Derek P Lindsey

List of Publications by Year
in descending order

76 papers	4,088 citations	101543 36 h-index	114465 63 g-index
76 all docs	76 docs citations	76 times ranked	3566 citing authors

#	Article	IF	Citations
1	Effects of Creep and Cyclic Loading on the Mechanical Properties and Failure of Human Achilles Tendons. Annals of Biomedical Engineering, 2003, 31, 710-717.	2.5	205
2	The Effects of an Interspinous Implant on the Kinematics of the Instrumented and Adjacent Levels in the Lumbar Spine. Spine, 2003, 28, 2192-2197.	2.0	205
3	The Effects of an Interspinous Implant on Intervertebral Disc Pressures. Spine, 2003, 28, 26-32.	2.0	201
4	The Treatment Mechanism of an Interspinous Process Implant for Lumbar Neurogenic Intermittent Claudication. Spine, 2005, 30, 744-749.	2.0	197
5	Effects of Hydrostatic Pressure and Transforming Growth Factor-Î²3 on Adult Human Mesenchymal Stem Cell Chondrogenesis In Vitro. Tissue Engineering, 2006, 12, 1419-1428.	4.6	187
6	The Effect of an Interspinous Process Implant on Facet Loading During Extension. Spine, 2005, 30, 903-907.	2.0	150
7	Hydrostatic Pressure Enhances Chondrogenic Differentiation of Human Bone Marrow Stromal Cells in Osteochondrogenic Medium. Annals of Biomedical Engineering, 2008, 36, 813-820.	2.5	141
8	The proximal hip joint capsule and the zona orbicularis contribute to hip joint stability in distraction. Journal of Orthopaedic Research, 2009, 27, 989-995.	2.3	141
9	Capsaicin-Sensitive Sensory Neurons Contribute to the Maintenance of Trabecular Bone Integrity. Journal of Bone and Mineral Research, 2004, 20, 257-267.	2.8	140
10	Dose- and Time-Dependent Effects of Cyclic Hydrostatic Pressure on Transforming Growth Factor-Î²3-Induced Chondrogenesis by Adult Human Mesenchymal Stem Cellsin Vitro. Tissue Engineering, 2006, 12, 2253-2262.	4.6	136
11	Distal Biceps Tendon Repair. American Journal of Sports Medicine, 2006, 34, 968-974.	4.2	115
12	Long-Term Cognitive Impairments and Pathological Alterations in a Mouse Model of Repetitive Mild Traumatic Brain Injury. Frontiers in Neurology, 2014, 5, 12.	2.4	114
13	Flexor Tendon Tissue Engineering: Acellularization of Human Flexor Tendons with Preservation of Biomechanical Properties and Biocompatibility. Tissue Engineering - Part C: Methods, 2011, 17, 819-828.	2.1	107
14	An Anatomic Arthroscopic Description of the Hip Capsular Ligaments for the Hip Arthroscopist. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2011, 27, 628-636.	2.7	100
15	Vertebroplasty Versus Kyphoplasty: Biomechanical Behavior Under Repetitive Loading Conditions. Spine, 2006, 31, 2079-2084.	2.0	99
16	Flexor Tendon Tissue Engineering: Bioreactor Cyclic Strain Increases Construct Strength. Tissue Engineering - Part A, 2010, 16, 2085-2090.	3.1	84
17	Intramedullary Screw Fixation of Proximal Fifth Metatarsal Fractures: A Biomechanical Study. Foot and Ankle International, 2001, 22, 581-584.	2.3	79
18	Mechanobiology of mandibular distraction osteogenesis: experimental analyses with a rat model. Bone, 2004, 34, 336-343.	2.9	72

