuted distal humeral fractures. International Orthopaedics, 2017, 41, 1709-1714.	0.9	18
63	Dynamic Stabilization of Simple Fractures With Active Plates Delivers Stronger Healing Than Conventional Compression Plating. Journal of Orthopaedic Trauma, 2017, 31, 71-77.	0.7	32
64	Implant Material, Type of Fixation at the Shaft, and Position of Plate Modify Biomechanics of Distal Femur Plate Osteosynthesis. Journal of Orthopaedic Trauma, 2017, 31, e241-e246.	0.7	33
65	Characterization of synthetic foam structures used to manufacture artificial vertebral trabecular bone. Materials Science and Engineering C, 2017, 76, 1103-1111.	3.8	12
66	Effects of knee orthosis adjustment on biomechanical performance and clinical outcome in patients with medial knee osteoarthritis. Prosthetics and Orthotics International, 2017, 41, 587-594.	0.5	12
67	Traumatic brain injury: Comparison between autopsy and ante-mortem CT. Journal of Clinical Forensic and Legal Medicine, 2017, 52, 62-69.	0.5	11
68	Novel bone surrogates for cranial surgery training. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 49-51.	1.5	12
69	A hybrid, low-cost tissue-like epidural needle insertion simulator. , 2017, 2017, 42-45.		5
70	The pivotal role of the coronal fracture line for a new three-dimensional CT-based fracture classification of bicondylar proximal tibial fractures. Injury, 2017, 48, 2214-2220.	0.7	25
71	Novel synthetic vertebrae provide realistic haptics for pedicle screw placement. , 2017, 2017, 46-49.		2
72	Single versus double row suture anchor fixation for greater tuberosity fractures – a biomechanical study. BMC Musculoskeletal Disorders, 2017, 18, 506.	0.8	12

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73	Effectiveness of robot-assisted training added to conventional rehabilitation in patients with humeral fracture early after surgical treatment: protocol of a randomised, controlled, multicentre trial. <i>Trials</i> , 2017, 18, 589.	0.7	16
74	Functional Capacity Evaluation and Quantitative Gait Analysis: Lower Limb Disorders. , 2017, , 1-17.		0
75	When is the stability of a fracture fixation limited by osteoporotic bone?. <i>Injury</i> , 2016, 47, S27-S32.	0.7	37
76	Bone mechanical properties and changes with osteoporosis. <i>Injury</i> , 2016, 47, S11-S20.	0.7	332
77	Biomechanical effects of angular stable locking in intramedullary nails for the fixation of distal tibia fractures. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 1016-1023.	1.0	9
78	Fixation performance of an ultrasonically fused, bioresorbable osteosynthesis implant: A biomechanical and biocompatibility study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 170-179.	1.6	10
79	An expedited approach for sustained delivery of bone morphogenetic protein to bone defects using gene activated fragments of subcutaneous fat. <i>Journal of Gene Medicine</i> , 2016, 18, 199-207.	1.4	10
80	Osteoporotic fracture fixation – a biomechanical perspective. <i>Injury</i> , 2016, 47, S1-S2.	0.7	11
81	Managing Vancouver B1 fractures by cerclage system compared to locking plate fixation – a biomechanical study. <i>Injury</i> , 2016, 47, S51-S57.	0.7	25
82	Development of parietal bone surrogates for parietal graft lift training. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 637-641.	0.2	3
83	Comparative study suggests that human bone morphogenetic proteins have no influence on the outcome of operative treatment of aseptic clavicle non-unions. <i>International Orthopaedics</i> , 2016, 40, 2339-2345.	0.9	11
84	Failure of fracture fixation in osteoporotic bone. <i>Injury</i> , 2016, 47, S3-S10.	0.7	110
85	Load distribution between cephalic screws in a dual lag screw trochanteric nail. <i>Journal of Orthopaedic Surgery and Research</i> , 2016, 11, 41.	0.9	23
86	Dynamic Stabilization with Active Locking Plates Delivers Faster, Stronger, and More Symmetric Fracture-Healing. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 466-474.	1.4	65
