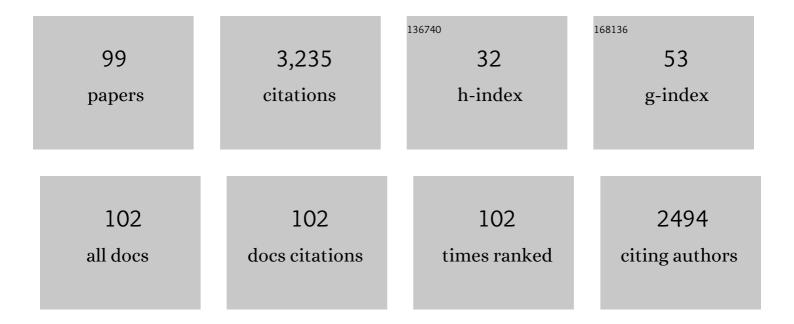
William R Ledoux

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mechanical characterization of fibrotic and mineralized tissue in Peyronie's disease. International Journal of Impotence Research, 2022, 34, 477-486. | 1.0 | 7 |
| 2 | Evaluation of the Foot Arch in Partial Weightbearing Conditions. Foot and Ankle International, 2022, 43, 113-122. | 1.1 | 2 |
| 3 | Foot radiographic angle variation as a function of weightbearing magnitude. Journal of Orthopaedic Research, 2022, , . | 1.2 | 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. | 0.8 | 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. | 1.2 | 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. | 1.4 | 22 |
| 7 | The Impact of Coronal Plane Deformity on Ankle Arthrodesis and Arthroplasty. Foot and Ankle International, 2021, 42, 1294-1302. | 1.1 | 12 |
| 8 | Comparison of texture-based classification and deep learning for plantar soft tissue histology segmentation. Computers in Biology and Medicine, 2021, 134, 104491. | 3.9 | 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. | 0.9 | 7 |
| 10 | Anteroposterior Translational Malalignment of Ankle Arthrodesis Alters Foot Biomechanics in Cadaveric Gait Simulation. Journal of Orthopaedic Research, 2020, 38, 450-458. | 1.2 | 9 |
| 11 | Neuropathy, claw toes, intrinsic muscle volume, and plantar aponeurosis thickness in diabetic feet. BMC Musculoskeletal Disorders, 2020, 21, 485. | 0.8 | 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. | 0.7 | 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. | 0.9 | 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. | 1.4 | 13 |
| 15 | Effectiveness and Safety of Ankle Arthrodesis Versus Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1485-1494. | 1.4 | 62 |
| 16 | Step Activity After Surgical Treatment of Ankle Arthritis. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1177-1184. | 1.4 | 18 |
| 17 | 3D Printed lattice microstructures to mimic soft biological materials. Bioinspiration and Biomimetics, 2019, 14, 016001. | 1.5 | 7 |
| 18 | Hind―and midfoot bone morphology varies with foot type and sex. Journal of Orthopaedic Research, 2019, 37, 744-759. | 1.2 | 20 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A three-year prospective comparative gait study between patients with ankle arthrodesis and arthroplasty. Clinical Biomechanics, 2018, 54, 42-53. | 0.5 | 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. | 3.9 | 8 |
| 21 | Passive engineering mechanism enhancement of a flexor digitorum longus tendon transfer procedure. Journal of Orthopaedic Research, 2018, 36, 3033-3042. | 1.2 | 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. | 1.1 | 18 |
| 23 | Metatarsal Shape and Foot Type: A Geometric Morphometric Analysis. Journal of Biomechanical Engineering, 2017, 139, . | 0.6 | 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. | 1.0 | 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. | 1.4 | 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. | 1.1 | 36 |
| 27 | Histomorphological and biochemical properties of plantar soft tissue in diabetes. Foot, 2017, 33, 1-6. | 0.4 | 18 |
| 28 | Hyperelastic compressive mechanical properties of the subcalcaneal soft tissue: An inverse finite element analysis. Journal of Biomechanics, 2016, 49, 1186-1191. | 0.9 | 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. | 0.9 | 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. | 1.0 | 7 |
| 31 | The Biomechanics of Aging and Diabetic Plantar Soft Tissue. Engineering Materials and Processes, 2015, , 187-206. | 0.2 | 2 |
| 32 | The Sensitivity of Standard Radiographic Foot Measures to Misalignment. Foot and Ankle International, 2014, 35, 1334-1340. | 1.1 | 31 |
| 33 | Talonavicular joint coverage and bone morphology between different foot types. Journal of Orthopaedic Research, 2014, 32, 958-966. | 1.2 | 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. | 1.2 | 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. | 1.2 | 8 |
| 36 | Does Activity Affect Residual Limb Skin Temperatures?. Clinical Orthopaedics and Related Research, 2014, 472, 3062-3067. | 0.7 | 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. | 1.6 | 5 |
| 38 | Marker-based validation of a biplane fluoroscopy system for quantifying foot kinematics. Medical Engineering and Physics, 2014, 36, 391-396. | 0.8 | 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. | 1.2 | 98 |
| 40 | The Effect of Prior Compression Tests on the Plantar Soft Tissue Compressive and Shear Properties. Journal of Biomechanical Engineering, 2013, 135, 94501. | 0.6 | 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. | 0.7 | 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. | 1.4 | 129 |
| 45 | Functional Limitations Associated with End-Stage Ankle Arthritis. Journal of Bone and Joint Surgery - Series A, 2012, 94, 777-783. | 1.4 | 46 |
| 46 | The Comparative Morphology of Idiopathic Ankle Osteoarthritis. Journal of Bone and Joint Surgery - Series A, 2012, 94, e181-1-6. | 1.4 | 20 |
| 47 | Comparative Gait Analysis of Ankle Arthrodesis and Arthroplasty: Initial Findings of a Prospective Study. Foot and Ankle International, 2012, 33, 282-289. | 1.1 | 92 |
| 48 | An interfacial stress sensor for biomechanical applications. Measurement Science and Technology, 2012, 23, 085701. | 1.4 | 22 |
| 49 | A Robotic Cadaveric Gait Simulator With Fuzzy Logic Vertical Ground Reaction Force Control. IEEE Transactions on Robotics, 2012, 28, 246-255. | 7.3 | 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. | 1.1 | 26 |
| 51 | The shear mechanical properties of diabetic and non-diabetic plantar soft tissue. Journal of Biomechanics, 2012, 45, 364-370. | 0.9 | 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. | 0.5 | 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, . | 0.7 | 0 |
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Lower Limb Structure, Function, and Locomotion Biomechanics. , 2012, , 265-298.

