Nicolas Vuillerme

List of Publications by Year
in descending order

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242 papers	6,094 citations	71102 41 h-index	114465 63 g-index
259 all docs	259 docs citations	259 times ranked	5438 citing authors

#	Article	IF	Citations
1	Biomechanics and physiological parameters during gait in lower-limb amputees: A systematic review. Gait and Posture, 2011, 33, 511-526.	1.4	185
2	The effect of expertise in gymnastics on postural control. Neuroscience Letters, 2001, 303, 83-86.	2.1	175
3	Testâ€“retest reliability of centre of foot pressure measures to assess postural control during unperturbed stance. Medical Engineering and Physics, 2009, 31, 276-286.	1.7	172
4	Center-of-pressure regularity as a marker for attentional investment in postural control: A comparison between sitting and standing postures. Human Movement Science, 2011, 30, 203-212.	1.4	150
5	How attentional focus on body sway affects postural control during quiet standing. Psychological Research, 2007, 71, 192-200.	1.7	134
6	Attentional demand for regulating postural sway: the effect of expertise in gymnastics. Brain Research Bulletin, 2004, 63, 161-165.	3.0	127
7	Walking ability to predict future cognitive decline in old adults: A scoping review. Ageing Research Reviews, 2016, 27, 1-14.	10.9	121
8	Postural sway under muscle vibration and muscle fatigue in humans. Neuroscience Letters, 2002, 333, 131-135.	2.1	110
9	Attentional demands and postural sway: the effect of the calf muscles fatigue. Medicine and Science in Sports and Exercise, 2002, 34, 1907-1912.	0.4	109
10	The effect of expertise in gymnastics on proprioceptive sensory integration in human subjects. Neuroscience Letters, 2001, 311, 73-76.	2.1	104
11	Can vision compensate for a lower limbs muscular fatigue for controlling posture in humans?. Neuroscience Letters, 2001, 308, 103-106.	2.1	103
12	Postural control during quiet standing following cervical muscular fatigue: effects of changes in sensory inputs. Neuroscience Letters, 2005, 378, 135-139.	2.1	100
13	Performance Evaluation of Smartphone Inertial Sensors Measurement for Range of Motion. Sensors, 2015, 15, 23168-23187.	3.8	93
14	The magnitude of the effect of calf muscles fatigue on postural control during bipedal quiet standing with vision depends on the eyeâ€“visual target distance. Gait and Posture, 2006, 24, 169-172.	1.4	92
15	Effects of a reaction time task on postural control in humans. Neuroscience Letters, 2000, 291, 77-80.	2.1	83
16	iBalance-ABF: A Smartphone-Based Audio-Biofeedback Balance System. IEEE Transactions on Biomedical Engineering, 2013, 60, 211-215.	4.2	68
17	Is One Trial Sufficient to Obtain Excellent Pressure Pain Threshold Reliability in the Low Back of Asymptomatic Individuals? A Test-Retest Study. PLoS ONE, 2016, 11, e0160866.	2.5	67
18	Biomechanical assessment of the sitting posture maintenance in patients with stroke. Clinical Biomechanics, 2007, 22, 1024-1029.	1.2	63

#	Article	IF	Citations
19	Effect of light finger touch on postural sway after lower-limb muscular fatigue11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2003, 84, 1560-1563.	0.9	62
20	Experimental neck muscle pain impairs standing balance in humans. Experimental Brain Research, 2009, 192, 723-729.	1.5	62
21	Individual differences in the ability to identify, select and use appropriate frames of reference for perceptuo-motor control. Neuroscience, 2010, 169, 1199-1215.	2.3	61
22	Mobile Phone-Based Joint Angle Measurement for Functional Assessment and Rehabilitation of Proprioception. BioMed Research International, 2015, 2015, 1-15.	1.9	60
23	Test-retest reliability of cervicocephalic relocation test to neutral head position. Physiotherapy Theory and Practice, 2008, 24, 380-391.	1.3	59
24	Re-weighting of somatosensory inputs from the foot and the ankle for controlling posture during quiet standing following trunk extensor muscles fatigue. Experimental Brain Research, 2007, 183, 323-327.	1.5	57
25	Real-Time Obstacle Detection System in Indoor Environment for the Visually Impaired Using Microsoft Kinect Sensor. Journal of Sensors, 2016, 2016, 1-13.	1.1	56