87	Effect of Coracoid Drilling for Acromioclavicular Joint Reconstruction Techniques on Coracoid Fracture Risk: A Biomechanical Study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2016, 32, 982-987.	1.3	57
88	Biomechanical Comparison of Sacral Fixation Characteristics of Standard S1-Pedicle Screw Fixation versus a Novel Constrained S1-Dual-Screw Anchorage in the S1-Pedicle and S1-Alar Bone. <i>Spine</i> , 2015, 40, 1890-1897.	1.0	11
89	Biomechanical Assessment of Locked Plating for the Fixation of Patella Fractures. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, e305-e308.	0.7	45
90	Checklist and Scoring System for the Assessment of Soft Tissue Preservation in CT Examinations of Human Mummies. <i>PLoS ONE</i> , 2015, 10, e0133364.	1.1	25

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91	The effect of BMP-7 gene activated muscle tissue implants on the repair of large segmental bone defects. <i>Injury</i> , 2015, 46, 2351-2358.	0.7	14
92	Effect of angular stability and other locking parameters on the mechanical performance of intramedullary nails. <i>Biomedizinische Technik</i> , 2015, 60, 157-64.	0.9	13
93	Loads in the hip joint during physically demanding occupational tasks: A motion analysis study. <i>Journal of Biomechanics</i> , 2015, 48, 3227-3233.	0.9	29
94	Bone healing of critical size defects of the rat femur after the application of bone marrow aspirate and two different rh-BMP7 concentrations. <i>European Journal of Trauma and Emergency Surgery</i> , 2015, 41, 557-563.	0.8	5
95	Breakage of cephalomedullary nailing in operative treatment of trochanteric and subtrochanteric femoral fractures. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015, 135, 179-185.	1.3	55
96	Analysis of the intra-individual differences of the joint surfaces of the calcaneus. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1635-1641.	0.9	7
97	Intraosseous Fixation Compared to Plantar Plate Fixation for First Metatarsocuneiform Arthrodesis. <i>Foot and Ankle International</i> , 2014, 35, 1209-1216.	1.1	39
98	The bottleneck of evidence-based fracture care. <i>Injury</i> , 2014, 45, S1-S2.	0.7	6
99	Biomechanical methods for the assessment of fracture repair. <i>Injury</i> , 2014, 45, S32-S38.	0.7	61
100	Imaging techniques for the assessment of fracture repair. <i>Injury</i> , 2014, 45, S16-S22.	0.7	63
101	Impact of Constrained Dual-Screw Anchorage on Holding Strength and the Resistance to Cyclic Loading in Anterior Spinal Deformity Surgery. <i>Spine</i> , 2014, 39, E390-E398.	1.0	4
102	Complex Distal Humerus Fractures – Comparison of Polyaxial Locking and Nonlocking Screw Configurations – A Preliminary Biomechanical Study. <i>Journal of Orthopaedic Trauma</i> , 2014, 28, 130-136.	0.7	23
103	The Influence of Distraction Force on the Intradiscal Pressure Gradient in the Bridged Lumbar Spine. <i>Spine</i> , 2014, 39, E427-E433.	1.0	2
104	Ploxamer-based hydrogels hardening at body core temperature as carriers for cell based therapies: in vitro and in vivo analysis. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2223-2234.	1.7	15
105	Implant Material and Design Alter Construct Stiffness in Distal Femur Locking Plate Fixation: A Pilot Study. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 2808-2814.	0.7	36
106	Distal radius fracture fixation with volar locking plates and additional bone augmentation in osteoporotic bone: a biomechanical study in a cadaveric model. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 51-57.	1.3	11
107	Biomechanical comparison of intramedullar versus extramedullar stabilization of intra-articular tibial plateau fractures. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 59-64.	1.3	21
108	An investigation to determine if a single validated density – elasticity relationship can be used for subject specific finite element analyses of human long bones. <i>Medical Engineering and Physics</i> , 2013, 35, 875-883.	0.8	46

