Bijan Najafi

List of Publications by Year
in descending order

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260	9,892	38660	48187
papers	citations	50 h-index	88 g-index

273	273	273	9632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatio-temporal parameters of gait measured by an ambulatory system using miniature gyroscopes. Journal of Biomechanics, 2002, 35, 689-699.	0.9	705
2	Ambulatory system for human motion analysis using a kinematic sensor: monitoring of daily physical activity in the elderly. IEEE Transactions on Biomedical Engineering, 2003, 50, 711-723.	2.5	642
3	Measurement of stand-sit and sit-stand transitions using a miniature gyroscope and its application in fall risk evaluation in the elderly. IEEE Transactions on Biomedical Engineering, 2002, 49, 843-851.	2.5	371
4	The Impact of Mild Cognitive Impairment on Gait and Balance: A Systematic Review and Meta-Analysis of Studies Using Instrumented Assessment. Gerontology, 2017, 63, 67-83.	1.4	260
5	Capturing human motion using body-fixed sensors: outdoor measurement and clinical applications. Computer Animation and Virtual Worlds, 2004, 15, 79-94.	0.7	219
6	Relationships between dual-task related changes in stride velocity and stride time variability in healthy older adults. Human Movement Science, 2006, 25, 372-382.	0.6	185
7	Molecular dynamics simulation of imidazolium-based ionic liquids. I. Dynamics and diffusion coefficient. Journal of Chemical Physics, 2008, 129, 224508.	1.2	176
8	Effect of Tai Chi on Physical Function, Fall Rates and Quality of Life Among Older Stroke Survivors. Archives of Physical Medicine and Rehabilitation, 2014, 95, 816-824.	0.5	176
9	Distance to achieve steady state walking speed in frail elderly persons. Gait and Posture, 2008, 27, 91-96.	0.6	166
10	Electrical stimulation to accelerate wound healing. Diabetic Foot & Ankle, 2013, 4, 22081.	2.8	160
11	Evaluation of an ambulatory system for gait analysis in hip osteoarthritis and after total hip replacement. Gait and Posture, 2004, 20, 102-107.	0.6	156
12	Diabetic Foot Biomechanics and Gait Dysfunction. Journal of Diabetes Science and Technology, 2010, 4, 833-845.	1.3	147
13	Comparison of Posthospitalization Function and Community Mobility in Hospital Mobility Program and Usual Care Patients. JAMA Internal Medicine, 2016, 176, 921.	2.6	146
14	Frailty and Technology: A Systematic Review of Gait Analysis in Those with Frailty. Gerontology, 2014, 60, 79-89.	1.4	138
15	Does walking strategy in older people change as a function of walking distance?. Gait and Posture, 2009, 29, 261-266.	0.6	136
16	Wearable Sensor-Based In-Home Assessment of Gait, Balance, and Physical Activity for Discrimination of Frailty Status: Baseline Results of the Arizona Frailty Cohort Study. Gerontology, 2015, 61, 258-267.	1.4	136
17	Health Sensors, Smart Home Devices, and the Internet of Medical Things: An Opportunity for Dramatic Improvement in Care for the Lower Extremity Complications of Diabetes. Journal of Diabetes Science and Technology, 2018, 12, 577-586.	1.3	131
18	Assessing Postural Control and Postural Control Strategy in Diabetes Patients Using Innovative and Wearable Technology. Journal of Diabetes Science and Technology, 2010, 4, 780-791.	1.3	125

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19	AGE-RELATED DECLINE OF GAIT CONTROL UNDER A DUAL-TASK CONDITION. Journal of the American Geriatrics Society, 2003, 51, 1187-1188.	1.3	122
20	Interactive Sensor-Based Balance Training in Older Cancer Patients with Chemotherapy-Induced Peripheral Neuropathy: A Randomized Controlled Trial. Gerontology, 2016, 62, 553-563.	1.4	114
