Paul S Weinhold

List of Publications by Year
in descending order

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86 papers	3,301 citations	147726 31 h-index	155592 55 g-index
86 all docs	86 docs citations	86 times ranked	3245 citing authors

#	Article	IF	Citations
1	Aggressive Quadriceps Loading Can Induce Noncontact Anterior Cruciate Ligament Injury. American Journal of Sports Medicine, 2004, 32, 477-483.	1.9	363
2	Ankle Syndesmosis Injuries: Anatomy, Biomechanics, Mechanism of Injury, and Clinical Guidelines for Diagnosis and Intervention. Journal of Orthopaedic and Sports Physical Therapy, 2006, 36, 372-384.	1.7	162
3	An in vivo model of degenerative disc disease. Journal of Orthopaedic Research, 2003, 21, 183-188.	1.2	136
4	The Effects of Strength Training on the Lower Extremity Biomechanics of Female Recreational Athletes during a Stop-Jump Task. American Journal of Sports Medicine, 2008, 36, 733-740.	1.9	136
5	The Effects of Common Anti-Inflammatory Drugs on the Healing Rat Patellar Tendon. American Journal of Sports Medicine, 2007, 35, 1326-1333.	1.9	132
6	The Effects of Feedback with and without Strength Training on Lower Extremity Biomechanics. American Journal of Sports Medicine, 2009, 37, 1301-1308.	1.9	121
7	Compression etiology in tendinopathy. Clinics in Sports Medicine, 2003, 22, 703-710.	0.9	106
8	A biomechanical comparison of EndoButton versus suture anchor repair of distal biceps tendon injuries. Journal of Shoulder and Elbow Surgery, 2006, 15, 509-514.	1.2	103
9	A Cyclooxygenase-2 Inhibitor Impairs Ligament Healing in the Rat. American Journal of Sports Medicine, 2001, 29, 801-805.	1.9	99
10	Gap Junctions Regulate Responses of Tendon Cells Ex Vivo to Mechanical Loading. Clinical Orthopaedics and Related Research, 1999, 367, S356-S370.	0.7	94
11	The Use of Suture Anchors in Repair of the Ruptured Patellar Tendon. American Journal of Sports Medicine, 2006, 34, 1492-1499.	1.9	94
12	Fixed-angle plate fixation in simulated fractures of the proximal humerus: a biomechanical study of a new device. Journal of Shoulder and Elbow Surgery, 2003, 12, 578-588.	1.2	90
13	Strain Behavior of the Distal Achilles Tendon. American Journal of Sports Medicine, 2004, 32, 457-461.	1.9	81
14	Strain patterns in the patellar tendon and the implications for patellar tendinopathy. Knee Surgery, Sports Traumatology, Arthroscopy, 2002, 10, 2-5.	2.3	73
15	Nonsteroidal Anti-inflammatory Drugs and Acetaminophen in the Treatment of an Acute Muscle Injury. American Journal of Sports Medicine, 2004, 32, 1856-1859.	1.9	64
16	Lower Extremity Energy Absorption and Biomechanics During Landing, Part I: Sagittal-Plane Energy Absorption Analyses. Journal of Athletic Training, 2013, 48, 748-756.	0.9	64
17	Comparison of cellular strain with applied substrate strain in vitro. Journal of Biomechanics, 2007, 40, 173-181.	0.9	58
18	Comparison of triceps surae structural stiffness and material modulus across sex. Clinical Biomechanics, 2006, 21, 159-167.	0.5	55