26	Differential integration of kinaesthetic signals to postural control. Experimental Brain Research, 2006, 174, 763-768.	1.5	55
27	Walk Detection With a Kinematic Sensor: Frequency and Wavelet Comparison. , 2006, 2006, 1711-4.		55
28	Validity and Reliability of Gait and Postural Control Analysis Using the Tri-axial Accelerometer of the iPod Touch. Annals of Biomedical Engineering, 2015, 43, 1935-1946.	2.5	55
29	Muscle fatigue degrades force sense at the ankle joint. Gait and Posture, 2008, 28, 521-524.	1.4	53
30	Multivariate Analyses and Classification of Inertial Sensor Data to Identify Aging Effects on the Timed-Up-and-Go Test. PLoS ONE, 2016, 11, e0155984.	2.5	53
31	Assessment of Static Postural Control in Teenagers with Down Syndrome. Adapted Physical Activity Quarterly, 2001, 18, 417-433.	0.8	51
32	Can a plantar pressureâ€“based tongue-placed electrotactile biofeedback improve postural control under altered vestibular and neck proprioceptive conditions?. Neuroscience, 2008, 155, 291-296.	2.3	51
33	Controlling posture using a plantar pressure-based, tongue-placed tactile biofeedback system. Experimental Brain Research, 2007, 179, 409-414.	1.5	49
34	Massage and mobilization of the feet and ankles in elderly adults: Effect on clinical balance performance. Manual Therapy, 2009, 14, 661-664.	1.6	49
35	Attentional demands associated with the use of a light fingertip touch for postural control during quiet standing. Experimental Brain Research, 2006, 169, 232-236.	1.5	48
36	Eye movement characteristics reflected fatigue development in both young and elderly individuals. Scientific Reports, 2018, 8, 13148.	3.3	48

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37	How performing a mental arithmetic task modify the regulation of centre of foot pressure displacements during bipedal quiet standing. Experimental Brain Research, 2006, 169, 130-134.	1.5	46
38	Trunk extensor muscles fatigue affects undisturbed postural control in young healthy adults. Clinical Biomechanics, 2007, 22, 489-494.	1.2	45
39	Results with the RoselandÂ® HAC trapeziometacarpal prosthesis after more than 10 years. Chirurgie De La Main, 2015, 34, 59-66.	0.7	45
40	Effects of a high-intensity swim test on kinematic parameters in high-level athletes. Applied Physiology, Nutrition and Metabolism, 2006, 31, 150-158.	1.9	43
41	Sensory supplementation system based on electrotactile tongue biofeedback of head position for balance control. Neuroscience Letters, 2008, 431, 206-210.	2.1	43
42	Cervicocephalic Relocation Test to the Neutral Head Position: Assessment in Bilateral Labyrinthine-Defective and Chronic, Nontraumatic Neck Pain Patients. Archives of Physical Medicine and Rehabilitation, 2008, 89, 2375-2378.	0.9	43
43	Obstacle detection and warning system for visually impaired people based on electrode matrix and mobile Kinect. Vietnam Journal of Computer Science, 2017, 4, 71-83.	1.2	43
44	Differential postural effects of plantarâ€“flexor muscle fatigue under normal, altered and improved vestibular and neck somatosensory conditions. Experimental Brain Research, 2008, 191, 99-107.	1.5	42
45	Effect of manipulation of the feet and ankles on postural control in elderly adults. Brain Research Bulletin, 2008, 75, 18-22.	3.0	41
46	Motor tract integrity predicts walking recovery. Neurology, 2020, 94, e583-e593.	1.1	41
47	Gait dynamics to optimize fall risk assessment in geriatric patients admitted to an outpatient diagnostic clinic. PLoS ONE, 2017, 12, e0178615.	2.5	40
48	Using the cervical range of motion (CROM) device to assess head repositioning accuracy in individuals with cervical radiculopathy in comparison to neck- healthy individuals. Manual Therapy, 2013, 18, 403-409.	1.6	39
49	Biomechanical modeling to prevent ischial pressure ulcers. Journal of Biomechanics, 2014, 47, 2231-2236.	2.1	39
50	Local dynamic stability during gait for predicting falls in elderly people: A one-year prospective study. PLoS ONE, 2018, 13, e0197091.	2.5	39
51	Balance rehabilitation therapy by tongue electrotactile biofeedback in patients with degenerative cerebellar disease. NeuroRehabilitation, 2012, 31, 429-434.	1.3	37