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109	Biomechanical Evaluation of Subtalar Fusion: The Influence of Screw Configuration and Placement. <i>Journal of Foot and Ankle Surgery</i> , 2013, 52, 177-183.	0.5	25
110	Repair of large segmental bone defects: BMP-2 gene activated muscle grafts vs. autologous bone grafting. <i>BMC Biotechnology</i> , 2013, 13, 65.	1.7	25
111	Biomechanische Forschung. <i>Trauma Und Berufskrankheit</i> , 2013, 15, 219-220.	0.0	0
112	Comparison of revision strategies for failed C2-posterior cervical pedicle screws: a biomechanical study. <i>European Spine Journal</i> , 2013, 22, 46-53.	1.0	4
113	The influence of patellar resurfacing on patellar kinetics and retropatellar contact characteristics. <i>Journal of Orthopaedic Science</i> , 2013, 18, 61-69.	0.5	7
114	Individual density-elasticity relationships improve accuracy of subject-specific finite element models of human femurs. <i>Journal of Biomechanics</i> , 2013, 46, 2152-2157.	0.9	30
115	Reply to Letter to the Editor: "Auxiliary locking plate improves fracture stability and healing in intertrochanteric fractures fixated by intramedullary nail (IMN)". <i>Clinical Biomechanics</i> , 2013, 28, 481-482.	0.5	0
116	The impact of a distal expansion mechanism added to a standard pedicle screw on pullout resistance. A biomechanical study. <i>Spine Journal</i> , 2013, 13, 532-541.	0.6	27
117	Reamed intramedullary nailing of diaphyseal tibial fractures: comparison of compression and non-compression nailing. <i>European Journal of Trauma and Emergency Surgery</i> , 2013, 39, 73-77.	0.8	22
118	Bupivacaine Induces Short-Term Alterations and Impairment in Rat Tendons. <i>American Journal of Sports Medicine</i> , 2013, 41, 1411-1418.	1.9	20
119	Biomechanical Evaluation of Interlocking Lag Screw Design in Intramedullary Nailing of Unstable Ptertrochanteric Fractures. <i>Journal of Orthopaedic Trauma</i> , 2013, 27, 483-490.	0.7	44
120	Tendons from Non-diabetic Humans and Rats Harbor a Population of Insulin-producing, Pancreatic Beta Cell-like Cells. <i>Hormone and Metabolic Research</i> , 2012, 44, 506-510.	0.7	11
121	Foam phantom development for artificial vertebrae used for surgical training. , 2012, 2012, 5773-6.		7
122	Biomechanical comparison of locked plate osteosynthesis, reamed and unreamed nailing in conventional interlocking technique, and unreamed angle stable nailing in distal tibia fractures. <i>Journal of Trauma and Acute Care Surgery</i> , 2012, 73, 933-938.	1.1	41
123	Auxiliary locking plate improves fracture stability and healing in intertrochanteric fractures fixated by intramedullary nail. <i>Clinical Biomechanics</i> , 2012, 27, 1006-1010.	0.5	25
124	3-T MRI assessment of osteophyte formation in patients with unilateral anterior cruciate ligament injury and reconstruction. <i>Skeletal Radiology</i> , 2012, 41, 1597-1604.	1.2	7
125	Finite element analysis of the ovine hip: Development, results and comparison with the human hip. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2012, 25, 301-306.	0.2	11
126	Biomechanical comparison of two locking plate systems for the distal tibia. <i>European Journal of Trauma and Emergency Surgery</i> , 2012, 38, 53-58.	0.8	8



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127	Influence of total knee arthroplasty on patellar kinematics and contact characteristics. <i>International Orthopaedics</i> , 2012, 36, 73-78.	0.9	30
128	Improvement of the shear fixation stability of intramedullary nailing. <i>Clinical Biomechanics</i> , 2011, 26, 147-151.	0.5	31
129	Should extramedullary fixations for hip fractures be removed after bone union?. <i>Clinical Biomechanics</i> , 2011, 26, 410-414.	0.5	20
130	Posttraumatic arthrodesis of the subtalar joint " outcome in workers compensation and rates of non-union. <i>Foot and Ankle Surgery</i> , 2011, 17, 277-283.	0.8	15