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19	A stochastic biomechanical model for risk and risk factors of non-contact anterior cruciate ligament injuries. Journal of Biomechanics, 2009, 42, 418-423.	0.9	54
20	Theoretical Study of the Effect of Ball Properties on Impact Force in Soccer Heading. Medicine and Science in Sports and Exercise, 2003, 35, 2069-2076.	0.2	52
21	Effect of COX-2 inhibitors and non-steroidal anti-inflammatory drugs on a mouse fracture model. Injury, 2006, 37, 827-837.	0.7	52
22	Decreasing Bacterial Colonization of External Fixation Pins Through Nitric Oxide Release Coatings. Journal of Orthopaedic Trauma, 2011, 25, 432-437.	0.7	50
23	Cyclic loading alters biomechanical properties and secretion of PGE2 and NO from tendon explants. Clinical Biomechanics, 2006, 21, 99-106.	0.5	46
24	Negative Pressure Therapy on Primarily Closed Wounds Improves Wound Healing Parameters at 3 Days in a Porcine Model. Journal of Orthopaedic Trauma, 2011, 25, 756-761.	0.7	42
25	Whole-Body and Local Muscle Vibration Immediately Improve Quadriceps Function in Individuals With Anterior Cruciate Ligament Reconstruction. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1121-1129.	0.5	42
26	Vibratory loading decreases extracellular matrix and matrix metalloproteinase gene expression in rabbit annulus cells. Spine Journal, 2002, 2, 415-420.	0.6	38
27	Distributing a fixed amount of cyclic loading to tendon explants over longer periods induces greater cellular and mechanical responses. Journal of Orthopaedic Research, 2007, 25, 1078-1086.	1.2	38
28	Biomechanical risk factors of non-contact ACL injuries: A stochastic biomechanical modeling study. Journal of Sport and Health Science, 2012, 1, 36-42.	3.3	36
29	Stochastic resonance electrical stimulation to improve proprioception in knee osteoarthritis. Knee, 2011, 18, 317-322.	0.8	35
30	The impact of stochastic resonance electrical stimulation and knee sleeve on impulsive loading and muscle co-contraction during gait in knee osteoarthritis. Clinical Biomechanics, 2011, 26, 853-858.	0.5	34
31	Biomechanical Analysis of a Double-Loaded Glenoid Anchor Configuration. American Journal of Sports Medicine, 2013, 41, 163-168.	1.9	34
32	Annulus cells release ATP in response to vibratory loading in vitro. Journal of Cellular Biochemistry, 2003, 90, 812-818.	1.2	30
33	Immediate effect of vibratory stimuli on quadriceps function in healthy adults. Muscle and Nerve, 2016, 54, 469-478.	1.0	30
34	Osseointegration of Coarse and Fine Textured Implants Manufactured by Electron Beam Melting and Direct Metal Laser Sintering. 3D Printing and Additive Manufacturing, 2017, 4, 91-97.	1.4	28
35	The Effect of Analgesic Agents on the Healing Rat Medial Collateral Ligament. American Journal of Sports Medicine, 2005, 33, 674-679.	1.9	26
36	Suture Plication, Thermal Shrinkage, and Sclerosing Agents. American Journal of Sports Medicine, 2005, 33, 1729-1734.	1.9	26