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19	Strains across the Acetabular Labrum during Hip Motion. American Journal of Sports Medicine, 2011, 39, 92-102.	4.2	70
20	In vitro analysis of peri-articular soft tissues passive constraining effect on hip kinematics and joint stability. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 1655-1663.	4.2	60
21	The effect of relaxin on the female anterior cruciate ligament: Analysis of mechanical properties in an animal model. Knee, 2009, 16, 69-72.	1.6	59
22	Flexor Tendon Tissue Engineering: Acellularized and Reseeded Tendon Constructs. Plastic and Reconstructive Surgery, 2009, 123, 1759-1766.	1.4	56
23	Posterior Stabilization at the Cervicothoracic Junction. Spine, 2002, 27, 2763-2770.	2.0	55
24	Tissue Engineering of Flexor Tendons: The Effect of a Tissue Bioreactor on Adipoderived Stem Cellâ€“Seeded and Fibroblast-Seeded Tendon Constructs. Journal of Hand Surgery, 2010, 35, 1466-1472.	1.6	52
25	A quantitative assessment of the insertional footprints of the hip joint capsular ligaments and their spanning fibers for reconstruction. Clinical Anatomy, 2014, 27, 489-497.	2.7	49
26	Sacroiliac Joint Fusion Minimally Affects Adjacent Lumbar Segment Motion: A Finite Element Study. International Journal of Spine Surgery, 2015, 9, 64.	1.5	49
27	The Effect of Implant Placement on Sacroiliac Joint Range of Motion. Spine, 2015, 40, E525-E530.	2.0	48
28	An in vivo murine model of continuous intramedullary infusion of polyethylene particles. Biomaterials, 2008, 29, 3738-3742.	11.4	47
29	Posterior Glenoid Wear in Total Shoulder Arthroplasty: Eccentric Anterior Reaming Is Superior to Posterior Augment. Clinical Orthopaedics and Related Research, 2015, 473, 3928-3936.	1.5	44
30	Insertion loads of the X STOP interspinous process distraction system designed to treat neurogenic intermittent claudication. European Spine Journal, 2006, 15, 908-912.	2.2	43
31	Osteochondral Lesions of the Talus. American Journal of Sports Medicine, 2012, 40, 895-901.	4.2	43
32	Deriving tissue density and elastic modulus from microCT bone scans. Bone, 2011, 49, 931-938.	2.9	42
33	Pectoralis major tendon rupture: A biomechanical analysis of repair techniques. Journal of Orthopaedic Research, 2011, 29, 1783-1787.	2.3	42
34	The Use of an Interspinous Implant in Conjunction With a Graded Facetectomy Procedure. Spine, 2005, 30, 1266-1272.	2.0	40
35	Biomechanical Evaluation of a 1-Stage Revision Anterior Cruciate Ligament Reconstruction Technique Using a Structural Bone Void Filler for Femoral Fixation. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2009, 25, 1011-1018.	2.7	38
36	Two ulnar collateral ligament reconstruction methods: The docking technique versus bioabsorbable interference screw fixationâ€”A biomechanical evaluation with cyclic loading. Journal of Shoulder and Elbow Surgery, 2007, 16, 224-228.	2.6	36

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37	Locked versus Nonlocked Plate Fixation for First Metatarsophalangeal Arthrodesis: A Biomechanical Investigation. Foot and Ankle International, 2012, 33, 984-990.	2.3	36
38	Bone microstructure and its associated genetic variability in 12 inbred mouse strains: Î¼CT study and in silico genome scan. Bone, 2008, 42, 439-451.	2.9	35
39	Biomechanics of unilateral and bilateral sacroiliac joint stabilization: laboratory investigation. Journal of Neurosurgery: Spine, 2018, 28, 326-332.	1.7	35
40	Evaluation of a minimally invasive procedure for sacroiliac joint fusion – an in vitro biomechanical analysis of initial and cycled properties. Medical Devices: Evidence and Research, 2014, 7, 131.	0.8	33
41	Decellularized Tendon-Bone Composite Grafts for Extremity Reconstruction. Plastic and Reconstructive Surgery, 2014, 133, 79-89.	1.4	33
42	Trapezium Trabecular Morphology in Carpometacarpal Arthritis. Journal of Hand Surgery, 2013, 38, 309-315.	1.6	31
43	A Viscoelastic Constitutive Model Can Accurately Represent Entire Creep Indentation Tests of Human Patella Cartilage. Journal of Applied Biomechanics, 2013, 29, 292-302.	0.8	30
44	Biomechanical Analysis of Derotation of the Thoracic Spine Using Pedicle Screws. Spine, 2010, 35, 1039-1043.	2.0	29
45	Biomechanical analysis of bicortical versus unicortical locked plating of mid-clavicular fractures. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 773-778.	2.4	28
46	Single column locking plate fixation is inadequate in two column acetabular fractures. A biomechanical analysis. Journal of Orthopaedic Surgery and Research, 2010, 5, 30.	2.3	27
47	Biomechanical Determination of Distal Level for Fusions across the Cervicothoracic Junction. Global Spine Journal, 2015, 5, 282-286.	2.3	27
48	Sacroiliac joint stability: Finite element analysis of implant number, orientation, and superior implant length. World Journal of Orthopedics, 2018, 9, 14-23.	1.8	27
49	Fortifying the Bone-Implant Interface Part 1: An In Vitro Evaluation of 3D-Printed and TPS Porous Surfaces. International Journal of Spine Surgery, 2017, 11, 15.	1.5	25
50	Fortifying the Bone-Implant Interface Part 2: An In Vivo Evaluation of 3D-Printed and TPS-Coated Triangular Implants. International Journal of Spine Surgery, 2017, 11, 16.	1.5	25
51	Measurement of in Vivo Lumbar Intervertebral Disc Pressure during Spinal Manipulation: A Feasibility Study. Journal of Applied Biomechanics, 2006, 22, 234-239.	0.8	23
52	New resource for the computation of cartilage biphasic material properties with the interpolant response surface method. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 415-422.	1.6	23
53	Bioabsorbable Tricalcium Phosphate Bone Cement Strengthens Fixation of Suture Anchors. Clinical Orthopaedics and Related Research, 2010, 468, 3406-3412.	1.5	23
54	Evaluation of iliac screw, S2 alar-iliac screw and laterally placed triangular titanium implants for sacropelvic fixation in combination with posterior lumbar instrumentation: a finite element study. European Spine Journal, 2019, 28, 1724-1732.	2.2	21

