# Howard Hillstrom

List of Publications by Year
in descending order



| 71 | 1,975 | 304743 22 | 265206 42 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 73 | 73 | 73 | 1850 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Foot type biomechanics part 1: Structure and function of the asymptomatic foot. Gait and Posture, 2013, 37, 445-451. | 1.4 | 171 |
| 2 | The distributed plantar vertical force of neutrally aligned and pes planus feet. Gait and Posture, 2002, 15, 1-9. | 1.4 | 145 |
| 3 | The Effect of Gender, Age, and Lateral Dominance on Arch Height and Arch Stiffness. Foot and Ankle International, 2006, 27, 367-372. | 2.3 | 134 |
| 4 | Foot type biomechanics. comparison of planus and rectus foot types. Journal of the American Podiatric Medical Association, 1996, 86, 16-23. | 0.3 | 129 |
| 5 | Arch Height Index Measurement System. Journal of the American Podiatric Medical Association, 2008, 98, 102-106. | 0.3 | 127 |
| 6 | State-of-the-Art management of knee osteoarthritis. World Journal of Clinical Cases, 2015, 3, 89. | 0.8 | 117 |
| 7 | The effects of limb dominance and fatigue on running biomechanics. Gait and Posture, 2014, 39, 915-919. | 1.4 | 85 |
| 8 | Foot Disorders, Foot Posture, and Foot Function: The Framingham Foot Study. PLoS ONE, 2013, 8, e74364. | 2.5 | 80 |
| 9 | Effects of Pediatric Obesity on Joint Kinematics and Kinetics During 2 Walking Cadences. Archives of Physical Medicine and Rehabilitation, 2009, 90, 2146-2154. | 0.9 | 69 |
| 10 | Reliability of plantar pressure platforms. Gait and Posture, 2013, 38, 544-548. | 1.4 | 64 |
| 11 | Hallux valgus and plantar pressure loading: the Framingham foot study. Journal of Foot and Ankle Research, 2013, 6, 42. | 1.9 | 57 |
| 12 | Foot Type Biomechanics Part 2: Are structure and anthropometrics related to function?. Gait and Posture, 2013, 37, 452-456. | 1.4 | 49 |
| 13 | Changes in coordination and its variability with an increase in running cadence. Journal of Sports Sciences, 2016, 34, 1388-1395. | 2.0 | 49 |
| 14 | Associations of Foot Posture and Function to Lower Extremity Pain: Results From a Populationâ€Based Foot Study. Arthritis Care and Research, 2013, 65, 1804-1812. | 3.4 | 41 |
| 15 | Wrist Kinematic Coupling and Performance During Functional Tasks: Effects of Constrained Motion. Journal of Hand Surgery, 2014, 39, 634-642.e1. | 1.6 | 41 |
| 16 | The effects of fatigue on lower extremity kinematics, kinetics and joint coupling in symptomatic female runners with iliotibial band syndrome. Clinical Biomechanics, 2016, 39, 84-90. | 1.2 | 33 |
| 17 | Osteoarthritis in England: Incidence Trends From National Health Service Hospital Episode Statistics. ACR Open Rheumatology, 2019, 1, 493-498. | 2.1 | 31 |
| 18 | Acceleration of the calcaneus at heel strike in neutrally aligned and pes planus feet. Clinical Biomechanics, 2001, 16, 608-613. | 1.2 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Surgical Treatments for Scapholunate Advanced Collapse Wrist: Kinematics and Functional Performance. Journal of Hand Surgery, 2015, 40, 1547-1553. | 1.6 | 27 |
| 20 | Moberg Osteotomy Shifts Contact Pressure Plantarly in the First Metatarsophalangeal Joint in a Biomechanical Model. Foot and Ankle International, 2016, 37, 96-101. | 2.3 | 26 |
| 21 | The Accuracy of an Automasking Algorithm in Plantar Pressure Measurements. HSS Journal, 2011, 7, 57-63. | 1.7 | 25 |
| 22 | Factors affecting center of pressure in older adults: the Framingham Foot Study. Journal of Foot and Ankle Research, 2013, 6, 18. | 1.9 | 23 |
| 23 | Comprehensive biomechanical characterization of feet in USMA cadets: Comparison across race, gender, arch flexibility, and foot types. Gait and Posture, 2018, 60, 175-180. | 1.4 | 23 |
| 24 | Foot Disorders Associated With Overpronated and Oversupinated Foot Function. Foot and Ankle International, 2014, 35, 1159-1165. | 2.3 | 22 |