52	Factors related to the high fall rate in long-term care residents with dementia. International Psychogeriatrics, 2015, 27, 803-814.	1.0	37
53	Effect of fatigue on double pole kinematics in sprint cross-country skiing. Human Movement Science, 2009, 28, 85-98.	1.4	36
54	Postural adaptation to unilateral hip muscle fatigue during human bipedal standing. Gait and Posture, 2009, 30, 122-125.	1.4	36

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55	Intra-session absolute and relative reliability of pressure pain thresholds in the low back region of vine-workers: effect of the number of trials. BMC Musculoskeletal Disorders, 2016, 17, 350.	1.9	36
56	Variability of spatial temporal gait parameters and center of pressure displacements during gait in elderly fallers and nonfallers: A 6-month prospective study. PLoS ONE, 2017, 12, e0171997.	2.5	36
57	Differential integration of visual and kinaesthetic signals to upright stance. Experimental Brain Research, 2011, 212, 33-46.	1.5	34
58	Behavioral Telemonitoring of the Elderly at Home: Detection of Nycthemeral Rhythms Drifts from Location Data. , 2010, , .		33
59	Smart Diabetic Socks: Embedded device for diabetic foot prevention. Irbm, 2014, 35, 72-76.	5.6	33
60	Effects of a 200ÂWâ€“15Âmin cycling exercise on postural control during quiet standing in healthy young adults. European Journal of Applied Physiology, 2007, 100, 169-175.	2.5	32
61	Postural control and perceptive configuration: Influence of expertise in gymnastics. Gait and Posture, 2008, 28, 46-51.	1.4	32
62	Digital Health Transition in Rheumatology: A Qualitative Study. International Journal of Environmental Research and Public Health, 2021, 18, 2636.	2.6	32
63	Tongue-placed tactile biofeedback suppresses the deleterious effects of muscle fatigue on joint position sense at the ankle. Experimental Brain Research, 2007, 183, 235-240.	1.5	31
64	A wireless embedded tongue tactile biofeedback system for balance control. Pervasive and Mobile Computing, 2009, 5, 268-275.	3.3	31
65	Multiple gait parameters derived from iPod accelerometry predict age-related gait changes. Gait and Posture, 2016, 46, 112-117.	1.4	31
66	Reliability of Oculometrics During a Mentally Demanding Task in Young and Old Adults. IEEE Access, 2018, 6, 17500-17517.	4.2	31
67	Degradation of Cervical Joint Position Sense Following Muscular Fatigue in Humans. Spine, 2010, 35, 294-297.	2.0	30
68	Balance, aging, andÂosteoporosis: effects ofÂcognitive exercises combined with physiotherapy. Joint Bone Spine, 2006, 73, 414-418.	1.6	29
69	The Effects of Scale Display of Visual Feedback on Postural Control During Quiet Standing in Healthy Elderly Subjects. Archives of Physical Medicine and Rehabilitation, 2008, 89, 1772-1774.	0.9	29
70	Effects of Aging and Task Prioritization on Split-Belt Gait Adaptation. Frontiers in Aging Neuroscience, 2019, 11, 10.	3.4	29
71	Spatiotemporal and Kinematic Parameters Relating to Oriented Gait and Turn Performance in Patients with Chronic Stroke. PLoS ONE, 2015, 10, e0129821.	2.5	29
72	Contribution of Each Leg to the Control of Unperturbed Bipedal Stance in Lower Limb Amputees: New Insights Using Entropy. PLoS ONE, 2011, 6, e19661.	2.5	28

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73	TexiCare: An innovative embedded device for pressure ulcer prevention. Preliminary results with a paraplegic volunteer. Journal of Tissue Viability, 2013, 22, 83-90.	2.0	28
74	Clinical workflow for personalized foot pressure ulcer prevention. Medical Engineering and Physics, 2016, 38, 845-853.	1.7	28
75	Cervical joint position sense is impaired in older adults. Aging Clinical and Experimental Research, 2008, 20, 355-358.	2.9	27
76	Effects of head extension on undisturbed upright stance control in humans. Gait and Posture, 2005, 21, 318-325.	1.4	26
77	Postural Effects of the Scaled Display of Visual Foot Center of Pressure Feedback Under Different Somatosensory Conditions at the Foot and the Ankle. Archives of Physical Medicine and Rehabilitation, 2008, 89, 2034-2036.	0.9	26