21	Feasibility and Efficacy of a Smart Mat Technology to Predict Development of Diabetic Plantar Ulcers. Diabetes Care, 2017, 40, 973-980.	4.3	114
22	Stair climbing detection during daily physical activity using a miniature gyroscope. Gait and Posture, 2005, 22, 287-294.	0.6	107
23	Effects of Wearable Sensor-Based Balance and Gait Training on Balance, Gait, and Functional Performance in Healthy and Patient Populations: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Gerontology, 2018, 64, 74-89.	1.4	98
24	Novel Wearable Technology for Assessing Spontaneous Daily Physical Activity and Risk of Falling in Older Adults with Diabetes. Journal of Diabetes Science and Technology, 2013, 7, 1147-1160.	1.3	90
25	Motor Performance Assessment in Parkinsonâ€™s Disease: Association between Objective In-Clinic, Objective In-Home, and Subjective/Semi-Objective Measures. PLoS ONE, 2015, 10, e0124763.	1.1	90
26	Sorptionâ€“desorption of cadmium in aqueous palygorskite, sepiolite, and calcite suspensions: Isotherm hysteresis. Chemosphere, 2006, 65, 2178-2184.	4.2	88
27	Sensor-Based Interactive Balance Training with Visual Joint Movement Feedback for Improving Postural Stability in Diabetics with Peripheral Neuropathy: A Randomized Controlled Trial. Gerontology, 2015, 61, 567-574.	1.4	88
28	Simulations of structural and dynamic anisotropy in nano-confined water between parallel graphite plates. Journal of Chemical Physics, 2012, 137, 184703.	1.2	84
29	Measuring Plantar Tissue Stress in People With Diabetic Peripheral Neuropathy: A Critical Concept in Diabetic Foot Management. Journal of Diabetes Science and Technology, 2019, 13, 869-880.	1.3	79
30	Improvements in gait characteristics after intensive resistance and functional training in people with dementia: a randomised controlled trial. BMC Geriatrics, 2014, 14, 73.	1.1	77
31	Molecular dynamics simulation of imidazolium-based ionic liquids. II. Transport coefficients. Journal of Chemical Physics, 2009, 130, 014703.	1.2	76
32	Sensor-Derived Physical Activity Parameters Can Predict Future Falls in People with Dementia. Gerontology, 2014, 60, 483-492.	1.4	76
33	Sorption of cadmium on palygorskite, sepiolite and calcite: Equilibria and organic ligand affected kinetics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 287, 182-190.	2.3	75
34	Motor Performance and Physical Activity as Predictors of Prospective Falls in Community-Dwelling Older Adults by Frailty Level: Application of Wearable Technology. Gerontology, 2016, 62, 654-664.	1.4	74
35	The Frailty Syndrome: Clinical measurements and basic underpinnings in humans and animals. Experimental Gerontology, 2014, 54, 6-13.	1.2	73
36	Effects of office workstation type on physical activity and stress. Occupational and Environmental Medicine, 2018, 75, 689-695.	1.3	72

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37	An Optical-Fiber-Based Smart Textile (Smart Socks) to Manage Biomechanical Risk Factors Associated With Diabetic Foot Amputation. Journal of Diabetes Science and Technology, 2017, 11, 668-677.	1.3	70
38	Wearable Sensors and the Assessment of Frailty among Vulnerable Older Adults: An Observational Cohort Study. Sensors, 2018, 18, 1336.	2.1	70
39	Stride-to-stride variability while enumerating animal names among healthy young adults: Result of stride velocity or effect of attention-demanding task?. Gait and Posture, 2008, 27, 138-143.	0.6	69
40	Importance of Time Spent Standing for Those at Risk of Diabetic Foot Ulceration. Diabetes Care, 2010, 33, 2448-2450.	4.3	66