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37	Mechanical response of tendon subsequent to ramp loading to varying strain limits. Clinical Biomechanics, 2003, 18, 969-974.	0.5	25
38	Whole body vibration increases area and stiffness of the flexor carpi ulnaris tendon in the rat. Journal of Biomechanics, 2011, 44, 1189-1191.	0.9	25
39	Repair of lesser tuberosity osteotomy for shoulder arthroplasty: biomechanical evaluation of the Backpack and Dual Row techniques. Journal of Shoulder and Elbow Surgery, 2011, 20, 491-496.	1.2	24
40	The influence of gender-specific loading patterns of the stop-jump task on anterior cruciate ligament strain. Injury, 2007, 38, 973-978.	0.7	23
41	Effect of prostaglandin E2 injection on the structural properties of the rat patellar tendon. The Sports Medicine, Arthroscopy, Rehabilitationrapy and Technology, 2012, 4, 2.	1.0	23
42	Lower Extremity Energy Absorption and Biomechanics During Landing, Part II: Frontal-Plane Energy Analyses and Interplanar Relationships. Journal of Athletic Training, 2013, 48, 757-763.	0.9	23
43	Thermal Microdebridement Does Not Affect the Time Zero Biomechanical Properties of Human Patellar Tendons. American Journal of Sports Medicine, 2004, 32, 1946-1952.	1.9	21
44	Varying whole body vibration amplitude differentially affects tendon and ligament structural and material properties. Journal of Biomechanics, 2013, 46, 1496-1500.	0.9	20
45	An evaluation of prophylactic treatments to prevent post traumatic joint stiffness. Journal of Orthopaedic Research, 2014, 32, 1520-1524.	1.2	20
46	Transcortical Screw Fixation of the Olecranon Shows Equivalent Strength and Improved Stability Compared With Tension Band Fixation. Journal of Orthopaedic Trauma, 2014, 28, 137-142.	0.7	20
47	Combined local and systemic antibiotic treatment is effective against experimental Staphylococcus aureus periâ€implant biofilm infection. Journal of Orthopaedic Research, 2015, 33, 1320-1326.	1.2	20
48	The effects of stochastic resonance electrical stimulation and neoprene sleeve on knee proprioception. Journal of Orthopaedic Surgery and Research, 2009, 4, 3.	0.9	19
49	Evaluating effects of deferoxamine in a rat tibia critical bone defect model. Journal of Orthopaedics, 2014, 11, 5-9.	0.6	19
50	A Kinetic and Kinematic Analysis of the Effect of Stochastic Resonance Electrical Stimulation and Knee Sleeve During Gait in Osteoarthritis of the Knee. Journal of Applied Biomechanics, 2014, 30, 104-112.	0.3	19
51	A Biomechanical Comparison of Short Segment Long Bone Fracture Fixation Techniques. Journal of Orthopaedic Trauma, 2012, 26, 528-532.	0.7	18
52	Biomechanical Comparison of 3 Possible Fixation Strategies to Resist Femoral Neck Shortening After Fracture. Orthopedics, 2010, 33, 233-237.	0.5	18
53	Comparison of Fixation Methods After Anteromedialization Osteotomy of the Tibial Tubercle for Patellar Instability. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2013, 29, 1628-1634.	1.3	17
54	Use of an IL1â€receptor antagonist to prevent the progression of tendinopathy in a rat model. Journal of Orthopaedic Research, 2016, 34, 616-622.	1.2	17

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55	The effect of NKISK on tendon in an in vivo model. Journal of Orthopaedic Research, 2001, 19, 858-861.	1.2	16
56	Low-Magnitude, High-Frequency Vibration Fails to Accelerate Ligament Healing but Stimulates Collagen Synthesis in the Achilles Tendon. Orthopaedic Journal of Sports Medicine, 2015, 3, 232596711558578.	0.8	16
57	The Influence of a Cyclooxygenase-1 Inhibitor on Injured and Uninjured Ligaments in the Rat. American Journal of Sports Medicine, 2003, 31, 574-576.	1.9	14
58	Prostaglandin E₂, collagenase, and cell death responses depend on cyclical load magnitude in an explant model of tendinopathy. Connective Tissue Research, 2010, 51, 306-313.	1.1	14
59	Static and dynamic single leg postural control performance during dual-task paradigms. Journal of Sports Sciences, 2017, 35, 1118-1124.	1.0	14
60	A tissue explant system for assessing tendon overuse injury. Medical Engineering and Physics, 2005, 27, 803-808.	0.8	11
61	The Assessment of Postural Control With Stochastic Resonance Electrical Stimulation and a Neoprene Knee Sleeve in the Osteoarthritic Knee. Archives of Physical Medicine and Rehabilitation, 2012, 93, 1123-1128.	0.5	11
62	Evaluation of silverâ€titanium implants activated by low intensity direct current for orthopedic infection control: An in vitro and in vivo study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1023-1031.	1.6	11
63	The Effect of Levodopa or Levodopa-Carbidopa (Sinemet) on Fracture Healing. Journal of Orthopaedic Trauma, 2006, 20, 470-475.	0.7	10
64	Rat tibial osteotomy model providing a range of normal to impaired healing. Journal of Orthopaedic Research, 2011, 29, 109-115.	1.2	10
65	Improved osseointegration with as-built electron beam melted textured implants and improved periâ€implant bone volume with whole body vibration. Medical Engineering and Physics, 2018, 58, 64-71.	0.8	10
66	Local delivery of a zoledronate solution improves osseointegration of titanium implants in a rat distal femur model. Journal of Orthopaedic Research, 2018, 36, 3294-3298.	1.2	9
67	Some observations on the subfibrillar structure of collagen fibrils as noted during treatment with NKISK and cathepsin G with mechanical agitation. Journal of Electron Microscopy, 2011, 60, 177-182.	0.9	8
68	The use of an IL1â€receptor antagonist to reverse the changes associated with established tendinopathy in a rat model. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 82-88.	1.3	8
69	Submuscular Versus Subcutaneous Ulnar Nerve Transposition: A Cadaveric Model Evaluating Their RoleÂin Primary Ulnar Nerve Repair at the Elbow. Journal of Hand Surgery, 2017, 42, 571.e1-571.e7.	0.7	6
70	Effect of NKISK on tendon lengthening: An in vivo model for various clinically applicable dosing regimens. Journal of Orthopaedic Research, 2008, 26, 971-976.	1.2	5
71	Assessment of the Directional Elastic Moduli of Ewe Vertebral Cancellous Bone by Vibrational Testing. Annals of Biomedical Engineering, 1999, 27, 103-110.	1.3	4
72	Lateral Mass Versus Hybrid Construct for Cervical Laminectomy and Fusion. Orthopedics, 2013, 36, e484-8.	0.5	4

