

# Ferris M Pfeiffer

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,167  
citations

394421

19  
h-index

395702

33  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pedicle Screw Design and Cement Augmentation in Osteoporotic Vertebrae. <i>Spine</i> , 2012, 37, E1628-E1632.	2.0	110
2	Importance of Donor Chondrocyte Viability for Osteochondral Allografts. <i>American Journal of Sports Medicine</i> , 2016, 44, 1260-1268.	4.2	88
3	A Novel System Improves Preservation of Osteochondral Allografts. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 3404-3414.	1.5	82
4	A Comparison of Pullout Strength for Pedicle Screws of Different Designs. <i>Spine</i> , 2006, 31, E867-E870.	2.0	66
5	Suspensory Versus Interference Screw Fixation for Arthroscopic Anterior Cruciate Ligament Reconstruction in a Translational Large-Animal Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2016, 32, 1086-1097.	2.7	60
6	The histologic and biomechanical response of two commercially available small glenoid anchors for use in labral repairs. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 1156-1161.	2.6	57
7	Biomechanical Analysis of Pedicle Screws in Osteoporotic Bone With Bioactive Cement Augmentation Using Simulated In Vivo Multicomponent Loading. <i>Spine</i> , 2011, 36, 454-462.	2.0	52
8	Analysis of the s2 alar-iliac screw as compared with the traditional iliac screw: does it increase stability with sacroiliac fixation of the spine?. <i>Spine Journal</i> , 2017, 17, 875-879.	1.3	51
9	Validation of the Missouri Osteochondral Allograft Preservation System for the Maintenance of Osteochondral Allograft Quality During Prolonged Storage. <i>American Journal of Sports Medicine</i> , 2018, 46, 58-65.	4.2	50
10	Biomechanical Evaluation of Suture Anchor Versus Transosseous Tunnel Quadriceps Tendon Repair Techniques. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2016, 32, 1117-1124.	2.7	49
11	A Canine Arthroscopic Anterior Cruciate Ligament Reconstruction Model for Study of Synthetic Augmentation of Tendon Allografts. <i>Journal of Knee Surgery</i> , 2017, 30, 704-711.	1.6	49
12	A Biomechanical Study of the Role of the Anterolateral Ligament and the Deep Iliotibial Band for Control of a Simulated Pivot Shift With Comparison of Minimally Invasive Extra-articular Anterolateral Tendon Graft Reconstruction Versus Modified Lemaire Reconstruction After Anterior Cruciate Ligament Reconstruction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 1473-1483.	2.7	41
13	The Use of Finite Element Analysis to Enhance Research and Clinical Practice in Orthopedics. <i>Journal of Knee Surgery</i> , 2016, 29, 149-158.	1.6	32
14	Comparison of a Novel Bone-Tendon Allograft With a Human Dermisâ€Derived Patch for Repair of Chronic Large Rotator Cuff Tears Using a Canine Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012, 28, 169-177.	2.7	29
15	Biomechanical Comparison of Five Posterior Cruciate Ligament Reconstruction Techniques. <i>Journal of Knee Surgery</i> , 2017, 30, 523-531.	1.6	28
16	Biomechanical Comparison: Single-Bundle versus Double-Bundle Posterior Cruciate Ligament Reconstruction Techniques. <i>Journal of Knee Surgery</i> , 2017, 30, 347-351.	1.6	28
17	Skeletal Response to Soluble Activin Receptor Type IIB in Mouse Models of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1760-1772.	2.8	24
18	Homozygosity and Heterozygosity for Null Col5a2 Alleles Produce Embryonic Lethality and a Novel Classic Ehlers-Danlos Syndromeâ€Related Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 2000-2011.	3.8	22

