

# Bijan Najafi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

232  
papers

7,650  
citations

47  
h-index

79  
g-index

273  
ext. papers

9,200  
ext. citations

3.4  
avg, IF

6.36  
L-index

#	Paper	IF	Citations
232	Spatio-temporal parameters of gait measured by an ambulatory system using miniature gyroscopes. <i>Journal of Biomechanics</i> , <b>2002</b> , 35, 689-99	2.9	585
231	Ambulatory system for human motion analysis using a kinematic sensor: monitoring of daily physical activity in the elderly. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2003</b> , 50, 711-23	5	552
230	Measurement of stand-sit and sit-stand transitions using a miniature gyroscope and its application in fall risk evaluation in the elderly. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2002</b> , 49, 843-51	5	294
229	Capturing human motion using body-fixed sensors: outdoor measurement and clinical applications. <i>Computer Animation and Virtual Worlds</i> , <b>2004</b> , 15, 79-94	0.9	184
228	Relationships between dual-task related changes in stride velocity and stride time variability in healthy older adults. <i>Human Movement Science</i> , <b>2006</b> , 25, 372-82	2.4	150
227	Molecular dynamics simulation of imidazolium-based ionic liquids. I. Dynamics and diffusion coefficient. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 224508	3.9	148
226	The Impact of Mild Cognitive Impairment on Gait and Balance: A Systematic Review and Meta-Analysis of Studies Using Instrumented Assessment. <i>Gerontology</i> , <b>2017</b> , 63, 67-83	5.5	147
225	Effect of Tai Chi on physical function, fall rates and quality of life among older stroke survivors. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2014</b> , 95, 816-24	2.8	139
224	Distance to achieve steady state walking speed in frail elderly persons. <i>Gait and Posture</i> , <b>2008</b> , 27, 91-6	2.6	139
223	Evaluation of an ambulatory system for gait analysis in hip osteoarthritis and after total hip replacement. <i>Gait and Posture</i> , <b>2004</b> , 20, 102-7	2.6	131
222	Does walking strategy in older people change as a function of walking distance?. <i>Gait and Posture</i> , <b>2009</b> , 29, 261-6	2.6	116
221	Diabetic foot biomechanics and gait dysfunction. <i>Journal of Diabetes Science and Technology</i> , <b>2010</b> , 4, 833-45	4.1	114
220	Electrical stimulation to accelerate wound healing. <i>Diabetic Foot &amp; Ankle</i> , <b>2013</b> , 4,	6.5	113
219	Assessing postural control and postural control strategy in diabetes patients using innovative and wearable technology. <i>Journal of Diabetes Science and Technology</i> , <b>2010</b> , 4, 780-91	4.1	107
218	Age-related decline of gait control under a dual-task condition. <i>Journal of the American Geriatrics Society</i> , <b>2003</b> , 51, 1187-8	5.6	100
217	Frailty and technology: a systematic review of gait analysis in those with frailty. <i>Gerontology</i> , <b>2014</b> , 60, 79-89	5.5	97
216	Comparison of Posthospitalization Function and Community Mobility in Hospital Mobility Program and Usual Care Patients: A Randomized Clinical Trial. <i>JAMA Internal Medicine</i> , <b>2016</b> , 176, 921-7	11.5	96

215	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. <i>Journal of Diabetes Science and Technology</i> , <b>2018</b> , 12, 577-586	4.1	89
214	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. <i>Gerontology</i> , <b>2015</b> , 61, 258-67	5.5	86
213	Stair climbing detection during daily physical activity using a miniature gyroscope. <i>Gait and Posture</i> , <b>2005</b> , 22, 287-94	2.6	85
212	Interactive Sensor-Based Balance Training in Older Cancer Patients with Chemotherapy-Induced Peripheral Neuropathy: A Randomized Controlled Trial. <i>Gerontology</i> , <b>2016</b> , 62, 553-63	5.5	85
211	CHARACTERISTICS OF THE GAIT INITIATION PHASE IN OLDER ADULTS WITH DIABETIC PERIPHERAL NEUROPATHY. <i>Innovation in Aging</i> , <b>2019</b> , 3, S474-S474	0.1	78
210	Mechanism of effective orthotic therapy for the painful cavus foot. <i>Journal of Foot and Ankle Research</i> , <b>2013</b> , 6, O3	3.2	78
209	DETECTION OF FORWARD PROPULSION USING A SINGLE ACCELEROMETER DURING WALKING IN OLDER POPULATION. <i>Innovation in Aging</i> , <b>2019</b> , 3, S333-S333	0.1	78
208	AN INNOVATIVE PLATFORM BASED ON WEARABLE SENSOR TO QUANTIFY FRAILTY PHENOTYPES. <i>Innovation in Aging</i> , <b>2019</b> , 3, S683-S684	0.1	78
207	OPERATIONALIZING THE FRAILTY INDEX BASED ON WEARABLE SENSOR TO ASSESS FUNCTIONAL PERFORMANCE IN OLDER ADULTS. <i>Innovation in Aging</i> , <b>2019</b> , 3, S680-S680	0.1	78
206	GAIT UNSTEADINESS AS AN INDICATOR OF COGNITIVE STATUS IN INDIVIDUALS WITH PERIPHERAL NEUROPATHY. <i>Innovation in Aging</i> , <b>2019</b> , 3, S845-S845	0.1	78
205	Feasibility and Efficacy of a Smart Mat Technology to Predict Development of Diabetic Plantar Ulcers. <i>Diabetes Care</i> , <b>2017</b> , 40, 973-980	14.6	75
204	Sorption-desorption of cadmium in aqueous palygorskite, sepiolite, and calcite suspensions: isotherm hysteresis. <i>Chemosphere</i> , <b>2006</b> , 65, 2178-84	8.4	74
203	Simulations of structural and dynamic anisotropy in nano-confined water between parallel graphite plates. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 184703	3.9	69
202	Novel wearable technology for assessing spontaneous daily physical activity and risk of falling in older adults with diabetes. <i>Journal of Diabetes Science and Technology</i> , <b>2013</b> , 7, 1147-60	4.1	68
201	Sorption of cadmium on palygorskite, sepiolite and calcite: Equilibria and organic ligand affected kinetics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 287, 182-190	5.1	67
200	Sensor-Based Interactive Balance Training with Visual Joint Movement Feedback for Improving Postural Stability in Diabetics with Peripheral Neuropathy: A Randomized Controlled Trial. <i>Gerontology</i> , <b>2015</b> , 61, 567-74	5.5	63
199	Molecular dynamics simulation of imidazolium-based ionic liquids. II. Transport coefficients. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 014703	3.9	63
198	Motor Performance Assessment in Parkinson Disease: Association between Objective In-Clinic, Objective In-Home, and Subjective/Semi-Objective Measures. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124763	3.7	63

