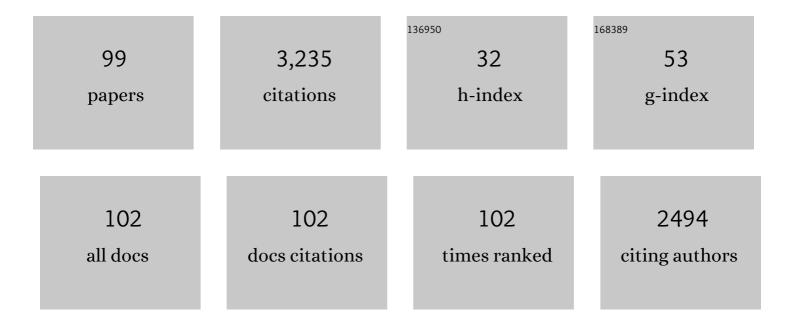
List of Publications by Year in descending order

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WILLIAM R LEDOUX

#	Article	IF	CITATIONS
1	Mechanical characterization of fibrotic and mineralized tissue in Peyronie's disease. International Journal of Impotence Research, 2022, 34, 477-486.	1.8	7
2	Evaluation of the Foot Arch in Partial Weightbearing Conditions. Foot and Ankle International, 2022, 43, 113-122.	2.3	2
3	Foot radiographic angle variation as a function of weightbearing magnitude. Journal of Orthopaedic Research, 2022, , .	2.3	1
4	A novel workflow to fabricate a patient-specific 3D printed accommodative foot orthosis with personalized latticed metamaterial. Medical Engineering and Physics, 2022, 104, 103802.	1.7	11
5	Ankle fusion and replacement gait similar postâ€surgery, but still exhibit differences versus controls regardless of footwear. Journal of Orthopaedic Research, 2021, 39, 2506-2518.	2.3	1
6	Comparing 4-Year Changes in Patient-Reported Outcomes Following Ankle Arthroplasty and Arthrodesis. Journal of Bone and Joint Surgery - Series A, 2021, 103, 869-878.	3.0	22
7	The Impact of Coronal Plane Deformity on Ankle Arthrodesis and Arthroplasty. Foot and Ankle International, 2021, 42, 1294-1302.	2.3	12
8	Comparison of texture-based classification and deep learning for plantar soft tissue histology segmentation. Computers in Biology and Medicine, 2021, 134, 104491.	7.0	6
9	The compressive, shear, biochemical, and histological characteristics of diabetic and non-diabetic plantar skin are minimally different. Journal of Biomechanics, 2021, 129, 110797.	2.1	7
10	Anteroposterior Translational Malalignment of Ankle Arthrodesis Alters Foot Biomechanics in Cadaveric Gait Simulation. Journal of Orthopaedic Research, 2020, 38, 450-458.	2.3	9
11	Neuropathy, claw toes, intrinsic muscle volume, and plantar aponeurosis thickness in diabetic feet. BMC Musculoskeletal Disorders, 2020, 21, 485.	1.9	16
12	Does Coronal Plane Malalignment of the Tibial Insert in Total Ankle Arthroplasty Alter Distal Foot Bone Mechanics? A Cadaveric Gait Study. Clinical Orthopaedics and Related Research, 2020, 478, 1683-1695.	1.5	6
13	Calibration of the shear wave speed-stress relationship in in situ Achilles tendons using cadaveric simulations of gait and isometric contraction. Journal of Biomechanics, 2020, 106, 109799.	2.1	11
14	Altered Range of Motion and Plantar Pressure in Anterior and Posterior Malaligned Total Ankle Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2019, 101, e93.	3.0	13
15	Effectiveness and Safety of Ankle Arthrodesis Versus Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1485-1494.	3.0	62
16	Step Activity After Surgical Treatment of Ankle Arthritis. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1177-1184.	3.0	18
17	3D Printed lattice microstructures to mimic soft biological materials. Bioinspiration and Biomimetics, 2019, 14, 016001.	2.9	7
18	Hind―and midfoot bone morphology varies with foot type and sex. Journal of Orthopaedic Research, 2019. 37. 744-759.	2.3	20

