Heath B Henninger

List of Publications by Year
in descending order

101 papers	2,721 citations	172457 29 h-index	197818 49 g-index
101 all docs	101 docs citations	101 times ranked	1890 citing authors

#	Article	IF	Citations
1	Open anatomical glenoid reconstruction with an iliac crest bone autograft effectively resolves off-track Hill-Sachs lesions to on-track lesions. Archives of Orthopaedic and Trauma Surgery, 2023, 143, 203-211.	2.4	4
2	Accuracy of free-hand humeral head resection planned on 3D-CT models in shoulder arthroplasty: an in vitro analysis. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 3141-3147.	2.4	1
3	Benchmarking off-the-shelf statistical shape modeling tools in clinical applications. Medical Image Analysis, 2022, 76, 102271.	11.6	17
4	In Vitro Simulation of Shoulder Motion Driven by Three-Dimensional Scapular and Humeral Kinematics. Journal of Biomechanical Engineering, 2022, 144, .	1.3	4
5	Can magnetic resonance imaging accurately and reliably measure humeral cortical thickness?. JSES International, 2022, 6, 297-304.	1.6	0
6	Morphology of Glenoid Cartilage Defects in Anteroinferior Glenohumeral Instability. Orthopaedic Journal of Sports Medicine, 2022, 10, 232596712210866.	1.7	1
7	Kinematic coupling of the glenohumeral and scapulothoracic joints generates humeral axial rotation. Journal of Biomechanics, 2022, 136, 111059.	2.1	7
8	Anatomic total shoulder glenoid component inclination affects glenohumeral kinetics during abduction: a cadaveric study. Journal of Shoulder and Elbow Surgery, 2022, 31, 2023-2033.	2.6	7
9	Cortical and medullary morphology of the tibia. Anatomical Record, 2021, 304, 507-517.	1.4	6
10	Editorial Commentary: Is Your Critical Shoulder Angle Accurate? Only If You Can Verify That You Have the Correct Images. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2021, 37, 447-449.	2.7	6
11	Age-related differences in humerothoracic, scapulothoracic, and glenohumeral kinematics during elevation and rotation motions. Journal of Biomechanics, 2021, 117, 110266.	2.1	20
12	Acromial and glenoid morphology in glenohumeral osteoarthritis: a three-dimensional analysis. JSES International, 2021, 5, 398-405.	1.6	3
13	Beyond Euler/Cardan analysis: True glenohumeral axial rotation during arm elevation and rotation. Gait and Posture, 2021, 88, 28-36.	1.4	10
14	Virtual implantation technique to estimate endoprosthetic contact of percutaneous osseointegrated devices in the tibia. Medical Engineering and Physics, 2021, 93, 1-7.	1.7	2
15	Proximal humeral coordinate systems can predict humerothoracic and glenohumeral kinematics of a full bone system. Gait and Posture, 2021, 90, 380-387.	1.4	3
16	Finite Element Analysis of Transhumeral and Transtibial Percutaneous Osseointegrated Endoprosthesis Implantation. Frontiers in Rehabilitation Sciences, 2021, 2, .	1.2	0
17	Kinematics-vis: A Visualization Tool for the Mathematics of Human Motion. Journal of Open Source Software, 2021, 6, 3490.	4.6	1
18	Is load application necessary when using computed tomography scans to diagnose syndesmotic injuries? A cadaver study. Foot and Ankle Surgery, 2020, 26, 198-204.	1.7	21