197	Improvements in gait characteristics after intensive resistance and functional training in people with dementia: a randomised controlled trial. <i>BMC Geriatrics</i> , <b>2014</b> , 14, 73	4.1	62
196	The Frailty syndrome: clinical measurements and basic underpinnings in humans and animals. <i>Experimental Gerontology</i> , <b>2014</b> , 54, 6-13	4.5	59
195	Sensor-derived physical activity parameters can predict future falls in people with dementia. <i>Gerontology</i> , <b>2014</b> , 60, 483-92	5.5	59
194	Stride-to-stride variability while enumerating animal names among healthy young adults: result of stride velocity or effect of attention-demanding task?. <i>Gait and Posture</i> , <b>2008</b> , 27, 138-43	2.6	57
193	Quantification of everyday motor function in a geriatric population. <i>Journal of Rehabilitation Research and Development</i> , <b>2007</b> , 44, 417-28		54
192	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. <i>Gerontology</i> , <b>2018</b> , 64, 74-89	5.5	54
191	Importance of time spent standing for those at risk of diabetic foot ulceration. <i>Diabetes Care</i> , <b>2010</b> , 33, 2448-50	14.6	53
190	Motor Performance and Physical Activity as Predictors of Prospective Falls in Community-Dwelling Older Adults by Frailty Level: Application of Wearable Technology. <i>Gerontology</i> , <b>2016</b> , 62, 654-664	5.5	53
189	The influence of diabetic peripheral neuropathy on local postural muscle and central sensory feedback balance control. <i>PLoS ONE</i> , <b>2015</b> , 10, e0135255	3.7	49
188	Protocol for constructing subject-specific biomechanical models of knee joint. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2010</b> , 13, 589-603	2.1	49
187	Assessing Upper Extremity Motion: An Innovative Method to Identify Frailty. <i>Journal of the American Geriatrics Society</i> , <b>2015</b> , 63, 1181-6	5.6	48
186	An Optical-Fiber-Based Smart Textile (Smart Socks) to Manage Biomechanical Risk Factors Associated With Diabetic Foot Amputation. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 668-677 <sup>1</sup>		47
185	Laboratory in a box: wearable sensors and its advantages for gait analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6507-10	0.9	44
184	Molecular dynamics simulations of the structure and transport properties of tetra-butylphosphonium amino acid ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 8826-37	3.6	43
183	Interactive balance training integrating sensor-based visual feedback of movement performance: a pilot study in older adults. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2014</b> , 11, 164	5.3	42
182	Sensor-based balance training with motion feedback in people with mild cognitive impairment. <i>Journal of Rehabilitation Research and Development</i> , <b>2016</b> , 53, 945-958		42
181	Smarter Sole Survival: Will Neuropathic Patients at High Risk for Ulceration Use a Smart Insole-Based Foot Protection System?. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 702-713	4.1	41
180	Wearable Sensors and the Assessment of Frailty among Vulnerable Older Adults: An Observational Cohort Study. <i>Sensors</i> , <b>2018</b> , 18,	3.8	41

