

# Cynthia E Dunning

## List of Publications by Year in descending order

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59  
papers

2,600  
citations

218381

26  
h-index

182168

51  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligamentous Stabilizers Against Posterolateral Rotatory Instability of the Elbow. <i>Journal of Bone and Joint Surgery - Series A</i> , 2001, 83, 1823-1828.	1.4	239
2	The Effect of Radial Head Excision and Arthroplasty on Elbow Kinematics and Stability. <i>Journal of Bone and Joint Surgery - Series A</i> , 2004, 86, 1730-1739.	1.4	207
3	Metallic Radial Head Arthroplasty Improves Valgus Stability of the Elbow. <i>Clinical Orthopaedics and Related Research</i> , 1999, 368, 114-125.	0.7	139
4	Finite element modeling mesh quality, energy balance and validation methods: A review with recommendations associated with the modeling of bone tissue. <i>Journal of Biomechanics</i> , 2013, 46, 1477-1488.	0.9	137
5	Muscle Forces and Pronation Stabilize the Lateral Ligament Deficient Elbow. <i>Clinical Orthopaedics and Related Research</i> , 2001, 388, 118-124.	0.7	133
6	Soft-tissue stabilizers of the distal radioulnar joint: an in vitro kinematic study. <i>Journal of Hand Surgery</i> , 2004, 29, 423-431.	0.7	131
7	A biomechanical comparison of four reconstruction techniques for the medial collateral ligament-deficient elbow. <i>Journal of Shoulder and Elbow Surgery</i> , 2005, 14, 207-215.	1.2	116
8	Rehabilitation of the medial collateral ligament-deficient elbow: An in vitro biomechanical study. <i>Journal of Hand Surgery</i> , 2000, 25, 1051-1057.	0.7	99
9	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. <i>Journal of Shoulder and Elbow Surgery</i> , 2007, 16, 213-217.	1.2	79
10	The effect of coronoid fractures on elbow kinematics and stability. <i>Clinical Biomechanics</i> , 2007, 22, 183-190.	0.5	78
11	Simulation of elbow and forearm motion in vitro using a load controlled testing apparatus. <i>Journal of Biomechanics</i> , 2000, 33, 635-639.	0.9	74
12	The effect of the density-modulus relationship selected to apply material properties in a finite element model of long bone. <i>Journal of Biomechanics</i> , 2008, 41, 3171-3176.	0.9	72
13	Single-strand reconstruction of the lateral ulnar collateral ligament restores varus and posterolateral rotatory stability of the elbow. <i>Journal of Shoulder and Elbow Surgery</i> , 2002, 11, 60-64.	1.2	68
14	Kinematics and stability of the fractured and implant-reconstructed radial head. <i>Journal of Shoulder and Elbow Surgery</i> , 2005, 14, S195-S201.	1.2	67
15	Simulated active control produces repeatable motion pathways of the elbow in an in vitro testing system. <i>Journal of Biomechanics</i> , 2001, 34, 1039-1048.	0.9	58
16	The effect of radial head fracture size on elbow kinematics and stability. <i>Journal of Orthopaedic Research</i> , 2005, 23, 210-217.	1.2	58
17	Supplemental pinning improves the stability of external fixation in distal radius fractures during simulated finger and forearm motion. <i>Journal of Hand Surgery</i> , 1999, 24, 992-1000.	0.7	54
18	Comparison of Distal Radioulnar Joint Reconstructions Using an Active Joint Motion Simulator. <i>Journal of Hand Surgery</i> , 2005, 30, 733-742.	0.7	52

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19	Single-strand ligament reconstruction of the medial collateral ligament restores valgus elbow stability. <i>Journal of Shoulder and Elbow Surgery</i> , 2002, 11, 65-71.	1.2	51
20	Influence of the pronator quadratus and supinator muscle load on DRUJ stability. <i>Journal of Hand Surgery</i> , 2003, 28, 943-950.	0.7	49
21	The effect of radial head fracture size on radiocapitellar joint stability. <i>Clinical Biomechanics</i> , 2003, 18, 677-681.	0.5	47
22	The Medial Collateral Ligament of the Elbow is not Isometric. <i>American Journal of Sports Medicine</i> , 2004, 32, 85-90.	1.9	46
23	Variability and repeatability of the flexion axis at the ulnohumeral joint. <i>Journal of Orthopaedic Research</i> , 2003, 21, 399-404.	1.2	42
24	Development of a motion-controlled in vitro elbow testing system. <i>Journal of Orthopaedic Research</i> , 2003, 21, 405-411.	1.2	36
25	A Biomechanical Assessment of Soft-Tissue Damage in the Cervical Spine Following a Unilateral Facet Injury. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, e156.	1.4	32
26	Direct comparison of kinematic data collected using an electromagnetic tracking system versus a digital optical system. <i>Journal of Biomechanics</i> , 2007, 40, 930-935.	0.9	31
27	The importance of the posterior osteoligamentous complex to subaxial cervical spine stability in relation to a unilateral facet injury. <i>Spine Journal</i> , 2012, 12, 590-595.	0.6	27
28	Changes in valgus and varus alignment neutralize aberrant frontal plane knee moments in patients with unicompartmental knee osteoarthritis. <i>Journal of Biomechanics</i> , 2013, 46, 1408-1412.	0.9	26
29	Comparative Assessment of Sacral Screw Loosening Augmented with PMMA Versus a Calcium Triglyceride Bone Cement. <i>Spine</i> , 2011, 36, E699-E704.	1.0	25
30	Application of screw displacement axes to quantify elbow instability. <i>Clinical Biomechanics</i> , 2003, 18, 303-310.	0.5	24
31	Injury Tolerance Criteria for Short-Duration Axial Impulse Loading of the Isolated Tibia. <i>Journal of Trauma</i> , 2011, 70, E13-E18.	2.3	23
32	Medial opening wedge high tibial osteotomy alters knee moments in multiple planes during walking and stair ascent. <i>Gait and Posture</i> , 2015, 42, 165-171.	0.6	23
33	An anthropometric study of the distal ulna: Implications for implant design. <i>Journal of Hand Surgery</i> , 2002, 27, 57-60.	0.7	22
34	Comparing the Fixation of a Novel Hollow Screw Versus a Conventional Solid Screw in Human Sacra Under Cyclic Loading. <i>Spine</i> , 2008, 33, 1870-1875.	1.0	21
35	Does restoration of focal lumbar lordosis for single level degenerative spondylolisthesis result in better patient-reported clinical outcomes? A systematic literature review. <i>Journal of Clinical Neuroscience</i> , 2017, 44, 95-100.	0.8	21
36	Development of an Apparatus to Produce Fractures From Short-Duration High-Impulse Loading With an Application in the Lower Leg. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 014502.	0.6	18