41	Smarter Sole Survival: Will Neuropathic Patients at High Risk for Ulceration Use a Smart Insole-Based Foot Protection System?. Journal of Diabetes Science and Technology, 2017, 11, 702-713.	1.3	66
42	Interactive balance training integrating sensor-based visual feedback of movement performance: a pilot study in older adults. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 164.	2.4	65
43	Quantification of everyday motor function in a geriatric population. Journal of Rehabilitation Research and Development, 2007, 44, 417.	1.6	64
44	Laboratory in a box: Wearable sensors and its advantages for gait analysis. , 2011, 2011, 6507-10.		63
45	Canâ€™t Stand the Pressure: The Association Between Unprotected Standing, Walking, and Wound Healing in People With Diabetes. Journal of Diabetes Science and Technology, 2017, 11, 657-667.	1.3	61
46	Regulation of Cardiac Autonomic Nervous System Control across Frailty Statuses: A Systematic Review. Gerontology, 2016, 62, 3-15.	1.4	60
47	Assessing Upper Extremity Motion: An Innovative Method to Identify Frailty. Journal of the American Geriatrics Society, 2015, 63, 1181-1186.	1.3	59
48	The Influence of Diabetic Peripheral Neuropathy on Local Postural Muscle and Central Sensory Feedback Balance Control. PLoS ONE, 2015, 10, e0135255.	1.1	59
49	Sensor-based balance training with motion feedback in people with mild cognitive impairment. Journal of Rehabilitation Research and Development, 2016, 53, 945-958.	1.6	58
50	Protocol for constructing subject-specific biomechanical models of knee joint. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 589-603.	0.9	57
51	Leveraging smart technologies to improve the management of diabetic foot ulcers and extend ulcerâ€free days in remission. Diabetes/Metabolism Research and Reviews, 2020, 36, e3239.	1.7	56
52	Continuous monitoring and quantification of multiple parameters of daily physical activity in ambulatory Duchenne muscular dystrophy patients. European Journal of Paediatric Neurology, 2011, 15, 40-47.	0.7	52
53	Foot Problems in Older Adults. Journal of the American Podiatric Medical Association, 2018, 108, 126-139.	0.2	52
54	A Pilot Clinical Trial to Objectively Assess the Efficacy of Electroacupuncture on Gait in Patients with Parkinson's Disease Using Body Worn Sensors. PLoS ONE, 2016, 11, e0155613.	1.1	50

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55	Molecular dynamics simulations of the structure and transport properties of tetra-butylphosphonium amino acid ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 8826.	1.3	49
56	Decrease in Mobility during the COVID-19 Pandemic and Its Association with Increase in Depression among Older Adults: A Longitudinal Remote Mobility Monitoring Using a Wearable Sensor. Sensors, 2021, 21, 3090.	2.1	49
57	Advanced therapies in wound management: cell and tissue based therapies, physical and bio-physical therapies smart and IT based technologies. Journal of Wound Care, 2018, 27, S1-S137.	0.5	48
58	Does Integrative Medicine Enhance Balance in Aging Adults? Proof of Concept for the Benefit of Electroacupuncture Therapy in Parkinson's Disease. Gerontology, 2015, 61, 3-14.	1.4	47
59	Assessing Upper-Extremity Motion: An Innovative, Objective Method to Identify Frailty in Older Bed-Bound Trauma Patients. Journal of the American College of Surgeons, 2016, 223, 240-248.	0.2	47
60	Improving Sleep Quality Assessment Using Wearable Sensors by Including Information From Postural/Sleep Position Changes and Body Acceleration: A Comparison of Chest-Worn Sensors, Wrist Actigraphy, and Polysomnography. Journal of Clinical Sleep Medicine, 2017, 13, 1301-1310.	1.4	47