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|----|--|-----|-----------|
| 55 | Histomorphometric comparison after fixation with formaldehyde or glyoxal. Biotechnic and Histochemistry, 2011, 86, 359-365. | 0.7 | 15 |
| 56 | Foot bone kinematics as measured in a cadaveric robotic gait simulator. Gait and Posture, 2011, 33, 645-650. | 0.6 | 68 |
| 57 | The Quasi-Linear Viscoelastic Properties of Diabetic and Non-Diabetic Plantar Soft Tissue. Annals of Biomedical Engineering, 2011, 39, 1517-1527. | 1.3 | 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. | 1.1 | 49 |
| 60 | A Robotic Cadaveric Flatfoot Analysis of Stance Phase. Journal of Biomechanical Engineering, 2011, 133, 051005. | 0.6 | 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. | 0.6 | 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. | 0.6 | 20 |
| 63 | The compressive mechanical properties of diabetic and non-diabetic plantar soft tissue. Journal of Biomechanics, 2010, 43, 1754-1760. | 0.9 | 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. | 1.4 | 37 |
| 65 | Quantifying Ligament Cross-Sectional Area via Molding and Casting. Journal of Biomechanical Engineering, 2010, 132, 091012. | 0.6 | 9 |
| 66 | The Effect of Target Strain Error on Plantar Tissue Stress. Journal of Biomechanical Engineering, 2010, 132, 071001. | 0.6 | 7 |
| 67 | Cadaveric Simulation of a Pes Cavus Foot. Foot and Ankle International, 2009, 30, 44-50. | 1.1 | 6 |
| 68 | Cadaveric flatfoot model: Ligament attenuation and Achilles tendon overpull. Journal of Orthopaedic Research, 2009, 27, 1547-1554. | 1.2 | 50 |
| 69 | Wavelet SDF-Reps: Solid Modeling With Volumetric Scans. Journal of Computing and Information Science in Engineering, 2009, 9, . | 1.7 | 3 |
| 70 | Gait Simulation via a 6-DOF Parallel Robot With Iterative Learning Control. IEEE Transactions on Biomedical Engineering, 2008, 55, 1237-1240. | 2.5 | 52 |
| 71 | A finite element foot model for simulating muscle imbalances. Journal of Foot and Ankle Research, 2008, 1, . | 0.7 | 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. | 1.1 | 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. | 2.5 | 12 |
| 74 | Measuring Residual Limb Skin Temperatures at the Skin-Prosthesis Interface. Journal of Prosthetics and Orthotics, 2008, 20, 170-173. | 0.2 | 30 |
| 75 | The thermal conductivity of prosthetic sockets and liners. Prosthetics and Orthotics International, 2007, 31, 292-299. | 0.5 | 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. | 1.1 | 10 |
| 77 | Composite Optical Bend Loss Sensor for Pressure and Shear Measurement. IEEE Sensors Journal, 2007, 7, 1554-1565. | 2.4 | 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. | 0.9 | 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. | 2.7 | 28 |
| 82 | Effect of foot shape on the three-dimensional position of foot bones. Journal of Orthopaedic Research, 2006, 24, 2176-2186. | 1.2 | 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. | 1.1 | 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. | 0.6 | 26 |
| 89 | Clinical biomechanics of the peritalar joint. Foot and Ankle Clinics, 2004, 9, 663-683. | 0.5 | 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. | 1.1 | 99 |

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|----|--|-----|-----------|
| 91 | Muscular Imbalances Resulting in a Clawed Hallux. Foot and Ankle International, 2003, 24, 477-485. | 1.1 | 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. | 0.7 | 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. | 0.6 | 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. | 0.5 | 28 |
| 98 | Pennation angles of the intrinsic muscles of the foot. Journal of Biomechanics, 2001, 34, 399-403. | 0.9 | 46 |
| 99 | The static accuracy and repeatability of the musgrave footprintâ,,¢ pressure plate system. Gait and Posture, 1995, 3, 93. | 0.6 | 3 |