179	Can@Stand the Pressure: The Association Between Unprotected Standing, Walking, and Wound Healing in People With Diabetes. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 657-667	4.1	40
178	Effects of office workstation type on physical activity and stress. <i>Occupational and Environmental Medicine</i> , <b>2018</b> , 75, 689-695	2.1	40
177	Measuring Plantar Tissue Stress in People With Diabetic Peripheral Neuropathy: A Critical Concept in Diabetic Foot Management. <i>Journal of Diabetes Science and Technology</i> , <b>2019</b> , 13, 869-880	4.1	39
176	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. <i>Gait and Posture</i> , <b>2010</b> , 32, 29-33	2.6	39
175	Foot Problems in Older Adults. <i>Journal of the American Podiatric Medical Association</i> , <b>2018</b> , 108, 126-139		37
174	An intensive exercise program improves motor performances in patients with dementia: translational model of geriatric rehabilitation. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 39, 487-98	4.3	37
173	Assessing Upper-Extremity Motion: An Innovative, Objective Method to Identify Frailty in Older Bed-Bound Trauma Patients. <i>Journal of the American College of Surgeons</i> , <b>2016</b> , 223, 240-8	4.4	37
172	Does integrative medicine enhance balance in aging adults? Proof of concept for the benefit of electroacupuncture therapy in Parkinson@ disease. <i>Gerontology</i> , <b>2015</b> , 61, 3-14	5.5	35
171	Regulation of Cardiac Autonomic Nervous System Control across Frailty Statuses: A Systematic Review. <i>Gerontology</i> , <b>2015</b> , 62, 3-15	5.5	35
170	Continuous monitoring and quantification of multiple parameters of daily physical activity in ambulatory Duchenne muscular dystrophy patients. <i>European Journal of Paediatric Neurology</i> , <b>2011</b> , 15, 40-7	3.8	35
169	Electrical stimulation as an adjunctive treatment of painful and sensory diabetic neuropathy. <i>Journal of Diabetes Science and Technology</i> , <b>2013</b> , 7, 1202-9	4.1	34
168	Advanced therapies in wound management: cell and tissue based therapies, physical and bio-physical therapies smart and IT based technologies. <i>Journal of Wound Care</i> , <b>2018</b> , 27, S1-S137	2.2	33
167	A Pilot Clinical Trial to Objectively Assess the Efficacy of Electroacupuncture on Gait in Patients with Parkinson@ Disease Using Body Worn Sensors. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155613	3.7	33
166	Split-thickness skin grafting the high-risk diabetic foot. <i>Journal of Vascular Surgery</i> , <b>2014</b> , 59, 1657-63	3.5	32
165	Upper-Extremity Dual-Task Function: An Innovative Method to Assess Cognitive Impairment in Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2016</b> , 8, 167	5.3	31
164	Gait and balance assessments as early indicators of frailty in patients with known peripheral artery disease. <i>Clinical Biomechanics</i> , <b>2016</b> , 32, 1-7	2.2	30
163	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. <i>Journal of Clinical Sleep Medicine</i> , <b>2017</b> , 13, 1301-1310	3.1	30
162	Fear of falling is prevalent in older adults with diabetes mellitus but is unrelated to level of neuropathy. <i>Journal of the American Podiatric Medical Association</i> , <b>2013</b> , 103, 480-8	1	29

161	Plantar Temperature Response to Walking in Diabetes with and without Acute Charcot: The Charcot Activity Response Test. <i>Journal of Aging Research</i> , <b>2012</b> , 2012, 140968	2.3	29
160	Potential Applications of Smart Multifunctional Wearable Materials to Gerontology. <i>Gerontology</i> , <b>2017</b> , 63, 287-298	5.5	28
159	Balance rehabilitation: promoting the role of virtual reality in patients with diabetic peripheral neuropathy. <i>Journal of the American Podiatric Medical Association</i> , <b>2013</b> , 103, 498-507	1	28
158	Estimation of Center of Mass Trajectory using Wearable Sensors during Golf Swing. <i>Journal of Sports Science and Medicine</i> , <b>2015</b> , 14, 354-63	2.7	28
157	Training dual-task walking in community-dwelling adults within 1 year of stroke: a protocol for a single-blind randomized controlled trial. <i>BMC Neurology</i> , <b>2012</b> , 12, 129	3.1	27
156	Stress among surgical attending physicians and trainees: A quantitative assessment during trauma activation and emergency surgeries. <i>Journal of Trauma and Acute Care Surgery</i> , <b>2016</b> , 81, 723-8	3.3	26
155	Impact of strut height on offloading capacity of removable cast walkers. <i>Clinical Biomechanics</i> , <b>2012</b> , 27, 725-30	2.2	26
154	Postural Transitions during Activities of Daily Living Could Identify Frailty Status: Application of Wearable Technology to Identify Frailty during Unsupervised Condition. <i>Gerontology</i> , <b>2017</b> , 63, 479-487	5.5	25
153	Upper-Extremity Function Predicts Adverse Health Outcomes among Older Adults Hospitalized for Ground-Level Falls. <i>Gerontology</i> , <b>2017</b> , 63, 299-307	5.5	25
152	A novel plantar stimulation technology for improving protective sensation and postural control in patients with diabetic peripheral neuropathy: a double-blinded, randomized study. <i>Gerontology</i> , <b>2013</b> , 59, 473-80	5.5	25
151	Using Plantar Electrical Stimulation to Improve Postural Balance and Plantar Sensation Among Patients With Diabetic Peripheral Neuropathy: A Randomized Double Blinded Study. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 693-701	4.1	24
150	A randomized controlled trial of custom foot orthoses for the treatment of plantar heel pain. <i>Journal of the American Podiatric Medical Association</i> , <b>2015</b> , 105, 281-94	1	24
149	A novel shear reduction insole effect on the thermal response to walking stress, balance, and gait. <i>Journal of Diabetes Science and Technology</i> , <b>2014</b> , 8, 1151-6	4.1	24
148	The impact of footwear and walking distance on gait stability in diabetic patients with peripheral neuropathy. <i>Journal of the American Podiatric Medical Association</i> , <b>2013</b> , 103, 165-73	1	24
147	Changes in spatiotemporal gait patterns during flat ground walking and obstacle crossing 1 year after bariatric surgery. <i>Surgery for Obesity and Related Diseases</i> , <b>2016</b> , 12, 1080-1085	3	23
146	Effectiveness of foot and ankle exercise programs on reducing the risk of falling in older adults: a systematic review and meta-analysis of randomized controlled trials. <i>Journal of the American Podiatric Medical Association</i> , <b>2013</b> , 103, 534-47	1	23
145	Gait behaviors as an objective surgical outcome in low back disorders: A systematic review. <i>Clinical Biomechanics</i> , <b>2015</b> , 30, 528-36	2.2	23
144	Molecular Dynamics Simulation Study of Adsorption and Patterning of DNA Bases on the Au(111) Surface. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 22484-22494	3.8	23