78	Effects of a gait training session combined with a mass on the non-paretic lower limb on locomotion of hemiparetic patients: A randomized controlled clinical trial. Gait and Posture, 2013, 37, 627-630.	1.4	26
79	Inter-individual variability in sensory weighting of a plantar pressure-based, tongue-placed tactile biofeedback for controlling posture. Neuroscience Letters, 2007, 421, 173-177.	2.1	25
80	Effectiveness of an electro-tactile vestibular substitution system in improving upright postural control in unilateral vestibular-defective patients. Gait and Posture, 2008, 28, 711-715.	1.4	25
81	Cervical joint position sense in rugby players versus non-rugby players. Physical Therapy in Sport, 2010, 11, 66-70.	1.9	25
82	Decreasing Internal Focus of Attention Improves Postural Control During Quiet Standing in Young Healthy Adults. Research Quarterly for Exercise and Sport, 2011, 82, 634-643.	1.4	25
83	Effects of gait training using a robotic constraint (LokomatÃ‚Â®) on gait kinematics and kinetics in chronic stroke patients. Journal of Rehabilitation Medicine, 2014, 46, 132-138.	1.1	25
84	Influence of the Calcaneus Shape on the Risk of Posterior Heel Ulcer Using 3D Patient-Specific Biomechanical Modeling. Annals of Biomedical Engineering, 2015, 43, 325-335.	2.5	25
85	Can energy expenditure be accurately assessed using accelerometry-based wearable motion detectors for physical activity monitoring in post-stroke patients in the subacute phase?. European Journal of Preventive Cardiology, 2017, 24, 2009-2016.	1.8	25
86	EMG normalization method based on grade 3 of manual muscle testing: Within- and between-day reliability of normalization tasks and application to gait analysis. Gait and Posture, 2018, 60, 6-12.	1.4	25
87	Inverted Covariate Effects for First versus Mutated Second Wave Covid-19: High Temperature Spread Biased for Young. Biology, 2020, 9, 226.	2.8	25
88	Improving human ankle joint position sense using an artificial tongue-placed tactile biofeedback. Neuroscience Letters, 2006, 405, 19-23.	2.1	24
89	Changes in the relative contribution of each leg to the control of quiet two-legged stance following unilateral plantarâ€“flexor muscles fatigue. European Journal of Applied Physiology, 2010, 110, 207-213.	2.5	23
90	Timed Up and Go test: Comparison of kinematics between patients with chronic stroke and healthy subjects. Gait and Posture, 2016, 49, 258-263.	1.4	23

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91	Effects of Mirror Feedback on Upright Stance Control in Elderly Transfemoral Amputees. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1960-1963.	0.9	22
92	Do somatosensory conditions from the foot and ankle affect postural responses to plantar-flexor muscles fatigue during bipedal quiet stance?. Gait and Posture, 2012, 36, 16-19.	1.4	22
93	Clinical and biomechanical factors which predict Timed Up and Down Stairs test performance in hemiparetic patients. Gait and Posture, 2013, 38, 466-470.	1.4	22
94	Multiscale and Shannon entropies during gait as fall risk predictorsâ€"A prospective study. Gait and Posture, 2017, 52, 5-10.	1.4	22
95	Opportunities and Barriers of Telemedicine in Rheumatology: A Participatory, Mixed-Methods Study. International Journal of Environmental Research and Public Health, 2021, 18, 13127.	2.6	22
96	Classification of Daily Physical Activities from a Single Kinematic Sensor. , 2005, 2005, 2447-50.		21
97	Do Ankle Foot Orthoses Modify Postural Control during Bipedal Quiet Standing Following a Localized Fatigue of the Ankle Muscles?. International Journal of Sports Medicine, 2007, 28, 243-246.	1.7	21
98	Gait parameters predicted by Timed Up and Go performance in stroke patients. NeuroRehabilitation, 2015, 36, 73-80.	1.3	21
99	Gait characteristics and their discriminative power in geriatric patients with and without cognitive impairment. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 84.	4.6	21
100	Regularity of Center of Pressure Trajectories in Expert Gymnasts during Bipedal Closed-Eyes Quiet Standing. Frontiers in Human Neuroscience, 2017, 11, 317.	2.0	20
101	Spatio-temporal gait parameters obtained from foot-worn inertial sensors are reliable in healthy adults in single- and dual-task conditions. Scientific Reports, 2021, 11, 10229.	3.3	19