61	Stress among surgical attending physicians and trainees. Journal of Trauma and Acute Care Surgery, 2016, 81, 723-728.	1.1	46
62	Does footwear type impact the number of steps required to reach gait steady state?: An innovative look at the impact of foot orthoses on gait initiation. Gait and Posture, 2010, 32, 29-33.	0.6	45
63	Upper-Extremity Dual-Task Function: An Innovative Method to Assess Cognitive Impairment in Older Adults. Frontiers in Aging Neuroscience, 2016, 8, 167.	1.7	45
64	Electrical Stimulation as an Adjunctive Treatment of Painful and Sensory Diabetic Neuropathy. Journal of Diabetes Science and Technology, 2013, 7, 1202-1209.	1.3	44
65	Postural Transitions during Activities of Daily Living Could Identify Frailty Status: Application of Wearable Technology to Identify Frailty during Unsupervised Condition. Gerontology, 2017, 63, 479-487.	1.4	44
66	An Intensive Exercise Program Improves Motor Performances in Patients with Dementia: Translational Model of Geriatric Rehabilitation. Journal of Alzheimer's Disease, 2014, 39, 487-498.	1.2	42
67	Split-thickness skin grafting the high-risk diabeticÂfoot. Journal of Vascular Surgery, 2014, 59, 1657-1663.	0.6	41
68	Gait and balance assessments as early indicators of frailty in patients with known peripheral artery disease. Clinical Biomechanics, 2016, 32, 1-7.	0.5	41
69	Using Plantar Electrical Stimulation to Improve Postural Balance and Plantar Sensation Among Patients With Diabetic Peripheral Neuropathy: A Randomized Double Blinded Study. Journal of Diabetes Science and Technology, 2017, 11, 693-701.	1.3	41
70	Wellbuilt for wellbeing: Controlling relative humidity in the workplace matters for our health. Indoor Air, 2020, 30, 167-179.	2.0	41
71	Balance Rehabilitation. Journal of the American Podiatric Medical Association, 2013, 103, 498-507.	0.2	38
72	Fear of Falling Is Prevalent in Older Adults with Diabetes Mellitus But Is Unrelated to Level of Neuropathy. Journal of the American Podiatric Medical Association, 2013, 103, 480-488.	0.2	38

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73	A Randomized Controlled Trial of Custom Foot Orthoses for the Treatment of Plantar Heel Pain. Journal of the American Podiatric Medical Association, 2015, 105, 281-294.	0.2	36
74	Potential Applications of Smart Multifunctional Wearable Materials to Gerontology. Gerontology, 2017, 63, 287-298.	1.4	36
75	Toward Using a Smartwatch to Monitor Frailty in a Hospital Setting: Using a Single Wrist-Wearable Sensor to Assess Frailty in Bedbound Inpatients. Gerontology, 2018, 64, 389-400.	1.4	35
76	Plantar Temperature Response to Walking in Diabetes with and without Acute Charcot: The Charcot Activity Response Test. Journal of Aging Research, 2012, 2012, 1-5.	0.4	34
77	A Novel Plantar Stimulation Technology for Improving Protective Sensation and Postural Control in Patients with Diabetic Peripheral Neuropathy: A Double-Blinded, Randomized Study. Gerontology, 2013, 59, 473-480.	1.4	34
78	Assessing Plantar Pressure Distribution in Children with Flatfoot Arch. Journal of the American Podiatric Medical Association, 2014, 104, 622-632.	0.2	34
79	Training dual-task walking in community-dwelling adults within 1 year of stroke: a protocol for a single-blind randomized controlled trial. BMC Neurology, 2012, 12, 129.	0.8	33
80	Using wearables to screen motor performance deterioration because of cancer and chemotherapy-induced peripheral neuropathy (CIPN) in adults - Toward an early diagnosis of CIPN. Journal of Geriatric Oncology, 2019, 10, 960-967.	0.5	33