143	Can we predict outcome of surgical reconstruction of Charcot neuroarthropathy by dynamic plantar pressure assessment?--A proof of concept study. <i>Gait and Posture</i> , <b>2010</b> , 31, 87-92	2.6	23
142	Toward Using a Smartwatch to Monitor Frailty in a Hospital Setting: Using a Single Wrist-Wearable Sensor to Assess Frailty in Bedbound Inpatients. <i>Gerontology</i> , <b>2018</b> , 64, 389-400	5.5	23
141	Instrumented Trail-Making Task to Differentiate Persons with No Cognitive Impairment, Amnestic Mild Cognitive Impairment, and Alzheimer Disease: A Proof of Concept Study. <i>Gerontology</i> , <b>2017</b> , 63, 189-200	5.5	22
140	Virtualizing the assessment: a novel pragmatic paradigm to evaluate lower extremity joint perception in diabetes. <i>Gerontology</i> , <b>2012</b> , 58, 463-71	5.5	22
139	Improved physical activity in patients treated for chronic pain by spinal cord stimulation. <i>Neuromodulation</i> , <b>2005</b> , 8, 40-8	3.1	22
138	Hemodialysis Impact on Motor Function beyond Aging and Diabetes-Objectively Assessing Gait and Balance by Wearable Technology. <i>Sensors</i> , <b>2018</b> , 18,	3.8	22
137	Accuracy and durability of Semmes-Weinstein monofilaments: what is the useful service life?. <i>Diabetes Research and Clinical Practice</i> , <b>2012</b> , 97, 399-404	7.4	21
136	Leveraging smart technologies to improve the management of diabetic foot ulcers and extend ulcer-free days in remission. <i>Diabetes/Metabolism Research and Reviews</i> , <b>2020</b> , 36 Suppl 1, e3239	7.5	21
135	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. <i>Gerontology</i> , <b>2019</b> , 65, 299-307	5.5	21
134	Using wearables to screen motor performance deterioration because of cancer and chemotherapy-induced peripheral neuropathy (CIPN) in adults - Toward an early diagnosis of CIPN. <i>Journal of Geriatric Oncology</i> , <b>2019</b> , 10, 960-967	3.6	19
133	A passing glance? Differences in eye tracking and gaze patterns between trainees and experts reading plain film bunion radiographs. <i>Journal of Foot and Ankle Surgery</i> , <b>2015</b> , 54, 382-91	1.6	19
132	Mechanism of orthotic therapy for the painful cavus foot deformity. <i>Journal of Foot and Ankle Research</i> , <b>2014</b> , 7, 2	3.2	19
131	Molecular Dynamics and ab Initio Studies of the Effects of Substituent Groups on the Thermodynamic Properties and Structure of Four Selected Imidazolium-Based [Tf2N] <sup>-</sup> Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 2834-2849	2.8	19
130	Influences of frailty syndrome on open-loop and closed-loop postural control strategy. <i>Gerontology</i> , <b>2015</b> , 61, 51-60	5.5	19
129	Current Standards and Advances in Diabetic Ulcer Prevention and Elderly Fall Prevention Using Wearable Technology. <i>Current Geriatrics Reports</i> , <b>2015</b> , 4, 249-256	1.3	18
128	Activity Monitoring and Heart Rate Variability as Indicators of Fall Risk: Proof-of-Concept for Application of Wearable Sensors in the Acute Care Setting. <i>Journal of Gerontological Nursing</i> , <b>2017</b> , 43, 53-62	1.2	18
127	An immediate effect of custom-made ankle foot orthoses on postural stability in older adults. <i>Clinical Biomechanics</i> , <b>2014</b> , 29, 1081-8	2.2	18
126	Assessing plantar pressure distribution in children with flatfoot arch: application of the Clarke angle. <i>Journal of the American Podiatric Medical Association</i> , <b>2014</b> , 104, 622-32	1	18