102	Mirror versus stationary cross feedback in controlling the center of foot pressure displacement in quiet standing in elderly subjects. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1962-1965.	0.9	18
103	A plantar-pressure based tongue-placed tactile biofeedback system for balance improvement. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10, 63-64.	1.6	18
104	Head position-based electrotactile tongue biofeedback affects postural responses to Achilles tendon vibration in humans. Experimental Brain Research, 2008, 186, 503-508.	1.5	18
105	Postural destabilization induced by trunk extensor muscles fatigue is suppressed by use of a plantar pressure-based electro-tactile biofeedback. European Journal of Applied Physiology, 2008, 104, 119-125.	2.5	18
106	Can tactile plantar stimulation improve postural control of persons with superficial plantar sensory deficit?. Aging Clinical and Experimental Research, 2009, 21, 62-68.	2.9	18
107	Validity of the Walked Distance Estimated by Wearable Devices in Stroke Individuals. Sensors, 2019, 19, 2497.	3.8	18
108	Gait Variability and Complexity during Single and Dual-Task Walking on Different Surfaces in Outdoor Environment. Sensors, 2021, 21, 4792.	3.8	18

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109	Quality of a Supporting Mobile App for Rheumatic Patients: Patient-Based Assessment Using the User Version of the Mobile Application Scale (uMARS). Frontiers in Medicine, 2021, 8, 715345.	2.6	18
110	Veering in human locomotion: modulatory effect of attention. Neuroscience Letters, 2002, 331, 175-178.	2.1	17
111	Sensory Supplementation through Tongue Electrotactile Stimulation to Preserve Head Stabilization in Space in the Absence of Vision. , 2009, 50, 476.		17
112	A Wireless Lingual Feedback Device to Reduce Overpressures in Seated Posture: A Feasibility Study. PLoS ONE, 2009, 4, e7550.	2.5	17
113	How a plantar pressure-based, tongue-placed tactile biofeedback modifies postural control mechanisms during quiet standing. Experimental Brain Research, 2007, 181, 547-554.	1.5	16
114	Effectiveness of a tongue-placed electrotactile biofeedback to improve ankle force sense following plantar-flexor muscles fatigue. Gait and Posture, 2009, 30, 556-559.	1.4	16
115	Effects of plantar-flexor muscle fatigue on the magnitude and regularity of center-of-pressure fluctuations. Experimental Brain Research, 2011, 212, 471-476.	1.5	16
116	Wegoto: A Smartphone-based approach to assess and improve accessibility for wheelchair users. , 2013, 2013, 1194-7.		16
117	Flexion-Relaxation Ratio Asymmetry and Its Relation With Trunk Lateral ROM in Individuals With and Without Chronic Nonspecific Low Back Pain. Spine, 2020, 45, E1-E9.	2.0	16
118	Effects of lower limbs muscular fatigue on anticipatory postural adjustments during arm motions in humans. Journal of Sports Medicine and Physical Fitness, 2002, 42, 289-94.	0.7	16
119	Vestibular and neck somatosensory weighting changes with trunk extensor muscle fatigue during quiet standing. Experimental Brain Research, 2010, 202, 253-259.	1.5	15
120	Does a Single Gait Training Session Performed Either Overground or on a Treadmill Induce Specific Short-Term Effects on Gait Parameters in Patients with Hemiparesis? A Randomized Controlled Study. Topics in Stroke Rehabilitation, 2013, 20, 509-518.	1.9	15
121	Accuracy and usability of a diagnostic decision support system in the diagnosis of three representative rheumatic diseases: a randomized controlled trial among medical students. Arthritis Research and Therapy, 2021, 23, 233.	3.5	15
122	Gait characteristics in patients with ankylosing spondylitis: a systematic review. Clinical and Experimental Rheumatology, 2021, 39, 173-186.	0.8	15
123	Rating of perceived exertion with Borg scale in stroke over two common activities of the daily living. Topics in Stroke Rehabilitation, 2018, 25, 145-149.	1.9	14
124	Human Activities and Postures Recognition: From Inertial Measurements to Quaternion-Based Approaches. Sensors, 2019, 19, 4058.	3.8	14
