Cynthia E Dunning

List of Publications by Year
in descending order

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59 papers	2,600 citations	218677 26 h-index	182427 51 g-index
59 all docs	59 docs citations	59 times ranked	1469 citing authors

#	Article	IF	Citations
1	Describing the spine surgery learning curve during the first two years of independent practice. Medicine (United States), 2021, 100, e27515.	1.0	0
2	Comparison of trans-cortical and cancellous screws to press fit for acetabular shell fixation in total hip arthroplasty: A cadaveric study. Clinical Biomechanics, 2019, 69, 34-38.	1.2	5
3	Does restoration of focal lumbar lordosis for single level degenerative spondylolisthesis result in better patient-reported clinical outcomes? A systematic literature review. Journal of Clinical Neuroscience, 2017, 44, 95-100.	1.5	21
4	Insertion Torques of Self-Drilling Mini-Implants in Simulated Mandibular Bone: Assessment of Potential for Implant Fracture. International Journal of Oral and Maxillofacial Implants, 2016, 31, e57-e64.	1.4	5
5	Use of the alpha shape to quantify finite helical axis dispersion during simulated spine movements. Journal of Biomechanics, 2016, 49, 112-118.	2.1	3
6	Influence of graft size on spinal instability with anterior cervical plate fixation following in vitro flexion-distraction injuries. Spine Journal, 2016, 16, 523-529.	1.3	7
7	Medial opening wedge high tibial osteotomy alters knee moments in multiple planes during walking and stair ascent. Gait and Posture, 2015, 42, 165-171.	1.4	23
8	Anatomy of the proximal tibiofibular joint and interosseous membrane, and their contributions to joint kinematics in belowâ€knee amputations. Journal of Anatomy, 2015, 226, 143-149.	1.5	8
9	Fracture resistance of commonly used self-drilling orthodontic mini-implants. Angle Orthodontist, 2015, 85, 26-32.	2.4	17
10	A Refined Technique to Calculate Finite Helical Axes From Rigid Body Trackers. Journal of Biomechanical Engineering, 2014, 136, 124506.	1.3	2
11	Development and validation of a distal radius finite element model to simulate impact loading indicative of a forward fall. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 258-271.	1.8	16
12	In vitro biomechanical evaluation of fibular movement in below knee amputations. Clinical Biomechanics, 2014, 29, 551-555.	1.2	3
13	The effect of static muscle forces on the fracture strength of the intact distal radius in vitro in response to simulated forward fall impacts. Journal of Biomechanics, 2014, 47, 2672-2678.	2.1	5
14	The Effect of Stem Circumferential Grooves on the Stability at the Implant-Cement Interface. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	1
15	The effect of stem surface treatment and material onÂpistoning of ulnar components in linked cemented elbow prostheses. Journal of Shoulder and Elbow Surgery, 2013, 22, 1248-1255.	2.6	9
16	Changes in valgus and varus alignment neutralize aberrant frontal plane knee moments in patients with unicompartmental knee osteoarthritis. Journal of Biomechanics, 2013, 46, 1408-1412.	2.1	26
17	Multivariate injury risk criteria and injury probability scores for fractures to the distal radius. Journal of Biomechanics, 2013, 46, 973-978.	2.1	4
18	Finite element modeling mesh quality, energy balance and validation methods: A review with recommendations associated with the modeling of bone tissue. Journal of Biomechanics, 2013, 46, 1477-1488.	2.1	137

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19	Determination of remodeling parameters for a strain-adaptive finite element model of the distal ulna. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 994-1001.	1.8	11
20	Predicting Distal Radius Bone Strains and Injury in Response to Impacts Using Multi-Axial Accelerometers. Journal of Biomechanical Engineering, 2012, 134, 101007.	1.3	2
21	A Biomechanical Assessment of Soft-Tissue Damage in the Cervical Spine Following a Unilateral Facet Injury. Journal of Bone and Joint Surgery - Series A, 2012, 94, e156.	3.0	32
22	The importance of the posterior osteoligamentous complex to subaxial cervical spine stability in relation to a unilateral facet injury. Spine Journal, 2012, 12, 590-595.	1.3	27
23	Failure characteristics of the isolated distal radius in response to dynamic impact loading. Journal of Orthopaedic Research, 2012, 30, 885-892.	2.3	9
24	Determining the optimal system-specific cut-off frequencies for filtering in-vitro upper extremity impact force and acceleration data by residual analysis. Journal of Biomechanics, 2011, 44, 2728-2731.	2.1	13
25	Comparative Assessment of Sacral Screw Loosening Augmented with PMMA Versus a Calcium Triglyceride Bone Cement. Spine, 2011, 36, E699-E704.	2.0	25
26	Injury Tolerance Criteria for Short-Duration Axial Impulse Loading of the Isolated Tibia. Journal of Trauma, 2011, 70, E13-E18.	2.3	23
27	Bone stresses before and after insertion of two commercially available distal ulnar implants using finite element analysis. Journal of Orthopaedic Research, 2011, 29, 1418-1423.	2.3	10
28	Development of a finite element model of the tibia for short-duration high-force axial impact loading. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 205-212.	1.6	17
29	Development of an Apparatus to Produce Fractures From Short-Duration High-Impulse Loading With an Application in the Lower Leg. Journal of Biomechanical Engineering, 2010, 132, 014502.	1.3	18
30	The effect of the densityâ€“modulus relationship selected to apply material properties in a finite element model of long bone. Journal of Biomechanics, 2008, 41, 3171-3176.	2.1	72
31	Comparing the Fixation of a Novel Hollow Screw Versus a Conventional Solid Screw in Human Sacra Under Cyclic Loading. Spine, 2008, 33, 1870-1875.	2.0	21
32	The effect of coronoid fractures on elbow kinematics and stability. Clinical Biomechanics, 2007, 22, 183-190.	1.2	78
33	The effect of suture fixation of type I coronoid fractures on the kinematics and stability of the elbow with and without medial collateral ligament repair. Journal of Shoulder and Elbow Surgery, 2007, 16, 213-217.	2.6	79
34	The Effect of Distal Ulnar Implant Stem Material and Length on Bone Strains. Journal of Hand Surgery, 2007, 32, 848-854.	1.6	15
35	Direct comparison of kinematic data collected using an electromagnetic tracking system versus a digital optical system. Journal of Biomechanics, 2007, 40, 930-935.	2.1	31
36	The effect of radial head fracture size on elbow kinematics and stability. Journal of Orthopaedic Research, 2005, 23, 210-217.	2.3	58