125	Safety and efficacy of mild compression (18-25 mm Hg) therapy in patients with diabetes and lower extremity edema. <i>Journal of Diabetes Science and Technology</i> , <b>2012</b> , 6, 641-7	4.1	17
124	Molecular dynamics simulation of (13)C NMR powder lineshapes of CO in structure I clathrate hydrate. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 8821-8	3.6	17
123	Does Physiological Stress Slow Down Wound Healing in Patients With Diabetes?. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 685-692	4.1	16
122	Viscosity prediction by computational method and artificial neural network approach: The case of six refrigerants. <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 81, 67-78	4.2	16
121	Advances in balance assessment and balance training for diabetes. <i>Diabetes Management</i> , <b>2012</b> , 2, 293-308		16
120	Diabetic peripheral neuropathy and gait: does footwear modify this association?. <i>Journal of Diabetes Science and Technology</i> , <b>2013</b> , 7, 1138-46	4.1	16
119	Wellbuilt for wellbeing: Controlling relative humidity in the workplace matters for our health. <i>Indoor Air</i> , <b>2020</b> , 30, 167-179	5.4	16
118	Lace Up for Healthy Feet: The Impact of Shoe Closure on Plantar Stress Response. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 678-684	4.1	15
117	Motor Planning Error: Toward Measuring Cognitive Frailty in Older Adults Using Wearables. <i>Sensors</i> , <b>2018</b> , 18,	3.8	15
116	The role of podiatry in the prevention of falls in older people: a JAPMA special issue. <i>Journal of the American Podiatric Medical Association</i> , <b>2013</b> , 103, 452-6	1	15
115	Hallux valgus surgery may produce early improvements in balance control: results of a cross-sectional pilot study. <i>Journal of the American Podiatric Medical Association</i> , <b>2013</b> , 103, 489-97	1	15
114	A proof-of-concept study for measuring gait speed, steadiness, and dynamic balance under various footwear conditions outside of the gait laboratory. <i>Journal of the American Podiatric Medical Association</i> , <b>2010</b> , 100, 242-50	1	15
113	Designing Interiors to Mitigate Physical and Cognitive Deficits Related to Aging and to Promote Longevity in Older Adults: A Review. <i>Gerontology</i> , <b>2018</b> , 64, 612-622	5.5	15
112	Toward Using Wearables to Remotely Monitor Cognitive Frailty in Community-Living Older Adults: An Observational Study. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14
111	Assessing upper-extremity motion: An innovative method to quantify functional capacity in patients with chronic obstructive pulmonary disease. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172766	3.7	14
110	The Potential Role of Sensors, Wearables and Telehealth in the Remote Management of Diabetes-Related Foot Disease. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14
109	Instructions and skill level influence reliability of dual-task performance in young adults. <i>Gait and Posture</i> , <b>2015</b> , 41, 964-7	2.6	13
108	Characteristics of the gait initiation phase in older adults with diabetic peripheral neuropathy compared to control older adults. <i>Clinical Biomechanics</i> , <b>2020</b> , 72, 155-160	2.2	13



107	Toward Smart Footwear to Track Frailty Phenotypes-Using Propulsion Performance to Determine Frailty. <i>Sensors</i> , <b>2018</b> , 18,	3.8	12
106	Stressing the dressing: Assessing stress during wound care in real-time using wearable sensors. <i>Wound Medicine</i> , <b>2014</b> , 4, 21-26	2.8	12
105	Precision Medicine: A Wider Definition. <i>Journal of the American Geriatrics Society</i> , <b>2015</b> , 63, 1971-2	5.6	12
104	Dynamic plantar loading index: understanding the benefit of custom foot orthoses for painful pes cavus. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 1705-11	2.9	12
103	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. <i>Sensors</i> , <b>2021</b> , 21,	3.8	12
102	Objective fall risk detection in stroke survivors using wearable sensor technology: a feasibility study. <i>Topics in Stroke Rehabilitation</i> , <b>2016</b> , 23, 393-399	2.6	12
101	Instrumented Trail-Making Task: Application of Wearable Sensor to Determine Physical Frailty Phenotypes. <i>Gerontology</i> , <b>2019</b> , 65, 186-197	5.5	12
100	Relationship Between Dual-Task Gait Speed and Walking Activity Poststroke. <i>Stroke</i> , <b>2018</b> , 49, 1296-1298.	7	11
99	Alterations in gait parameters with peripheral artery disease: The importance of pre-frailty as a confounding variable. <i>Vascular Medicine</i> , <b>2016</b> , 21, 520-527	3.3	11
98	Exergaming in Older People Living with HIV Improves Balance, Mobility and Ameliorates Some Aspects of Frailty. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	11
97	The association between motor capacity and mobility performance: frailty as a moderator. <i>European Review of Aging and Physical Activity</i> , <b>2019</b> , 16, 16	6.5	11
96	Molecular dynamics study of congruent melting of the equimolar ionic liquid-benzene inclusion crystal [emim][NTf <sub>2</sub> ].C(6)H(6). <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 044507	3.9	11
95	An ambulatory system for physical activity monitoring in elderly		11
94	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. <i>Journal of Diabetes Science and Technology</i> , <b>2019</b> , 13, 847-856	4.1	10
93	Motorized mobility scooters: the use of training/intervention and technology for improving driving skills in aging adults - a mini-review. <i>Gerontology</i> , <b>2014</b> , 60, 357-65	5.5	10
92	The impact of diabetic foot ulcers and unilateral offloading footwear on gait in people with diabetes. <i>Clinical Biomechanics</i> , <b>2020</b> , 73, 157-161	2.2	9
91	Novel In-Shoe Exoskeleton for Offloading of Forefoot Pressure for Individuals With Diabetic Foot Pathology. <i>Journal of Diabetes Science and Technology</i> , <b>2017</b> , 11, 874-882	4.1	9
90	Falls self-efficacy and gait performance after gait and balance training in older people. <i>Journal of the American Geriatrics Society</i> , <b>2008</b> , 56, 1154-6	5.6	9