81	Impact of strut height on offloading capacity of removable cast walkers. Clinical Biomechanics, 2012, 27, 725-730.	0.5	32
82	The Impact of Footwear and Walking Distance on Gait Stability in Diabetic Patients with Peripheral Neuropathy. Journal of the American Podiatric Medical Association, 2013, 103, 165-173.	0.2	32
83	Changes in spatiotemporal gait patterns during flat ground walking and obstacle crossing 1 year after bariatric surgery. Surgery for Obesity and Related Diseases, 2016, 12, 1080-1085.	1.0	32
84	Activity Monitoring and Heart Rate Variability as Indicators of Fall Risk: Proof-of-Concept for Application of Wearable Sensors in the Acute Care Setting. Journal of Gerontological Nursing, 2017, 43, 53-62.	0.3	32
85	The Potential Role of Sensors, Wearables and Telehealth in the Remote Management of Diabetes-Related Foot Disease. Sensors, 2020, 20, 4527.	2.1	32
86	Accuracy and durability of Semmesâ€“Weinstein monofilaments: What is the useful service life?. Diabetes Research and Clinical Practice, 2012, 97, 399-404.	1.1	31
87	A Novel Shear Reduction Insole Effect on the Thermal Response to Walking Stress, Balance, and Gait. Journal of Diabetes Science and Technology, 2014, 8, 1151-1156.	1.3	31
88	Estimation of Center of Mass Trajectory using Wearable Sensors during Golf Swing. Journal of Sports Science and Medicine, 2015, 14, 354-63.	0.7	31
89	Harnessing Digital Health Technologies to Remotely Manage Diabetic Foot Syndrome: A Narrative Review. Medicina (Lithuania), 2021, 57, 377.	0.8	30
90	Virtualizing the Assessment: A Novel Pragmatic Paradigm to Evaluate Lower Extremity Joint Perception in Diabetes. Gerontology, 2012, 58, 463-471.	1.4	29

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91	Upper-Extremity Function Predicts Adverse Health Outcomes among Older Adults Hospitalized for Ground-Level Falls. Gerontology, 2017, 63, 299-307.	1.4	29
92	Effectiveness of Foot and Ankle Exercise Programs on Reducing the Risk of Falling in Older Adults. Journal of the American Podiatric Medical Association, 2013, 103, 534-547.	0.2	28
93	Gait behaviors as an objective surgical outcome in low back disorders: A systematic review. Clinical Biomechanics, 2015, 30, 528-536.	0.5	28
94	Instrumented Trail-Making Task to Differentiate Persons with No Cognitive Impairment, Amnestic Mild Cognitive Impairment, and Alzheimer Disease: A Proof of Concept Study. Gerontology, 2017, 63, 189-200.	1.4	28
95	Improved Physical Activity in Patients Treated for Chronic Pain by Spinal Cord Stimulation. Neuromodulation, 2005, 8, 40-48.	0.4	27
96	Influences of Frailty Syndrome on Open-Loop and Closed-Loop Postural Control Strategy. Gerontology, 2015, 61, 51-60.	1.4	27
97	Hemodialysis Impact on Motor Function beyond Aging and Diabetesâ€"Objectively Assessing Gait and Balance by Wearable Technology. Sensors, 2018, 18, 3939.	2.1	27
98	Designing Interiors to Mitigate Physical and Cognitive Deficits Related to Aging and to Promote Longevity in Older Adults: A Review. Gerontology, 2018, 64, 612-622.	1.4	27
99	Effectiveness of Daily Use of Bilateral Custom-Made Ankle-Foot Orthoses on Balance, Fear of Falling, and Physical Activity in Older Adults: A Randomized Controlled Trial. Gerontology, 2019, 65, 299-307.	1.4	27
100	Toward Using Wearables to Remotely Monitor Cognitive Frailty in Community-Living Older Adults: An Observational Study. Sensors, 2020, 20, 2218.	2.1	27
101	Molecular Dynamics Simulation Study of Adsorption and Patterning of DNA Bases on the Au(111) Surface. Journal of Physical Chemistry C, 2011, 115, 22484-22494.	1.5	26
102	Current Standards and Advances in Diabetic Ulcer Prevention and Elderly Fall Prevention Using Wearable Technology. Current Geriatrics Reports, 2015, 4, 249-256.	1.1	26
