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	Biomechanical Stability of Primary and Revision Sacroiliac Joint Fusion Devices: A Cadaveric Study. Global Spine Journal, 2022, 12, 45-52.	2.3	3
2	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
3	Innovative sacropelvic fixation using iliac screws and triangular titanium implants. European Spine Journal, 2021, 30, 3763-3770.	2.2	3
4	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
5	Biomechanics of sacropelvic fixation: a comprehensive finite element comparison of three techniques. European Spine Journal, 2020, 29, 295-305.	2.2	12
6	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
7	The use of triangular implants to enhance sacropelvic fixation: a finite element investigation. Spine Journal, 2020, 20, 1717-1724.	1.3	12
8	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
9	Biomechanics of unilateral and bilateral sacroiliac joint stabilization: laboratory investigation. Journal of Neurosurgery: Spine, 2018, 28, 326-332.	1.7	35
10	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
11	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
12	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
13	The Effect of Implant Placement on Sacroiliac Joint Range of Motion. Spine, 2015, 40, E525-E530.	2.0	48
14	Biomechanical Determination of Distal Level for Fusions across the Cervicothoracic Junction. Global Spine Journal, 2015, 5, 282-286.	2.3	27
15	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
16	Sacroiliac Joint Fusion Minimally Affects Adjacent Lumbar Segment Motion: A Finite Element Study. International Journal of Spine Surgery, 2015, 9, 64.	1.5	49
17	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
18	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

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19	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
20	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
21	Decellularized Tendon-Bone Composite Grafts for Extremity Reconstruction. Plastic and Reconstructive Surgery, 2014, 133, 79-89.	1.4	33
22	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
23	Trapezium Trabecular Morphology in Carpometacarpal Arthritis. Journal of Hand Surgery, 2013, 38, 309-315.	1.6	31
24	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
25	Locked versus Nonlocked Plate Fixation for First Metatarsophalangeal Arthrodesis: A Biomechanical Investigation. Foot and Ankle International, 2012, 33, 984-990.	2.3	36
26	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
27	Osteochondral Lesions of the Talus. American Journal of Sports Medicine, 2012, 40, 895-901.	4.2	43
28	Replicating a Colles fracture in an excised radius: Revisiting testing protocols. Journal of Biomechanics, 2012, 45, 997-1002.	2.1	3
29	Evaluation of a one-stage ACL revision Technique using bone void filler after cyclic loading. Knee, 2012, 19, 477-481.	1.6	20
30	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
31	Deriving tissue density and elastic modulus from microCT bone scans. Bone, 2011, 49, 931-938.	2.9	42
32	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
33	Pectoralis major tendon rupture: A biomechanical analysis of repair techniques. Journal of Orthopaedic Research, 2011, 29, 1783-1787.	2.3	42
34	Strains across the Acetabular Labrum during Hip Motion. American Journal of Sports Medicine, 2011, 39, 92-102.	4.2	70
35	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
36	Biomechanical Analysis of Derotation of the Thoracic Spine Using Pedicle Screws. Spine, 2010, 35, 1039-1043.	2.0	29

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37	Bioabsorbable Tricalcium Phosphate Bone Cement Strengthens Fixation of Suture Anchors. Clinical Orthopaedics and Related Research, 2010, 468, 3406-3412.	1.5	23
38	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
39	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
40	Flexor Tendon Tissue Engineering: Bioreactor Cyclic Strain Increases Construct Strength. Tissue Engineering - Part A, 2010, 16, 2085-2090.	3.1	84
41	Biomechanical Comparison of Blade Plate and Intramedullary Nail Fixation for Tibiocalcaneal Arthrodesis. Foot and Ankle International, 2010, 31, 164-171.	2.3	18
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Flexor Tendon Tissue Engineering: Acellularized and Reseeded Tendon Constructs. Plastic and Reconstructive Surgery, 2009, 123, 1759-1766.	1.4	56
50	An in vivo murine model of continuous intramedullary infusion of polyethylene particles. Biomaterials, 2008, 29, 3738-3742.	11.4	47
51	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
52	New bone formation by murine osteoprogenitor cells cultured on corticocancellous allograft bone. Journal of Orthopaedic Research, 2008, 26, 1660-1664.	2.3	10
53	Optimization of flexor tendon tissue engineering using bioreactor cyclic strain. Journal of the American College of Surgeons, 2008, 207, S64.	0.5	1
54	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

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55	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
56	Biomechanical Testing of Epitenon Suture Strength in Achilles Tendon Repairs. Foot and Ankle International, 2007, 28, 1074-1077.	2.3	18
57	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
58	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
59	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
60	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
61	Bone Cement Improves Suture Anchor Fixation. Clinical Orthopaedics and Related Research, 2006, 451, 236-241.	1.5	20
62	Vertebroplasty Versus Kyphoplasty: Biomechanical Behavior Under Repetitive Loading Conditions. Spine, 2006, 31, 2079-2084.	2.0	99
63	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
64	Distal Biceps Tendon Repair. American Journal of Sports Medicine, 2006, 34, 968-974.	4.2	115
65	Gene Regulation ex Vivo within a Wrap-Around Tendon. Tissue Engineering, 2006, 12, 2611-2618.	4.6	16
66	The Monotonic and Fatigue Properties of Osteoporotic Thoracic Vertebral Bodies. Spine, 2005, 30, 645-649.	2.0	15
67	The Treatment Mechanism of an Interspinous Process Implant for Lumbar Neurogenic Intermittent Claudication. Spine, 2005, 30, 744-749.	2.0	197
68	The Effect of an Interspinous Process Implant on Facet Loading During Extension. Spine, 2005, 30, 903-907.	2.0	150
69	The Use of an Interspinous Implant in Conjunction With a Graded Facetectomy Procedure. Spine, 2005, 30, 1266-1272.	2.0	40
70	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
71	Mechanobiology of mandibular distraction osteogenesis: experimental analyses with a rat model. Bone, 2004, 34, 336-343.	2.9	72
72	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

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73	The Effects of an Interspinous Implant on Intervertebral Disc Pressures. Spine, 2003, 28, 26-32.	2.0	201
74	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
75	Posterior Stabilization at the Cervicothoracic Junction. Spine, 2002, 27, 2763-2770.	2.0	55
76	Intramedullary Screw Fixation of Proximal Fifth Metatarsal Fractures: A Biomechanical Study. Foot and Ankle International, 2001, 22, 581-584.	2.3	79