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19	The Muscle Cross-sectional Area on MRI of the Shoulder Can Predict Muscle Volume: An MRI Study in Cadavers. Clinical Orthopaedics and Related Research, 2020, 478, 871-883.	1.5	19
20	Initial stability of a percutaneous osseointegrated endoprosthesis with proximal interlocking screws for transhumeral amputees. Clinical Biomechanics, 2020, 72, 108-114.	1.2	7
21	Viewing perspective malrotation influences angular measurements on lateral radiographs ofÂthe scapula. Journal of Shoulder and Elbow Surgery, 2020, 29, 1030-1039.	2.6	7
22	Upper extremity prosthetic selection influences loading of transhumeral osseointegrated systems. PLoS ONE, 2020, 15, e0237179.	2.5	3
23	Reliable interpretation of scapular kinematics depends on coordinate system definition. Gait and Posture, 2020, 81, 183-190.	1.4	13
24	Estimated forces and moments experienced by osseointegrated endoprostheses for lower extremity amputees. Gait and Posture, 2020, 80, 49-55.	1.4	5
25	Glenoid Retroversion Associates With Asymmetric Rotator Cuff Muscle Atrophy in Those With Walch B-type Glenohumeral Osteoarthritis. Journal of the American Academy of Orthopaedic Surgeons, The, 2020, 28, 547-555.	2.5	12
26	Thinking outside the glenohumeral box: Hierarchical shape variation of the periarticular anatomy of the scapula using statistical shape modeling. Journal of Orthopaedic Research, 2020, 38, 2272-2279.	2.3	7
27	Replicating dynamic humerus motion using an industrial robot. PLoS ONE, 2020, 15, e0242005.	2.5	3
28	Sex and Laterality Differences in Medullary Humerus Morphology. Anatomical Record, 2019, 302, 1709-1717.	1.4	11
29	Can Weightbearing Computed Tomography Scans Be Used to Diagnose Subtalar Joint Instability? A Cadaver Study. Journal of Orthopaedic Research, 2019, 37, 2457-2465.	2.3	12
30	Influence of Radiographic Viewing Perspective on Glenoid Inclination Measurement. Journal of Shoulder and Elbow Arthroplasty, 2019, 3, 247154921882498.	0.8	6
31	Biomechanics of an interlinked suture anchor rotator cuff repair in a human cadaveric model. JSES Open Access, 2019, 3, 70-76.	0.9	1
32	Contributions of elastic fibers, collagen, and extracellular matrix to the multiaxial mechanics of ligament. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 99, 118-126.	3.1	17
33	Reverse total shoulder arthroplasty and resting radiographic scapular rotation. Journal of Shoulder and Elbow Surgery, 2019, 28, e265-e270.	2.6	4
34	Coracoacromial morphology: a contributor to recurrent traumatic anterior glenohumeral instability?. Journal of Shoulder and Elbow Surgery, 2019, 28, 1316-1325.e1.	2.6	13
35	Impact of Torque on Assessment of Syndesmotic Injuries Using Weightbearing Computed Tomography Scans. Foot and Ankle International, 2019, 40, 710-719.	2.3	30
36	Torque application helps to diagnose incomplete syndesmotic injuries using weight-bearing computed tomography images. Skeletal Radiology, 2019, 48, 1367-1376.	2.0	20

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37	Mechanical testing of scapular neck fracture fixation using a synthetic bone model. Clinical Biomechanics, 2019, 61, 64-69.	1.2	6
38	Biomechanical Comparison of Transosseous Knotless Rotator Cuff Repair Versus Transosseous Equivalent Repair: Half The Anchors With Equivalent Biomechanics?. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2018, 34, 58-63.	2.7	12
39	Superior glenoid inclination and rotator cuff tears. Journal of Shoulder and Elbow Surgery, 2018, 27, 1444-1450.	2.6	20
40	Guidelines for humeral subluxation cutoff values: a comparative study between conventional, reoriented, and three-dimensional computed tomography scans of healthy shoulders. Journal of Shoulder and Elbow Surgery, 2018, 27, 36-43.	2.6	24
41	The critical acromial point: the anatomic location of the lateral acromion in the critical shoulder angle. Journal of Shoulder and Elbow Surgery, 2018, 27, 151-159.	2.6	46
42	Superior Baseplate Inclination Is Associated With Instability After Reverse Total Shoulder Arthroplasty. Clinical Orthopaedics and Related Research, 2018, 476, 1622-1629.	1.5	50
43	Do magnetic resonance imaging and computed tomography provide equivalent measures of rotator cuff muscle size in glenohumeral osteoarthritis?. Journal of Shoulder and Elbow Surgery, 2018, 27, 1877-1883.	2.6	10
44	Biomechanical Comparison of Standard and Linked Single-Row Rotator Cuff Repairs in a Human Cadaver Model. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2017, 33, 938-944.	2.7	11
45	The three-dimensional glenohumeral subluxation index in primary osteoarthritis of the shoulder. Journal of Shoulder and Elbow Surgery, 2017, 26, 878-887.	2.6	11
46	Humeral head osteotomy in shoulder arthroplasty: a comparison between anterosuperior and inferoanterior resection techniques. Journal of Shoulder and Elbow Surgery, 2017, 26, 343-351.	2.6	10
47	Transhumeral loading during advanced upper extremity activities of daily living. PLoS ONE, 2017, 12, e0189418.	2.5	11
48	A three-dimensional comparative study on the scapulohumeral relationship in normal and osteoarthritic shoulders. Journal of Shoulder and Elbow Surgery, 2016, 25, 1607-1615.	2.6	33
49	The Medial Stitch in Transosseous-Equivalent Rotator Cuff Repair. American Journal of Sports Medicine, 2016, 44, 2225-2230.	4.2	11
50	Total Arthroplasty of the Metatarsophalangeal Joint of the Hallux. Foot and Ankle International, 2016, 37, 755-765.	2.3	30
51	Analysis of Reverse Total Shoulder Arthroplasty Biomechanics Using a Dynamic Shoulder Simulator. , 2016, , 105-113.		1
52	Biomechanics of a novel technique for suprapectoral intraosseous biceps tenodesis. Journal of Shoulder and Elbow Surgery, 2016, 25, 149-157.	2.6	5
53	Biomechanics of Polyhydroxyalkanoate Mesh-Augmented Single-Row Rotator Cuff Repairs. American Journal of Orthopedics, 2016, 45, E527-E533.	0.7	2
54	Tibiotalocalcaneal Arthrodesis With an Intramedullary Hindfoot Nail and Pillar Fibula Augmentation. Foot and Ankle International, 2015, 36, 984-987.	2.3	8