103	Can we predict outcome of surgical reconstruction of Charcot neuroarthropathy by dynamic plantar pressure assessment?â€"A proof of concept study. Gait and Posture, 2010, 31, 87-92.	0.6	25
104	Safety and Efficacy of Mild Compression (18â€"25 mm Hg) Therapy in Patients with Diabetes and Lower Extremity Edema. Journal of Diabetes Science and Technology, 2012, 6, 641-647.	1.3	24
105	A Passing Glance? Differences in Eye Tracking and Gaze Patterns Between Trainees and Experts Reading Plain Film Bunion Radiographs. Journal of Foot and Ankle Surgery, 2015, 54, 382-391.	0.5	24
106	Viscosity prediction by computational method and artificial neural network approach: The case of six refrigerants. Journal of Supercritical Fluids, 2013, 81, 67-78.	1.6	23
107	Application of Wearables to Facilitate Virtually Supervised Intradialytic Exercise for Reducing Depression Symptoms. Sensors, 2020, 20, 1571.	2.1	23
108	Later sleep timing predicts accelerated summer weight gain among elementary school children: a prospective observational study. International Journal of Behavioral Nutrition and Physical Activity, 2021, 18, 94.	2.0	23

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109	Diabetic Peripheral Neuropathy and Gait: Does Footwear Modify This Association?. Journal of Diabetes Science and Technology, 2013, 7, 1138-1146.	1.3	22
110	Mechanism of orthotic therapy for the painful cavus foot deformity. Journal of Foot and Ankle Research, 2014, 7, 2.	0.7	22
111	Does Physiological Stress Slow Down Wound Healing in Patients With Diabetes?. Journal of Diabetes Science and Technology, 2017, 11, 685-692.	1.3	22
112	Digital Biomarkers of Physical Frailty and Frailty Phenotypes Using Sensor-Based Physical Activity and Machine Learning. Sensors, 2021, 21, 5289.	2.1	22
113	An immediate effect of custom-made ankle foot orthoses on postural stability in older adults. Clinical Biomechanics, 2014, 29, 1081-1088.	0.5	21
114	Relationship Between Dual-Task Gait Speed and Walking Activity Poststroke. Stroke, 2018, 49, 1296-1298.	1.0	21
115	Instrumented Trail-Making Task: Application of Wearable Sensor to Determine Physical Frailty Phenotypes. Gerontology, 2019, 65, 186-197.	1.4	21
116	Characteristics of the gait initiation phase in older adults with diabetic peripheral neuropathy compared to control older adults. Clinical Biomechanics, 2020, 72, 155-160.	0.5	21
117	Molecular dynamics simulation of 13C NMR powder lineshapes of CO in structure I clathrate hydrate. Physical Chemistry Chemical Physics, 2009, 11, 8821.	1.3	20
118	Hallux Valgus Surgery May Produce Early Improvements in Balance Control. Journal of the American Podiatric Medical Association, 2013, 103, 489-497.	0.2	20
119	Molecular Dynamics and ab Initio Studies of the Effects of Substituent Groups on the Thermodynamic Properties and Structure of Four Selected Imidazolium-Based [Tf₂N^{â€“}] Ionic Liquids. Journal of Chemical & Engineering Data, 2014, 59, 2834-2849.	1.0	20
120	Assessing upper-extremity motion: An innovative method to quantify functional capacity in patients with chronic obstructive pulmonary disease. PLoS ONE, 2017, 12, e0172766.	1.1	20
121	Association Between Wearable Deviceâ€“Based Measures of Physical Frailty and Major Adverse Events Following Lower Extremity Revascularization. JAMA Network Open, 2020, 3, e2020161.	2.8	20
122	Advances in balance assessment and balance training for diabetes. Diabetes Management, 2012, 2, 293-308.	0.5	19