89	Golfing skill level postural control differences: a brief report. <i>Journal of Sports Science and Medicine</i> , <b>2012</b> , 11, 452-8	2.7	9
88	Viscosity calculation of supercritical gases based on the modified Enskog theory. <i>High Temperatures - High Pressures</i> , <b>2003</b> , 35/36, 217-226	1.3	9
87	Post the Pandemic: How will COVID-19 Transform Diabetic Foot Disease Management?. <i>Journal of Diabetes Science and Technology</i> , <b>2020</b> , 14, 764-766	4.1	8
86	Application of Wearables to Facilitate Virtually Supervised Intradialytic Exercise for Reducing Depression Symptoms. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
85	Sensor-Based Daily Physical Activity: Towards Prediction of the Level of Concern about Falling in Peripheral Neuropathy. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
84	Molecular dynamics simulation of NMR powder lineshapes of linear guests in structure I clathrate hydrates. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 2367-77	3.6	8
83	Safety of robotic first rib resection for thoracic outlet syndrome. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2021</b> , 162, 1297-1305.e1	1.5	8
82	Postural Balance Parameters as Objective Surgical Assessments in Low Back Disorders: A Systematic Review. <i>Journal of Applied Biomechanics</i> , <b>2016</b> , 32, 316-23	1.2	7
81	Paravertebral spinal injection for the treatment of patients with degenerative facet osteoarthropathy: Evidence of motor performance improvements based on objective assessments. <i>Clinical Biomechanics</i> , <b>2016</b> , 39, 100-108	2.2	7
80	New and Future Directions in Integrative Medicine Research Methods with a Focus on Aging Populations: A Review. <i>Gerontology</i> , <b>2016</b> , 62, 467-76	5.5	7
79	Treatment options for venous leg ulcers: effectiveness of vascular surgery, bioengineered tissue, and electrical stimulation. <i>Advances in Skin and Wound Care</i> , <b>2015</b> , 28, 164-72	1.5	7
78	Aging and type 2 diabetes: consequences for motor control, musculoskeletal function, and whole-body movement. <i>Journal of Aging Research</i> , <b>2013</b> , 2013, 508756	2.3	7
77	Proximal tibia volumetric bone mineral density is correlated to the magnitude of local acceleration in male long-distance runners. <i>Journal of Applied Physiology</i> , <b>2010</b> , 108, 852-7	3.7	7
76	Objective measurement of sleep, heart rate, heart rate variability, and physical activity in suicidality: A systematic review. <i>Journal of Affective Disorders</i> , <b>2020</b> , 273, 318-327	6.6	7
75	Harnessing Digital Health Technologies to Remotely Manage Diabetic Foot Syndrome: A Narrative Review. <i>Medicina (Lithuania)</i> , <b>2021</b> , 57,	3.1	7
74	Association Between Wearable Device-Based Measures of Physical Frailty and Major Adverse Events Following Lower Extremity Revascularization. <i>JAMA Network Open</i> , <b>2020</b> , 3, e2020161	10.4	7
73	Daily Use of Bilateral Custom-Made Ankle-Foot Orthoses for Fall Prevention in Older Adults: A Randomized Controlled Trial. <i>Journal of the American Geriatrics Society</i> , <b>2019</b> , 67, 1656-1661	5.6	6
72	Attentional prioritization in dual-task walking: Effects of stroke, environment, and instructed focus. <i>Gait and Posture</i> , <b>2020</b> , 79, 3-9	2.6	6

71	Lower-Limb Factors Associated with Balance and Falls in Older Adults: A Systematic Review and Clinical Synthesis. <i>Journal of the American Podiatric Medical Association</i> , <b>2020</b> , 110,	1	6
70	Should weight-bearing activity be reduced during healing of plantar diabetic foot ulcers, even when using appropriate offloading devices?. <i>Diabetes Research and Clinical Practice</i> , <b>2021</b> , 175, 108733	7.4	6
69	Toward Remote Assessment of Physical Frailty Using Sensor-based Sit-to-stand Test. <i>Journal of Surgical Research</i> , <b>2021</b> , 263, 130-139	2.5	6
68	A new force field for the adsorption of H <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> , CO, H <sub>2</sub> O, and H <sub>2</sub> S gases on alkali doped carbon nanotubes. <i>Molecular Physics</i> , <b>2016</b> , 114, 3375-3387	1.7	6
67	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. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
66	Viscosity of nonpolar gases (quaternary mixtures). <i>Journal of Chemical &amp; Engineering Data</i> , <b>1979</b> , 24, 24-25	2.8	5
65	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. <i>Sensors</i> , <b>2018</b> , 18,	3.8	5
64	Prediction of the Thermal Conductivity of Refrigerants by Computational Methods and Artificial Neural Network. <i>Frontiers in Chemistry</i> , <b>2017</b> , 5, 99	5	4
63	Falling risk evaluation in elderly using miniature gyroscope		4
62	Source separation in strong noisy mixtures: a study of wavelet de-noising pre-processing <b>2002</b> ,		4
61	Endovascular Therapy in an "All-Comers" Risk Group for Chronic Limb-Threatening Ischemia Demonstrates Safety and Efficacy When Compared with the Established Performance Criteria Proposed by the Society for Vascular Surgery. <i>Annals of Vascular Surgery</i> , <b>2020</b> , 67, 425-436	1.7	4
60	Harnessing digital health to objectively assess cognitive impairment in people undergoing hemodialysis process: The Impact of cognitive impairment on mobility performance measured by wearables. <i>PLoS ONE</i> , <b>2020</b> , 15, e0225358	3.7	4
59	Mobility Performance in Community-Dwelling Older Adults: Potential Digital Biomarkers of Concern about Falling. <i>Gerontology</i> , <b>2021</b> , 67, 365-373	5.5	4
58	Molecular dynamics simulations of nano-confined methanol and methanol-water mixtures between infinite graphite plates: Structure and dynamics. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 144510	3.9	3
57	Poster 88 Feasibility of Training Dual Task Walking After Stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2011</b> , 92, 1717-1718	2.8	3
56	Smart Offloading Boot System for Remote Patient Monitoring: Toward Adherence Reinforcement and Proper Physical Activity Prescription for Diabetic Foot Ulcer Patients.. <i>Journal of Diabetes Science and Technology</i> , <b>2022</b> , 19322968211070850	4.1	3
55	Digital health for monitoring and managing hard-to-heal wounds <b>2020</b> , 129-158		3
54	Wearable Sensor-Based Digital Biomarker to Estimate Chest Expansion During Sit-to-Stand Transitions-A Practical Tool to Improve Sternal Precautions in Patients Undergoing Median Sternotomy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2020</b> , 28, 165-173	4.8	3