125	Trunk kinematics and low back pain during pruning among vineyard workersâ€"A field study at the Chateau Larose-Trintaudon. PLoS ONE, 2017, 12, e0175126.	2.5	14
126	Evaluation of a Smartphone-based audio-biofeedback system for improving balance in older adults - A pilot study. , 2013, 2013, 1198-201.		13

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127	Adaptive Control of Dynamic Balance across the Adult Lifespan. Medicine and Science in Sports and Exercise, 2020, 52, 2270-2277.	0.4	13
128	Sensory Re-Weighting in Human Bipedal Postural Control: The Effects of Experimentally-Induced Plantar Pain. PLoS ONE, 2013, 8, e65510.	2.5	13
129	Identifying Subgroups of Patients With Chronic Nonspecific Low Back Pain Based on a Multifactorial Approach: Protocol For a Prospective Study. JMIR Research Protocols, 2018, 7, e104.	1.0	13
130	Obstacle detection and warning for visually impaired people based on electrode matrix and mobile Kinect. , 2015, , .		12
131	Effects of a Worksite Supervised Adapted Physical Activity Program on Trunk Muscle Endurance, Flexibility, and Pain Sensitivity Among Vineyard Workers. Journal of Agromedicine, 2017, 22, 200-214.	1.5	12
132	External and Internal Focus of Attention Increases Muscular Activation During Bench Press in Resistance-Trained Participants. Journal of Strength and Conditioning Research, 2018, 32, 2442-2451.	2.1	12
133	Fusion of Multiple Sensors Sources in a Smart Home to Detect Scenarios of Activities in Ambient Assisted Living. International Journal of E-Health and Medical Communications, 2012, 3, 29-44.	1.6	12
134	Ambient Multi-Perceptive System with Electronic Mails for a Residential Health Monitoring System. , 2006, 2006, 3612-5.		11
135	A Fast Algorithm to Track Changes of Direction of a Person Using Magnetometers. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2311-4.	0.5	11
136	The role of body centre of mass on haptic subjective vertical. Neuroscience Letters, 2009, 465, 230-234.	2.1	11
137	Clinically oriented real-time monitoring of the individualâ€™s risk for deep tissue injury. Medical and Biological Engineering and Computing, 2011, 49, 473-483.	2.8	11
138	Pressure Sores Prevention for Paraplegic People: Effects of Visual, Auditory and Tactile Supplementations on Overpressures Distribution in Seated Posture. Applied Bionics and Biomechanics, 2012, 9, 61-67.	1.1	11
139	The relationship between gait dynamics and future cognitive decline: a prospective pilot study in geriatric patients. International Psychogeriatrics, 2018, 30, 1301-1309.	1.0	11
140	Balance control during stance - A comparison between horseback riding athletes and non-athletes. PLoS ONE, 2019, 14, e0211834.	2.5	11
141	Validity of wearable actimeter computation of total energy expenditure during walking in post-stroke individuals. Annals of Physical and Rehabilitation Medicine, 2020, 63, 209-215.	2.3	11
142	Understanding Physiological and Degenerative Natural Vision Mechanisms to Define Contrast and Contour Operators. PLoS ONE, 2009, 4, e6010.	2.5	11
143	Circadian Rhythms in the Telephone Calls of Older Adults: Observational Descriptive Study. JMIR MHealth and UHealth, 2020, 8, e12452.	3.7	11
144	Pressure sensor-based tongue-placed electrotactile biofeedback for balance improvement - Biomedical application to prevent pressure sores formation and falls. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6114-7.	0.5	10

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145	Effects of experimentally induced pain of the plantar soles on centre of foot pressure displacements during unperturbed upright stance. Clinical Biomechanics, 2011, 26, 424-428.	1.2	10
146	Does the Integration of Haptic and Visual Cues Reduce the Effect of a Biased Visual Reference Frame on the Subjective Head Orientation?. PLoS ONE, 2012, 7, e34380.	2.5	10
147	Foot-Worn Inertial Sensors Are Reliable to Assess Spatiotemporal Gait Parameters in Axial Spondyloarthritis under Single and Dual Task Walking in Axial Spondyloarthritis. Sensors, 2020, 20, 6453.	3.8	10
148	Assessing and Qualifying Neighborhood Walkability for Older Adults: Construction and Initial Testing of a Multivariate Spatial Accessibility Model. International Journal of Environmental Research and Public Health, 2022, 19, 1808.	2.6	10