123	Objective fall risk detection in stroke survivors using wearable sensor technology: a feasibility study. Topics in Stroke Rehabilitation, 2016, 23, 393-399.	1.0	19
124	Toward Smart Footwear to Track Frailty Phenotypesâ€”Using Propulsion Performance to Determine Frailty. Sensors, 2018, 18, 1763.	2.1	19
125	Digital Biomarker Representing Frailty Phenotypes: The Use of Machine Learning and Sensor-Based Sit-to-Stand Test. Sensors, 2021, 21, 3258.	2.1	19
126	Should weight-bearing activity be reduced during healing of plantar diabetic foot ulcers, even when using appropriate offloading devices?. Diabetes Research and Clinical Practice, 2021, 175, 108733.	1.1	19

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127	Lace Up for Healthy Feet: The Impact of Shoe Closure on Plantar Stress Response. Journal of Diabetes Science and Technology, 2017, 11, 678-684.	1.3	18
128	Motor Planning Error: Toward Measuring Cognitive Frailty in Older Adults Using Wearables. Sensors, 2018, 18, 926.	2.1	18
129	The association between motor capacity and mobility performance: frailty as a moderator. European Review of Aging and Physical Activity, 2019, 16, 16.	1.3	18
130	The impact of diabetic foot ulcers and unilateral offloading footwear on gait in people with diabetes. Clinical Biomechanics, 2020, 73, 157-161.	0.5	18
131	Safety of robotic first rib resection for thoracic outlet syndrome. Journal of Thoracic and Cardiovascular Surgery, 2021, 162, 1297-1305.e1.	0.4	18
132	Smart Offloading Boot System for Remote Patient Monitoring: Toward Adherence Reinforcement and Proper Physical Activity Prescription for Diabetic Foot Ulcer Patients. Journal of Diabetes Science and Technology, 2023, 17, 42-51.	1.3	18
133	The Role of Podiatry in the Prevention of Falls in Older People. Journal of the American Podiatric Medical Association, 2013, 103, 452-456.	0.2	17
134	Precision Medicine: A Wider Definition. Journal of the American Geriatrics Society, 2015, 63, 1971-1972.	1.3	17
135	Instructions and skill level influence reliability of dual-task performance in young adults. Gait and Posture, 2015, 41, 964-967.	0.6	17
136	Alterations in gait parameters with peripheral artery disease: The importance of pre-frailty as a confounding variable. Vascular Medicine, 2016, 21, 520-527.	0.8	17
137	Digital Biomarkers of Cognitive Frailty: The Value of Detailed Gait Assessment Beyond Gait Speed. Gerontology, 2022, 68, 224-233.	1.4	17
138	Toward Remote Assessment of Physical Frailty Using Sensor-based Sit-to-stand Test. Journal of Surgical Research, 2021, 263, 130-139.	0.8	17
139	How Should Clinical Wound Care and Management Translate to Effective Engineering Standard Testing Requirements from Foam Dressings? Mapping the Existing Gaps and Needs. Advances in Wound Care, 2024, 13, 34-52.	2.6	17
140	A Proof-of-Concept Study for Measuring Gait Speed, Steadiness, and Dynamic Balance Under Various Footwear Conditions Outside of the Gait Laboratory. Journal of the American Podiatric Medical Association, 2010, 100, 242-250.	0.2	16
141	Sensor-Based Daily Physical Activity: Towards Prediction of the Level of Concern about Falling in Peripheral Neuropathy. Sensors, 2020, 20, 505.	2.1	16
142	Attentional prioritization in dual-task walking: Effects of stroke, environment, and instructed focus. Gait and Posture, 2020, 79, 3-9.	0.6	16
143	Dynamic plantar loading index: Understanding the benefit of custom foot orthoses for painful pes cavus. Journal of Biomechanics, 2012, 45, 1705-1711.	0.9	15
144	The Effect of Daily Use of Plantar Mechanical Stimulation Through Micro-Mobile Foot Compression Device Installed in Shoe Insoles on Vibration Perception, Gait, and Balance in People With Diabetic Peripheral Neuropathy. Journal of Diabetes Science and Technology, 2019, 13, 847-856.	1.3	15