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55	Bone Cement Improves Suture Anchor Fixation. Clinical Orthopaedics and Related Research, 2006, 451, 236-241.	1.5	20
56	Effects of tensile strain and fluid flow on osteoarthritic human chondrocyte metabolism in vitro. Journal of Orthopaedic Research, 2010, 28, 907-913.	2.3	20
57	Evaluation of a one-stage ACL revision Technique using bone void filler after cyclic loading. Knee, 2012, 19, 477-481.	1.6	20
58	Biomechanical Testing of Epitenon Suture Strength in Achilles Tendon Repairs. Foot and Ankle International, 2007, 28, 1074-1077.	2.3	18
59	Biomechanical Comparison of Blade Plate and Intramedullary Nail Fixation for Tibiocalcaneal Arthrodesis. Foot and Ankle International, 2010, 31, 164-171.	2.3	18
60	Biomechanical Evaluation of a Novel Reverse Coracoacromial Ligament Reconstruction for Acromioclavicular Joint Separation. American Journal of Sports Medicine, 2012, 40, 440-446.	4.2	17
61	Gene Regulation ex Vivo within a Wrap-Around Tendon. Tissue Engineering, 2006, 12, 2611-2618.	4.6	16
62	The Monotonic and Fatigue Properties of Osteoporotic Thoracic Vertebral Bodies. Spine, 2005, 30, 645-649.	2.0	15
63	Biomechanics of sacropelvic fixation: a comprehensive finite element comparison of three techniques. European Spine Journal, 2020, 29, 295-305.	2.2	12
64	The use of triangular implants to enhance sacropelvic fixation: a finite element investigation. Spine Journal, 2020, 20, 1717-1724.	1.3	12
65	Biomechanical Comparison of the Simple Running and Cross-Stitch Epitenon Sutures in Achilles Tendon Repairs. Foot and Ankle International, 2008, 29, 513-517.	2.3	12
66	An analysis of four ulnar collateral ligament reconstruction procedures with cyclic valgus loading. Journal of Shoulder and Elbow Surgery, 2009, 18, 58-63.	2.6	11
67	New bone formation by murine osteoprogenitor cells cultured on corticocancellous allograft bone. Journal of Orthopaedic Research, 2008, 26, 1660-1664.	2.3	10
68	Biomechanical effects of a novel posteriorly placed sacroiliac joint fusion device integrated with traditional lumbopelvic long-construct instrumentation. Journal of Neurosurgery: Spine, 2021, 35, 320-329.	1.7	7
69	Biomechanics of a laterally placed sacroiliac joint fusion device supplemental to S2 alar-iliac fixation in a long-segment adult spinal deformity construct: a cadaveric study of stability and strain distribution. Journal of Neurosurgery: Spine, 2022, 36, 42-52.	1.7	6
70	Antirotation Pins Improve Stability of the Compress Limb Salvage Implant: A Biomechanical Study. Clinical Orthopaedics and Related Research, 2014, 472, 3982-3986.	1.5	5
71	Replicating a Colles fracture in an excised radius: Revisiting testing protocols. Journal of Biomechanics, 2012, 45, 997-1002.	2.1	3
72	Biomechanical Stability of Primary and Revision Sacroiliac Joint Fusion Devices: A Cadaveric Study. Global Spine Journal, 2022, 12, 45-52.	2.3	3

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73	Innovative sacropelvic fixation using iliac screws and triangular titanium implants. European Spine Journal, 2021, 30, 3763-3770.	2.2	3
74	Optimization of flexor tendon tissue engineering using bioreactor cyclic strain. Journal of the American College of Surgeons, 2008, 207, S64.	0.5	1
75	Tissue engineering of flexor tendons: The effect of a tissue bioreactor on adipoderived stem cellâ€“seeded and fibroblast-seeded constructs. Journal of the American College of Surgeons, 2009, 209, S75-S76.	0.5	1
76	Comparative analysis of the lateral and posterolateral trajectories for fixation of the sacroiliac jointâ€”a cadaveric study. Journal of Orthopaedic Surgery and Research, 2020, 15, 489.	2.3	1