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55	Risk Factors for Wound Complications in Patients After Elective Orthopedic Foot and Ankle Surgery. Foot and Ankle International, 2015, 36, 479-487.	2.3	56
56	The influence of radiographic viewing perspective and demographics on the critical shoulder angle. Journal of Shoulder and Elbow Surgery, 2015, 24, e149-e158.	2.6	113
57	Suture Placement Near the Musculotendinous Junction in the Supraspinatus. American Journal of Sports Medicine, 2015, 43, 57-62.	4.2	19
58	Influence of Ankle Position and Radiographic Projection Angle on Measurement of Supramalleolar Alignment on the Anteroposterior and Hindfoot Alignment Views. Foot and Ankle International, 2015, 36, 1352-1361.	2.3	88
59	Mid- to Long-term Clinical Outcome and Gait Biomechanics After Realignment Surgery in Asymmetric Ankle Osteoarthritis. Foot and Ankle International, 2015, 36, 908-918.	2.3	33
60	Regional mechanical properties of the long head of the biceps tendon. Clinical Biomechanics, 2015, 30, 940-945.	1.2	18
61	Elastin governs the mechanical response of medial collateral ligament under shear and transverse tensile loading. Acta Biomaterialia, 2015, 25, 304-312.	8.3	61
62	Bone augmentation for revision total ankle arthroplasty with large bone defects. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 86, 412-414.	3.3	29
63	Reverse total shoulder arthroplasty: a biomechanical evaluation of humeral and glenosphere hardware configuration. Journal of Shoulder and Elbow Surgery, 2015, 24, e68-e77.	2.6	43
64	Radiological Morphology of Peritalar Instability in Varus and Valgus Tilted Ankles. Foot and Ankle International, 2014, 35, 453-462.	2.3	22
65	Characterization of Plantaris Tendon Constructs for Ankle Ligament Reconstruction. Foot and Ankle International, 2014, 35, 922-928.	2.3	14
66	Ankle Salvage Surgery with Autologous Circular Pillar Fibula Augmentation and Intramedullary Hindfoot Nail. Journal of Foot and Ankle Surgery, 2014, 53, 601-605.	1.0	20
67	Commercially Available Trabecular Metal Ankle Interpositional Spacer for Tibiotalocalcaneal Arthrodesis Secondary to Severe Bone Loss of the Ankle. Journal of Foot and Ankle Surgery, 2014, 53, 383-387.	1.0	25
68	Lateral Patellar Facetectomy and Medial Reefing in Patients With Lateral Facet Syndrome After Patellar-Retaining Total Knee Arthroplasty. Journal of Arthroplasty, 2014, 29, 2156-2162.	3.1	14
69	Biomechanical comparison of reverse total shoulder arthroplasty systems in soft tissueâ€“constrained shoulders. Journal of Shoulder and Elbow Surgery, 2014, 23, e108-e117.	2.6	26
70	Biomechanical comparison of two techniques for arthroscopic suprapectoral biceps tenodesis: interference screw versus implant-free intraosseous tendon fixation. Journal of Shoulder and Elbow Surgery, 2014, 23, 1731-1739.	2.6	31
71	Surgical Technique: Talar Neck Osteotomy to Lengthen the Medial Column After a Malunited Talar Neck Fracture. Clinical Orthopaedics and Related Research, 2013, 471, 1356-1364.	1.5	23
72	Ankle Osteoarthritis. Foot and Ankle Clinics, 2013, 18, 411-426.	1.3	146