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37	Comparison of Distal Radioulnar Joint Reconstructions Using an Active Joint Motion Simulator. Journal of Hand Surgery, 2005, 30, 733-742.	1.6	52
38	A biomechanical comparison of four reconstruction techniques for the medial collateral ligament-deficient elbow. Journal of Shoulder and Elbow Surgery, 2005, 14, 207-215.	2.6	116
39	Kinematics and stability of the fractured and implant-reconstructed radial head. Journal of Shoulder and Elbow Surgery, 2005, 14, S195-S201.	2.6	67
40	The Medial Collateral Ligament of the Elbow is not Isometric. American Journal of Sports Medicine, 2004, 32, 85-90.	4.2	46
41	Soft-tissue stabilizers of the distal radioulnar joint: an in vitro kinematic study. Journal of Hand Surgery, 2004, 29, 423-431.	1.6	131
42	The Effect of Radial Head Excision and Arthroplasty on Elbow Kinematics and Stability. Journal of Bone and Joint Surgery - Series A, 2004, 86, 1730-1739.	3.0	207
43	Variability and repeatability of the flexion axis at the ulnohumeral joint. Journal of Orthopaedic Research, 2003, 21, 399-404.	2.3	42
44	Development of a motion-controlled in vitro elbow testing system. Journal of Orthopaedic Research, 2003, 21, 405-411.	2.3	36
45	Quantifying translations in the radiohumeral joint: application of a floating axis analysis. Journal of Biomechanics, 2003, 36, 1219-1223.	2.1	7
46	Application of screw displacement axes to quantify elbow instability. Clinical Biomechanics, 2003, 18, 303-310.	1.2	24
47	The effect of radial head fracture size on radiocapitellar joint stability. Clinical Biomechanics, 2003, 18, 677-681.	1.2	47
48	Influence of the pronator quadratus and supinator muscle load on DRUJ stability. Journal of Hand Surgery, 2003, 28, 943-950.	1.6	49
49	An anthropometric study of the distal ulna: Implications for implant design. Journal of Hand Surgery, 2002, 27, 57-60.	1.6	22
50	Single-strand reconstruction of the lateral ulnar collateral ligament restores varus and posterolateral rotatory stability of the elbow. Journal of Shoulder and Elbow Surgery, 2002, 11, 60-64.	2.6	68
51	Single-strand ligament reconstruction of the medial collateral ligament restores valgus elbow stability. Journal of Shoulder and Elbow Surgery, 2002, 11, 65-71.	2.6	51
52	Ilizarov hybrid external fixation for fractures of the distal radius: Part II. Internal fixation versus ilizarov hybrid external fixation: Stability as assessed by cadaveric simulated motion testing. Journal of Hand Surgery, 2001, 26, 218-227.	1.6	6
53	Muscle Forces and Pronation Stabilize the Lateral Ligament Deficient Elbow. Clinical Orthopaedics and Related Research, 2001, 388, 118-124.	1.5	133
54	Simulated active control produces repeatable motion pathways of the elbow in an in vitro testing system. Journal of Biomechanics, 2001, 34, 1039-1048.	2.1	58

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55	Ligamentous Stabilizers Against Posterolateral Rotatory Instability of the Elbow. Journal of Bone and Joint Surgery - Series A, 2001, 83, 1823-1828.	3.0	239
56	Simulation of elbow and forearm motion in vitro using a load controlled testing apparatus. Journal of Biomechanics, 2000, 33, 635-639.	2.1	74
57	Rehabilitation of the medial collateral ligament-deficient elbow: An in vitro biomechanical study. Journal of Hand Surgery, 2000, 25, 1051-1057.	1.6	99
58	Supplemental pinning improves the stability of external fixation in distal radius fractures during simulated finger and forearm motion. Journal of Hand Surgery, 1999, 24, 992-1000.	1.6	54
59	Metallic Radial Head Arthroplasty Improves Valgus Stability of the Elbow. Clinical Orthopaedics and Related Research, 1999, 368, 114???125.	1.5	139