| 25 | Association between general joint hypermobility and knee, hip, and lumbar spine osteoarthritis by race: a cross-sectional study. Arthritis Research and Therapy, 2018, 20, 76. | 3.5 | 22 |
| 26 | The effect of simulated elbow contracture on temporal and distance gait parameters. Gait and Posture, 2015, 41, 791-794. | 1.4 | 21 |
| 27 | Effect of Shoe Flexibility on Plantar Loading in Children Learning to Walk. Journal of the American Podiatric Medical Association, 2013, 103, 297-305. | 0.3 | 19 |
| 28 | Development of an Anatomical Wrist Joint Coordinate System to Quantify Motion During Functional Tasks. Journal of Applied Biomechanics, 2014, 30, 586-593. | 0.8 | 18 |
| 29 | Reliability of the Arch Height Index as a Measure of Foot Structure in Children. Pediatric Physical Therapy, 2017, 29, 83-88. | 0.6 | 17 |
| 30 | The relationship between foot arch flexibility and medial-lateral ground reaction force distribution. Gait and Posture, 2019, 69, 46-49. | 1.4 | 17 |
| 31 | Relationship of Joint Hypermobility with Ankle and Foot Radiographic Osteoarthritis and Symptoms in a Communityâ€Based Cohort. Arthritis Care and Research, 2019, 71, 538-544. | 3.4 | 16 |
| 32 | Relationship of joint hypermobility with low Back pain and lumbar spine osteoarthritis. BMC Musculoskeletal Disorders, 2019, 20, 158. | 1.9 | 15 |
| 33 | Hip muscle response to a fatiguing run in females with iliotibial band syndrome. Human Movement Science, 2019, 64, 181-190. | 1.4 | 14 |
| 34 | Differences in Gait and Stair Ascent After Total Ankle Arthroplasty and Ankle Arthrodesis. Foot and Ankle International, 2021, 42, 347-355. | 2.3 | 14 |
| 35 | ISB recommendations for skin-marker-based multi-segment foot kinematics. Journal of Biomechanics, 2021, 125, 110581. | 2.1 | 13 |
| 36 | Changes in Lower Extremity Kinematics and Temporal Parameters of Adolescent Baseball Pitchers During an Extended Pitching Bout. American Journal of Sports Medicine, 2017, 45, 1179-1186. | 4.2 | 12 |

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|---|---|---|---|
| 37 | Biomechanical and Functional Improvements Gained by Proximal Tibia Osteotomy Correction of Genu Varum in Patients with Knee Pain. HSS Journal, 2020, 16, 30-38. | 1.7 | 12 |
| 38 | Effect of Turf Toe on Foot Contact Pressures in Professional American Football Players. Foot and Ankle International, 2009, 30, 405-409. | 2.3 | 12 |
| 39 | Differentiation of hand posture to object shape in children with unilateral spastic cerebral palsy. Research in Developmental Disabilities, 2015, 45-46, 422-430. | 2.2 | 11 |
| 40 | Crossâ€sectional associations between variations in ankle shape by statistical shape modeling, injury history, and race: the Johnston County Osteoarthritis Project. Journal of Foot and Ankle Research, 2017, 10, 34. | 1.9 | 10 |
| 41 | Reliability of automated topographic measurements for spine deformity. Spine Deformity, 2022, 10, 1035-1045. | 1.5 | 10 |
| 42 | Are Pressure Time Integral and Cumulative Plantar Stress Related to First Metatarsophalangeal Joint Pain? Results From a Communityâ€Based Study. Arthritis Care and Research, 2016, 68, 1232-1238. | 3.4 | 9 |
| 43 | Effects of a Medial Knee Unloading Implant on Tibiofemoral Joint Mechanics During Walking. Journal of Orthopaedic Research, 2019, 37, 2149-2156. | 2.3 | 9 |
| 44 | Dynamic Assessment of Femoroacetabular Impingement Syndrome Hips. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2022, 38, 404-416.e3. | 2.7 | 9 |
| 45 | Physical performance measurement in persons with patellofemoral osteoarthritis: A pilot study. Journal of Back and Musculoskeletal Rehabilitation, 2015, 28, 335-342. | 1.1 | 7 |
| 46 | At Home Photography-Based Method for Measuring Wrist Range of Motion. Journal of Wrist Surgery, 2017, 06, 280-284. | 0.7 | 7 |
| 47 | Concurrent validity of an automated algorithm for computing the center of pressure excursion index (CPEI). Gait and Posture, 2018, 59, 7-10. | 1.4 | 7 |