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#	Article	IF	CITATIONS
19	A three-year prospective comparative gait study between patients with ankle arthrodesis and arthroplasty. Clinical Biomechanics, 2018, 54, 42-53.	1.2	22
20	Model-based tracking of the bones of the foot: A biplane fluoroscopy validation study. Computers in Biology and Medicine, 2018, 92, 118-127.	7.0	8
21	Passive engineering mechanism enhancement of a flexor digitorum longus tendon transfer procedure. Journal of Orthopaedic Research, 2018, 36, 3033-3042.	2.3	6
22	Frequency and Impact of Adverse Events in Patients Undergoing Surgery for End-Stage Ankle Arthritis. Foot and Ankle International, 2018, 39, 1028-1038.	2.3	18
23	Metatarsal Shape and Foot Type: A Geometric Morphometric Analysis. Journal of Biomechanical Engineering, 2017, 139, .	1.3	8
24	A preliminary study of patient-specific mechanical properties of diabetic and healthy plantar soft tissue from gated magnetic resonance imaging. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 625-633.	1.8	6
25	Comparison of Treatment Outcomes of Arthrodesis and Two Generations of Ankle Replacement Implants. Journal of Bone and Joint Surgery - Series A, 2017, 99, 1792-1800.	3.0	52
26	Total Ankle Arthroplasty: Minimum Follow-up Policy for Reporting Results and Guidelines for Reporting Problems and Complications Resulting in Reoperations. Foot and Ankle International, 2017, 38, 703-704.	2.3	36
27	Histomorphological and biochemical properties of plantar soft tissue in diabetes. Foot, 2017, 33, 1-6.	1.1	18
28	Hyperelastic compressive mechanical properties of the subcalcaneal soft tissue: An inverse finite element analysis. Journal of Biomechanics, 2016, 49, 1186-1191.	2.1	18
29	The association between mechanical and biochemical/histological characteristics in diabetic and non-diabetic plantar soft tissue. Journal of Biomechanics, 2016, 49, 3328-3333.	2.1	12
30	The design and validation of a magnetic resonance imaging–compatible device for obtaining mechanical properties of plantar soft tissue via gated acquisition. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 732-742.	1.8	7
31	The Biomechanics of Aging and Diabetic Plantar Soft Tissue. Engineering Materials and Processes, 2015, , 187-206.	0.4	2
32	The Sensitivity of Standard Radiographic Foot Measures to Misalignment. Foot and Ankle International, 2014, 35, 1334-1340.	2.3	31
33	Talonavicular joint coverage and bone morphology between different foot types. Journal of Orthopaedic Research, 2014, 32, 958-966.	2.3	35
34	Comparison of transfer sites for flexor digitorum longus in a cadaveric adult acquired flatfoot model. Journal of Orthopaedic Research, 2014, 32, 102-109.	2.3	15
35	Second metatarsal osteotomies for metatarsalgia: A robotic cadaveric study of the effect of osteotomy plane and metatarsal shortening on plantar pressure. Journal of Orthopaedic Research, 2014, 32, 385-393.	2.3	8
36	Does Activity Affect Residual Limb Skin Temperatures?. Clinical Orthopaedics and Related Research, 2014, 472, 3062-3067.	1.5	27

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37	Joint-specific distance thresholds for patient-specific approximations of articular cartilage modeling in the first ray of the foot. Medical and Biological Engineering and Computing, 2014, 52, 773-779.	2.8	5
38	Marker-based validation of a biplane fluoroscopy system for quantifying foot kinematics. Medical Engineering and Physics, 2014, 36, 391-396.	1.7	21
39	Diabetic foot ulcer incidence in relation to plantar pressure magnitude and measurement location. Journal of Diabetes and Its Complications, 2013, 27, 621-626.	2.3	98
40	The Effect of Prior Compression Tests on the Plantar Soft Tissue Compressive and Shear Properties. Journal of Biomechanical Engineering, 2013, 135, 94501.	1.3	4
41	A flexible toolkit for rapid GPU-based generation of DRRs for 2D-3D registration. , 2013, , .		1
42	latrogenic Syndesmosis Malreduction via Clamp and Screw Placement. Journal of Orthopaedic Trauma, 2013, 27, 100-106.	1.4	111
43	Graphical User Interface for Human Intervention in 2D-3D Registration of Medical Images. , 2013, , .		0
44	Patellar Resurfacing in Primary Total Knee Replacement. Journal of Bone and Joint Surgery - Series A, 2012, 94, 2270-2278.	3.0	129
45	Functional Limitations Associated with End-Stage Ankle Arthritis. Journal of Bone and Joint Surgery - Series A, 2012, 94, 777-783.	3.0	46
46	The Comparative Morphology of Idiopathic Ankle Osteoarthritis. Journal of Bone and Joint Surgery - Series A, 2012, 94, e181-1-6.	3.0	20
47	Comparative Gait Analysis of Ankle Arthrodesis and Arthroplasty: Initial Findings of a Prospective Study. Foot and Ankle International, 2012, 33, 282-289.	2.3	92
48	An interfacial stress sensor for biomechanical applications. Measurement Science and Technology, 2012, 23, 085701.	2.6	22
49	A Robotic Cadaveric Gait Simulator With Fuzzy Logic Vertical Ground Reaction Force Control. IEEE Transactions on Robotics, 2012, 28, 246-255.	10.3	40
50	Second Metatarsal Length is Positively Correlated with Increased Pressure and Medial Deviation of the Second Toe in a Robotic Cadaveric Simulation of Gait. Foot and Ankle International, 2012, 33, 312-319.	2.3	26
51	The shear mechanical properties of diabetic and non-diabetic plantar soft tissue. Journal of Biomechanics, 2012, 45, 364-370.	2.1	51
52	Finite element analysis of the foot: Model validation and comparison between two common treatments of the clawed hallux deformity. Clinical Biomechanics, 2012, 27, 837-844.	1.2	44
53	The effect of prior compression tests on the plantar soft tissue compressive and shear elastic properties. Journal of Foot and Ankle Research, 2012, 5, .	1.9	0
54	Lower Limb Structure, Function, and Locomotion Biomechanics. , 2012, , 265-298.		0