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73	Benefits of additive manufacturing and micro and nano surface texture modifications on mechanical strength and infection resistance of skinâ€“implant interfaces in rats. Journal of Biomaterials Applications, 2020, 34, 1193-1200.	1.2	4
74	Proximal Humeral Locking Plates: A Cadaveric Study of 5 Versus 7 Metaphyseal Locking Screws. Orthopedics, 2018, 41, 306-311.	0.5	3
75	Bone changes after short-term whole body vibration are confined to cancellous bone. Journal of Musculoskeletal Neuronal Interactions, 2018, 18, 485-492.	0.1	3
76	In vivo evaluation of patellar tendon stiffness in individuals with patellofemoral pain syndrome. Applied Bionics and Biomechanics, 2008, 5, 59-63.	0.5	2
77	Response to Letter to the Editor: Comment on â€œA stochastic biomechanical model for risk and risk factors of non-contact anterior cruciate ligament injuriesâ€. Journal of Biomechanics, 2009, 42, 1780-1782.	0.9	2
78	Minocycline microspheres did not significantly improve outcomes after collagenase injection of tendon. Journal of Orthopaedics, 2019, 16, 580-584.	0.6	2
79	A Biomechanical Comparison of Modified Radioscapholunate Fusion Constructs for Radiocarpal Arthritis. Journal of Hand Surgery, 2020, 45, 983.e1-983.e7.	0.7	2
80	Interleukin-1 receptor antagonist inhibits arthrofibrosis in a post-traumatic knee immobilization model. Knee, 2021, 33, 210-215.	0.8	2
81	Osteogenic benefits of low-intensity pulsed ultrasound and vibration in a rodent osseointegration model. Journal of Musculoskeletal Neuronal Interactions, 2019, 19, 150-158.	0.1	2
82	Biomechanical effects of steroid injections used to treat pyogenic flexor tenosynovitis. Journal of Orthopaedic Surgery and Research, 2012, 7, 34.	0.9	1
83	Effect of local zoledronic acid administration in a rat model of posterolateral spinal fusion. Journal of Orthopaedics, 2020, 17, 101-105.	0.6	1
84	Locally delivered minocycline microspheres do not impair osseointegration of titanium implants in a rat femur model. Journal of Orthopaedics, 2020, 20, 213-216.	0.6	1
85	Whole Body Vibration Amplitude Levels Differentially Affect Tendon and Ligament Structural Properties. , 2011, , .		0
86	2-Octyl Cyanoacrylate (DermabondÂ®) Inhibits Bridging Bone Formation of Articular Fractures in a Rat Model. Cureus, 2021, 13, e16758.	0.2	0