| 48 | Foot Osteoarthritis Frequency and Associated Factors in a Communityâ€Based Crossâ€Sectional Study of White and African American Adults. Arthritis Care and Research, 2021, 73, 1784-1788. | 3.4 | 7 |
| 49 | Comparative Reliability of a Novel Electromechanical Device and Handheld Ruler for Measuring First Ray Mobility. Foot and Ankle International, 2021, 42, 107110072110203. | 2.3 | 7 |
| 50 | Instantaneous Metabolic Cost of Walking: Joint-Space Dynamic Model with Subject-Specific Heat Rate. PLoS ONE, 2016, 11, e0168070. | 2.5 | 7 |
| 51 | An Investigation of Structure, Flexibility, and Function Variables that Discriminate Asymptomatic Foot Types. Journal of Applied Biomechanics, 2017, 33, 203-210. | 0.8 | 6 |
| 52 | Mapping glenohumeral laxity: effect of capsule tension and abduction in cadaveric shoulders. Journal of Shoulder and Elbow Surgery, 2018, 27, 624-634. | 2.6 | 6 |
| 53 | Reliability and agreement between two wearable inertial sensor devices for measurement of arm activity during walking and running gait. Journal of Hand Therapy, 2022, 35, 151-154. | 1.5 | 6 |
| 54 | The associations of leg lean mass with foot pain, posture and function in the Framingham foot study. Journal of Foot and Ankle Research, 2014, 7, 46. | 1.9 | 5 |

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|---|---|---|---|
| 55 | Effect of increased serum 25(OH)D and calcium on structure and function of post-menopausal women: a pilot study. Archives of Osteoporosis, 2020, 15, 154. | 2.4 | 4 |
| 56 | The effect of wrist surgery on the kinematic consistency of joint axis reconstruction in a static posture. Journal of Orthopaedic Research, 2015, 33, 1341-1347. | 2.3 | 3 |
| 57 | In Vivo Plantar Pressures in Adult-Acquired Flatfoot Compared to Control Using an Intraoperative Pedobarographic Device. HSS Journal, 2017, 13, 136-145. | 1.7 | 3 |
| 58 | Is the association between knee injury and knee osteoarthritis modified by the presence of general joint hypermobility?. Osteoarthritis and Cartilage Open, 2020, 2, 100045. | 2.0 | 3 |
| 59 | Knee Kinetics and Kinematics in Patients With Ankle Arthroplasty and Ankle Arthrodesis. HSS Journal, 2022, 18, 408-417. | 1.7 | 3 |
| 60 | Biomechanics of the Peroneal Tendons. , 2020, , 23-40. | | 3 |
| 61 | Is the Planus Foot Type Associated With First Ray Hypermobility?. Foot & Ankle Orthopaedics, 2022, 7, 24730114221081545. | 0.2 | 3 |
| 62 | Dynamic barefoot plantar pressure in gait and foot type biomechanics. Journal of Foot and Ankle Research, 2014, 7, . | 1.9 | 2 |
| 63 | Leg Muscle Mass and Foot Symptoms, Structure, and Function: The Johnston County Osteoarthritis Project. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 385-390. | 3.6 | 2 |
| 64 | Comparing First Metatarsophalangeal Joint Flexibility in Hallux Rigidus Patients Pre- and Postcheilectomy Using a Novel Flexibility Device. Foot & Ankle Orthopaedics, 2020, 5, 247301142093000. | 0.2 | 2 |
| 65 | Finite Element Modeling of Planus and Rectus Foot Types for the Study of First Metatarsophalangeal and First Metatarsocuneiform Joint Contact Mechanics. Journal of Biomechanical Engineering, 2022, 144, . | 1.3 | 2 |
| 66 | The Effects of Adolescent Idiopathic Scoliosis on Axial Rotation of the Spine: A Study of Twisting Using Surface Topography. Children, 2022, 9, 670. | 1.5 | 2 |
| 67 | Joint-Space Dynamic Model of Metabolic Cost With Subject-Specific Energetic Parameters. , 2014, , . | | 1 |
| 68 | The Association of Parity with Greater Dynamic Pronation of the Feet. PM and R, 2021, 13, 144-152. | 1.6 | 1 |
| 69 | Foot type symmetry and change of foot structures from sitting to standing conditions. Journal of Foot and Ankle Research, 2014, 7, . | 1.9 | 0 |
| 70 | Conservative Management of Osteoarthritis. , 2012, , 1-36. | | 0 |
| 71 | Brief training of gait and posture using a wearable sensory feedback device with older adults who have fears of falling: A feasibility study. Health and Technology, 2022, 12, 433. | 3.6 | 0 |