131	Evaluation of Risk for Secondary Fracture After Removal of a New Femoral Neck Plate for Intracapsular Hip Fractures. <i>Journal of Orthopaedic Trauma</i> , 2011, 25, 721-725.	0.7	11
132	Biomechanical comparison of the end plate design of three vertebral body replacement systems. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2011, 131, 1253-1259.	1.3	12
133	Hip screw migration testing: First results for hip screws and helical blades utilizing a new oscillating test method. <i>Journal of Orthopaedic Research</i> , 2011, 29, 760-766.	1.2	65
134	Patient-specific finite element analysis of the human femur" A double-blinded biomechanical validation. <i>Journal of Biomechanics</i> , 2011, 44, 1666-1672.	0.9	106
135	A numerical model of the fracture healing process that describes tissue development and revascularisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 79-93.	0.9	74
136	Quantification of Reaming Debris at the Fracture Gap of Diaphyseal A3 Femur Fractures After Reamed Intramedullary Nailing and Using an Intramedullary Application System. <i>Journal of Trauma</i> , 2010, 69, E98-E101.	2.3	4
137	Strontium Ranelate Enhances Callus Strength More Than PTH 1-34 in an Osteoporotic Rat Model of Fracture Healing. <i>Calcified Tissue International</i> , 2010, 86, 82-89.	1.5	83
138	Herniation pits and cystic-appearing lesions at the anterior femoral neck: an anatomical study by MSCT and µCT. <i>Skeletal Radiology</i> , 2010, 39, 645-654.	1.2	16
139	Osteoporosis prevalence and fracture characteristics in elderly female patients with fractures. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2010, 130, 1405-1410.	1.3	22
140	A biomechanical rationale for C1-ring osteosynthesis as treatment for displaced Jefferson burst fractures with incompetency of the transverse atlantal ligament. <i>European Spine Journal</i> , 2010, 19, 1288-1298.	1.0	62
141	The stability of a hip fracture determines the fatigue of an intramedullary nail. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 577-584.	1.0	18
142	Effects of Construct Stiffness on Healing of Fractures Stabilized with Locking Plates. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 12-22.	1.4	172
143	The Repair of Critical-Sized Bone Defects Using Expedited, Autologous BMP-2 Gene-Activated Fat Implants. <i>Tissue Engineering - Part A</i> , 2010, 16, 1093-1101.	1.6	42
144	A Biomechanical Evaluation of Orthopaedic Implants for Hip Fractures by Finite Element Analysis and In-Vitro Tests. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1141-1152.	1.0	74

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145	Far Cortical Locking Can Improve Healing of Fractures Stabilized with Locking Plates. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1652-1660.	1.4	212
146	Evidence for anti-osteoporosis therapy in acute fracture situationsâ€”Recommendations of a multidisciplinary workshop of the International Society for Fracture Repair. Bone, 2010, 46, 267-271.	1.4	45
147	Anatomical plate configuration affects mechanical performance in distal humerus fractures. Clinical Biomechanics, 2010, 25, 972-978.	0.5	54
148	Healing of Large Segmental Bone Defects Induced by Expedited Bone Morphogenetic Protein-2 Gene-Activated, Syngeneic Muscle Grafts. Human Gene Therapy, 2009, 20, 1589-1596.	1.4	16
149	Influence of intramedullary nail diameter and locking mode on the stability of tibial shaft fracture fixation. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 525-531.	1.3	64
150	Characterisation of a new bioadhesive system based on polysaccharides with the potential to be used as bone glue. Journal of Materials Science: Materials in Medicine, 2009, 20, 2001-2009.	1.7	67
151	Type of Hip Fracture Determines Load Share in Intramedullary Osteosynthesis. Clinical Orthopaedics and Related Research, 2009, 467, 1972-1980.	0.7	68
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