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55	Histomorphometric comparison after fixation with formaldehyde or glyoxal. Biotechnic and Histochemistry, 2011, 86, 359-365.	1.3	15
56	Foot bone kinematics as measured in a cadaveric robotic gait simulator. Gait and Posture, 2011, 33, 645-650.	1.4	68
57	The Quasi-Linear Viscoelastic Properties of Diabetic and Non-Diabetic Plantar Soft Tissue. Annals of Biomedical Engineering, 2011, 39, 1517-1527.	2.5	35
58	Foot bone kinematics at half and three quarters body weight: A robotic cadaveric simulation of stance phase. , 2011, , .		1
59	Histomorphological Evaluation of Diabetic and Non-Diabetic Plantar Soft Tissue. Foot and Ankle International, 2011, 32, 802-810.	2.3	49
60	A Robotic Cadaveric Flatfoot Analysis of Stance Phase. Journal of Biomechanical Engineering, 2011, 133, 051005.	1.3	15
61	Multi-Rigid Image Segmentation and Registration for the Analysis of Joint Motion From Three-Dimensional Magnetic Resonance Imaging. Journal of Biomechanical Engineering, 2011, 133, 101005.	1.3	12
62	Evaluating Foot Kinematics Using Magnetic Resonance Imaging: From Maximum Plantar Flexion, Inversion, and Internal Rotation to Maximum Dorsiflexion, Eversion, and External Rotation. Journal of Biomechanical Engineering, 2011, 133, 104502.	1.3	20
63	The compressive mechanical properties of diabetic and non-diabetic plantar soft tissue. Journal of Biomechanics, 2010, 43, 1754-1760.	2.1	107
64	Arthrodesis of the First Metatarsophalangeal Joint: A Robotic Cadaver Study of the Dorsiflexion Angle. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1754-1764.	3.0	37
65	Quantifying Ligament Cross-Sectional Area via Molding and Casting. Journal of Biomechanical Engineering, 2010, 132, 091012.	1.3	9
66	The Effect of Target Strain Error on Plantar Tissue Stress. Journal of Biomechanical Engineering, 2010, 132, 071001.	1.3	7
67	Cadaveric Simulation of a Pes Cavus Foot. Foot and Ankle International, 2009, 30, 44-50.	2.3	6
68	Cadaveric flatfoot model: Ligament attenuation and Achilles tendon overpull. Journal of Orthopaedic Research, 2009, 27, 1547-1554.	2.3	50
69	Wavelet SDF-Reps: Solid Modeling With Volumetric Scans. Journal of Computing and Information Science in Engineering, 2009, 9, .	2.7	3
70	Gait Simulation via a 6-DOF Parallel Robot With Iterative Learning Control. IEEE Transactions on Biomedical Engineering, 2008, 55, 1237-1240.	4.2	52
71	A finite element foot model for simulating muscle imbalances. Journal of Foot and Ankle Research, 2008, 1, .	1.9	3
72	Foot ulcer risk and location in relation to prospective clinical assessment of foot shape and mobility among persons with diabetes. Diabetes Research and Clinical Practice, 2008, 82, 226-232.	2.8	64