53	Later sleep timing predicts accelerated summer weight gain among elementary school children: a prospective observational study. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2021</b> , 18, 94	8.4	3
52	Diffusion Tensor Imaging of the Ankle as a Possible Predictor of Chemotherapy Induced Peripheral Neuropathy: Pilot Study. <i>Current Problems in Diagnostic Radiology</i> , <b>2019</b> , 48, 121-126	1.6	3
51	Cognitive-motor dual-task gait training within 3 years after stroke: A randomized controlled trial. <i>Physiotherapy Theory and Practice</i> , <b>2021</b> , 1-16	1.5	3
50	Smart Technology for the Diabetic Foot in Remission <b>2020</b> , 201-224		3
49	Gait Test or No Gait Test: Do We Need Walking Assessment to Determine Physical Frailty?. <i>Gerontology</i> , <b>2019</b> , 65, 311-312	5.5	2
48	Free energy simulations of amylin I26P mutation in a lipid bilayer. <i>European Biophysics Journal</i> , <b>2015</b> , 44, 37-47	1.9	2
47	Effect of Custom Foot Insoles on Postural Stability in Figure Skaters While on Ice. <i>Journal of Sport Rehabilitation</i> , <b>2016</b> , 25, 255-62	1.7	2
46	Source separation in strong noisy mixtures: A study of wavelet de-noising pre-processing <b>2002</b> ,		2
45	Cost effectiveness of smart insoles in preventing ulcer recurrence for people in diabetic foot remission <b>2018</b> , 1,		2
44	Remote Physical Frailty Monitoring-The Application of Deep Learning-Based Image Processing in Tele-Health. <i>IEEE Access</i> , <b>2020</b> , 8, 219391-219399	3.5	2
43	Wearable technology: A promising opportunity to improve inpatient psychiatry safety and outcomes. <i>Journal of Psychiatric Research</i> , <b>2021</b> , 135, 104-106	5.2	2
42	Digital Biomarker Representing Frailty Phenotypes: The Use of Machine Learning and Sensor-Based Sit-to-Stand Test. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
41	Utilization of Flexible-Wearable Sensors to Describe the Kinematics of Surgical Proficiency. <i>Journal of Surgical Research</i> , <b>2021</b> , 262, 149-158	2.5	2
40	Feature Importance and Predictive Modeling for Multi-source Healthcare Data with Missing Values <b>2016</b> ,		2
39	Dosing Activity and Return to Preulcer Function in Diabetes-Related Foot Ulcer Remission. <i>Journal of the American Podiatric Medical Association</i> , <b>2021</b> , 111,	1	2
38	How should clinical wound care and management translate to effective engineering standard testing requirements from foam dressings? Mapping the existing gaps and needs.. <i>Advances in Wound Care</i> , <b>2022</b> ,	4.8	2
37	Digital foot careLeveraging digital health to extend ulcer-free days in remission <b>2020</b> , 179-194		1
36	Energy decomposition analysis of the intermolecular interaction energy between different gas molecules (H <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> O, N <sub>2</sub> , CO <sub>2</sub> , H <sub>2</sub> S, and CO) and selected Li <sup>+</sup> -doped graphitic molecules: DF-SAPT (DFT) calculations. <i>Theoretical Chemistry Accounts</i> , <b>2018</b> , 137, 1	1.9	1