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37	Development of a finite element model of the tibia for short-duration high-force axial impact loading. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 205-212.	0.9	17
38	Fracture resistance of commonly used self-drilling orthodontic mini-implants. <i>Angle Orthodontist</i> , 2015, 85, 26-32.	1.1	17
39	Development and validation of a distal radius finite element model to simulate impact loading indicative of a forward fall. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 258-271.	1.0	16
40	The Effect of Distal Ulnar Implant Stem Material and Length on Bone Strains. <i>Journal of Hand Surgery</i> , 2007, 32, 848-854.	0.7	15
41	Determining the optimal system-specific cut-off frequencies for filtering in-vitro upper extremity impact force and acceleration data by residual analysis. <i>Journal of Biomechanics</i> , 2011, 44, 2728-2731.	0.9	13
42	Determination of remodeling parameters for a strain-adaptive finite element model of the distal ulna. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 994-1001.	1.0	11
43	Bone stresses before and after insertion of two commercially available distal ulnar implants using finite element analysis. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1418-1423.	1.2	10
44	Failure characteristics of the isolated distal radius in response to dynamic impact loading. <i>Journal of Orthopaedic Research</i> , 2012, 30, 885-892.	1.2	9
45	The effect of stem surface treatment and material on pistoning of ulnar components in linked cemented elbow prostheses. <i>Journal of Shoulder and Elbow Surgery</i> , 2013, 22, 1248-1255.	1.2	9
46	Anatomy of the proximal tibiofibular joint and interosseous membrane, and their contributions to joint kinematics in below-knee amputations. <i>Journal of Anatomy</i> , 2015, 226, 143-149.	0.9	8
47	Quantifying translations in the radiohumeral joint: application of a floating axis analysis. <i>Journal of Biomechanics</i> , 2003, 36, 1219-1223.	0.9	7
48	Influence of graft size on spinal instability with anterior cervical plate fixation following in vitro flexion-distraction injuries. <i>Spine Journal</i> , 2016, 16, 523-529.	0.6	7
49	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. <i>Journal of Hand Surgery</i> , 2001, 26, 218-227.	0.7	6
50	The effect of static muscle forces on the fracture strength of the intact distal radius in vitro in response to simulated forward fall impacts. <i>Journal of Biomechanics</i> , 2014, 47, 2672-2678.	0.9	5
51	Insertion Torques of Self-Drilling Mini-Implants in Simulated Mandibular Bone: Assessment of Potential for Implant Fracture. <i>International Journal of Oral and Maxillofacial Implants</i> , 2016, 31, e57-e64.	0.6	5
52	Comparison of trans-cortical and cancellous screws to press fit for acetabular shell fixation in total hip arthroplasty: A cadaveric study. <i>Clinical Biomechanics</i> , 2019, 69, 34-38.	0.5	5
53	Multivariate injury risk criteria and injury probability scores for fractures to the distal radius. <i>Journal of Biomechanics</i> , 2013, 46, 973-978.	0.9	4
54	In vitro biomechanical evaluation of fibular movement in below knee amputations. <i>Clinical Biomechanics</i> , 2014, 29, 551-555.	0.5	3

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55	Use of the alpha shape to quantify finite helical axis dispersion during simulated spine movements. Journal of Biomechanics, 2016, 49, 112-118.	0.9	3
56	Predicting Distal Radius Bone Strains and Injury in Response to Impacts Using Multi-Axial Accelerometers. Journal of Biomechanical Engineering, 2012, 134, 101007.	0.6	2
57	A Refined Technique to Calculate Finite Helical Axes From Rigid Body Trackers. Journal of Biomechanical Engineering, 2014, 136, 124506.	0.6	2
58	The Effect of Stem Circumferential Grooves on the Stability at the Implant-Cement Interface. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.4	1
59	Describing the spine surgery learning curve during the first two years of independent practice. Medicine (United States), 2021, 100, e27515.	0.4	0