149	Review and Analysis of German Mobile Apps for Inflammatory Bowel Disease Management Using the Mobile Application Rating Scale: Systematic Search in App Stores and Content Analysis. JMIR MHealth and UHealth, 2022, 10, e31102.	3.7	10
150	TELERAâ€"Asynchronous TELEmedicine for Patients With Rheumatoid Arthritis: Study Protocol for a Prospective, Multi-Center, Randomized Controlled Trial. Frontiers in Medicine, 2021, 8, 791715.	2.6	10
151	Telemonitoring of the Elderly at Home: Real-Time Pervasive Follow-up of Daily Routine, Automatic Detection of Outliers and Drifts. , 2010, , .		9
152	Local and global effects of neck muscle vibration during stabilization of upright standing. Experimental Brain Research, 2011, 210, 313-324.	1.5	9
153	Can an electro-tactile vestibular substitution system improve balance in patients with unilateral vestibular loss under altered somatosensory conditions from the foot and ankle?. , 2011, 2011, 1323-6.		9
154	Asymmetry of lumbar muscles fatigability with non-specific chronic low back pain patients. European Spine Journal, 2019, 28, 2526-2534.	2.2	9
155	An oculometrics-based biofeedback system to impede fatigue development during computer work: A proof-of-concept study. PLoS ONE, 2019, 14, e0213704.	2.5	9
156	Data Fusion for Analysis of Persistence in Pervasive Actimetry of Elderly People at Home, and the Notion of Biological Age. , 2008, , .		8
157	A wearable assistive device for the blind using tongue-placed electrotactile display: Design and verification. , 2013, , .		8
158	Foot ulcer prevention using biomechanical modelling. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2014, 2, 189-196.	1.9	8
159	Effect of an Overground Training Session Versus a Treadmill Training Session on Timed Up and Go in Hemiparetic Patients. Topics in Stroke Rehabilitation, 2014, 21, 477-483.	1.9	8
160	iProprio: A smartphone-based system to measure and improve proprioceptive function. , 2016, 2016, 2622-2625.		8
161	Gait as predictor of physical function in axial spondyloarthritis: the prospective longitudinal FOLOMI (Function, Locomotion, Measurement, Inflammation) study protocol. Rheumatology International, 2019, 39, 1681-1688.	3.0	8
162	Association between social asymmetry and depression in older adults: A phone Call Detail Records analysis. Scientific Reports, 2019, 9, 13524.	3.3	8

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163	Do gait and muscle activation patterns change at middle-age during split-belt adaptation?. Journal of Biomechanics, 2020, 99, 109510.	2.1	8
164	Persistence of Motor-Equivalent Postural Fluctuations during Bipedal Quiet Standing. PLoS ONE, 2012, 7, e48312.	2.5	8
165	The Effect of Free Fly Expertise on Cervical Joint Position Sense: A Pilot Study. Research in Sports Medicine, 2009, 17, 28-34.	1.3	7
166	Control of bipedal posture following localised muscle fatigue of the plantar-flexors and finger-flexors. European Journal of Applied Physiology, 2012, 112, 789-793.	2.5	7
167	Estimation of Task Persistence Parameters from Pervasive Medical Systems with Censored Data. IEEE Transactions on Mobile Computing, 2013, 12, 633-646.	5.8	7
168	Software Consolidation as an Efficient Energy and Cost Saving Solution for a SaaS/PaaS Cloud Model. Lecture Notes in Computer Science, 2015, , 305-316.	1.3	7
169	Unpredictable, Counter-Intuitive Geoclimatic and Demographic Correlations of COVID-19 Spread Rates. Biology, 2021, 10, 623.	2.8	7
170	Outcome-dependent effects of walking speed and age on quantitative and qualitative gait measures. Gait and Posture, 2022, 93, 39-46.	1.4	7
171	Gait characteristics in patients with ankylosing spondylitis: a systematic review. Clinical and Experimental Rheumatology, 2021, 39, 173-186.	0.8	7
172	Optimizing the Use of an Artificial Tongue-Placed Tactile Biofeedback for Improving Ankle Joint Position Sense in Humans. , 2006, 2006, 6029-32.		6
173	Perspectives in Home TeleHealthCare System: Daily Routine Nycthemeral Rhythm Monitoring from Location Data. , 2010, , .		6
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