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19	Development of a Micronized Meniscus Extracellular Matrix Scaffold for Potential Augmentation of Meniscal Repair and Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 1059-1070.	2.1	21
20	Tunable multifunctional tissue engineering scaffolds composed of three-component polyampholyte polymers. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	19
21	Surgical Strategies to Improve Fixation in the Osteoporotic Spine: the Effects of Tapping, Cement Augmentation, and Screw Trajectory. <i>Global Spine Journal</i> , 2014, 4, 47-53.	2.3	17
22	Biomechanical Evaluation of Suture Anchor versus Transosseous Tunnel Patellar Tendon Repair Techniques. <i>Journal of Knee Surgery</i> , 2019, 32, 825-832.	1.6	17
23	Subchondroplasty for the treatment of post-traumatic bone marrow lesions of the medial femoral condyle in a pre-clinical canine model. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2709-2717.	2.3	16
24	A canine hybrid double-bundle model for study of arthroscopic ACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1171-1179.	2.3	15
25	Biomechanical Analysis of Capsular Repair Versus Arthrex TFCC Ulnar Tunnel Repair for Triangular Fibrocartilage Complex Tears. <i>Hand</i> , 2019, 14, 547-553.	1.2	15
26	Biologic Joint Repair Strategies: The Mizzou BioJoint Story. <i>Toxicologic Pathology</i> , 2017, 45, 931-938.	1.8	13
27	Rotator cuff healing using demineralized cancellous bone matrix sponge interposition compared to standard repair in a preclinical canine model. <i>Journal of Orthopaedic Research</i> , 2018, 36, 906-912.	2.3	13
28	Nondestructive imaging of fiber structure in articular cartilage using optical polarization tractography. <i>Journal of Biomedical Optics</i> , 2016, 21, 116004.	2.6	11
29	Optimising femoral-head osteochondral allograft transplantation in a preclinical model. <i>Journal of Orthopaedic Translation</i> , 2016, 5, 48-56.	3.9	9
30	Decreasing maternal myostatin programs adult offspring bone strength in a mouse model of osteogenesis imperfecta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13522-13527.	7.1	8
31	The minipig as a potential model for pedicle screw fixation: morphometry and mechanics. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 246.	2.3	8
32	Biomechanical Properties of Bioabsorbable Fixation for Osteochondral Shell Allografts. <i>Journal of Knee Surgery</i> , 2020, 33, 365-371.	1.6	8
33	Parametric imaging of collagen structural changes in human osteoarthritic cartilage using optical polarization tractography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	8
34	Characterization of the MPS I-H knock-in mouse reveals increased femoral biomechanical integrity with compromised material strength and altered bone geometry. <i>Molecular Genetics and Metabolism Reports</i> , 2015, 5, 3-11.	1.1	7
35	Investigating the relationship between proteomic, compositional, and histologic biomarkers and cartilage biomechanics using artificial neural networks. <i>Journal of Biomechanics</i> , 2018, 80, 136-143.	2.1	7
36	Pressure reducing skin pie-crusting in extremity trauma: An in-vitro biomechanical study and human case series. <i>Injury</i> , 2020, 51, 1266-1270.	1.7	7

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37	<i>In vivo</i> bone tunnel evaluation of nanoparticle grafts using an ACL reconstruction rabbit model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1071-1082.	4.0	6
38	Effects of Low-Temperature Hydrogen Peroxide Gas Plasma Sterilization on In Vitro Cytotoxicity of Poly( $\mu$ -Caprolactone) (PCL). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 2197-2206.	3.5	5
39	Finite element analysis of Stryker Xia pedicle screw in artificial bone samples with and without supplemental cement augmentation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1459-1467.	1.6	4
40	Balancing Academic Rigor and Creative Thinking: A Transformational Approach to Teaching Senior Design. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	4
41	Biomechanical evaluation of location and mode of failure in three screw fixations for a comminuted transforaminal sacral fracture model. <i>Journal of Orthopaedic Translation</i> , 2019, 16, 102-111.	3.9	4
42	Onlay Reconstruction of the Posterior Cruciate Ligament: Biomechanical Comparison of Unicortical and Bicortical Tibial Fixation. <i>Journal of Knee Surgery</i> , 2019, 32, 972-978.	1.6	4
43	Is Polymethyl Methacrylate a Viable Option for Salvaging Lateral Mass Screw Failure in the Subaxial Cervical Spine?. <i>Global Spine Journal</i> , 2015, 5, 3-8.	2.3	2
44	An Assessment of Compression Screws in Cadaver Foot and Ankle Specimens. , 2007, , 137.		0
45	Improving Pre-Operative Evaluation and Surgical Planning of Spine Deformity Surgeries Using 3D Printing. , 2009, , .		0
46	A Novel Technique to Achieve Fusion Using Local Autograft Bone: The Button Fusion. , 2007, , .		0
47	The Influence of Facet Fusion Strength on Instrumented Segment Range of Motion. , 2007, , .		0
48	An Evaluation of the Stryker 90D Pedicle Screw for Use as a Revision Screw. , 2007, , .		0
49	Segmental Stiffness Achieved by Three Types of Instrumented Fixation for Unstable Lumbar Spondylolytic Motion Segments. , 2009, , .		0
50	Soluble Activin Type IIB Receptor Decoy changes Gene Expression Profiles of Bone Cells in the OIM and not the G610C Mouse Model of Osteogenesis Imperfecta. <i>FASEB Journal</i> , 2018, 32, 660.5.	0.5	0