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73	Thrombembolic complications after total ankle replacement. Current Reviews in Musculoskeletal Medicine, 2013, 6, 328-335.	3.5	10
74	Biomechanical Analysis of Acetabular Revision Constructs. Journal of Arthroplasty, 2013, 28, 178-186.	3.1	30
75	Joint-Preserving Surgery of Valgus Ankle Osteoarthritis. Foot and Ankle Clinics, 2013, 18, 481-502.	1.3	23
76	Biomechanical evaluation of subpectoral biceps tenodesis: dual suture anchor versus interference screw fixation. Journal of Shoulder and Elbow Surgery, 2013, 22, 1408-1412.	2.6	43
77	Supramalleolar osteotomies for degenerative joint disease of the ankle joint: indication, technique and results. International Orthopaedics, 2013, 37, 1683-1695.	1.9	74
78	HINTEGRA Total Ankle Replacement: Survivorship Analysis in 684 Patients. Journal of Bone and Joint Surgery - Series A, 2013, 95, 1175-1183.	3.0	161
79	HINTEGRA Revision Arthroplasty for Failed Total Ankle Prostheses. Journal of Bone and Joint Surgery - Series A, 2013, 95, 1166-1174.	3.0	106
80	Supramalleolar Osteotomies for Ankle Osteoarthritis. Techniques in Foot and Ankle Surgery, 2013, 12, 138-146.	0.2	9
81	HINTEGRA Revision Arthroplasty for Failed Total Ankle Prostheses. JBJS Essential Surgical Techniques, 2013, 3, e12.	0.8	7
82	Effect of elastin digestion on the quasi-static tensile response of medial collateral ligament. Journal of Orthopaedic Research, 2013, 31, 1226-1233.	2.3	71
83	Relationship of the Intercondylar Roof and the Tibial Footprint of the ACL. American Journal of Sports Medicine, 2013, 41, 396-401.	4.2	26
84	Elastin Contributes to the Tensile Response of Medial Collateral Ligament. , 2013, , .		0
85	Medial Distal Tibial Angle: Comparison between Weightbearing Mortise View and Hindfoot Alignment View. Foot and Ankle International, 2012, 33, 655-661.	2.3	78
86	Effect of lateral offset center of rotation in reverse total shoulder arthroplasty: a biomechanical study. Journal of Shoulder and Elbow Surgery, 2012, 21, 1128-1135.	2.6	162
87	Mobile- and Fixed-Bearing Total Ankle Prostheses. Foot and Ankle Clinics, 2012, 17, 565-585.	1.3	48
88	Treatment of the Arthritic Valgus Ankle. Foot and Ankle Clinics, 2012, 17, 647-663.	1.3	30
89	Effect of deltoid tension and humeral version in reverse total shoulder arthroplasty: a biomechanical study. Journal of Shoulder and Elbow Surgery, 2012, 21, 483-490.	2.6	113
90	Total Ankle Replacement Using HINTEGRA, an Unconstrained, Three-Component System. Foot and Ankle Clinics, 2012, 17, 607-635.	1.3	78

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91	Comparison of Methods to Predict Scapular Notching From Radiographs After Reverse Total Shoulder Arthroplasty. , 2012, , .		0
92	Contributions of Elastin to the Quasi-Static Tensile Mechanics of Medial Collateral Ligament. , 2012, , .		0
93	Simultaneous bilateral total ankle replacement using a 3-component prosthesis. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 82, 704-710.	3.3	35
94	Risk factors for symptomatic deep-vein thrombosis in patients after total ankle replacement who received routine chemical thromboprophylaxis. Journal of Bone and Joint Surgery: British Volume, 2011, 93-B, 921-927.	3.4	48
95	Effect of sulfated glycosaminoglycan digestion on the transverse permeability of medial collateral ligament. Journal of Biomechanics, 2010, 43, 2567-2573.	2.1	40
96	Material Properties of the Axillary Pouch of the Glenohumeral Capsule: Is Isotropic Material Symmetry Appropriate?. Journal of Biomechanical Engineering, 2009, 131, 031007.	1.3	15
97	Transversely isotropic distribution of sulfated glycosaminoglycans in human medial collateral ligament: A quantitative analysis. Journal of Structural Biology, 2009, 165, 176-183.	2.8	12
98	Annulus Fibrosus Shear Properties Are Consistent With Motion Segment Mechanics When Fibers Are Loaded. , 2009, , .		1
99	Removal of Sulfated Glycosaminoglycans Has a Differential Effect on Permeability of Bovine Articular Cartilage as Measured by Direct Permeation and Stress Relaxation. , 2009, , .		0
100	Spatial distribution and orientation of dermatan sulfate in human medial collateral ligament. Journal of Structural Biology, 2007, 158, 33-45.	2.8	21
101	Effect of dermatan sulfate glycosaminoglycans on the quasi-static material properties of the human medial collateral ligament. Journal of Orthopaedic Research, 2007, 25, 894-903.	2.3	95