35	Pilot study evaluating the efficacy of exergaming for the prevention of deep venous thrombosis. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , <b>2018</b> , 6, 146-153	3.2	1
34	The effect of curvature of Li-doped polycyclic hydrocarbon on its interaction energy with H2 and H2O: DF-SAPT (DFT) calculation. <i>Structural Chemistry</i> , <b>2018</b> , 29, 1745-1751	1.8	1
33	Computational prediction of temperature dependence of 13C NMR lineshapes of planar molecules in structure I clathrate hydrates. <i>Journal of the Iranian Chemical Society</i> , <b>2013</b> , 10, 659-667	2	1
32	Methodology for use of a neuroprosthetic to reduce plantar pressure: applications in patients with diabetic foot disease. <i>Journal of Diabetes Science and Technology</i> , <b>2012</b> , 6, 222-4	4.1	1
31	Decomposition of the interaction energy of several flavonoids with Escherichia coli DNA Gyr using the SAPT (DFT) method: The relation between the interaction energy components, ligand structure, and biological activity.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2022</b> , 1866, 130111	4	1
30	Wearable sensor-based balance training in older adult cancer patients with chemotherapy-induced neuropathy: A randomized controlled trial.. <i>Journal of Clinical Oncology</i> , <b>2015</b> , 33, 195-195	2.2	1
29	Accuracy of Daily Foot Temperature Monitoring for Patients with Recently Healed Diabetic Foot Ulcers or History of Amputation. <i>Diabetes</i> , <b>2018</b> , 67, 114-OR	0.9	1
28	Effect of Workstation Type on the Relationship Between Fatigue, Physical Activity, Stress, and Sleep. <i>Journal of Occupational and Environmental Medicine</i> , <b>2021</b> , 63, e103-e110	2	1
27	A Wrist-Worn Sensor-Derived Frailty Index Based on an Upper-Extremity Functional Test in Predicting Functional Mobility in Older Adults. <i>Gerontology</i> , <b>2021</b> , 67, 753-761	5.5	1
26	The detrimental association between fear of falling and motor performance in older cancer patients with chemotherapy-induced peripheral neuropathy. <i>Gait and Posture</i> , <b>2021</b> , 88, 161-166	2.6	1
25	Home-Based Electrical Stimulation to Accelerate Wound Healing-A Double-Blinded Randomized Control Trial. <i>Journal of Diabetes Science and Technology</i> , <b>2021</b> , 19322968211035128	4.1	1
24	Digital Biomarkers of Physical Frailty and Frailty Phenotypes Using Sensor-Based Physical Activity and Machine Learning. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
23	Improvement of Disability in Neurogenic Thoracic Outlet Syndrome by Robotic First Rib Resection. <i>Annals of Thoracic Surgery</i> , <b>2021</b> ,	2.7	1
22	Novel assessment of leukocyte-rich platelet-rich plasma on functional and patient-reported outcomes in knee osteoarthritis: a pilot study. <i>Regenerative Medicine</i> , <b>2021</b> , 16, 823-832	2.5	1
21	Continuous monitoring of mobility performance trajectory in patients receiving chemotherapy.. <i>Journal of Clinical Oncology</i> , <b>2020</b> , 38, e14104-e14104	2.2	0
20	Evaluation of Motor and Cognitive Performance in People with Parkinson's Disease Using Instrumented Trail-Making Test. <i>Gerontology</i> , <b>2021</b> , 1-7	5.5	0
19	Digital Biomarkers of Cognitive Frailty: The Value of Detailed Gait Assessment Beyond Gait Speed. <i>Gerontology</i> , <b>2021</b> , 1-10	5.5	0
18	Harnessing digital health to objectively assess cancer-related fatigue: The impact of fatigue on mobility performance. <i>PLoS ONE</i> , <b>2021</b> , 16, e0246101	3.7	0

17	Harnessing Digital Health to Objectively Assess Functional Performance in Veterans with Chronic Obstructive Pulmonary Disease. <i>Gerontology</i> , <b>2021</b> , 1-11	5.5	o
16	Exercise Programs to Improve Quality of Life and Reduce Fall Risk in Diabetic Patients with Lower Extremity Disease. <i>Contemporary Diabetes</i> , <b>2018</b> , 307-318	o	
15	Benefit of footwear in knee joint stabilisation during overground running. <i>Footwear Science</i> , <b>2013</b> , 5, S130-S131	1.4	
14	Biomechanical predictors of effective orthotic therapy for painful pes cavus. <i>Footwear Science</i> , <b>2013</b> , 5, S104-S105	1.4	
13	Balance improvement in older adults using customised ankle foot orthoses. <i>Footwear Science</i> , <b>2013</b> , 5, S119-S120	1.4	
12	Objective assessment of custom-made orthoses benefit in improving balance among figure ice-skaters. <i>Footwear Science</i> , <b>2013</b> , 5, S126-S127	1.4	
11	Impact Of Pain Suppression On Three-dimensional Gait Kinematics In Knee Osteoarthritis Patients. <i>Medicine and Science in Sports and Exercise</i> , <b>2020</b> , 52, 348-349	1.2	
10	Harnessing Digital Health To Objectively Assess Motor Capacity In Patient With Chronic Obstructive Pulmonary Disease. <i>Medicine and Science in Sports and Exercise</i> , <b>2020</b> , 52, 296-296	1.2	
9	The Promise and Hurdles of Telemedicine in Diabetes Foot Care Delivery <b>2021</b> , 455-470		
8	Impact of chemotherapy-induced neuropathy on balance performance: Using wearable sensors for objective balance assessment.. <i>Journal of Clinical Oncology</i> , <b>2014</b> , 32, e20687-e20687	2.2	
7	The Therapeutic Efficacy Of Platelet-Rich Plasma On Gait And Balance In Patients With Knee Osteoarthritis. <i>Medicine and Science in Sports and Exercise</i> , <b>2020</b> , 52, 349-349	1.2	
6	Continuous Diffusion of Oxygen Adjunct Therapy to Improve Scar Reduction after Cervicotomy - A Proof of Concept Randomized Controlled Trial. <i>Journal of Surgical Research</i> , <b>2021</b> , 268, 585-594	2.5	
5	Phenotypic frailty in people living with HIV is not correlated with age or immunosenescence.. <i>International Journal of STD and AIDS</i> , <b>2022</b> , 9564624221091455	1.4	
4	Harnessing digital health to objectively assess cognitive impairment in people undergoing hemodialysis process: The Impact of cognitive impairment on mobility performance measured by wearables <b>2020</b> , 15, e0225358		
3	Harnessing digital health to objectively assess cognitive impairment in people undergoing hemodialysis process: The Impact of cognitive impairment on mobility performance measured by wearables <b>2020</b> , 15, e0225358		
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