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73	Development of a Microfabricated Optical Bend Loss Sensor for Distributive Pressure Measurement. IEEE Transactions on Biomedical Engineering, 2008, 55, 614-625.	4.2	12
74	Measuring Residual Limb Skin Temperatures at the Skin-Prosthesis Interface. Journal of Prosthetics and Orthotics, 2008, 20, 170-173.	0.4	30
75	The thermal conductivity of prosthetic sockets and liners. Prosthetics and Orthotics International, 2007, 31, 292-299.	1.0	59
76	Correction of Clawed Hallux Deformity: Comparison of the Jones Procedure and FHL Transfer in a Cadaver Model. Foot and Ankle International, 2007, 28, 369-376.	2.3	10
77	Composite Optical Bend Loss Sensor for Pressure and Shear Measurement. IEEE Sensors Journal, 2007, 7, 1554-1565.	4.7	25
78	Artifact vs. Anatomy: Dealing with Conflict of Geometric Modeling Descriptions. , 2007, , .		3
79	The compressive material properties of the plantar soft tissue. Journal of Biomechanics, 2007, 40, 2975-2981.	2.1	100
80	The Biomechanics of the Diabetic Foot. Biomedical Engineering Series, 2007, , 317-345.	0.4	3
81	A Three-Dimensional Finite Element Model of the Transibial Residual Limb and Prosthetic Socket to Predict Skin Temperatures. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 336-343.	4.9	28
82	Effect of foot shape on the three-dimensional position of foot bones. Journal of Orthopaedic Research, 2006, 24, 2176-2186.	2.3	80
83	A shear and plantar pressure sensor based on fiber-optic bend loss. Journal of Rehabilitation Research and Development, 2005, 42, 315.	1.6	60
84	Foot and ankle ligament morphometry. Journal of Rehabilitation Research and Development, 2005, 42, 809.	1.6	33
85	Residual-limb skin temperature in transtibial sockets. Journal of Rehabilitation Research and Development, 2005, 42, 147.	1.6	63
86	The Midtarsal Joint Locking Mechanism. Foot and Ankle International, 2005, 26, 1074-1080.	2.3	132
87	Relationship between foot type, foot deformity, and ulcer occurrence in the high-risk diabetic foot. Journal of Rehabilitation Research and Development, 2005, 42, 665.	1.6	81
88	A Quasi-Linear, Viscoelastic, Structural Model of the Plantar Soft Tissue With Frequency-Sensitive Damping Properties. Journal of Biomechanical Engineering, 2004, 126, 831-837.	1.3	26
89	Clinical biomechanics of the peritalar joint. Foot and Ankle Clinics, 2004, 9, 663-683.	1.3	30
90	Biomechanical Differences Among Pes Cavus, Neutrally Aligned, and Pes Planus Feet in Subjects with Diabetes. Foot and Ankle International, 2003, 24, 845-850.	2.3	99

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91	Muscular Imbalances Resulting in a Clawed Hallux. Foot and Ankle International, 2003, 24, 477-485.	2.3	38
92	Triangular Osteosynthesis and Iliosacral Screw Fixation for Unstable Sacral Fractures: A Cadaveric and Biomechanical Evaluation Under Cyclic Loads. Journal of Orthopaedic Trauma, 2003, 17, 22-31.	1.4	233
93	A flexible micromachined optical sensor for simultaneous measurement of pressure and shear force distribution on foot. , 2003, 5047, 275.		4
94	<title>Development of a directional sensitive pressure and shear sensor</title> ., 2002, 4702, 212.		1
95	The distributed plantar vertical force of neutrally aligned and pes planus feet. Gait and Posture, 2002, 15, 1-9.	1.4	145
96	A three-dimensional, anatomically detailed foot model: a foundation for a finite element simulation and means of quantifying foot-bone position. Journal of Rehabilitation Research and Development, 2002, 39, 401-10.	1.6	37
97	Acceleration of the calcaneus at heel strike in neutrally aligned and pes planus feet. Clinical Biomechanics, 2001, 16, 608-613.	1.2	28
98	Pennation angles of the intrinsic muscles of the foot. Journal of Biomechanics, 2001, 34, 399-403.	2.1	46
99	The static accuracy and repeatability of the musgrave footprintâ,,¢ pressure plate system. Gait and Posture, 1995, 3, 93.	1.4	3