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145	Does the Presence of Cognitive Impairment Exacerbate the Risk of Falls in People with Peripheral Neuropathy? An Application of Body-Worn Inertial Sensors to Measure Gait Variability. Sensors, 2020, 20, 1328.	2.1	15
146	Home-Based Electrical Stimulation to Accelerate Wound Healingâ€"A Double-Blinded Randomized Control Trial. Journal of Diabetes Science and Technology, 2023, 17, 15-24.	1.3	15
147	Objective measurement of sleep, heart rate, heart rate variability, and physical activity in suicidality: A systematic review. Journal of Affective Disorders, 2020, 273, 318-327.	2.0	15
148	An ambulatory system for physical activity monitoring in elderly. , 0, , .		14
149	Stressing the dressing: Assessing stress during wound care in real-time using wearable sensors. Wound Medicine, 2014, 4, 21-26.	2.7	14
150	Exergaming in Older People Living with HIV Improves Balance, Mobility and Ameliorates Some Aspects of Frailty. Journal of Visualized Experiments, 2016, , .	0.2	14
151	Motorized Mobility Scooters: The Use of Training/Intervention and Technology for Improving Driving Skills in Aging Adults - A Mini-Review. Gerontology, 2014, 60, 357-365.	1.4	13
152	FALLS SELFâ€EFFICACY AND GAIT PERFORMANCE AFTER GAIT AND BALANCE TRAINING IN OLDER PEOPLE. Journal of the American Geriatrics Society, 2008, 56, 1154-1156.	1.3	12
153	Molecular dynamics study of congruent melting of the equimolar ionic liquid-benzene inclusion crystal [emim][NTf2]â€¢C6H6. Journal of Chemical Physics, 2010, 132, 044507.	1.2	12
154	Post the Pandemic: How will COVID-19 Transform Diabetic Foot Disease Management?. Journal of Diabetes Science and Technology, 2020, 14, 764-766.	1.3	12
155	Molecular dynamics simulation of NMR powder lineshapes of linear guests in structure I clathrate hydrates. Physical Chemistry Chemical Physics, 2011, 13, 2367-2377.	1.3	11
156	Postural Balance Parameters as Objective Surgical Assessments in Low Back Disorders: A Systematic Review. Journal of Applied Biomechanics, 2016, 32, 316-323.	0.3	11
157	Novel In-Shoe Exoskeleton for Offloading of Forefoot Pressure for Individuals With Diabetic Foot Pathology. Journal of Diabetes Science and Technology, 2017, 11, 874-882.	1.3	11
158	The Effect of Pain Relief on Daily Physical Activity: In-Home Objective Physical Activity Assessment in Chronic Low Back Pain Patients after Paravertebral Spinal Block. Sensors, 2018, 18, 3048.	2.1	11
159	Remote Physical Frailty Monitoringâ€“ The Application of Deep Learning-Based Image Processing in Tele-Health. IEEE Access, 2020, 8, 219391-219399.	2.6	11
160	Evaluation of Motor and Cognitive Performance in People with Parkinsonâ€™s Disease Using Instrumented Trail-Making Test. Gerontology, 2022, 68, 234-240.	1.4	11
161	Proximal tibia volumetric bone mineral density is correlated to the magnitude of local acceleration in male long-distance runners. Journal of Applied Physiology, 2010, 108, 852-857.	1.2	10
162	Treatment Options for Venous Leg Ulcers. Advances in Skin and Wound Care, 2015, 28, 164-172.	0.5	10

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163	Prediction of the Thermal Conductivity of Refrigerants by Computational Methods and Artificial Neural Network. Frontiers in Chemistry, 2017, 5, 99.	1.8	10
164	Mobility Performance in Community-Dwelling Older Adults: Potential Digital Biomarkers of Concern about Falling. Gerontology, 2021, 67, 365-373.	1.4	10
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